

2822/5332
FIGURE 2467

GTGCGGTTGCCATGTAATATCCTGGCCGCGCGGGCGCGGAGCGGCTGAGGCGGCGCGGGGCGGGGCGGGGAGCT
GGCAAGCGGGTGGCGGAGGCGGCGCCGACGGGGACTGCTGAGGCGCGCAGAGGTCGGCGGCGCCGGGAGCCTG
TCGCTGGCGCGGTCCGGGCGGGAGGCTCGGCGGCGGGCGGCAGCATGTCGGTGGCGGGGCTGAAGAAGCAGTTCT
ACAAGGCGAGCCAGCTGGTCAGTGAGAAGGTCGGAGGGGCGGAGGGGACCAAGCTGGATGATGACTTCAAAGAGA
TGGAGAAGAAGGTGGATGTCAACAGCAAGGCGGTGACAGAAGTGTGGCCAGGACCATCGAGTACCTGCAGCCCA
ACCCAGCCTCGCGGGCTAAGCTGACCATGCTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGGCT
ACCCGCGAGTCGGAGGGGCTTCTGGGCGAGTGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTG
GTGACGCATTGCTGGATGCCGGCGAGTCCATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCA
AGCAGAACTTCATTGACCCCCCTCCAGAACCTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACTGAAGAAAC
TGGAGGGCGCGCCTGGACTTTGACTACAAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGG
CGCTGGAGAAGTTCGAGGAGTCCAAGGAGGTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGC
AGGTGAGTCAGCTCTCGGCCCCTGGTGGATGCACAGCTGGACTACCACGGGCGAGGCCGTGCAGATCCTGGACGAGC
TGGCGAGAAGCTCAAGCGCAGGATGCGGGAAGCTTCTCACGCCCTAAGCGGGAGTATAAGCCCCAAGCCCCGGG
AGCCCTTTGACCTTGAGAGCCCTGAGCAGTCCAACGGGGGCTTCCCTGCACCACAGCCCCAAGATCGCAGCTT
CATCGTCTTTCCGATCTTCCGACAAGCCATCCGGACCCCTAGCCGGAGCATGCCGCCCTGGACCAAGCCGAGCT
GCAAGGCGCTGTACGACTTCGAGCCCCGAGAACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTCATCACGCTGA
CCAACCAGATCGATGAGAAGTGGTACGAGGGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGG
AGGTGCTTGTGCCCTGCCGAGTCACTACCCCGTGTCCCGCCCCGCCCTCCGTCCACACTGGCCGGCACCCC
CTGCTGGGTCTCTGCAATTCACGGAGCCCCCTGCTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCC
CGGCCCTTGAGGTACTCCCTGAGCAGGACCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCTG
TTTACACTAGCGCTGACTCCCAACGGTGACGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCGCTCCC
CAACTTCTCGCCAGCTGGCCGAGGCGGGGCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAG
CCCCACCTCCGTCTGACCCGACGGGGGCCGGCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGG
GATCGAGGGTCCCCATGGGGTGGCTCAGAGATAGGACCCTGGTTTTAAATCCCTCCAGCCTGGTGCTGGTGATG
GGCCCTGGCCCTACTCCAGGGCCAATGACCCCCGCTCACACACGCACTCCTTCTCTCAAGGCCAGGGCAGAG
GGCCTCACCGCCTCCCGGGCCTGCTGTGACGTTGCAGCCCGGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACA
GAGAACATGGTCTCCTGCAGGGCCCTGCCTCCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTCAGCTTTT
ACTGCCCCCATCCCAACCCAGGGAGGCCTGTGTCACTCTGGCACAAGCTGCCACCACCAGCCACCCACCCACC
CCAGCACACCTCACACGGGACCACAGCCGCGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCCA
GCCCCCTGGTGCCAGGCTCCCTTGCTGAGCCGCTGCCACTTACCCTGTGGGAAGTGGCCCCAGCCATCTCCT
TAGACCAAGGCAGGCAGCCCCGACATCTGCTTCTCTATGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCT
GGGCCAGGCCACATTCACATTCCCTCCCTGTGGTCCAGTGAAGCCTCCGGACCCAGGCTCTGCTCTGCCCT
GCCCTGCACCCCTCGTCAGAAGTACATGAGGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCA
AACTGAAATGTACGCCTGAATTTTGTAAACAGAAGTATTAAATGTCTCTTTCTAC

2823/5332
FIGURE 2468

GGAGTGC GGGGGCGCCCGGCCAGGGGAGCCGCCACAGCCATGGATTGCAAAGATAGACCAGCTTTTCCAGTTAA
GAAGTTAATACAAGCCCGTCTGCCGTTTAAAGCGCTGAATCTTGTCCTCAAAGGGGAAAGCCGATGACATGTCAGA
CGATCAGGGTACTTCTGTGCAAAGTAAAAGCCCCGATTTAGAGGCCTCTTTGGACACCTTGGAAAACAAGTGTCA
TGTGGGTTCTGACATAGACTTTAGACCAGAACTTGTCAACGGGAAGGGTCCCTTAGATAACTTTTTAAGAAATAG
AATCGAAACCAGTATTGGCCAGAGCACAGTCATCATTGATTTGACAGAGGACTCGAATGAGCAGCCAGACAGTCT
TGTGGACCACAATAAACTAAATTCTGAAGCCTCTCCCTCCAGGGAGGCAATAAATGGCCAGCGAGAAGACACTGG
GGATCAGCAGGGGTTGTTGAAGGCCATTGAGAACGACAAGTTGGCATTTCCTGGAGAGACCCTTTTCAGACATTCC
TTGCAAAACAGAGGAGGAGGGTGTGGCTGTGGAGGTGCAGGGAGGAGAGGGCGACTCCCAGGAATGTTCCGCCACG
GAGCTGCCCGGAGCTGACGAGTGGCCCGAGAATGTGCCCCAGAAAGGAGCAGGACAGTTGGAGTGAAGCTGGGGG
CATCTGTTCAAAGGGAAGGTGCCTATGGTGGTCTTGACAGGACATCTTGGCTGTGAGACCACCGCAAATCAAGTC
CCTTCCAGCCACACCCCAAGGCAAGAATGACCCCTGAGAGTGAGGTGCTGGAATCTTTCCCGAAGAAGACTC
TGTAATCAGCCATTCTGTCCTGAGCTCTCCCTCTTCCACCAGCTCGCCCGAGGGGCGCCTGCTCCCCCAAAGCA
GCACAGCACTACAGTCCCTTCCCCACCTCCACGCCCTCCGCAGAATAACTAAGAAATTCGTCAAAGGCTCTAC
AGAGAAGAACAAGCTCAGACTGCAAAGAGATCAGGAGCGTCTGGGCAAGCAGCTCAAGTTACGTGCAGAAAGGGA
AGAAAAGGAGAAGCTGAAAAGAGGAGGCCAAGCGGGCCAAGGAGGAGGCCAAGAAGAAGGAGGAAGAGAAGGA
GCTTAAGGAAAAGGAGAGGGCGGGAGAAGCGGGAGAAGGATGAGAAGGAGAAGGCGGAGAAGCAGCGGCTCAAGGA
GGAGCGGGCGCAAGGAGAGACAGGAAGCCCTGGAGGCTAACTTGAGGAAAAAAGGAAAAAGGAAGAAGAGAAGCG
GTTAAGAGAAGAAGAGAAGCGCATTAAAGCAGAGAAGGCCGAAATCACGAGGTTCTTCCAGAAACCAAGACTCC
ACAGGCCCCCAAGACCCTGGCCGGCTCCTGTGGGAAGTTTGGCCCTTTGAAATTAAGAGCACATGGTCTTGGC
CCCTCGGCGTGGACCGCTTTCCATCCAGACCTCTGCAGTCAGCTGGACCAGCTCCTCCAGCAGCAGAGCGGCGA
GTTCTCCTTCTTGAAGACCTCAAAGGCCGCGAGCCCTGAGGTCCGGACCCACGCACGTTTCCACCCGGAATGC
AGATATTTTTTAACAGTGATGTCGTCATCGTGAGCGTGGGAAGGGCGACGGTGTTCCTGAGAGGAGGAAGTTTGG
CAGGATGAAGCTCCTGCAGTTCTGTGAGAACCACCGGCCTGCCTACTGGGGTACCTGGAATAAGAAGACGGCACT
CATCCGCGCGCAGACCCCTGGGCCCAGGACACGAAGCTCCTGGACTATGAGGTGGACAGTGATGAGGAGTGGGA
AGAAGAGGAGCCTGGGGAGTCCCTGTCCACAGTGAGGGGATGATGATGACGACATGGGAGAGGATGAAGATGA
GGACGATGGTTTCTTGTGCCCATGGGTACCTGTCTGAGGACGAAGGTGTGACAGAGGAGTGTGCCGACCCTGA
GAACCATAAGGTCCGCCAGAACTGAAGGCCAAGGAGTGGGACGAGTTCTGGCTAAGGGGAAGCGCTTTCGCGT
CCTGCAACCTGTGAAGATCGGCTGCGTGTGGGCGGCTGACAGAGACTGCGCAGGCGATGACCTGAAGGTACTGCA
GCAGTTCGCAGCCTGCTTCTTGAGACCCTGCCGGCCAGGAGGAGCAGACGCCCAAGGCCTCCAAGCGGGAGAG
GAGAGACGAGCAGATCCTGGCCAGCTGCTGCCGCTCCTGCACGGCAATGTGAACGGGAGCAAGGTCATCATCCG
GGAGTTCCAGGAGCACTGCCGCCGGGGACTGCTCAGCAACCACACCGGCAGCCCGGAGCCCCCTCCACCACCTA
CCTGCACACCCCCACCCCGAGGAGTGCCGCCATCCCTCTAAGTCCCGGCTCAAGCGGCTCATTTCCGAGAA
CTCAGTGTATGAGAAGCGGCCTGACTTCAGGATGTGCTGGTACGTGCACCCGCAGGTGCTACAGAGCTTCCAGCA
GGAGCACCTGCCCGTGCCGTGCCAGTGAGGCTATGTGACATCGGTGCCCTCGGCCCCCAAGAGGACAGTGGCAG
CGTCCCTCCACGGGGCCAGCCAGGGCACTCCCATCTCGCTGAAGAGGAAGTCAGCGGGCAGCATGTGCATCAC
CCAATTATGAAGAAGCGCAGGCACGACGGCCAGATTGGTGTGTAAGACATGGACGGCTTCCAGGCAGACACGGA
GGAGGAGGAAGAGGAGGAGGGGCACTGTATGATCGTGGATGTCCCGGATGCTGCGGAGGTCCAAGCCCCGTGTGG
AGCCGCTTCCGAGCTGGGGGTGGTGTGGGGGTGGACACCGGCAAGGCCACCCTGACCTCGAGCCCACTGGGTGC
ATCCTGAGAGCAGGGGTGACGTATGTAGAATGCTTAGGGTGTCTCCCCACAGAGCAGATACTTGAACCGACTCA
ATTCTGTGTAAAGAGCACTTTGTCTGCTTCACGGACCTCCCCAAAGTGTGCAGAGTTCTATATAGGATGCTGG
ATTAGTTCCTTTGATATTTGTAAAAATCCCCCAAGAGCCGATATGAATCTGCCCTTTAATAAAGCATTATTGA
GATTGCTGGCTATTGGGGAAGCCTGCGGGCACAGGA

2824/5332
FIGURE 2469

TTTTCTTCGGTGGCTGGTCTCCGGCGGCCCGTCCCCGACTGGGCCCCGTGCCCCCGCCCCGCGGCCCGCC
GCCGCCGGGCCAGCCGCCACCATGAAAGAAATTCTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCGGTGAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCACAAAGAGAAGCCCAACCAGCCAGCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCCGCCCTAGCCCGGTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACCTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCACCTGGCTGTG
CCTGGCGTGTACTTACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAACTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCCAGAAGGTGTTGCTTCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGGCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGCGCGCC
AAGCTGGACAGGCAGCGCCGCGTCTTCCAGCCCTCGCCCTGGCCTCGCAGTTCGAACTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTGCTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTG
GCCTTGAAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGCCGAGCCGGACTCCATCCTGAAACCCGAGCTCCTGTGAGCCATCGAGAAGCTCTTGTGAAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTCTCTCCCCGCCACCCAGGGCCT
CCAAGCCACCTCTGGAATACTTGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCGAGGGAGAGGCCTGGGGAC
ACCAAC

2825/5332
FIGURE 2470

CGCCGCTGCAGCCGCTTTCCGCGGCCTGGGCCTCTCGCCGTCAGCATGCCACACGCCTTCAAGCCCCGGGGACTTG
GTGTTGCTAAGATGAAGGGCTACCCCTACTGGCCTGCCAGGATCGACGACATCGCGGATGGCGCCGTGAAGCCC
CCACCCAACAAGTACCCCATCTTTTCTTTGGCACACACGAAACAGCCTTCTGGGACCCAAGGACCTGTTCCCC
TACGACAAATGTAAAGACAAGTACGGGAAGCCCAACAAGAGGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAG
AACAACCCCCACGCCAGCTACAGCGCCCCCTCCGCCAGTGAGCTCTCCGACAGCGAGGCCCCCGAGGCCAACCCC
GCCGACGGCAGTGACGCTGACGAGGACGATGAGGACCGGGGGGTTCATGGCCGTACAGCGGTAACCGCCACAGCT
GCCAGCGACAGGATGGAGAGCGACTCAGACTCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCT
GCGCTAAAGATGTGCGTCTCGAAACGAGCCCCGAAAGGCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCCATCC
GAAGAGGAGAACTCGGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACCAGGACTTCACACCTGAGAAGAAAGCA
GCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGGACGGAAGAGGCGCCATCAGCCTCCGACTCCGAC
TCCAAGGCCGATTTCGGACGGGGCCAAGCCTGAGCCGGTGGCCATGGCGCGGTGCGCGTCTCTCTCTCTCTTCC
TCTCTCTCTCCGACTCCGATGTGTCTGTGAAGAAGCCTCCGAGGGGCAGGAAGCCAGCGGAGAAGCCTCTCCCG
AAGCCGCGAGGGCGGAAACCGAAGCCTGAACGGCCTCCGTCCAGCTCCAGCAGTGACAGTGACAGCGACGAGGTG
GACCGCATCAGTGAGTGAAGCGGCGGGACGAGGCGCGGAGGCGCGAGCTGGAGGCCCGGCGGCGGAGAGCAG
GAGGAGGAGCTGCGGCGCTGCGGGAGCAGGAGAAGGAGGAGAAGGAGCGGAGGCGGAGCGGGCCGACCGCGG
GAGGCTGAGCGGGGCGCGGCGGCGAGCAGCGGGGACGAGCTCAGGGAGGACGATGAGCCGTCAAGAAGCGGGGA
CGCAAGGGCCGGGGCGGGGTCCCCCGTCTCTCTGACTCCGAGCCGAGGCCGAGCTGGAGAGAGAGGCCAAG
AAATCAGCGAAGAAGCCGAGTCTCAAGCACAGAGCCCGCCAGGAAACCTGGCCAGAAGGAGAAGAGAGTGCGG
CCCGAGGAGAAGCAACAAGCCAAGCCCGTGAAGGTGGAGCGGACCCGGAAGCGGTCCGAGGGCTTCTCGATGGAC
AGGAAGGTAGAGAAGAAGAAAGAGCCCTCCGTGGAGGAGAAGCTGCAGAAGCTGCACAGTGAGATCAAGTTTGCC
CTAAAGGTCGACAGCCCGGACGTGAAGAGGTGCTGAATGCCCTAGAGGAGCTGGGAACCCCTGCAGGTGACCTCT
CAGATCTCTCAGAAGAACACAGACGTGGTGGCCACCTTGAAGAAGATTCGCCGTTACAAAGCGAACAAGGACGTA
ATGGAGAAGGCAGCAGAAGTCTATACCCGGCTCAAGTCGCGGTCCTCGGCCCAAAGATCGAGGCGGTGCAGAAA
GTGAACAAGGCTGGGATGGAGAAGGAGAAGGCCGAGGAGAAGCTGGCCGGGAGGAGCTGGCCGGGGAGGAGCTG
GCCGGGGAGGAGGCCCCCAGGAGAAGGCGGAGGACAAGCCAGCACCGATCTCTCAGCCCCAGTGAATGGCGAG
GCCACATCACAGAAGGGGGAGAGCGCAGAGGACAAGGAGCACGAGGAGGGTGGGACTCGGAGGAGGGGCCAAGG
TGTGGCTCTCTGAAGACCTGCACGACAGCGTACGGGAGGGTCCCACCTGGACAGGCCTGGGAGCGACCGGCAG
GAGCGCGAGAGGGCACGGGGGACTCGGAGGGCCCTGGACGAGGAGAGCTGAGCCGCGGGCAGCCAGGCCAGCCC
CCGCCCCAGCTCAGGCTGCCCCCTCTCCTTCCCCGGCTCGCAGGAGAGCAGAGCAGAGAACTGTGGGGAACGCTGT
GCTGTTTGTATTGTCCCTTGGGTTTTTTTTCTGCCTAATTCTGTGATTTCGAACCAACATGAAATGACTA
TAAATGGTTTTTTAATG

2826/5332
FIGURE 2471

GGTGACCCTGTTTGCAGCACGATGTCTGAAGAAGAGGCGGCTCAGATCCCCAGATCCAGTGTGTGGGAGCAGGAC
CAGCAGAACGTGGTGCAGCGTGTGGTGGCTCTGCCCCCTGGTCAGGGCCACGTGCACCGCGGTCTGCGATGTTTAC
AGTGCAGCCAAGGACAGGCACCCGCTGCTGGGCTCCGCTGCCGCTGGCTGAGAACTGCCGTGTGCGGCCTGACC
ACCCGTGCCCTGGACCACGCCCAGCCGCTGCTCGAGCACCTGCAGCCCCAGCGGCCACAGGTGTCTGCCCCAGC
GTCTTTGGTGTAAAGCGGCTTCTGGTGGGCCTGGACAAGCTGGAAGAGAAGCTTCCCTTTCTCCAGCAACCTTCG
GAGACGGTGGTGACCTCAGCCAAGGACGTGGTGGCCAGCAGTGTACGGGTGTGGTGGACCTGGCCCCGAGGGGC
CGGCGCTGGAGCGTGGAGCTGAAGCGCTCCGTGAGCCATGCTGTGGATGTTGTACTGGAAAAATCAGAGGAGCTG
GTGGATCACTTCCTGCCCCATGACGGAGGAAGAGCTCGCGGCACTGGCGGCTGAGGCTGAAGGCCCTGAAGTGGGT
TCGGTGGAGGATCAGAGGAGACAGCAGGGCTACTTTGTGCGCCTCGGCTCCCTGTACGACCGATCCGCCACCTG
GCCTACGAGCACTCTGTGGGGAAACTGAGGCAGAGCAAAACACCGTGCCCAGGACACCCTGGCCCAGCTGCAGGAG
ACGCTGGAGCTGGTGAGAGCCCCGCTGCCCCCCCCCTGCTCCGGGATGCAGGCCAATCAGTATGGATTGAGCACCAG
CTGAATACCGGATCCCGTGCTAGCCTAAAGCAGGAGGCGGAGCTGGCTCTTCCCTCCCCGAGCAGCCACCAGAG
GGCACCTGTGAGCCCCTGAGTCAGATAGACCACATGCAGTGTGGGGTGACCCCCACCGCCCCGGCCTGCCCTGGG
AAGGTGCACGAGCTGTGGGGGGAATGGGGCCAGCGCCCTCCGAGAGCCGCCCGCGGAGCCAGGCAGAGCTGGAG
ACGCTGGTGTCTGTCGCGCAGCCTGACCCAGGAGCTGCAGGGCACGGTAGAGGCTCTGGAGTCCAGCGTGCGGGGC
CTGCCCCCGGCGCCAGGAGAAGGTGGCTGAGGTGCGGCGCAGTGTGGATGCCCTGCAGACCGCCTTCGCTGAT
GCCCCGTGCTTCAGGGACGTGCCAGCGGCCGCGCTGGCCGAGGGCCGGGGTTCGCGTGGCCCCACGCGCACGCCTGC
GTGGACGAGCTGCTGGAGCTGGTGGTGCAGGCCGTGCCGCTGCCCTGGCTGGTGGGACCCTTCGCGCCCCATCCTT
GTGGAGCGACCCGAGCCCCTGCCCCAGCTGGCGGACCTGGTGGACGAGGTCATCGGGGGCCCTGACCCCCGCTGG
GCGCACCTGGACTGGCCGGCCAGCAGAGAGCCTGGGAGGCAGAGCACAGGGACGGGAGTGGGAATGGGGATGGG
GACAGGATGGGTGTTGCCGGGGACATCTGCGAGCAGGAACCCGAGACCCCCAGCTGCCCGGTCAAGCACACCCTG
ATGCCCGAGCTGGACTTCTGA

2827/5332
FIGURE 2472

AGAAGCAAAAGAGCAGAGCTACCAATGTCTCTTGGAGCAGACAGCGACCAAAAAGCCCAGGGGGCATTCAACCCC
ATGTTTCTAGAACTCTGTTCCCTGCTGCTGCTGTTGGCAGCCTCAGCCTGGGGGGTCACCCTGAGCCCCAAAGACT
GCCAGGTGTTCCGCTCAGACCATGGCAGCTCCATCTCTGTCAACCACCTGCCGAAATCCCCGGCTACCTGCCAG
CCGACACCGTGACCTGGCCGTGGAATTCTTCAACCTGACCCACCTGCCAGCCAACCTCCTCCAGGGCGCTCTA
AGCTCCAAGAATTGCACCTCTCCAGCAATGGGCTGGAAAGCCTCTCGCCCGAATTCCTGCGGCCAGTGCCGCAGC
TGAGGGTGCTGGATCTAACCCGAAACGCCCTGACCGGGCTGCCCCCGGGCCTCTCCAGGCCTCAGCCACCCTGG
ACACCCTGGTATTGAAAGAAAACAGCTGGAGGTCTCGTGGCTACACGGCCTGAAAGCTCTGGGGC
ATCTGGACCTGTCTGGGAACCGCCTCCGGAACCTGCCCCCGGGCTGCTGGCCAACCTTACACCCTCCTGCGACCC
TTGACCTTGGGGAGAACCAGTTGGAGACCTTGCCACCTGACCTCCTGAGGGGTCCGCTGCAATTAGAACGGCTAC
ATCTAGAAGGCAACAAATTGCAAGTACTGGGAAAAGATCTCTCTTGCCGACGCCGGACCTGCGCTACCTCTTCC
TGAACGGCAACAAGCTGGCCAGGGTGGCAGCCGGTGCCCTCCAGGGCCTGCGGCAGCTGGACATGCTGGACCTCT
CCAATAACTCACTGGCCAGCGTGCCCCAGGGGCTCTGGGCATCCCTAGGGCAGCCAAACTGGGACATGCGGGATG
GCTTCGACATCTCCGGCAACCCCTGGATCTGTGACCAGAACCTGAGCGACCTCTATCGTTGGCTTCAGGCCAAA
AAGACAAGATGTTTTCCAGAATGACACGCGCTGTGCTGGCCCTGAAGCCGTGAAGGGCCAGACGCTCTGGCAG
TGGCCAAGTCCCAGTGAGACCAGGGGCTTGGGTTGAGGGTGGGGGGTCTGGTAGAACACTGCAACCCGCTTAACA
AATAATCCTGCCTTTGGCCGGGTGCGGGGGCTCACGCCCTGTAATCCAGCACTTTGGGAGGCCAGGTGGGCGGA
TCACGAGGTCAGGAGATCGAGACCATCTTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATATAAAAAATTA
GCCAGGCGTGGTGGTGGGCACCTGTAGTCCCAGCAACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGA
GGCGGAGCTTGCGGTGAGCCAAGATCGTGCCACTGCACTCTAGCCTGGGCGACAGAGCAAGACTGTCTCAAAAA
ATTAAAAATTAAAAATTAAAAACAAATAATCCTGCCTTTTACAGGTGAAACTCGGGGCTGTCCATAGCGGCTGGGAC
CCCGTTTCATCCATCCATGCTTCTTAGAACACACGATGGGCTTTCTTACCCATGCCCAAGGTGTGCCCTCCGTC
TGGAATGCCGTTCCTGTTTCCAGATCTCTTGAACCTCTGGGTTCTCCAGCCCCTGTCTTCTTCCAGCTGA
GCCCTGGCCACACTGGGGCTGCCTTCTCTGACTCTGTCTTCCCCAAGTCAGGGGGCTCTCTGAGTGCAGGGTCT
GATGCTGAGTCCCACCTTAGCTTGGGGTCAGAACCAAGGGGTTTAATAAATAACCCCTTGAAAACCTGGATCGGATGA
ATTGGCTTTCATTGTGTTTCTTAGCATCTTCTCAAATCAACTTCCAGGACTCCAGGGTGAAGGAGGAAAAGAGGC
ATGGCCCAGGCCCTGGGGTGTGGGATATGGTCTCCCTAGGGGATGACAGTTGGGATCAATGGCCTGTGACTTCTC
CTCTCCCTTCCCCCATCCTGGGACCTAACTGGAAATAAAACCTTGACTGTTGCCCGGGTGTCAATTTTACCAGTGG
ATTTCTGCCAGGGCTTGTGTCCTAGGAGAAGGTTTAAAGTTAAACCAGATTGCCAGGTCTCCAAACGATTTGTCA
TGCTGACCTGAGATCATCGAAGGGGGCACCTGCCCCCGGGCAAGGTTGCAGGGGCAGGATGGGGCTGAAGGGATG
AGCAGGGTCCCGGGCCACCTGCTGATACAGCATTGGCCATGTGGGGGCTGCAATCGGATTTGGAAGACCCTGGG
GCTTGGGGGCATGTCCAGTTTTTCCAGCTCCCTAAAAATGACCATGCAGCCTGGCGCCGTGGCTCATGCCTGTA
ATCCAAACACTTTGGGAGGCTGAGGCAGGCAGATCACCGAGGTGAGGATTCGAGACCAGACTGGCCAACATGG
CAAAACCTGTCTCTACTAAAAATACAAAAATTAGCCAGGCACAGTGGCACGTGCCTGTAATACCAGCTACTTGG
GAGGGTCAGGCAGGAGAATCACTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCC
AGGCTGGGCGACAGAGTGAAACTGTGTCTCAAAAAATAAAAAATAAAAT

2828/5332
FIGURE 2473

CCCCGGCCCCGGCTCCGGCGCTGCTCCACCGCCGCGGCAACGGCCCCGGCCCCACGGAGGCGGCTGGACGGACCC
CCGACGGTTGGACGTACGGACTCTGCTTCGAGAGTAGGCCATGGACACCTTCAGCACCAAGAGCCTGGCTCTGCA
GGCGCAGAAGAAGCTCCTGAGTAAGATGGCGTCCAAGGCAGTGGTGGCCGTGCTGGTGGATGACACCAGCAGTGA
GGTGTGGATGAGCTGTACCGCGCCACCAGGGAGTTCACGCGCAGCCGCAAGGAGGCCAGAAAGATGCTCAAGAA
CCTGGTCAAGGTGGCCCTGAAGCTGGGACTGCTGCTGCGTGGGGACCAGCTGGGCGGTGAGGAGCTGGCGCTGCT
GCGGCGCTTCCGCCACCGGGCGCGCTGCCTGGCCATGACGGCCGTGAGCTTCCACCAGGTGGACTTCACCTTCGA
CCGGCGCGTGTGGCCGCGGGCTGCTCGAGTGCCGCGACCTGCTGCACCAGGCGGTGGGTCCCCACCTGACCGC
CAAGTCCACGGCCGATCAACCACGTGTTCCGCCACCTAGCCGACTGCGACTTCTGGCTGCGCTCTACGGCCC
CGCCGAGCCCTACCGTCCACCTGCGCAGGATCTGCGAGGGCCTGGGCCGGATGCTGGACGAGGGCAGCCTCTG
AACCCCGGCGCGCCCAACCGCGCCCTTCGCGCCTTTTGGGGCTCTCTGCTGGGCGCGGGTGGGGTTTGTGGGT
TTTTTCCACCTCTTTTCTCCAATCGGACTCCGGCCAACTCCCCTAGACAGATGGGTGACCTGTCTCCTTTGA
GAGGATGCTGAGGCATCTGTAGCAGCTGTTTCAAACACCAATGTACCTCTCCTCTGGCCCCGCCCAATGGGG
AGAGGAATTTGGGGCCCTACTCTGGGGACCACCTTTCACCCGTTTGTACTTTCTGGGCCACGCCGACCCCTGGGT
CGCTTGATGTAAAAGCCAAAAGCTGCTGCCTCCCACTTGGATCATGTGCGCTGGGATTTTCATCCCTCGCACAAAG
GACTACGGGTTACACGGTGAAGTGGGGGAAGGGAAGTGTAGGGGGCAAGTCGCGGCACCCCCCTTCCATAAA
CTCACGTCTTAACCCCCAGGACCTCAGAAGATGATCTGATTTGGAAATAGGATCATTACAGATGGAATTAGTTCA
GATGATCTCATCTTGGAGTAGGGTGGGCCCCAATTCAAGGACTGGGGTCCTTAAAAAAGGGGGCCTGGGGCAGG
GCGCGGTGGCTCACGCTGTAATCCCAGCACTTTGAGAGGCTGAGGCGGGCGGATCACGAGGTCAGGAGATCGAG
ACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTGAAAATACAAAAAATTAGCTGGGCATGGTGGCACATGC
CTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGATAATCACTTGAACCAGGAGGAGGAGGTTGCAGTGAGCCGA
GATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAGAAGCGGGGAGTGGGGGA
TTGAGGCCACGTGCAGTGGCTCACTACTCTAATTCCAGCACTTTGGGAGGCCGAGGCAGGAAGATTGCTTGAAGT
CAGAAGTTCAAGACCAGTCTGGGCAACATGGTGAGACCCTCGTCTCTACAAAAAATAATTATCGTGGTGGGCCG
GGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACAAAGTCAAGAGATCGA
GACCATCCTGGCCAACATGGTGAAACCCGCTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGTGCGTGC
CTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGCAGGTTGCAGGGAGGCG
GAGGTTGCAGTGAGCCGAGATTGCACCACTGCACTTCAGCCTGGTGACAGAGCGAGACTCGTCTCAAAAAAATA
AAAAAAGTGAAGTGTGGTGGTGACACGTATAATCCCAGCTACTTGAGAGATGACGAGGGAAGA
TCACTTGAGCCCAGGAGTTAAGAGGCTGCAGTGACCGATGATCATGCCACTGCACTCCAGCTTGGGTGAGAGTGG
GACTCTGTCTT

2829/5332
FIGURE 2474

GTCTACCCGCCCCCTGCCCTGAGGACCCTAGTCCAACATGCGGGCGCCCAGCGGAGGGTGGAAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCGGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAAC
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTGACAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCCTATGTTTACCCAGGGGACCTCCTTTCAGATGAAGT
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

2830/5332
FIGURE 2475

CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCCGCCGCCCCGCCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCCGAATTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTTGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

2831/5332
FIGURE 2476

GGTTGGAAC TATTGAAGCCCGCTTTCAGGTTCTTTTCCCCATTTTCCCTTTGAAAGGAAGACTTCTGGCTTCTCC
TAAATCTCCGTTCTCTGGGTAAGGGGAGTCCAAGCCTCTGTTCATGAGGAACGGAAATGCGAGGGCCTCGGGTGTT
ACTCTAAAATCCGCCCTCAGCTTGACGCCGGAAGCTGCGATTCCCTGCAGCGGAAGAGGCGTGATCTGGCCTTCG
ACTCGCTATGTCCTACTAACAATATGTCGGACCCACGGAGGCCGAACAAAGTGCTGAGGTACAAGCCCCGCCGAG
CGAATGTAACCCGGCCTTGGACGACCCGACGCGGACTACATGAACCTGCTGGGCATGATCTTCAGCATGTGCGG
CCTCATGCTTAAGCTGAAGTGGTGTGCTTGGGTCGCTGTCTACTGCTCCTTCATCAGCTTTGCCAACTCTCGGAG
CTCGGAGGACACGAAGCAAATGATGAGTAGCTTCATGCTGTCCATCTCTGCCGTGGTGATGTCTATCTGCAGAA
TCCTCAGCCCATGACGCCCCCATGGTCATACCAGCCTAGAAGGGTCACATTTTGGACCCTGTCTATCCACTAGGC
CTGGGCTTTGGCTGCTAAACCTGCTGCCTTCAGCTGCCATCCTGGACTTCCCTGAATGAGGCCGTCTCGGTGCCC
CCAGCTGGATAGAGGGAACCTGGCCCTTTCTAGGGAACACCCTAGGCTTACCCCTCCTGCCTCCCTTCCCCTGC
CTGCTGCTGGGGGAGATGCTGTCCATGTTTCTAGGGGTATTCAATTTGCTTTCTCGTTGAAACCTGTTGTTAATAA
AGTTTTTCACTCTG

2832/5332
FIGURE 2477

GCAAGGAAGGAGTCCTGGGAGCATGGCTTTCCCTGAGCCAAAGCCGCGGCCTCCAGAGCTGCCGCAGAAACGGTT
GAAGACGCTGGACTGCGGGCAGGGGGCAGTGCGAGCCGTACGATTTAATGTGGATGGCAATTACTGCCTGACGTG
CGGCAGTGACAAGACGCTGAAGCTGTGGAACCCGCTTCGGGGGACGCTGCTGCGGACGTACAGCGGCCACGGCTA
CGAGGTGCTGGATGCGGCCGGCTCCTTTGACAACAGTAGTCTCTGCTCCGGCGGCGGGGACAAGGCGGTGGTTCT
GTGGGATGTGGCATCAGGGCAGGTCGTGCGCAAATTCGGGGGCCACGCAGGGAAGGTGAACACGGTGCAATTTAA
TGAAGAGGCCACAGTTATCCTGTCCGGCTCTATTGATTCCAGTATCCGCTGTTGGGATTGCCGCTCACGGAGGCC
TGAGCCAGTGACAGACGCTGGATGAGGCCAGAGATGGCGTGTCCAGTGTGAAGGTGTCAGACCACGAGATCCTGGC
AGGCTCCGTGGATGGCCGCTGAGACGCTATGACCTAAGGATGGGGCAGCTCTTCTCAGACTACGTGGGCAGCCC
CATCACCTGCACCTGCTTCAGCCGGGATGGGCAGTGACCCCTGGTGTCCAGCCTGGACTCCACATTGCGGCTCCT
GGACAAAGACACAGGGGAGCTGCTGGGCGAGTACAAGGGCCATAAGAACCAGGAATACAAGCTGGACTGCTGCCT
GAGCGAGCGTGACACACATGTGGTCAGCTGTTCTGAGGACGGGAAGGTGTTCTTCTGGGACCTGGTGGAGGGTGC
GCTGGCTCTGGCCCTGCCTGTGGGTTCCGGTGTGGTGCAGTCGCTGGCCTACCACCCAACAGAGCCCTGCCTGCT
GACCGCCATGGGAGGCAGCGTCCAGTGCTGGCGAGAGGAGGCCATGAGGCAGAGGATGGAGCAGGCTGAAGCCA
GGGGACCCACCAACAGGACCAAGGACCGAGACACAGACATGGAAGGACTTCAGATACCATCTTATTCTAGAGACG
TAGCTGACCAAAAAGTAGGGGAGGGGCTGGGTCTGCAAATTAATAAATAGAAGAGGGGGTAAGACCTTCCTGGGA
CCGC

2833/5332
FIGURE 2478

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTGCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCTTGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCACCTGGGATGATCATTCTGGGCGGGGGCGTGGTCAAGCACCATTTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGTCTATGCTGACGC
CTCCCTGGTCTTCCCCTGCTTGTGGCTGAAACCTTTGCCAGAAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTATTATAATTTGCAGACCCAGCCCCTCCCC
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTT

2834/5332
FIGURE 2479

GACAAGACGCGAGGCCGCGCAGCGCCACCCGGTCGCAATGGAGCTTCCCCTAGGGCGGTGCGATGATTCCCGCAC
CTGGGACGATGACTCGGACCCAGAGTCAGAGACAGACCCAGACGCGCAGGCCAAGGCCTACGTGGCCCGGTTCT
CAGTCCGCCAAAATCCGGGCTGGCGTTCTCGCGCCCTCGCAGCTATCCACACCCGCCGCGTCCCCGAGCGCTTC
GGAGCCTCGGGCCGCGTCCAGGGTTTCGGCCGTAAGTGAGCCGGGCCCTTCTGAGCCTTCCCCCGGAGCTGCTGCT
CGAGATCTGCTCCTACCTGGACGCCCGCCTCGTGCTCCACGTCTGTGCGGGGTGTGCCACGCGCTCCGCGACCT
CGTGCTGACCATGTACCTGGAGGCTACGCGCGCTACGCCGCGTACGCGCGCCCTACCCAGTGGTGGAAGAGAA
GAACCTTTGACTGGCCGGCAGCCTGCATTGCGCTGGAGCAGCACCTGTCCCGCTGGGCAGAGGATGGGCGCTGGGT
CGAATACTTCTGCCTGGCCGAAGGCCACGTGGCTTCCGTTGACTCAGTGCTGCTGCTCCAGGGTGGGTCACTCTG
TCTGTGCGGGCTCCCCGAGATCGCAACGTCAACTTGTGGGACCTGCGGCAGCTGGGGACGGAGTCCAACCAGGTTCT
GATCAAGACCTTAGGCACTAAGCGAAATAGTACCCATGAGGGCTGGGTGTGGTCACTGGCAGCGCAGGACCACCG
CGTGCTGCTCCGGCTCCTGGGACAGCACAGTGAAGCTCTGGGACATGGCAGCGGATGGGCAGCAGTTCCGGCGAGAT
AAAGGCCAGCTCAGCCGTGCTGTGCTCTCCTACCTGCCTGACATCCTGGTGACTGGCACCTATGACAAGAAGGT
GACCATCTACGACCCCAAGAGCCGGCCAGCCCTGTTGAAGCACCAGCAACTACACTCCAGACCCGTGCTGACCCT
GCTGGCGGATGACCGGCACATCATCTCAGGCAGCGAGGACCACACCCCTGGTGGTGGTGGACCGCCGAGCCAACAG
CGTCTGCAGCGTCTGCAGCTGGACTCCTACCTGCTCTGCATGTCTACCAGGAACCCCAAGCTCTGGGCTGGTGA
CAACCAGGGCCTGCTGCACGTCTTCGCCAACCGCAACGGCTGCTTCCAGCTTATCCGGTCCTTTGATGTGGGCCA
CAGCTTTCCCATCACTGGGATCCAGTACTCCGTGGGAGCCTTGTAACACCATCCACTGACAAGACCATCCGGGT
GCACGTGCCCACAGACCCACCAAGGACCATTTGCACCCGAAGGCATGACAATGGGCTCAATAGGGTCTGTGCTGA
GGGCAACCTGGTGGTGGCCGGCTCTGGAGACCTGTGCTAGAGGTCTGGAGGCTGCAGGCCTGAGCAGGTGGGCG
TGGATGTGGATACTGCCTGCCGGAGGCTGGGCTTCCCTCTCTGTTCTTGGGGGACCATCCCCAATGTTGGTGCTG
CCTCCGCCCCGTGGGCCTAGGGCACAAGGAGTCCCAGCCACATTGCGGTGAGCGTCTGGCCTGGGCCCTATGCC
CGGGGGAAGGGTGAAATTGGGGTTCAGGCCACCCAGGGGGCCGCTTCCCACTCTTGGGCCCTGGTTTTGTTATG
ATTTGGATGCCCCGCTCTCAGTTGAGAGCGAAGGAGAAATAAACCTGACATGTTGGTGCTTGG

2835/5332
FIGURE 2480

CTCTCTTTGGCTCCCTCCTTCCGCGCGAGTCTCTGGAGAAGCCGCGAGCGGAGTTGCCGCGCTGCTGCCCCGGG
CCGGCTTGCCTTGCGCCATGGACTGGCAGCCAGACGAGCAGGGCCTGCAGCAGGTCTGCAGCTGCTCAAAGACT
CACAGTCGCCCCAACACAGCCACTCAGCGCATCGTGCAGGATAAACTCAAACAACCTCAATCAGTTTCTGACTTCA
ACAACTACCTGATTTTTCGTCTGACCAGACTCAAGTCAGAAGATGAGCCAACGCGCTCTCTCAGTGGCCTCATCC
TCAAGAACACAGTGAAGGCACACTATCAGAGCTTCCCACCCCCTGTGGCAGACTTCATCAAACAGGAGTGTCTCA
ACAACATTGGCGATGCCTCCTCGCTCATCCGAGCCACCATTGGCATTCTCATCACCACCATCGCTTCCAAGGGTG
AGCTGCAGATGTGGCCCCGAGCTGCTGCCCCAGCTCTGCAACCTGCTTAACTCGGAGGATTACAACACTTGTGAGG
GAGCCTTTGGAGCCCTGCAGAAGATCTGTGAAGACTCATCAGAGCTTCTGGACAGTGACGCCCTCAACAGGCCCC
TCAACATCATGATCCCCAAGTTCTCTGCAGTTCTTCAAGCACTGCAGTCCCAAGATCCGGTCCCACGCCATCGCCT
GCGTGAACCAGTTTCATCATGGACCGGGGCCAGGCGCTGATGGACAATATTGACACCTTCATCGAGCACCTATTTG
CCCTGGCTGTGGATGATGACCCCGAGGTGCGGAAGAATGTGTGCCGTGCCCTGGTGATGCTTCTGGAAGTGC
TTGACAGGCTCATCCCCACATGCACAGCATCATCCAGTACATGCTGCAGAGGACCCAGGACCATGATGAGAACG
TTGCCCTTGAGGCTGTGAGTTCTGGCTGACGCTGGCCGAGCAGCCCATCTGCAAGGAAGTCTGGCCTCCCATC
TGGTCCAGTTGATCCCCATCTTGGTGAATGGGATGAAGTACTCGGAAATTGACATCATCTGTCTCAAGGGGGATG
TGGAGGAGGATGAGGCTGTCCCCGACAGTGAGCAGGACATCAAGCCACGCTTCCACAAGTCACGCACGGTCCAC
TGCCCCACGAGGCTGAGCGGCTGATGGCTCCGAGGACGCGGAGGATGACGATGATGATGATGCTGTGCCGACT
GGAATTTGAGGAAGTGCTCAGCGGCTGCACTGGACGCTCTCGCCAATGTCTTCCGGGAGGAAGTGTGTGCCCCACC
TACTCCCACTACTCAAAGGCCTCCTCTTCCACCCCGAGTGGGTGGTCAAGGAGTCCGGCATCCTGGTGCTGGGCG
CCATTGCTGAGGGCTGCATGCAGGGCATGGTGCCCTACCTGCCTGAGCTGATCCCGACCTGATCCAGTGCCTGT
CGGATAAGAAGGCCTTGGTCCGCTCCATCGCCTGTGGACGCTGAGCCGCTATGCCCACTGGGTGGTCAAGCAGC
CACCCGACATGCACCTCAAGCCCTGATGACAGAGCTGCTCAAACGCATCCTGGATGGCAACAAGAGGGTACAGG
AGGCGGCTGCACTGCTTTTGCACCCCTGGAGGAAGAGGCTGCACGGAGCTGGTGCCCTACCTCAGCTACATCC
TGGACACCCCTGTCTTTGCTTTGGGAAATACCAGCACAAGAACCTGCTATCCTCTATGACGCCATTGGCACCC
TGGCCGACTCTGTAGGCCACCACCTCAACCAGCCGAATACATCCAGAAGCTGATGCCCCACTGATCCAGAAGT
GGAATGAGCTCAAGGACGAAGACAAGGACCTCTTCCCCCTGCTGGAGTGTCTGTCTATCGGTGGCCACCGCCCTGC
AGAGTGGCTTCTGCCTTACTGTGAGCCCGTCTACCAGCGCTGTGTACCCCTGGTGCAGAAGACACTGGCTCAGG
CCATGATGTACACCCAGCACCTGAGCAGTATGAGGCTCCCGACAAGGACTTCATGATCGTAGCACTGGATCTGC
TCAGCGGCTGGCCGAGGGCCTGGGTGGTACGTGGAGCAGCTGGTGGCCCGCAGCAACATCATGACATTGCTGT
TCCAGTGCATGCAGGACTCGATGCCTGAGGTCCGGCAGAGCTCCTTTGCCCTCCTGGGAGACCTCACAAAGCCT
GCTTCATCCATGTCAAGCCCTGTATCGCCGAGTTTCATGCCCATTCTGGGCACCAACCTGAACCCAGAGTTTCATCT
CCGTCTGCAACAACGCCACCTGGGCCATTGGTGAATCTGCATGCAGATGGGGGCAGAGATGCAGCCTTATGTGC
AGATGGTCTTCAACAACCTGGTGGAAATCATTAAACCGACCCAACACACCCAAGACACTGCTGGAAAACACAGGTC
GCCTGACGAGTCCCTCTGCCATTCCAGCCATCACCATCGGCCGCTTGGGCTACGTGTGCCCCAGGAGGTGGCAC
CCATGCTGCAGCAGTTTCATCCGGCCTTGGTGCACGTCCCTCAGGAACATCAGGGACAACGAGGAGAAGGACTCAG
CCTTCCGCGGCATCTGCATGATGATCGGTGTCAACCCGGGGGGCGTTGTGCAGGACTTTATTTTCTTCTGCGATG
CTGTAGCCTCCTGGGTGAGCCCGAAGGATGACCTTCGGGACATGTTTTATAAGATTCTCCACGGCTTCAAAGACC
AAGTTGGGGAAGATAACTGGCAGCAGTTCTCTGAGCAATTCCGCGCGCTGCTCAAGGAGAGGCTGGCGGCTTTCT
ATGGGGTCTAGGTGATCATGGAGACTGCCAGGTTTCTGTCTGCGTCTGCTCGGAGGATTACTGGGGAGTGC
TGCATCCGGAAGTCGCTGTGCCCTGGTTGAGGGGGGTTAGGGAGGAG

2836/5332
FIGURE 2481

GCCAAGCGCGGGGCCGGAGCGGCCTTCCCGGAGTCCTTTGCGCGGCACCTGGCGACAAAATGCTGCCCCGAGGGA
GACGGGCGGAGCCTCAGGGCCGGGAGGCTCCGGGCCCCGCGGGCGGTGGCGGTGGCGGGAGCCGTTGGGCTGAGT
CGGGATCGGGGACGTCGCCCCGAGAGCGGGGACGAGGAGGTGTCGGGCGCGGGTTCGAGCCCGGTGTCGGGCGGGC
TGAACCTGTTTCGCAACGACGGCAGCTTCCTGGAGCTGTTCAAGCGGAAGATGGAGGAGGAGCAGCGGCAGCGGC
AGGAGGAGCCGCCCCCGGGTCCGCAGCGACCCGACCAGTCGGCCGCCGCCGCTGGCCCCGGGGATCCGAAGAGGA
AGGGCGGTCCGGGCTCCACACTTAGCTTCGTGGGCAAACGCAGAGGCGGGAACAACTAGCCCTCAAGACGGGAA
TAGTAGCCAAGAAGCAGAAGACGGAGGATGAGGTATTAACAAGTAAAGGTGACGCGTGGGCCAAGTACATGGCAG
AAGTGAAAAAGTACAAAGCTCACCAGTGCGGTGACGATGATAAACTCGGCCCCCTGGTGAAATGACGCCCCCTCCC
CCACCTGCCCATGGCCTGGGACTCTCTGCGATGTACATAACTATTTAATGCAGCGGCAGCGGCAGACGCTTCCC
TGAGAGGACTTAAAAGCAGAAGGAAACCGAGATGCTTCCCGCAGCCGTGGACGATTCTCCAGGACTCTTTTTTTA
CCTTGAGCACTTGCCTCGTGAGACTTCATAGAACAGTGGTTTACTGTCCCCCCTTCTCACCTCCTCATTCTCTC
TGGCTCTTTCTGTCTTCCTCTCTCACCTCCTCCCTCCCCTTAGCCATCACTTCTGGGAAGTAAAGAACTTGAC
TTAGTGCCGG

2837/5332
FIGURE 2482

GCTGGATCACGTGAGCCAGTTCCAAAATGGCGGCAGGGGTGGCCGGGTGGGGGGTTGAGGCAGAGGAGTTCGAAG
ATGCTCCTGATGTGGAGCCGCTGGAGCCTACACTTAGCAACATCATCGAGCAGCGCAGCCTGAAGTGGATCTTCG
TCGGGGGCAAGGGTGGTGTGGGCAAGACCACCTGCAGCTGCAGCCTGGCAGTCCAGCTCTCCAAGGGGCGTGAGA
GTGTTCTGATCATCTCCACAGACCCAGCACACAACATCTCAGATGCTTTTGACCAGAAGTTCTCAAAGGTGCCTA
CCAAGGTCAAAGGCTATGACAACCTCTTTGCTATGGAGATTGACCCACAGCCTGGGCGTGGCGGAGCTGCCTGACG
AGTTCTTCGAGGAGGACAACATGCTGAGCATGGGCAAGAAGATGATGCAGGAGGCCATGAGCGCATTTCCTGGCA
TCGATGAGGCCATGAGCTATGCCGAGGTCATGAGGCTGGTGAAGGGCATGAACTTCTCGGTGGTGGTATTTGACA
CGGCACCCACGGGCCACACCCTGAGGCTGCTCAACTTCCCCACCATCGTGGAGCGGGGCTGGGCCGGCTTATGC
AGATCAAGAACCAGATCAGCCCTTTTCATCTCACAGATGTGCAACATGCTGGGCCTGGGGGACATGAACGCAGACC
AGCTGGCCTCCAAGCTGGAGGAGACGCTGCCCCGTATCCGCTCAGTCAGCGAACAGTTCAAGGACCCTGAGCAGA
CAACTTTTCATCTGCGTATGCATTGCTGAGTTCTGTCCCTGTATGAGACAGAGAGGCTGATCCAGGAGCTGGCCA
AGTGCAAGATTGACACACACAATATAATTGTCAACCAGCTCGTCTTCCCCGACCCCGAGAAGCCCTGCAAGATGT
GTGAGGGCCGTCACAAGATCCAGGCCAAGTATCTGGACCAGATGGAGGACCTGTATGAAGACTTCCACATCGTGA
AGCTGCCGCTGTTACCCCATGAGGTGCGGGGGGCAGACAAGGTCAACACCTTCTCGGCCCTCCTCCTGGAGCCCT
ACAAGCCCCCAGTGGCCAGTAGCACAGCTGCCAGCCCCAACCGCTGCCATTTCACACTCACCTCCACCCTCCC
CACCCTCGGGGCAGAGTTTGACAAAAGTCCCCCATAATACAGGGGGAGCCACTTGGGCAGGAGGCAGGGAG
GGGTCCATTCCTGTTGGGGCTGGTGGGGAGCTGTAGTTGCCCCCTACCTCTCCACCTCTTGCTCTTCAATA
AAATGATCTTAAACTGC

2838/5332
FIGURE 2483

GGGAGGTCGGGGCTGCGGGCGCTCGCTGGTGGCGGACCCGAGGCTGCTGCGGCGCCGGGGCTCCGTGGCCTGGA
TTGAATCCGATCGGGAGCCATGAGCGTGGACAAAGCTGAGCTATGCGGGTCTCTGCTCACCTGGTTACAGACGTT
CCACGTTCCGTCTCCCTGTGCCAGCCCTCAGGACCTGAGCAGCGGCCTTGCCGTAGCCTATGTGCTGAACCAGAT
AGACCCCTCCTGGTTCAACGAGGCATGGCTCCAGGGCATCTCGGAAGATCCAGGTCCCAACTGGAAGCTGAAGGT
CAGCAATCTGAAGATGGTCTTACGGAGCCTAGTAGAGTACTCCAGGATGTCCTGGCGCATCCTGTGTGAGAAGA
GCATCTCCAGATGTGAGCCTCATTGGAGAGTTCTCAGACCCGGCAGAGCTCGGCAAGCTGCTTCAGCTGGTGCT
GGGCTGTGCCATCAGTTGCGAGAAAAAGCAGGACCACATCCAGAGAATCATGACGCTGGAAGAATCGGTTACAGCA
TGTGGTGATGGAAGCCATCCAGAGCTCATGACCAAAGACACTCCTGACTCCCTGTACCAGAGACGTATGGCAA
CTTTGACAGCCAGTCCCGCAGGTACTATTTCTAAGTGAGGAGGCTGAGGAGGGGACGAATTACAGCAGCGCTG
TCTGGATCTGGAGCGGCAGCTGATGCTCCTGTGAGGAGAAAGCAGAGCCTGGCGCAAGAGAATGCAGGGCTGCG
GGAGCGGATGGGCCGGCTGAAGGCGAGGGTACCCAGGTCTCACTGCCAAGAAGCTGCTGCTGCAATCCCA
GCTGGAGCAGTTGCAGGAGGAGAACTTCAGGCTGGAGAGTGGCAGGGAGGATGAGCGCCTGCGCTGTGCCGAGCT
GGAGAGGGAGTTGCGGAGCTGCAGCACCAGGACCGGCTGACTAGCCTGGCCCAGGAGGCACAGGCCCTGAA
GGATGAGATGGATGAACCTACGGCAGTCTTTCGGAGCGTCTGGGCAGCTGGAGGCCACGCTGACCAGTTGCCGGCG
CCGCTTGGGCGAGCTGAGGGAGCTGCGGCGGCAGGTGCGGCAGCTGGAGGAACGCAACGCCGGCCACGCCGAGCG
CACGCGACAACCTGGAGGATGAGCTACGCCGAGCGGGCTCCCTGCGCGCCAGCTGGAGGCGCAGCGCGGCAGGT
GCAGGAACCTGCAGGGCCAGCGGCAGGAGGAGGCCATGAAGGCCGAGAAATGGCTATTTGAATGCCGCAACCTGGA
GGAAAAGTATGAGTCGGTGACAAAGGAGAAGGAGCGGCTGTTGGCGGAGCGGGACTCCTTGCGGGAGGCCAATGA
GGAGCTGCGCTGCGCCAGCTGCAGCCGCGGGGGTTGACCCAGGCCGATCCCTCACTGGATCCCACCTCCACACC
CGTGATAACTTAGCCGAGAGATCCTGCCTGCGGAGCTCAGGGAGACGCTCCTGCGGCTTCAGCTGGAGAACA
GCGGCTGTGAGGCAGGAGGCGGCCGACCGGGAGCGGCAGGAGGAGCTGCAGCGCCACCTGGAGGATGCCAACCG
CGCGCGCCACGGGTTGGAGACGCAGCACCGGCTGAACAGCAGCAGCTATCCGAGCTGCGGGCCAGGTGGAGGA
CCTGCAGAAAGCCCTGCAGGAGCAGGGGGGCAAGACTGAAGATTCCATTTTGCTGAAAAGGAAGCTGGAGGAACA
TTTGAGAAAGCTTCATGAGGCAGATCTGGAGTTGCAGAGGAAGCGGGAGTACATTGAGGAGCTGGAGCCACCCAC
TGACAGCAGCACAGCCCGGCGGATCGAGGAGCTGCAGCATAACTTGAGAAAGGACGCGGACTTGCGGGCCAT
GGAGGAGCGATAACCGCGCTACGTGGACAAGGCCCGCATGGTCATGCAGACCATGGAACCCAAGCAGCGGCCAGC
TGCGGGGGCACCTCCAGAACTCCATTCCCTGAGGACACAGCTCCGAGAACGGGATGTCCGCATCCGACACCTGGA
GATGGACTTTGAGAAAAGCCGAAGTCAGCGGGAGCAGGAAGAAAAGCTGCTCATCAGTGCCTGGTATAATATGGG
CATGGCCTTGACAGCAGGAGCTGGGGAGGAGCGGGCGCCTGCCCATGCCAGTCATTCTGGCACAGCAGCGGCT
GGCAACCAATTCTCGCCGTGGACCTTGGGACGCTGGCATCTCTGAACCTTCGCCCCACTGACAAGCACTGACA
GACCTCACAAATCAAGCCAGCCTGGGCTCCACCCACCCTGGCTTCCCTCCAGCTCACATGGCGCCAGCACTGGGCT
TCAGCCAGGTGCTCGAGAGCTTTGAGGCCATGATCTCTGCTCTTCCCTCTCCAGATTGGTGGGGAGGGAGGGCG
GGAGGTAGATATAGGCCTGTTCTTTTAGCAATGTGATTCTTGTGTTGATTCTCTCTGAGTTCATGTGCTG
CCTCAGGAGACTCTGATTTTATATTTAGAAAAATAAGGCGTTCAATCTGC

2839/5332
FIGURE 2484

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTTCGCACAGCTGCCGGCTGGCTGCTACCCGCCCGCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCGGAGCGGGCCCCGCAGGGA
CCCTCCCCAGACCGCCTGGGCCGCCCGGATGTGCTAAATGGAACAGCCCTTCTACCAAGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCTGGTGGCCTCTCTTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCTGGGGCTCGCGGACCCGGCCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCCCAACAGCAACGGCGTGATCAGACGACGCTACACCCCGGGACAGTACTTTTACCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCCC
GGCTGGGCCCGGGGGCGTCTACGCCGGCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCCCTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCCGCGGTGTCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCAGCTCAAACAGAAGGTGATGACCCACGTGAGCAACGGCTGTGAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCTGGGACCTAGGGGCGCCGAAACCACACTGGACT
CCGGCCCTCCTACCTGCGCCAGTCCCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTGTATGT
TTTTTTCTGCTGGAAACAGACTCGATTATATTGAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGCGGAGCTGGCCCCGCCGCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTGTGTGTGTTTGTCTTTTATTGAATCTATTTAAGTAAAAAAAATTGGTTCTTTATTAA

2840/5332
FIGURE 2485

CGCGGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCA
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTGCGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGCTGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCCTCCAAACTCCACAGTATGGGACCCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

2841/5332
FIGURE 2486

CGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGTGGCGGCTGAGGCGGCATGGATCTCAGCGAGCTGGAGAGAGA
CAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCC GCGGTGTGCCGCAAGGAGCCTTGCGTCCTGGGCGTCGA
TGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCCTGCCTGGCAGA
TCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGGAAAGGCTGTTTGCGAAAATGGA
GGACACGGACTTTGTGCGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATGCTTGGGCGGGT
CAAATACAACCTGAACTCCCTGTCACATGATACAGCCACTGGGCTTATACAGTATGCATTGGACCAGGGCGTGAA
CGTCACCCAGGTATTTCGTGGACACCGTAGGGATGCCAGAGACATACCAGGCGCGGCTGCAGCAAAGTTTTCCCGG
GATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATCTGTGCCAAGGT
GGCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGATTATGGCTCAGG
CTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTTCGGCTTCCCCCAGTTTGT
CCGGTTCAGCTGGCGCACGGCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAGGACTCAGCATC
CGAGAATCAGGAGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGTCCCCGTTCTTC
CCACCGATATTTCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGCGCTCTACCTGC
TTCCCAACCCAGACATTAAAATTGTTTAAGGAG

2842/5332
FIGURE 2487

GTGAAAGGCGCCAGGTGCCAGTCTTGGCCTCTGATGTAACCCAGCGCCCCGAGTCCCGACACAGATTCTGGAT
CTCAGCCCCATAGCAGCTATGATCCCGCTGCTGCTGGCAGCGCTGCTGTGCGTCCCCGCCGGGGCCCTGACCTGC
TACGGGGACTCCGGGCAGCCTGTAGACTGGTTTCGTGGTCTACAAGCTGCCAGCTCTTAGAGGGTCCGGGGAGGCG
GCGCAGAGAGGGCTGCAGTACAAGTATCTGGACGAGAGCTCCGGAGGCTGGCGGGACGGCAGGGCACTCATCAAC
AGCCCGGAGGGGGCCGTGGGCCGAAGCCTGCAGCCGCTGTACCGGAGCAACACCAGCCAGCTCGCCTTCTGCTC
TACAATGACCAACCGCCTCAACCCAGCAAGGCTCAGGACTCTTCCATGCGTGGGCACACGAAGGGTGTCTGCTC
CTTGACCACGATGGGGGCTTCTGGCTGGTCCACAGTGTACCTAACTTCCCTCCACCGGCCTCCTCTGCTGCATAC
AGCTGGCCTCATAGCGCCTGTACCTACGGGCAGACCCTGCTCTGTGTGTCTTTCCCTTCGCTCAGTTCTCGAAG
ATGGGCAAGCAGCTGACCTACACCTACCCCTGGGTCTATAACTACCAGCTGGAAGGGATCTTTGCCCAGGAATTC
CCCGACTTGGAGAATGTGGTCAAGGGCCACCACGTTAGCCAAGAACCCTGGAACAGCAGCATCACACTCACATCC
CAGGCCGGGGCTGTTTTCCAGAGCTTTGCCAAGTTCAGCAAATTTGGAGATGACCTGTACTCCGGCTGGTTGGCA
GCAGCCCTTGGTACCAACCTGCAGGTCCAGTTCCTGGCACAAAATGTAGGCATCCTGCCCTCTAACTGCTCGGAT
ATCTGGCAGGTTCTGAATGTGAACCAGATAGCTTTCCCTGGACCAGCCGGCCCAAGCTTCAACAGCACAGAGGAC
CACTCCAAATGGTGCCTGTCCCCAAAAGGGCCCTGGACCTGCGTGGGTGACATGAATCGGAACCAGGGAGAGGAG
CAACGGGGTGGGGGCACACTGTGTGCCCAGCTGCCAGCCCTCTGGAAAGCCTTCCAGCCGCTGGTGAAGAATACTAC
CAGCCCTGTAATGGCATGGCCAGGAAGCCAGCAGAGCTTATAAGATCTAAACCTTATGGCCAGGTGCAGTGGCT
CACGTATGTAATCCCAGCACTTTGGGAAGCCAAGGAGGGAGGATCACTTGAACCTCAGGAATTCGAGACCAGCCTG
GGCTACATAGTGAGACCACATCTCTACTAGAACTTAAAAAAAGTTAGCCAGGCACGGTGATAAATGCCTGTAGTC
CCAGCCACTGAAGCCAGAGGATCGATTGAACCAGGGAGATCATGGTCACAGTGAACCTATGATTACGCCAACCTGG
GTCACATAGCAAGACTCTGTTTTCAAAAAAAGGGGGGGCGGGGACGGGTGGGTGCAGTGGCTCACATCTGTAA
CCCCAGCACTTTGGGAGGCTGAGATGGGCAGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAAATGGT
GAAACCCCATATCCATTAAAAATATTTAAAAATTAGCCAGACATGGTGGCACGCGTCTGTGGTCTAGCTCCTCG
GGAGGCTGAGGCAGGAGAATCGCTTGAACCTCGGGAGGCAGAGGTTGTCATGAGCTGAGCTAACACCACGGCACTT
CAGCCTGGGTGACAGAATGAGACTCTGTGTCAAAAAATAAAAAATAAAAACTAAGGGCTCAGGAACCAAGTTT
GGACTTGATTTTGAATCCCAGTTCATCCCCTTCTAGCTGTATGACCTTGATTGTGTGCCTTAACCGCTCTGTGA
CACAGTCTACCTGTCTGCAAAATGGGAAACATAATACCTGCCATCAGGATTGTTGAGGAGTAAATAAATGGAAT
TGGTG

2843/5332
FIGURE 2488

GGTCGCCGTCGTTGCTCCGCTCGCTCTGAGAGAGCATGGCCCTGAGAGGCGTCTCCGTGCGGCTGCTGAGCCGCG
GACCCGGCCTGCACGTCCTTCGCACGTGGGTCTCGTCGGCGGCGCAGACCGAGAAAGCGGGAGAACACAGAGCC
AACTGGCTAAGTCCTCGCGTCCCGAGTTTGACTGGCAGGACCCGCTGGTGCTGGAGGAGCAGCTGACCACAGATG
AGATCCTCATCAGGGACACCTTCCGCACCTACTGCCAGGAGAGACTCATGCCTCGCATCCTGTTGGCCAATCGCA
ACGAAGTTTTTTCATCGGGAGATCATTTCGGAGATGGGGGAGTTGGGTGTGCTGGGCCCCACCATCAAAGGATATG
GCTGTGCTGGGGTTTTCTGTGTGGCCTATGGGCTCCTGGCCCGAGAGCTGGAGCGGGTGGACAGTGGCTACAGGT
CGGCGATGAGTGTCCAGTCCCTCCCTCGTCATGCACCTATCTATGCCTATGGCAGCGAGGAACAGCGGCAGAAGT
ACCTGCCCCAGCTGGCCAAGGGGGAGCTCCTGGGCTGCTTCGGGCTCACAGAGCCCCAACAGCGGAAGTGACCCCA
GCAGCATGGAGACCAGAGCCCACTACAACCTCATCCAACAAGAGCTACACCCTCAATGGGACCAAGACCTGGATCA
CGAACTCGCCTATGGCCGATCTGTTTGTAGTGTGGGCTCGGTGTGAAGATGGCTGCATTGGGGCTTCCTGCTGG
AGAAGGGGATGCGGGTCTCTCGGCCCCCAGGATCCAGGGCAAGTTCTCGCTGCGGGCCTCAGCCACAGGCATGA
TCATCATGGACGGTGTGGAGGTGCCAGAGGAGAATGTGCTCCCTGGTGATCCAGCCTGGGGGGTCCCTTCGGCT
GCCTGAACAACGCCCCGTACGGCATCGCGTGGGGCGTGCTTGGAGCTTCGGAGTTCTGCTTGACACAGCCCGGC
AGTACGCCCTCGACAGGATGCAGTTTGGTGTCCCACTGGCCAGGAACCAGCTGATTAGAAAGAAGCTGGCAGACA
TGCTCACTGAGATTACCCTGGGCCTTCACGCCCTGCCTGCAGCTCGGCCGCTTGAAGGACCAGGACAAGGCTGCCC
CCGAGATGGTTTCTCTGCTGAAGAGGAATAACTGTGGGAAAGCCCTGGACATCGCCCGCCAGGCCCGAGACATGC
TGGGGGGGAATGGGATTTCTGACGAGTATCACGTGATCCGGCACGCCATGAACCTGGAGGCCGTGAACACCTACG
AAGGTACACATGACATTACGCCCTGATCCTTGGGAGAGCTATCACGGGAATCCAGGCGTTCACGGCCAGCAAGT
GAGCCGCTCCATCAGGGGCCCCGAACTCTCAAGCCCTTTCTGGAGAGATGCCTGGCTGGACCGTAGGAGCGCTG
TGCTCTGAGCTTAGAAAGGGAGGTGGCGGATGGAGTGGGAAGTGAGAGACACTGATTTTTAAATATCAAATTTT
CCTTCTGAAGTCGTTAGATGTGTTCCTTAAAAAGAAGATGGAATTCTCTGTAGAGCGTCTCAATCCACTTTTAA
CCATGGATGAGAGCAGACTCCATTTACCCTGAAATAGCAGCTTCTCTGAGAGGAGAGTGACATGGAAGCAACTC
CGTCTGCTGCAGCTGACCCCTCACACTGAGTTCACAGTGCGCCCTCCCTCCCTCCCATCTGGGGGTAGTGCCCT
ATGCTGGGTGTTGGAGCAGAGTGAGGGAGAGGAAAAATAAAGACCTGCACATCTG

2844/5332
FIGURE 2489

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAGTGTCTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAGTTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTTCGGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAAGTCTGAAG
ACCTACTGGGTGAGCAAAGGCGAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAAGTCTTGGCCACGGTGTCTTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCAGTTCCGACAGATCTTCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAAATTTCATTGAGAGCTCCTTCTGGAAGTTCGACGCCCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCGGA
AACCTACTGCGAACCACACACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCGCGGGAGTTCTTACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTACG
TACCACCAAGGCCTGAAGAAGTGGGTGGAGTTCGGAAGTTCGGGGTCTTCCGTCCAGAGATGCTGCTGCCATG
GGGCTTCCCGAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGACATGGGCCACTCTAGGACAGGTATCTTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCCTCTGTGAGGCCAGCCCCAC
CTTCTCTTTCCACCTGTCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCC
TGTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGT
TGCCCCCA

2845/5332
FIGURE 2490

GTCCGTA CTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCGCCATGC
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTTCGAGCCTTTCAGCAACAAAGGCCAGACGCTGGTGGTGAGTTTACGGTGAAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGAAGACGATTGGGACT
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCGAGCATATCCCTGACCCTGATGCTAAGAAGCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCAAGTATTGAGAACCTGAGTACAAGGGTGAGTGGAAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCGAGTATTCTCCCG
ATCCAGTATCTATGCCTATGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACTTCCTCATCACCACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGCAGAGGACAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCGGCCAGGCCAAGGACGAGCTGTAGAGAGGCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAAGTTTCATTTTT
TTCCAGGCTGGTTCGGATTGGGGTGATTTTGGTTTTGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTAAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTGCCTCTGTCCCCTTCTCTCATCTCTTAGCTCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCTGAGCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCAGCACTGAGGAAGAAGGGGCTCTTCTCATTTACCCCTCCCTTTCTCCCTGCCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAATT
TCTATTAAATTAAATTTGTGTCTC

2846/5332
FIGURE 2491

GCGCGGCGCGGCGCGCCTGGGCGCTAAGATGGCGGGCGCGTGAGTTGCATGTTGTGTGAGGATCCCGGGGCGGCC
GCGTCGCTCGGGCCCCGCCATGGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGACCTTCAAGATCCGCAT
GGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCGTGATGCCTTCCCGTGGC
TGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTATCGCATCGATGAGAA
GAACTTTGTGGTCGTATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCCAGAGGCCTACCCAC
AGCTGCCCCAGAGTCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCCCCACCTGCCGCCAG
AGAGGACAAGAGCCCATCAGAGGAATCCGCCCCCACGACGTCCCCAGAGTCTGTGTGAGGCTCTGTTCCCTCTTC
AGGTAGCAGCGGGCGAGAGGAAGACGCGGCCTCCACGCTAGTGACGGGCTCTGAGTATGAGACGATGCTGACGGA
GATCATGTCCATGGGCTATGAGCGAGAGCGGGTCGTGGCCGCCCTGAGAGCCAGCTACAACAACCCCCACCGAGC
CGTGGAGTATCTGCTACGGTGAGGTGGGGCTTCCGCCTCCCGGGGAGGCCTTCAGGGAGTACCCGGGCGTCACT
GCCCTGATGGGCGGTTGGGAAGGCAAAACCTGCCCTGAAAAGCCTTTGGGTAGTGATTCTAGCCACTAAAGGCTT
CCCACAGGAGGCTGGATGTGAGTGATGGGTGGGCCTCTGGAGGGCAGGGCCGAGGCCTCATCTGTGCTCTGCCAG
GGCATGGAGGAGGTTGGCAGCAGGAGGTCTGTGCATTAGAACTAAACAGGACCCCTGACAGGGAATTCCTGGGAG
CCCCGAGCCGGAACACGGTTCTGTCCAGGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAA
CCCCCTGGAGTTTCTGCGGGACCCAGCCCCAGTTCCAGAACATGCGGCAGGTGATTACAGCAGAACCCTGCGCTGCT
GCCCCGCCCTGCTCCAGCAGCTGGGCCAGGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACCCAGGAGCAGTT
CATCCAGATGCTGAACGAGCCCCCTGGGGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGG
AGAGGAGGCCCCGAGATGAACTACATCCAGGTGACGCCGAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCT
GGGCTTCCCAGAGAGCCTGGTCATCCAGGCCTATTTGCGGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCT
CCTGAGTCAGAACTTTGATGACGAGTGATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCCTACCCTTATTCCAT
GAAAGTTTATAAAAGAAAAATATATATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAAATCTTA
AAAAACAAGCAAACAGTCCAGCTTCTGTCTCTCTAAAGTGGCCCTGTTCCTATCTCCCGGGCCAGACAGCTG
TCCCCCGTCTCTCTCCAGCCCAGCCTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCTCT
TGGCCTCTGTCCCAGCTCTCTGCAGCCAGACGAAAGGCGGCTGCTTGCTCTCCATCCTCCGAAAAACCCCTGA
GGACCCCCCCCCATCCTTCTTAGGATGAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAA
ATCTTTCCATCTAGGGCAAGTCTGAAAGGCCCAAGGCCCCCTCCCCAGTCTAGCCTTGGCCTCCAGCCTGGAGA
AGGGCTAACATCAGCTCATTGTCAAGGCCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTGAAG
TGAATAAAGTTTTAAAAACT

2847/5332
FIGURE 2492

ATGCGGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCTGGCTAC
CGGGCGGGCCGCCCCGCGCCGAGGCCGGGACCCCGGTGGCCAGACCCGAGGACCTCCTGACCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTGCGCCGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAACTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCAGGCTGACAAG
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTGCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTTGA

2848/5332
FIGURE 2493

TCGATAACAAAGCTGAAATCACATATTTAGGATTTAGGTCTGATTAAAAATGTTGGGGTGGATGTTCCAAGTGG
ATCAGGAGAAAAGAAAATGAAAACAGCCTGGGGAGAGGGAAGCCTGATCTGTTTCCTCACTCGCTTGTCTGTGGA
TGTCATTTTCTGTCTTCTTGGGGGCGGCCAAAAATCGACCGGTGTCGGGGACCAGAGGCGGCCCGCACGCCCC
GCGTGTGCGTCCACGGGCGTCTGTGCAGACGGACACTGTGCCGGGGCGAGCTGACAGGAGTTACAGGCTGCGATA
GAACATGGAGATGTCATGGGCGCGACAGAGCCTGGCGGGGATACCAGCAGCGTGTGATGAGTTCCACCCGTTTCAT
CGAGGCACTGCTGCCTCACGTCCGCGCTTTCTCCTACACCTGGTTCAACCTGCAGGCGCGGAAGCGCAAGTACTT
CAAGAAGCATGAAAAGCGGATGTCGAAGGACGAGGAGCGGGCGGTGAAGGACGAGCTGCTGGGCGAGAAGCCCGA
GATCAAGCAGAAGTGGGCATCCCGGCTGCTGGCCAAGCTGCGCAAGGACATCCGGCCCCGAGTTCCGCGAGGACTT
CGTGCTGACCATCACGGGCAAGAAGCCCCCTGCTGCGTGCTCTCCAACCCCGACAGAGAAGGGCAAGATCCGGCG
GATTGACTGCCTGCGCCAGGCTGACAAGGTGTGGCGGCTGGACCTGGTCATGGTGATTTTGTTTAAGGGGATCCC
CCTGGAAAGTACTGATGGGGAGCGGCTCTACAAGTCGCTCAGTGCTCGAACCCCGGCTGTGCGTCCAGCCACA
TCACATTGGAGTCACAATCAAAGAACTGGATCTTTATCTGGCTTACTTTGTCCACACTCCGGAATCCGGACAATC
AGATAGTTCAAACCAGCAAGGAGATGCGGACATCAAACCACTGCCAACGGGCACCTTAAGTTTCCAGGACTGTTT
TGTGACTTCCGGGGTCTGGAATGTGACGGAGCTGGTGAGAGTATCACAGACTCCTGTTGCAACAGCATCAGGGCC
CAACTTCTCCCTGGCGGACCTGGAGAGTCCCAGCTACTACAACATCAACCAGGTGACCCTGGGGCGGCGGTCCAT
CACCTCCCTCCTTCCACCAGCACCACCAAGCGCCCCAAGTCCATCGATGACAGTGAGATGGAGAGCCCTGTTGA
TGACGTGTTCTATCCCGGGACAGGCCGTTCCCCAGCAGCTGGCAGCAGCCAGTCCAGCGGGTGGCCCAACGATGT
GGATGCAGGCCCGGCTTCTCTAAAGAAGTCAGGAAAGCTGGACTTCTGCAGTGCCCTCTCCTCTCAGGGCAGCTC
CCGCGCATGGCTTTACCCACCACCCGCTGCCTGTGCTTGTGAGTCAGACCAGGGAGCCCCCGGGCCACAGC
ATCAGCCCTGCACTTCCCTCCACGTCCATCATCCAGCAGTCGAGCCCGTATTTACGCACCCGACCATCCGCTA
CCACCACCACCAGGGCAGGACTCACTGAAGGAGTTTGTGCAGTTTGTGTGCTCGGATGGCTCGGGCAGGCCAC
CGGACAGCCCAACGGTAGCGGCCAGGGCAAAGTCCCGGGGTCATTTTTGTACCGCCGCCGCTCCAGTGGCCAG
ACCTGTGCCCTTCTATGCCTGATTCCAAATCCACCAGCACTGCCCCAGACGGCGCCGCTTGACTCCTCCATC
ACCTTCATTTCGAACGACAGGCGCCTCCTCTGCCAACCGGTTTGTGAGCATCGGACCCCGGGACGGCAACTTTCT
GAACATCCCACAGCAGTCTCAGTCCTGGTTCCTCTGATAAGATCGACAAAAGAAAC

2849/5332
FIGURE 2494

CCACCCACCCCTTGGGCTAAAAGCCCCCAGGCGGGCAGGGGGTGACCCCTGGAGCTAGTTGCGTGTCCAGAAATG
GAGGGTGTTCCTGACACCCACCCCTGAGCCGCAAGAGCAGTCCTGGGGCCCTGGACCCCTCTGTACAGTCCGTAGG
AAAAAGTCGGAATGCTCTCGACGGCCTCGTCCAGCCTGGGACAGGCCCCCTTCCCCCTCTCTCTGCAGGCCAGG
AGGGCCTCCTTCCTGCCACGAGGGAGGGGAGTCGGGCCCCAGGTCGCCCCGCCCCCAGCCCTGCATGCAGGTGC
CCTCGCTCCGCCCCATCAGTTCCTGCCCCCTGCCCCCTCATGCAGACTGCCCTGCTGGGGCCGGGCCGAGGGTGGA
GCAGAAAGGGGACCCCGGAGCCGAGCGAGGAGGACCAGGCAGCCGCCGCTGCCGCGCTAAGCCACCACCTGCGCT
TAGGTAGGCGTCCTGCTCGCCGACTTTCAGTTCCTTGGGAGGGTGTTGGGTGTCGTCCTTTTCAAAGTGTTTTG
GAGCTTTCCTGTGCCCCCGACTTTCGCCCGCCTCCCCGCCCCGTCACCTGCGCTTCTGTTATACCATCTTTGCCT
GACTCTCTCCGGCTTCTCCATTGAATGGCTAATGTGTATGTGAAATAAAGAAATAAAGAAAAAC

2850/5332
FIGURE 2495

CTAATTCGGGAAACGTGCACCTTGACTAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCGGCTCCGCCCCGGGTGCTCTCTAGAGC
CCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTACCCGAGGGGGCTGCCAAAATCGCCTTTCAGTGCCAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGA
TGTCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTGAGAGAGGTTTGACGTCATCGATCTGGACCCCTATGGCAGCCCAGCCACCTTCCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAACCTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGTTTTTGTCCGTGTCTTACCAGGCCAGGCCAAGGTCAGGCCTCAGCCAGCAAGCAGGCGCTGGTGTT
CCAGTGTGTGGGCTGCGGGGCCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGCTCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTGAGCGTCATCACTGAGGAGCTCCCGACGTGCCTCTGTACTA
CACCTTGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCTCCA
CGCTGACTTCCGGTCTCACTCTCCACGCCCTGTAAGAACGCTGTGAAGACGGATGCCCTGCCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCAGCGTTCCG
CATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAACTTACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACC CGGAGGCCAACTGGGGTCCCCGGCCTCGTGCCCGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCGAGGCTGCTTCAGAACAAAGCGGAAGGAGCCCGCGGAAGATGTGGCCCA
GCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCCACAGCCCCCGACACCCAGGGTTCTGCTGATGCTGCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGAACCAATAAAGAGATGTCACGTCACCTT

2851/5332
FIGURE 2496

ATGTCTCTCGAAGACCCCTTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGCGGTCCGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGATATAGTGGAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTCTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCTCAGGAAGTTGGCCAAAGTATCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTTGA

2852/5332
FIGURE 2497

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTCGCCGTCGAGTCGCCATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGA
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTCGCTGGTCATGCGCA
GCGCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTCGTTGCCGGCCGCCCTCCCCT
CTGACCCTCGCCTGCACCCGCCCGGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCTGCTGTGCCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTTCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCCGCCGCGTGCAGGCAAAGCCCGCTTGCCGCCCGGCGGACAGCATGCTCAACGTGCTCG
TCCGGGCCGTGGTGGCCTTCTGAGGACCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCGTCAACCGTCGGCCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCTCCATCCTGGGGGAAGCGCCCGGAAAACCGTGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGAGCCATCGCCTTCAGTGTGCAGGGACGG
CACCGAGGAGTCTGAGCCGGGGGCGCGGGCGCTTCCGCAGAGACCTGCGCCACAGGTGCTGCTTAGTGGACT
GGGACGTGAACCTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTGTGTTTTGT
TTGTTTTGTTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTCAAGGTTT
TTCAAGAGTTGGTTTTGCGTTTTCCAACCTCGGAGAATTCCAGGCACTCCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCACTGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCTGTGCGCTTGCGTGGGTGTGGGGCCTGGGA
GGAGGTCTGGGGCGTGACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTCACCCCGCGTGCTG
CTGGTTAATGTCCCGCTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTGAGTGAAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT
TTGTTTACCTTTCGTGCGGTGGATTCTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAA
ATAAAAACCATTTGAGT

2853/5332
FIGURE 2498

CGCGCAACTTGC GGCCAAACTTTCCCCCGGCTCCCGCGCTCGGATGGCGGGCCGCTGAGTTGGCCGCAGCCCC
CGGGCGAGCGGGCGGCCAGGCCAGAGGACGCCCCCTGCGCGGCTCGGGCCGGGCCATGGCCCGCGCGCCCCGCGG
GGGCCCCAGGGCGGGGACGCGAGTCTCTGGGCCCCCGGCCCCGCGCTCTAGCGTGCCCCCTCCCGGCCCCGGG
CCCCGGCCCCGCGCACGCGTGGAAGTTGGCCTGGAACCGGCCCCGACAGTTCCGCCCCGGGCGGAGGACCGGCC
GCAGGAAGTTGCTGCAAAACTTTTTTGGGGGTGCAGCCCGTGCCCCCGCGCGCCGGGCGGAATGCGCGCCG
GTAGGGTCCCCCGGCGAGAGGGGTGCCCGAGGGAAGAGCGCGGTGGGGGCGCCCCGGCCCCGCTGCCCTGGG
GCTATGGCCATGGTGACCGGGCGGCTGGGGCGGCCCCGGCGGCACACGAACGGCGTGGAACAAGCGGGCGGCTAC
CCGCGCGCGGCCGAGGACGACTCGGCCTCGCCCCCGGTGCCGCCAGCGACGCCGAGCCGGGCGACGAGGAGCGG
CCGGGGCTGCAGGTGGACTGCGTGGTGTGCGGGGACAAGTCGAGCGGCAAGCATTACGGTGTCTTCACCTGCGAG
GGCTGCAAGAGCTTTTCAAGCGAAGCATCCGCCGAACCTCAGCTACACCTGCCGGTCCAACCGTGACTGCCAG
ATCGACCAGCACCCGGAACAGTGCCAGTACTGCCGTCTCAAGAAGTGCTTCCGGGTGGGCATGAGGAAGGAG
GCGGTGCAGCGCGGCCGATCCCGCACTCGCTGCCTGGTGGCGTGGCCGCTCTCGGGCAGCCCCCGGGCTCG
GCGCTGGCGGCAGTGCGGAGCGGCGGAGACCTTTCCCGGGCAGCCGGTGTCCGAACGATCGCGCAGCTGCTG
CGCGTGAGCCCTACCCTGCGGGCGGCCGACGCTTCGGCGCAGGGGGCGGCGCGGCGGGCGCGGTGCTGGGCTC
GACAACGTGTGCGAGCTGGCGGCGCGGCTGCTCTTCAGCACCGTGAGTGGGCGCGCCACGCGCCCTTCTTCCCC
GAGCTGCCGGTGGCCGACAGGTGGCGCTGCTGCGCTGAGCTGGAGCGAGCTCTTCGTGCTGAACGCGGCGCAG
GCGGCGCTGCCCCTGACACGGCGCGCTACTGGCGCGCGCGGCTCCACGCCGCGCTATGGCCGCCGAGCGC
GCCGTGGCTTTTCATGGACAGGTGCGCGCTTCCAGGAGCAGGTGGACAAGCTGGGCGGCTGCAGGTGACTCG
GCCGAGTATGGCTGCCTCAAGGCCATCGCGCTCTTCAGCCCCGACGCTGTGGCTCTCAGACCCGGCCACGTT
GAGAGCCTGCAGGAGAAGGCGCAGGTGGCCCTACCGAGTATGTGCGGGCGCAGTACCCGTCCCAGCCCCAGCGC
TTCGGGCGCCTGCTGCTGCGGCTCCCCGCCCTGCGCGGCTCCCTGCTCCCTCATCTCCAGCTGTTCTTCATG
CGCCTGGTGGGGAAGACGCCCCATTGAGACACTGATCAGAGACATGCTGCTGTGCGGGAGTACCTTCAACTGGCCC
TACGGCTCGGGCCAGTGACCATGACGGGGCCACGTGTGCTGTGGCCAGGCCTGCAGACAGACCTCAAGGGACAGG
GAATGCTGAGGCCTCGAGGGGCTCCCGGGGCCAGGACTCTGGCTTCTCTCCTCAGACTTCTATTTTTTAAAGA
CTGTGAAATGTTTGTCTTTTCTGTTTTTAAATGATCATGAAACCAAAAAGAGACTGATCATCCAGGCCTCAGCC
TCATCCTCCCCAGGACCCCTGTCCAGGATGGAGGGTCCAATCCTAGGACAGCCTTGTTCCCTCAGCACCCCTAGCA
TGAAC TTGTGGGATGGTGGGGTTGGCTTCCCTGGCATGATGGACAAAGGCCTGGCGTCGGCCAGAGGGGCTGCTC
CAGTGGGCAGGGGTAGCTAGCGTGTGCCAGGCAGATCCTCTGGACACGTAACCTATGTCAGACACTACATGATGA
CTCAAGGCCAATAATAAAGACATTTCTTACCTG

2854/5332
FIGURE 2499

GGGGCTGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGGCTGATTTAGAAGGAGGT
TCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGCCCCACTGAAGAGGAGGA
GGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGGCAGT
AGGGGACAGGCCAGCGTGGGCAGCCGAGGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAA
CACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCTGAGGTCCAAATTCGGACACCAAGGGT
CAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTGAGAGGAAATGTCACTGCCAAAGCTGGAGTCGTTCAA
CGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGGACAAAACACAAGATCGA
CAAAAGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGCCTGACCTCCGACCCCCG
CGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTGGAAGGACTTTTCAGCCT
CATCCAGCAGAAAACCTGAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCCGCCATATGTGGTCCGCACCAT
CCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAGAAAATGTTCCAGTGCCC
ATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAGATGAGTTGGAAGGATAT
GTTTGCCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCACTGGCTGGGCCAGCCCT
GGAGTTGCACAACCTGCATGGCGAACTGTTGGCCCACCCCTGCAGCGGCCCTTGCCAGAGCCATGCTTCCTACAG
CCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTGTACATCTGCACCTTCT
TGTGCAAGGAAGTCCTTGGCCTAAAGCCTTGGTTCTCAAACCTGGGTTCCCTTGGGACCTCCGGGGTGGGGGGTTC
CAGGAGGCACGTAGGGTACCTTGACGGGTCCTAGGAGGGAACCCAGGATTCCAGGAGGGATCCCAGGAACGTG
GGCACCATTCTTCTGTGTCTCCAGCCATTTCCTACTCTAGTTTGTGATGGATAATTTTGTCTTCCCTGTGT
GATTTTTGCCATCAAAATAAAAATTTGAGACTCGTTAA

2855/5332
FIGURE 2500

ATGTGGACCCCGTGC GCGCGGGG CAGCCTGGCTGGGAACCCTGCTCGGCCCTGGAGAGGGGCCCCCGAGCCG
AGGGGAGGAGCGGCGCATGCCCACAAGCCCCCGGGGAAGTAGGAAATCGACCGACCAGGCGGTGCGCTTCGGA
CCCAGCCAGGGCATGTGCTCGGAGGCCCGCTGGCTCGCAGGGCAGTAGAGGAGCTGCTGCGCTGCGGCGCGGAC
CCTAATTTGGTGTAGAGGACGGCGCAGCGGCTGTGCACTTGGCGGCCGGAGCCCGGCACCCGCGCGGCCTGCGT
TGCTCGGGGCCCTACTGCGCCAAGGCGGGGACCCCAACGCTCGATCTGTGAGGCACTGACGCCGCTGCATGTG
GCGCGCGCTGGGGCTGCCGCGCGGCCTGGAGCTGCTGCTGAGCCAAGGAGCGGACCCGCGCTGCGCGACCAG
GACGGACTCCGGCCGCTGGACCTGGCCCTGCAGCAGGGACACCTGGAGTGC GCGCGAGTCTTCAGGATCTCGAC
ACGCGGACCAGGACCCGGACCCGGATCGGGG CAGAGACTCAGGAGCCCGAGCCTGCACCTGGCACCCAGGCCCTC
TCTGGACCTACCGATGAGACGCTGGACTCCATAGCACTCCAAAAGCAGCCATGCAGAGGTGACAACAGGGACATT
GGCTTGGAGGCTGACCCAGGACCCCGAGCCTCCCTGTTCCCTTGAAACTGTGGACAAACATGGGAGCTCGGCG
TCCCTCCAGGGCACTGGGATTACAGCTCAGACGCCTCTTTCGTCACAGCGGTTGAGGTCTCTGGAGCTGAGGAC
CCAGCCTCGGACACTCCCCCTGGGCTGGGTCA TTGCCACCGACCAGGCAGGGACTTCTGCATGTTGTCCATGCC
AACCAGAGGGTACCTAGGTCTCAGGGCACGGAGGCAGAACTGAATGCCCGTCTGCAGGCCCTGACTCTGACCCCA
CCAAATGCTGTGCTGGCTTCCAGTCCCTCCCTTCCCTCCATGCCTCTCCTGGACAGGA GTCCAGCTCATAGCCCCCA
CGGACACCAACCCCTGGAGCTTCTGACTGCCACTGCCTGTGGGAGCACCAGACATCCATTGATAGTGACATGGCC
ACGCTCTGGCTGACAGAGGATGAGGCAAGCTCTACAGGTGGCAGGGAACCTGTGCGCCCTTGCCGGCACCTGCCA
GTCTCCACTGTGTCTGACTTGGAGTTGCTGAAGGGA CTCCGAGCACTTGGTGAGAATCCTCACCCCATCACACC
TTCACCAGGCAGTTGTACCACCAGCAGCTGGAAGAAGCCAGATTGCTCCTGGCCCAGAGTTTTCAGGGCACAGC
CTAGAACTGGCTGCAGCCCTGCGGACGGGCTGTATTCCAGATGTCCAGGCAGATGAAGACGCGCTGGCCAGCAG
TTTGAGCAGCCAGATCCTGCCAGGAGGTGGCGGGAGGGGGTCGTGAAGTCTAGCTTCACCTATCTGCTGCTGGAC
CCCAGGGAGACTCAGGACCTGCCAGCCCGAGCCTTCTCACTGACCCAGCTGAGCGCCTTCAGACTTTTCATCCGT
GCCATCTTCTACGTGGGCAAAGGGACGAGGGCCCGGCCATATGTCCACCTCTGGGAGGCCCTTGGTCACCATGGG
CGGTCAAGAAAACAGCCCCACCAGGCCTGCCCAAGGTGCGTCAGATCTTGGACATCTGGGCCAGTG GTTGCCT
GTTGTGTCCCTACATTGCTTCCAGCACGTGGTGCCTGTGGAGGCTTATACACGGGAGGCGTGTATTGTGGAAGCC
CTAGGGATCCAGACGCTACCAACCAGAAGCAAGGGCACTGCTATGGAGTGGTGGCAGGCTGGCCACCTGCTCGT
CGCCGGCGCTTGGGGGTGCACCTGCTGCACCGTGCCCTCCTTGCTTCTCCTGGCTGAAGGCGAGCGACAGCTTCAT
CCCCAGGACATCCAGGCCCGGGGCTGA

2856/5332
FIGURE 2501

AAAGGGCCGGCTGTTTCGGCGGCCGCGGGATGCCCCCTGCGCTGACCGCCAGGGGCAGGTGCCCGCCCGCGTAGAC
GCACCCGGCCTGACCCCGCGCCACCATGTAAACGGCGCCAGCAGGCGGACGCTGGCTTCTCCGCCTGGGACCCCT
CCGCCCCGACCCGGGCCCCGCGGCCCTCGATGAGGACACACCATGCTGACCGGGGTGACCGACGGTATCTTCTGT
TGCCTGTGGGCACGCCCCCAACGCCGTGGGGCCACTGGAGAGCGTCGAGTCCAGCGATGGCTACACCTTTGTA
GAGGTCAAGCCCGGCCGCGTGTGCGGGTGAAGCATGCAGGACCCGCCCCAGCCGCTGCCCCACCTCCACCATCA
TCCGCATCCTCGGATGCAGCCAGGGGGACCTCTCCGGCTTGGTCCGCTGTACGCGCCGGATCACCGTGTACCGC
AATGGGCGGTTGCTGGTGGAAAACCTGGGCCGAGCCCTCGAGCCGACCTCCTACACGGGCAGAATGGCTCTGGG
GAGCCGCCGGCCGCCCTGGAGGTGGAGCTGGCAGATCCGCGGGGCAGCGATGGCCGCTTGGCCCCCGCGAGCGCA
GGCAGCGGCAGCGGCAGTGGCAGTGGTGGGCGGGCGGGCGGAGCCAGGCGCCCCAAGAGGACCATCCATATTGAC
TGTGAGAAGCGCATCACTAGCTGCAAAGGCGCCAGGCGGACGTGGTGTCTTTTTCATCCATGGTGTGCGCGGT
TCCCTGGCCATCTGGAAGGAGCAGCTGGACTTCTTTGTGCGCCTAGGCTATGAGGTGGTGGCTCCTGACCTGGCC
GGCCACGGGGCCAGCTCTGCGCCCCAGGTGGCCGCAGCCTACACCTTCTATGCGCTGGCTGAGGACATGCGAGCA
ATCTTCAAGCGCTATGCCAAGAAGCGAAATGTGCTCATTGGCCATTCTACGGTGTCTCTTTCTGCACATTCTTG
GCACATGAGTACCCAGACCTAGTGCACAAGGTGATCATGATCAATGGCGGGGGCCCTACGGCGCTGGAGCCCAGC
TTCTGTCTAATCTTCAACATGCCCCACCTGCGTCTGCACCTGCTTGTGCGCCTGCCTGGCCTGGAGCTTCTCAAG
GCCGGCTTCGCCCCGCAAGGAGCCAAGGAGAAGCAGCTGTAAAGGAGGGCAACGCTTTCAACGTGTATCCTTC
GTACTCCGGGCCATGATGAGCGGCCAGTACTGGCCCCAGGGCGACGAGGTCTACCACGCCGAGCTCACCGTGCCC
GTCCTGCTTGTCCACGGCATGCACGATAAGTTTGTGCCGGTGGAGGAAGACCAGCGCATGGCCGAGATCCTGCTC
CTGGCATTCTGAAGCTCATCGACGAGGGCAGCCACATGGTGTATGCTGGAATGCCCTGAGACGGTCAACACGCTG
CTCCACGAATTCTGCTCTGGGAGCCCGAGCCCTCGCCCAAGGCTCTACCGGAGCCACTGCCGGCGCCTCCAGAA
GACAAGAAGTAGCCGCTGGGCCGGCGGGGCATCGCTTGGTGAGCACAGCCGCAGCAGGAGGAGGCCCCGAGCCTGC
GCCAGGTCTGCAGCGCAGACCACCTGGGCGGGCCGTTCGCTCCGGTGGGCGGGGCCAGGTGAGGAGACGCCCC
AGGCTGCCTGGGCGGGGCGTGGCATCCGAGGGAGCCAGCGGACATTCCGCTCTCCGCTTCCGTCCCGCGGGGCC
CATCGGCGTTTTGGGGCCGACGCCGGGACCCTCACGGAAGATGACCTTGTACAGAAGCTCTCCCTACCTTCCCC
CCAACGCCACGGCCAAGGCAGCCCCCCCCACCCGCTGTCTTCCGTGTACCGGTGCTTGATCCTGGGACCCACGA
GCCCCACAGGGACCTCGAGGCCCCATCCCGTTATCCGAGACCTTCCCTACCCCCATTCTCGGCGCTGGGAGC
TATTTTGGCCCAAGGGGGGGGATGGGGGGGCTGGCGCCACCGAACCTGCACATCTCAACTTGTAACCTCAATAAA
CAGAAGTGACAATCGG

2857/5332
FIGURE 2502

GCGGCTCTGGGCTCCGGAATCGCCCGCAGCCGGTACTGCGGGACCCACTGCGGATATGGCTGTCTTGGCTGGATC
CCTGTTGGGCCCCACGAGTAGGTCGGCAGCGTTGCTGGGTGGCAGGTGGCTCCAGCCCCGGGCTGGCTGGGGTT
CCCAGACGCCTGGGGCCTCCCCACCCCGCAGCAGGCCGGGGCAAGGCTCGCGGGAATGAGTATCAGCCGAGCAA
CATCAAACGCAAGAACAAGCACGGCTGGGTCCGGCGCTGAGCACGCCGGCCGGCGTGCAGGTCATCCTTCGCCG
AATGCTCAAGGGCCGCAAGTCGCTGAGCCATTGAGGATCGCGACGCAGTCGCGGGGACCCTCATGGAAGCATCGC
CCTCGCCTCGGACCTTGCTGGCGCTATTTTTGCAGGGAGCTGGGGAGCAGGAACGCCTCGGACCTGAGTGCTCT
CCATATTGTGGGGTTGAAGTCTGGATGGGAGCTTGCCAAGTCCCTTTTTAGGCTTTTTAATTAGGAAGCATTTCG
AACCTGCGCAACAGACCAAAGAACAGTACAAAGAACATCCGTGTACCCAGTACCCTGACTACCGACTACCTACAA
CCCGTCCCTGCCCCATCCTGAGTTCTTTGAAGCTGATCTCAGGCATCGGATTATTTCTTCTGTAAATATTTAG
AATGTATCTCTCCAAGATGAGAGCTATTAAAAGACAATTACAAAGCTTATCACATCCAAAAGAATTATCAATAA
TTTTGAAATATTATTAAACGTGTAATAAATGTTCAAAGTTCCACTTGC

2858/5332
FIGURE 2503

GGGAGGTGGTGGCGCCATCAGTGTGGGCTGTGCCGTGGCTGGAAGTTACTGTGAGGCGGCGGCTAAGAAGGCGGC
TCTGGTGGCGGCGGTGGAGGCTGAGGCGGCGGCCGAGGCGGCGACGGAGGAAACAGAAGATGGCAGATTTTTTGA
AAGGACTGCCTGTCTACAACAAAAGCAATTTTAGTCGATTTCACGCGGACTCCGTGTGCAAAGCCTCGAACCGAC
GGCCCTCAGTCTACCTGCCTACCCGCGAGTACCCGTCTGAACAGATCATCGTGACAGAAAAGACAAACATCCTCC
TGCGCTACCTGCATCAGCAATGGGACAAAAAGAACGCTGCCAAGAAGAGAGACCAGGAGCAAGTGGAGCTGGAAG
GCGAGAGCTCCGCACCTCCCCGCAAGGTGGCGCGGACCGACAGCCCAGACATGCACGAGGACACTTAAGACTCTC
AACTCCACAGGCGCCTCCTGCCAGGTCTGCTCCTCGGTGCGCCACCCGCCTGCCCGCCATGTGTAAGCACCCCGC
CCGCCCGCCTCCCTGCCGGGCCATCCACACCCTGCGTCCACACCACTTCCAACCTCATAGGAGCCGATGTATTTA
TTTTCTTGAGTTTTTATTTATGCTGTAACTGTATCAAGCGTTGGTTAAAGGGGACATCAGACCCAGTAGTGTG
ATGTTGGTAGATGCTTTTTAAAAAAAACAACATTGTCCCCCGACCCCGCCTTCCATCGGGCCAGTTCCCGAT
TCCTGCCCCCAGTTCTCCAGAGAACCAGAGTGTGTCTGTGAGAGTCTCTAGCGGGGGCTTTACTGTGGCCGGGGC
ACAGGGGCGGGCCCGGGTGGCCTGACCTACCAGGACAGCCGAGTGGCCTTCTCCCCCAACACCGGTCCAGGC
CATTGAGACTCGGTCTTGTCCACGCTTCGCCCGGAACCTTCCCATGCCAGGCCTCACTCAGCGTGCACGCACG
TTGGGGAGAAGTCGGCCCTTGGGATCTTTCTCTTGAGTCATTTTATTTTATCATGGACTAGTGCGTGCTCCGTG
TCCACCCCAATAAAAGGGTCTTTCCTA

2859/5332
FIGURE 2504A

GTGAAAACCAGCCTCTAGATGACATCTGTGATTACTTTGGTGTGAAAAATTGCCATGTACTTCGCCTGGCTGGGGCT
TCTACACGTCGGCTATGGTATACCCAGCTGTCTTCGGGTCTGTCTGTACACATTACAGAGGCTGATCAGACAA
GCCGGGATGTTTCCCTGCGTGGTCTTTGCCCTCTTCAACGTGATCTGGTCGACGCTGTTCTAGAGGAATGGAAGC
GGAGAGGGGCTGAGCTGGCATATAAGTGGGGGACGCTGGACTCACCTGGGGAAGCCGTGGAGGAGCCACGCCCC
AGTTTCAGGGGCGTGCACGTATCAGCCCCATCACGCGGGCCGAGGAGTTCTACTACCCGCCCTGGAAGCGGCTGC
TCTTCCAGCTGCTTGTGAGCCTCCCCCTGTGCCTGGCGTGCCTCGTCTGTGTCTTCTTGCTCATGCTTGGCTGCT
TCCAGCTGCAGGAGCTGGTGTGAGCGTGAAGGGGTTGCCCGTCTCGCCCGATTCTCGCTAAGGTCATGCTGG
CCCTGCTTGTACGTGTGAGTGCCGAGGGCTACAAGAAGCTAGCCATCTGGCTCAATGACATGGAAAATTACCGGC
TGGAGAGCGCCTATGAGAAGCACCTCATCATCAAAGTTGTCTGTTCCAGTTTGTCAACTCGTACCTGAGCCTCT
TCTACATCGGTTTCTACCTCAAGGACATGGAGCGCTTGAAAGAGCTCCTGCTCGTCTGTCCCTGTCCCAGAGCC
TCGAGCGGCAGCTGCAGGCGGTGCTGGTCCCCTCGCGGCCCTGCGGTTCCGCTGTCTCTCTCTCCCTCCGGG
GCCTCCTGCTCGCGCCCCGGGCCAAAATGCTGGCCACGCTGCTGATCACCCGCCAGTTCTCCAGAACGTGCGCG
AGGTCCTGACCGCGCCTGTACCGCGCCTGGGCGCGCGGAGCTGGGCTGCGGGCCGTCTGGGAGCTGGCCC
GAGCCCTGCTTGGCCTCCTGAGCCTCCGCGGCCCTGCGCCCGCGCCTCGAACCCAGGCGGATGAGGCGGGG
GCGGCGGCAGCGGGGGCGGGGGCCGCAGGTGCCTCAGCGGGGGCTGCGGGGCGCCGAGGAGGAGGAGCGG
CGCTGGTGGAGCGCGCGCGGGCGGGGGAAGGCGGGGAGGAGGGGACGCGCCTCCAGGGGGCAAGGAGGAGGACG
AGGACGACGAGGAGGAGGAGGAGGACGAGGAGGAAGAGGAGGACGAGGAGGAGGGCGAGGAAGGGGGCCTCTGGACT
GCGGGCTCCGGCTGAAGAAGGTACGCTTCGCTGAGCGCGCGCGGGGCGCGCTCGGCCCGGCCAAGCCCGAGG
CCCTCCTGGAGGAAGGGAGCCCCACTATGGTGGAGAAGGGGTGGAGCCGGGAGTGTTCACCTGGCCGAGGAGG
ACGACGAGGCGGAGGGGGCTCCCGGCAGCCCTGAACGGGAGCCCCCGGCCATCTTGTTCGCGGGGCGGGGGCG
AGGGCCGAGACCAGGGGGCCGACGGGGGCCCGGACCCGGAACCCGGCTCCAACAGCGATTTCGACCCGTAGGCAGA
GACGGCAGAACCCTGCTCTTGGATTGACCCGCCGGAGGAGGAACACTCGCCCCAGCTCACCCAGGCAGAGCTGG
AGAGCTGTATGAAGAAGTACGAGGACAGTTCAGGACTACCAGGAGATGTTCTGTCAGTTTCGGCTACGTTGTGC
TCTTCTCGTCCGCCCTTCCCCCTGGCGCGCTGTGCGCCCTGGTCAACAACCTCATTGAGATCCGCAGCGACGCCCT
TCAAGCTGTGACCGGGCTGCAGCGGCCCTTCGGCCAGCGCTGGAAAGCATCGGCCAGTGGCAGAAGGTGATGG
AGGCCATGGGTGTCTAGCGATTGTGGTCAACTGCTACTTAATCGGCCAGTGCGGGCAGCTGCAGCGCCTCTTCC
CCTGGCTGAGCCCGGAGGCAGCCATCGTGTGGTGGTAGTGCTCGAGCACTTCGCTCTGCTCCTCAAGTACCTCA
TCCACGTGGCCATCCCCGATATCCCGGGCTGGGTGGCCGAGGAAATGGCCAAGCTGGAGTACCAGCGCCGCGAGG
CCTTTAAGAGACACGACGCGCCAGGCCAGCATCGCTACCAGCAGCAGCAGCGCAGGCGGGGAGGAGGAGGAGC
GACAGCGCATGCAGAGACCATGCCCGCGCGGAGCATGATTCTGGTGGCCGAGAGGAGGCGAGGGCCGAGGGCT
CTGGGCTGGACCTTCCACCTCCTCCGAGAAGGCCTTGCCAAGGCCAAGGGCAGCACTGCGGGTGGCCACGGGC
CTGAACGGCCCAAGCGCCAGGGTCCCTGCTGGCACCCAACACGTATGAAGTTGAAGCAGATCATCCCACTGC
AGGGCAAATTCTCTCGTCAGGGGCCACATCCTCACTGGCTGCTGCAGGGGCCGAGCCACCACCCGGCTCCCC
CTGCCAGTCACCCACAGGCAGCGACACCCGCTGCCTGCCTTCCCTCAGCTTCAAGTTTCTCAAGTCACCCGAGA
CCCGGCGGGACTCTGAGCGCAGCCACTCACCGCCCAAAGCCTTCCATGCTGGCAAGCTCTTCCCCTTTGGTGGCA
CCCGGGCTGAGCCTGGGTCCAACGGGGCGGGCGGGCAGGCCCGGCCAGATGGGACCCCCAGCAGTGGCAGCAGCC
GGGTTAGAGGAGTGGGCCGGTGGACGAGGCCCTGGCTGAGGAGCTGGAAGCCCCCGGCCGAAGAGGAAGGCT
CAGGTCACAAGCTTTAACTCGGGGTGGGGACGCCGGGCCGCTTTGGGGATAGGGTAGGGTGGCCAGGCCTGGG
GAGAGGGGCTGAAGGGGACAGGGGAAGCCCGGTCTTAGTCTGCTGGTGGGGACCTGGGTACGTGGTACGTGGAGCC
TCTCAGTTAAAGCCTGCTTAGTATCTCCAGGGCCTTTGTTAGCCTGGAGCCCCGTGCCTGACCCTCCCAGGGAG
GGATGCCAAAGCCCCCTTGTCCCAGGACTGCACCCAGGGACCCCCACCATGCTCCGGTGCCAGGAGAGATGAGGGA
GGCCTGTTTCCCAACCAGCCACCCCTTCTCTGCTCCAGCTCACTCTTGGGGGGGACTTGACCCCCCAGGCCTCT
ATGCAAATCCACACCCTGCAGCCAGCTGTTTCAGGAAGGCCTTCTCGAGGTGGGGCTGGGGCTGCCACCCAGG
GAGTCCCACATGTGCTGAGCAGAGGTGCAGGCCTACCCCTACCCCTCCACCCCCACCACTCCCCTGCCCCAA
TCCAGCCTGGGCTCCAGCAACCCCATTCAGGGAGCCCAACAGGTGGCAGCTGCAGCACAAGGGCCATAGGTC
AGAAGCCAGAGGACTTCTCAAACCTGTCTCCCTGTGACCGGCAGGGCCGTGCCAGAGGCAGGGTATGCAC
CGGAAGCCGCCCAGGGGGCGCCCCACCTCAGTCTCTGATCAGAAGCAATAAGGCCTTTATGTGCTGGATGCCC
GGGAGGGAGCGCGGGCAGGGTTGCCAGCCCGCGGGTCCGCGGGGGCGGCATCCCCCGGAACGGCCCCCTCTC

2860/5332
FIGURE 2504B

GCCTCCGCAGGGACAGCGCTGGCCCCCGTGGGCGCCCCTGCCCTCCGCACCCGCCGCAGCCGGAGCCCCGCGCCG
CCGCCGCCAATGCCGCTGCCCCGGCCCCCGACACCGCCCGCAGGCTGCTGGCAGTGGGACGGGCCCTGGGGCTGC
GGGGGCGAGGGTGCCGCCCCCGCCAGGCCCTGGCCGCTGCCGAGTGCCACCCTGTGCCATGGCCGGGCCCCCA
CCCGCCCCCAGCCCCTGCCGGGAGACGCCAGCTTTTACAGCCTCCCGCCCCCACCCTACCGCCACCTCGGAT
CCCCTCGAGACCCAGCGCCCTCCCCTAGCCCCAGCCCCAGCCCCAGGCCGTGTGCTGGCCCAGCGGCTGGCAT
TAGCTCTACCCGCCCTGCCTTCTCTTCTCATATGCAATATCAGTCATTACAGGGGCGCCGGTCTCCAAAATGC
AAAATGCGCTTCAGCCCCCGAGGGCCCCCAGTATTGGTTCGGTGCCCCCATCTGCCGTTTTCTTTCCAAACGAA
AGGAAACCCACAAATCCAACAGAAAACACACACACACACACACACACAGAACAGGCGATTATTTA
TTTGTTTTTAATTTATTTTGTTCATATTTTGTAAACGGCAGAAATGCAATAAAAACTATATTTCAACAGTG

2861/5332
FIGURE 2505

GCCCAGACTTGAAGCCACACAGGCAGGTCGGGCAGGCGGGTCGCAGGTTGTAAATCCATGTGGCGGGGGCTTTGG
ACCCTGGCGGGCCCAAGCGGCACGTGGGCCTCGCAGATTGTGCACGCGCCGGAGCAGCGGCGCACCAGCCCCGGC
TCCGGCGCCACCATCTTCGCGCTAAGCTCTGGCCAAGGCGGCTGCGGCATCGCAGTGATCCGGACCAGCGGCCCC
GCCAGCGGCCACGCCCTCCGAATTCTCACAGCACCCCGAGACCTGCCCTTGCTCGCCACGCCAGCCTGCGCCTG
CTCAGCGATCCCCGCTCCGGGGAGCCTCTGGACCGCGCACTGGTGCTCTGGTTCCAGGTCCCCAGAGTTTCACC
GGTGAGGACTGCGTGGAGTTCACGTGCATGGAGGCCCGGCAGTGGTGAGCGGCGTCTGCAGGCCTTGGGCAGC
GTGCCAGGGCTTCGACCGCGGAGGCAGGCGAGTTACACAGACGGGCGTTTCGCCAATGGGAAGCTGAACCTGACC
GAAGTGGAGGGGCTGGCGGACCTTATCCACGCGGAAACAGAGGCGCAGCGGCGGAGGCCCTCAGGCAGCTGGAC
GGAGAGCTGGGGCACCTCTGCCGTGGCTGGGCGGAGACCCTCACCAAAGCTCTGGCCACGTGGAGGCCTATATC
GATTCGCGGAGGATGACAACCTGGAGGAGGGGGTCTTGAGCAAGGTGGGTCTACCTGGTGGTGGGGGAGGAAG
ACACCTCATATCAGCCCTCAAAGGCTCCCCCTACTGTCTCTCTCTGCTGCTTCTCTCACCCACAGCCGACATC
GAAGTACGGGCAGTCAGGTGGCCCTGGGTGCACATCTACGAGATGCCAGGCGCGGGCAGAGGCTCCGCTCAGGG
GTGCACGTAGTGGTCACTGGACCCCCCAATGCGGGCAAGAGCAGCCTAGTGAACCTGCTCAGTCGGAAGCCTGTG
TCCATCGTGTCCCCGGAGCCAGGGACCACCCGTGACGTGCTGGAGACCCAGTCGACCTGGCCGGATTTCCTGTG
CTGCTGAGCGACACGGCTGGGTGCGGGAGGGCGTGGGGCCCGTGGAGCAGGAGGGCGTGGCGCGCGCCGGGAG
AGGCTAGAGCAGGCTGACCTCATTCTGGCCATGCTGGATGCTTCTGACCTGGCCTCTCCCTCCAGTTGCAACTTC
CTGGCCACCGTCGTAGCCTCTGTGGGAGCCAGAGCCCCAGTGACAGCAGCCAGCGCCTCCTCCTGGTGTGAAC
AAGTCGGACCTGCTGTCCCCGGAGGGCCAGGTCCCGGTCTGACCTGCCCCCGCACCTGCTGCTGTCTGTCTG
ACGGGAGAGGGGCTGGACGGCCTCCTGGAGGCGCTGAGGAAGGAGCTAGCTGCAGTGTGTGGGGACCCGTCCACA
GATCCCCGCTGCTGACCCGAGCAAGGCACCAGCACCACCTCCAGGGTTGCCTGGATGCCCTCGGCCACTACAAG
CAGTCAAAGACCTGGCCCTGGCGGCAGAGGCGCTGCGGGTGGCCCGGGTCACTGACCCGGCTCACAGGTGGA
GGGGGTACCGAGGAGATCCTGGACATCATCTTCCAGGACTTCTGTGTGGGCAAGTGACCGGGATCCAGGGAAGTCG
CACCCAAGCTGCGTGGAGACCCAGGAGCCTCGGGGGATCTGGAAACAGTTTAGGCCAATTGGGATTCTCATTTCG
CTGGGAAAGAACTTGATTCTCAAATAGTGAAGCAACACAGCTGAGAGGTAGTGAGATCCCTGCAGGGACTCCCTG
GAGATTAGGCCCTGGAATGGGGCTGAATGGAGGTCCCGTTCGACCCTTGATGCTGGGGCATCCGGGTGGGATG
GAGATAGGAGGATCTCAGTATATTTGTTTCGTAGTTTTTTATTTATTTTGCAAATACCAAAGGAATGTAAAAAA
ACTCAGGTGATCTAGAAGTGTATTTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT
TCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT
TGGCTCACTGCAACCTCCATCTCCGGGGCTCAAGCGCTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG
GCATGTGCCAGCATGCCCGGCTAATTTTTTCTTTTTTTGAGACAGAGTCTCGCTCTGTCAACCAGGCTGGAGTT
CAGTGGTGCACCTCGGCTTACTGCAACCTCCACCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCTTGAGT
AGCTGGGACTACAGGCGCACACCACCGCCAGGCTAATTTTTGTATTTTGTAGTAGAGACAAGGTTTACCATGT
TGACCAGGCTGGTCTTGAACCTCTTGACCTCAGGTAATCTGCCTACCTTGGCCTCCCAAAGTGCTGGGATCACAG
GCGTGAGCTATCACACCTGGCCCCAGAAGTGTTCACATGGAAATTTTCTTAGCCCTTCTGTGGTTGTATGG
CTTAATGTGTCTTTCCAGAACTTTGAATGTTGCATACCTTGTGGATGTACCTTTCAAATATGTTTGTCTTGTG
TATCATATATAAATGGTATTGTGTT

2862/5332
FIGURE 2506

GGTGAGCAGGGACGGTGCACCGGACGGCGGGATCGAGCAAATGGGTCTGGCCATGGAGCACGGAGGGTCCTACGC
TCGGGCGGGGGGAGCTCTCGGGGCTGCTGGTATTACCTGCGCTACTTCTTCCTCTTCGCTCTCCCTCATCCAATT
CCTCATCATCTCTGGGGCTCGTGCTCTTCATGGTCTATGGCAACGTGCACGTGAGCACAGAGTCCAACCTGCAGGC
CACCAGCGCCGAGCCGAGGGCCTATACAGTCAGCTCCTAGGGCTCACGGCCTCCAGTCCAACCTTGACCAAGGA
GCTCAACTTCACCACCCGCGCCAAGGATGCCATCATGCAGATGTGGCTGAATGCTCGCCGCGACCTGGACCGCAT
CAATGCCAGCTTCCGCCAGTGCCAGGGTGACCGGGTCATCTACACGAACAATCAGAGGTACATGGCTGCCATCAT
CTTGAGTGAAGAAGCAATGCAGAGATCAATTCAGGACATGAACAAGAGCTGCGATGCCTTGCTCTTCATGCTGAA
TCAGAAGGTGAAGACGCTGGAGGTGGAGATAGCCAAGGAGAAGACCATTTCACATAAGGATAAGGAAAGCGTGCT
GCTGAACAAACGCGTGGCGGAGGAACAGCTGGTTGAATGCGTGAACCCGGGAGCTGCAGCACCAAGAGCGCCA
GCTGGCCAAGGAGCAACTGCAAAAGGTGCAAGCCCTCTGCCTGCCCTGGACAAGGACAAGTTTGAGATGGACCT
TCGTAACCTGTGGAGGGACTCCATTATCCCACGCAGCCTGGACAACCTGGGTTACAACCTCTACCATCCCCTGGG
CTCGGAATTGGCCTCCATCCGCAGAGCCTGGCACCACATGCCAGCCTCATGAGCTCCAAGGTGGAGGAGCTGGC
CCGGAGCCTCCGGGCGGATATCGAACGCGTGGCCCGCGAGAAGCTCAGACCTCCAACGCCAGAAGCTGGAAGCCCA
GCAGGGCCTGCGGGCCAGTCAGGAGGCGAAACAGAAGGTGGAGAAGGAGGCTCAGGCCCGGGAGGCCAAGCTCCA
AGCTGAATGCTCCCGGCAGACCCAGCTAGCGCTGGAGGAGAAGGCGGTGCTGCGGAAGGAACGAGACAACCTGGC
CAAGGAGCTGGAAGAGAAGAAGAGGGAGGCGGAGCAGCTCAGGATGGAGCTGGCCATCAGAACTCAGCCCTGGA
CACCTGCATCAAGACCAAGTCGCAGCCGATGATGCCAGTGTCAAGGCCCATGGGCCCTGTCCCAACCCCCAGCC
CATCGACCCAGCTAGCCTGGAGGAGTTCAAGAGGAAGATCCTGGAGTCCCAGAGGCCCCCTGCAGGCATCCCTGT
AGCCCCATCCAGTGGCTGAGGAGGCTCCAGGCCTGAGGACCAAGGGATGGCCGACTCGGCGGTTTGCGGAGGAT
GCAGGGATATGCTCACAGCGCCCGACACAACCCCTCCCGCCGCCCCAACCCAGGGCCACCATCAGACAAC
TCCCTGCATGCAAACCCCTAGTACCCTCTCACACCCGACCCGCGCCTCACGATCCCTACCCAGAGCACACGGC
CGCGGAGATGACGTCACGCAAGCAACGGCGCTGACGTCACATATACCGTGCTGATGGCGTCACGTGGCCATGTA
GACGTCACGAAGAGATATAGCGATGGCGTCTGTCAGATGCAGCACGTCGCACACAGACATGGGGAAGTTGGCATG
ACGTCACACCGAGATGCAGCAACGACGTCACGGGCCATGTCGACGTCACACATATTAATGTCACACAGACGCGGC
GATGGCATCACACAGACGGTGATGATGTACACACAGACACAGTGACAACACACACCATGACAACGACACCTATA
GATATGGACCAACATCATATGCACGCATGCCCTTTCACACACACTTCTACCCAATTCTCACCTAGTGTACGT
TCCCCGACCCCTGGCACACGGGCCAAGGTACCCACAGGATCCCATCCCCCTCCCGCACAGCCCTGGGCCCCAGCAC
CTCCCCTCCTCCAGCCTCCTGGCCTCCAGCCACTTCTCACCCCCAGTGCTGGACCCGGAGGTGAGAACAGGA
AGCCATTACCTCCGCTCCTTGAGCGTGAGTGTTCAGGACCCCTCGGGGCCCTGAGCCGGGGGTGAGGGTCA
CCTGTTGTCGGGAGGGGAGCCACTCTTCTCCCCAACTCCAGCCCTGCCTGTGGCCCGTTGAAATGTTGGTGG
CACTTAATAAATATTAGTAAATCCTT

2863/5332
FIGURE 2507

ATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTTCTGCTGGGG
ATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAGGCCAACAGC
GAGGCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTGCAATGTCACCCATCTCCTGCAACAAGAGCTGACC
GAGGCCCAGAAGGGCTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCCCTAATGGCT
TCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACATTAAACCAT
AAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGAATCGCGGAC
AAGAAGTACTACCCAGCTCCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTGCTGGGCCTC
AGCGCTCTGCTGCAGTGAGATCCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCTGCTCGGCTTTTCGCTTGAA
CATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGGGTAGCCGGA
GAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGAAGTCTGGGTGTGGGGACACAGTCGGGTGACCCAGG
GCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCCTGAGATTGGGCATGGGG
TGCGGTGTGGGGGGCATGTGCTGCCGTGTTGTTATGGGTTTTTTTTGCGGGGGGGTTGCTTTTTTCTGGGGTCTT
TGAGCTCCAAAAATAAACACTTCCTTTGAGGGAGAGC

2864/5332
FIGURE 2508

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTGGTTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATCGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCTGGTCTGTCGGCCTCTGCACCCCCGCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCGCTCTGCGACCCCATGGATTCCAAGGCCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGTATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCCTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCTTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGTGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA
TAAACTACTACCCGTTCTCGCC

2865/5332
FIGURE 2509

GCCGGAGTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCCCGAGGGCAT
CTTGGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCTCTACTGCCCCCTTGGCACAGATCCCCAGCAA
GGGCATGGACGATCGTCTTTTCTACATCTACACGTCGGGGACCACCGGGCTGCCCAAGGCTGCCATTGTCTGTGCA
CAGCAGGTACTACCGCATGGCAGCCTTCGGCCACCACGCCTACCGCATGCAGGCGGGCTGACGTGCTCTATGACTG
CCTGCCCCCTGTACCACTCGGCAGGAAACATCATCGGCGTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCT
CCGCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAACCTGTACCTGGCACGGCCCCATCCTG
GACTGAGAAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCTTGGTGCCCTGTGTCTGCCTCCTCTCCC
TGCTTTTCAGCCTCTGTCTCCTTCCATCCCTGTCCCTGTCTGGCCTTAACTCTTCCCTCTTTTCTTTTCTTTCT
TTCTTTCTTTTTTTTTTAAGATAGAGTCTCACTCTGCTGCCCGGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
TGCAACCTCTGCCTCCTGGGGTTCAAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
CCACCACGTCCAGCTAATTTTTATATTTTTAGTAGAGACGGGGTTTACCATGTTGGTCAGGTTGGTCTTGAAC
CCTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGCTGGGATTATAGGCGTGAGCCTCTGGCCCCGGCCT
TTCTTTTTCTCTCCTCTCCTGCCGAGAGTGGAACACGCGTGTCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCCTCTCGGC
TGTGCCTTACGGAGCCCCGATCCAGGCCTCCTGTGGCTGTTGGGTCCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCCTGCTGAATGGAGGAGCCGGGGGTCCCCAGGCCAACTGGAAAACTCCCAGGCTA
GGCCAATTGCCTTTTGCACTTCCCCGTTCTGTACATTTCCCCAGCCCCACCTTCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACCTGGATGTACCACTGTGAGCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGGCCCTGAACCTGCACTGCGTGGCTGCCCAGCCAGCTGCCTCCTGTCTGGGAG
GAGGCCTCCTGGGTGTCTCATCTGGTGTGTCTACTGGAGGGTCCACAGGAGAGGCAGCAGAGGGGTGAGGGGA
GGTCTCCTGCCGGGGGTGGCCTCTCAAGCCTCAGGGGTCTAGCCTGTTGAATATACCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTGGTGGCGATGTCCAGACAATCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAACATCCACGCCAGCCTTTCTGGGGCCGGCCACCCAGGCC
GCCTGTCCGTCTGTCTCCTCCAGCAGACCCCCCTGGCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACCTTCTGGGCAGTGTGGTTTTATTTCTAATTGATTTAAGAAATAAACCTGAAGACCGT

2866/5332
FIGURE 2510

CCGCCGCCGCCCTCGCCATGGCCGCGCCGGCCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCAGGAGCTGGGTG
CGGCGCTAGCGCAGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGCCCGCGCCCGTTTCGCGCTCGGCC
TGTCGGGCGGGAGCCTCGTCTCGATGCTAGCCCGCGAGCTACCCGCCGCCGTCGCCCCCTGCCGGGCCAGCTAGCT
TAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCACGTACGGCCTCT
ACCGGACGCATCTTCTCTCCAGACTGCCGATCCCAGAAAGCCAGGTGATCACCATTAAACCCCGAGCTGCCTGTGG
AGGAGGCGGCTGAGGACTACGCCAAGAAGCTGAGACAGGCATTCCAAGGGGACTCCATCCCGGTTTTCGACCTGC
TGATCCTGGGGGTGGGCCCCGATGGTCACACCTGCTCACTCTTCCCAGACCACCCCTCCTACAGGAGCGGGAGA
AGATTGTGGCTCCCATCAGTGACTCCCCGAAGCCACCGCCACAGCGTGTGACCTCACACTACCTGTCCTGAATG
CAGCACGAAGTGTATCTTTGTGGCAACTGGAGAAGGCAAGGCAGCTGTTCTGAAGCGCATTTTGGAGGACCAGG
AGGAAAACCCGCTGCCCCGCCGCCCTGGTCCAGCCCCACACGGGAAACTGTGCTGGTTCTTGGACGAGGCGGCCG
CCCGCCTCCTGACCGTGCCCTTCGAGAAGCATTCCACTTTGTAGCTGGCCAGAGGGACGCCGAGCTGGGACCAG
GCACGCGGCCCATGGGGCTGGGCCCCCTGCTGGCCGCCACTCTCCGGGCTCTCCTTTCAAAAAGCCACGTCGTGCT
GCTGCTGGAAGCCAACAGCCTCCGGCCAGCAGCCCTACCCGGGGCTCAACACACAGGCTGTGGCTCTGGACATCC
GGATATTAAAAGGAGCGTTGCTGG

2867/5332
FIGURE 2511

CCCCTTTAAGGCGCGGCCAGAGTCCTCCCGCAGAAAAACGACTTAAAGGAGACGCGTGGCGCGATGCGCGCGGCC
CCACGCGCGGGCCGGCGCGCGGCCAGCCGCTCCTGGCGCTGCTGCTTCTGCTGCTGGCGCCACTGCCGCCGGGG
GCCCCGCGGGCGCCGACGCCTACTTCCCCGAGGAGCGCTGGAGCCCCGAGTCGCCCCCTGCAGGCGCCGCGCGTG
CTCATCGCGCTGTTGGCGCGAAACGCGGCCACGCGTTGCCACCACGCTGGGCGCACTCGAGCGGCTGCGGCAC
CCGCGGGAGCGCACGGCGCTATGGGTGGCTACGGACCACAACATGGATAACACGTCAACTGTGCTGCGGGAGTGG
CTGGTGGCCGCTGAAGAGTTTGTACCATTCCGTGGAGTGGCGGCCAGCAGAGGAGCCAGGTCTACCCGGACGAG
GAAGGCCCCGAAACACTGGTCTGACTCACGCTACGAGCATGTCTGAAGTTGCGCCAGGCAGCCCTGAAATCAGCT
CGAGACATGTGGGCTGATTACATCCTGTTTGTAGATGCGGACAACCTGATCCTCAACCCTGACACACTGAGCCTG
CTCATCGCTGAGAACAAGACGGTGGTCGCCCCCATGCTGGATTCCCGGGCTGCGTACTCCAACCTTCTGGTGTGGA
ATGACTTCCCAGGGCTACTACAAGCGCACACCTGCCTACATCCCTATCCGCAAGCGAGACCGCCGGGGCTGCTTT
GCAGTTCCCATGGTGCACCTCGACCTTCTGATCGACCTGCGGAAGGCGGCGTCCAGGAACCTGGCCTTCTACCCA
CCTCACCTGACTACACCTGGTCCTTTGACGACATCATCGTCTTTCCTTCTCTGCAAGCAGGCAGAGGTTGAG
ATGTATGTGTGCAACAAGGAGGAGTACGGATTCTTGCCAGTGCCATTGCGCGCCACAGCACCTCCAGGATGAG
GCCGAGAGCTTCATGCATGTGCAGCTGGAGGTCTGTTGAAGCACCCGCCGAGAGCCCTCCCGCTTCATCTCG
GCTCCACCAAGACACCGGACAAGATGGGCTTCGACGAGGTCTTCATGATCAACCTGAGGCGCGCGCAGGACCGG
CGGGAGCGCATGCTGCGGGCGCTGCAGGCACAGGAGATCGAGTGCCGGCTGGTGGAGGCCGTGGACGGCAAAGCC
ATGAACACCAGCCAGGTGGAGGCGCTGGGGATCCAGATGCTGCCTGGCTACCGGGACCCCTACCACGGCCGGCCC
CTCACCAAGGGTGAGCTGGGCTGCTTCTGAGCCACTACAACATCTGGAAGGAGGTGGTGGACCGGGGGCTGCAG
AAATCGCTTGTTTGTAGGATGACCTGCGTTTTGAGATCTTCTTCAAGAGACGTCTGATGAACCTCATGCGGGAT
GTGGAGCGGGAGGGCCTGGACTGGGACCTCATCTATGTGGGCCGGAAGCGGATGCAGGTGGAGCACCCCGAGAAG
GCTGTGCCTCGCGTGAGGAACCTGGTGGAGGCCGACTATTCTTACTGGACAGTGCTGCCCGGGATGAACTCTGAG
GGGTAGCAGCCAGAAAGCCAAAGCAGCCATCGGTGCCCCAGGCTCCACGTGCTTACTGAGGACATCAGGTCCACC
TCTGGACCCCTTGGCAGGCCACAGAGGGCTCTCGTGTGGGGTGGTGTCCAGCCA

2868/5332
FIGURE 2512A

AGACCATCAGTAATGTGCTCCTCCAGTATGCAGACATCATCTCCAAGGACTTTGCCTCCTACTGCTCCAAGGAGA
AGGAGAAAGTGCCCTGCATTCTCATGAATAACACTCAACAGCTACGAGTTCAGCTGGAGAAGATGTTGGAAGCCA
TGGGAGGAAAGGAGCTGGATGCTGAAGCCAGTGACATCCTGAAGGAGCTTCAGGTGAAACTCAATAACGCTCTTGG
ATGAGCTCAGCCGGGTGTTTGTACCAGCTTCCAGCCGCACATTGAAGAGTGTGTCAAACAGATGGGTGACATCC
TTAGCCAGGTAAAGGGCACAGGCAATGTGCCAGCCAGTGCCCTGCAGCAGCGTGGCCAGGACGCGGACAATGTGT
TGCAGCCCATCATGGACCTGTGGACAGCAACCTGACCCTCTTTGCCAAAATCTGTGAGAAGACTGTGCTGAAGC
GAGTGTGAAGGAGCTGTGGAAGCTGGTTATGAACACCATGGAGAAAACCATCGTCCTGCCGCCCTCACTGACC
AGACGGTGAGAGGGAACCTTTGAGAAAACATGGCAAGGGATTAGAAAAGGCGAGGGTGAAATTGCCAAGCCACT
CAGACGGAACCCAGATGATCTTCAATGCAGCCAAGGAGCTGGGTGAGCTGTCCAAACTCAAGGATCATATGGTAC
GAGAAGAAGCCAAGAGCTTGACCCCAAAGCAGTGCCGCGTTGTTGAGTTGGCCCTGGACACCATCAAGCAATATT
TCCACGCGGGTGGCGTGGGCCTCAAGAAGACCTTCTGGAGAAGAGCCCGGACCTGCAATCCTTGCGCTATGCC
TGTCGCTCTACACGCAGGCCACCGACCTGCTAATCAAGACCTTTGTACAGACGCAATCGGCCAGGGCTTGGGTG
TAGAAGACCCTGTGGGTGAAGTCTCTGTCCATGTTGAGCTGTTCACTCATCCAGGAAGTGGGGAACACAAGGTCA
CAGTGAAAGTGGTGGCTGCCAATGACCTCAAGTGGCAGACTTCTGGCATCTTCCGGCCGTTTATCGAGGTCAACA
TCATTGGGCCCCAGCTCAGCGACAAGAACGCAAGTTTGGCAGCAATCCAAGAACAATAGCTGGGCTCCCAAGT
ACAATGAGAGCTTCCAGTTACGCTGAGCGCCGACGCGGCTCCCGAGTGTATGAGCTGAGGTGCGCTCAAGG
ACTACTGCTTCGCGCGCGAGGACCGCACGGTGGGGCTGGCCGTGTGAGCTGCGTGAGCTGGCCAGCGCGGGA
GCGCCGCTGTGGCTGCCGCTCGGCCGCCGCATCCACATGGACGACACGGGCTCACGGTGTGCGAATCCTCT
CGCAGCGCAGCAACGACGAGGTGGCCAAGGAGTTCGTGAAGCTCAAGTCGGACACGCGCTCCGCCAGGAGGGCG
GTGCCGCGCTGCGCTTAGCGCGGGCGGTGCGCCGAGCGGCACTGCGCTGCGCGGAGGGCGCTGGCGGGGAG
GGACGGGGCTTGGCCTTGGTGGGACCTCCCCAGGGGCGGGCTCGGGGGGCTCCACGCCAAGGGTGGGCTGCGC
CTACGCCCTTGACTCAGCTTCCCTTTTGGGAATTAGGAATGGAGGATGCCCCGCCCTCTCGGGAGGCCACGCC
CAAGGGCGCGACGAAGGAAGGAGCCACATCCCCAACTTGAGGCCACGCCCCAGCACCTAGGGGGCATTTTGAGC
TGGGATGGGGGAAACCTCGTCCCTATGGAGGAGGCCACATCCCGGGGCTCTGTTACCGGGAGGCACCACTCATG
TCCCTTGGAAAAGCCATAAGATGGGACCCAGACCCCTGGGACCCAGACCAATTGCCAAGTATGGAATCTCAGC
TCCCTCGAGGGGGGGCCCTGGGCAAGGGGTAGGGCTCTCTGGAGCGCCCCCTTAGGTGGCCTGGGGACTGGAGGG
ACCAGGATGCTGGTTGGAGGGCCCCGGAATACCGGAGTCCCTTTAGATATTTGTGCAAAAAATAAATGGGGGGAG
GGGGGAGGATGGGATTTCAAAGCACATGCGCCCTTGGGCGCCCAAACCTGGGGGCGGAGGGGACGGCTCTGGT
TCCCCACGCTGCCCCCTACTTCCCTTTGGGAGTTTGCTCTCCCTCTCCCCCAACAAACCCAGTCCCTCATATCATA
GAGTTCAACACACCCATTGACAGATGGCAAACTGAGGCTTAAAGAGCTGCTTGAGACTTGGCCAAGGTTCCAG
GTGCCATACCCTCTGTGCCCCCTCCCTTAGGCCTGTGTGCCCCATGGAAGGTGGGCTGAGATCGGGATGACCTGA
CACAGCTCCCTATTGTGCTAATTCCCCCTCGGCTCCTCCAAGGGGTGGGAATTCCAGGCCAAGACCCCTACTT
CGCCTTTCCTTCCCGCTGCCAAGCAGGACCTTTGCCCTCAGCCCTTTCTCCTGGGATCTCCATGGGGGATGCC
ATGAGGGCCTCCACCACAAAAGAGAATTTGGGATCCCCTGGTCCCAGGTTTCTCCATCCCTTCTCCTTTTCCA
GAATTTTCCAAATAGGAAAGAACAGAAGGAGACCAGAACTCTAGGGGGGAGAAAGAGAATGAGAGAAAGAGAAT
GAGAGAGAGAGAAACACAAACACAGTGACACAGTGAGAGCTTAGTCTCCAAGAGCCTATTCAATTGATTCAAACAC
CCAAGCCACAGGATACCTCAGATGGCCCTCTTGCCAGCTGGAAGCTCTTTCTCCAATGAGCAAAGTTACAGTGAC
CTGGCTGGAGTTACCTGGTGACATAGGACCTTAGGGGAAAGTTTACGCTGGACTACACTTGCTCTGGGATCTGC
TTTTCCACATGTGTGTATGGCACGCCTTTTTCTGTGGATTGGGAAGGACAAGATTTTGTGTGTAGGGAGAAA
TGAAAACGGGGTGAGCTGAGTAGCTGGGTTTCTGGAGGATAGAACATCAGATGGGGAGGCTTTCCGAGGTGAAGA
ATGAGAGGGAACCACTTACTAGAGAGAAAAGAGCTCCAGGCCTGGGGAACAGCACGTGCGAAGGCCAGGAGAGAA
GAACTGTTGAAACAACGAGAAGGGTGGCACGGCTGGAGCTGAGCCAGCAAGGGGGATCGTGAGGAGCCTTGGGGT
TGGGGAGATCTGCAGAAGCATCAGACCAGGCAGGGCCTCGTACGCAGTCTGAGGAGTTTTACTTTTATTCTAAG
ACAGTTGGGGAGCTCCAGGAGCTGTTTTAAGTTGGGGAGAGACTGGATTCCAGCCTGCAAAAGCTGTTTTGTGAA
GACTAAAACCAAGTGAGGAGAGGTGGAGGTGCTTTGGGGACACTGAAATGGATTCTTGGAAGATTCTGAAGGCTG
TGTTGAAAAGACACCTATAGCTGTGGGGACATGACTATAATCCCAGCATTTGGGGAGACCGAGGCTGGCAGATCA
CTTAAGGTGAGGAGTTTGGAGACAGCCTGGCCAACATGGCGAAACCCATCTCTGCTAAAAATACAAAATTAGC
TGGGTGCAGTGGTGCATGCTGTAGTCCCAGCTACTCAGGAGACTGAGGCGGAGAATTGTTTGAACCTGGAGG

2869/5332

FIGURE 2512B

CAGAGGTTGTAGTGAGTCGTGATCACACAACTGCACTCCAGCCTGGGCAACAGAACAAATACTCCATTCCCTCCCC
TCTACCCCACC

2870/5332
FIGURE 2513

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCTCTCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCCCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCCTTCTCCAGGTCTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCGCCCATACTACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCTGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGGCTGAACCCCCCGGCG
CAGCTGCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGGCTTCTTCAGGCTGGGGCCGCCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGGCGCACCTGGACCGCGTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCCGCGTCCGGGCTGGCG
CGCGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCCTGGCGCAGCTGGGCATCAGCCTCTGCCACTCAGCCGC
GGGCCGTGCCAGCCAAACCCACCGTGCTCTTCGAGAAGTGGGCGTGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGCGCGAGCGCACGCTGGCCTTGTGTGCGCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGGCGTGCTGTTCGCCGTTGACCCCGCCCGCCTGCCTCCTGGACGGCCTGGTCCGCCTGCAG
CACTTGAGGTTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAAGAAAGACCCCAAACCGAGTGTCTCCCGACCCAGCCGCGGGAGGTGCGCCGGGCGAGCCTCTTCTGTGCCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAGCCCCGCAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCAGTGCAGCCTGCGGC
TCTCCGGCCTCCAGCTGGTGGCCACGCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTCCCTGAGTCCCACCGAGCCCCGCGAGAG
GGCAGCGAGCGGCTGTCGCTGAGCCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTACCCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGCGAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTCTG
GTGTCTTTGAGCAGGTGCTGCCGCCATCCGCCCCACAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCGGCAGCTCGAATGACAGCAGTGCCCGGTACAGGAACGGGCA
GGTGGGCTGGGGGCCGAGGAGACGCCACCCACATCGGTACGCGAGTCCCTGCCACCCCTGTCTGACTCGGATCCC
GTCCCCCTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCTTTG
CCTGACCCCTCAAGGTCCCCCACCCTGCGCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCC
CCCAAGACAGCACGGCAAACGGAGAACGTACGCCGACCCGGAAGCCCTGGCCCGCCCCAACTACGCGCTGCC
GCCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGCTTGTGGTGGGGACCGTGCCAGCCGACCACTC
AGTGCCCGGAGTGAGCCAGTGAGAAGGGAGGCCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGCC
ACTCGAGGCCCGTCCGGGTGAGCCAGCAGCCGGCCCGGGGTGTAGCCACCCACCCAAGTCCCCGGTCTACCTG
GACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCAGCGCGTGCAGCGCGCTC
TGCTACGTATCAGTGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACGCGCTACTGGCCAGC
AAGCAGCATTGGGACCGTGACCTGCAGGTGACCTGATCCCCACTTTCGACTCGGTGGCCATGCATACGTGGTAC
GCAGAGACGCACGCCCGGACAGGCGCTGGGCATCAGGTGTTGGGCAGCAACAGCATGGTGTCCATGCAGGAT
GACGCTTCCCCGGCTGCAAGGTGGAGTTCAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCGCCTGT
CCCTAGATTACGCCACATCAGAAATAAAGTGTGACTACACTTG

2871/5332
FIGURE 2514

CGCGCCGAGCCGCGGAGGGAGGGGCGGGGCGGGCTCCGGTGTGACGACCAAGCCGAGGTGGCGGCGAGCGCG
GGGCTCGGCCCGAGCTCAGGAGATGGGAAACTGAGGCACGGAGCTGGACAGTGAATCAGACACCAGACAGGCAC
TGGACGGGGCTGCAGGGGTCTCCACAGAGACCATCAGGATGTCGTATTTTGGGGAGCATTTTGGGGCGAGAAA
AATCATGGCTTTGAGGTCTGTACACAGCGTGAAGCAGGGGCCCATCTCCACCAAGGAGCTGGCGGACTTCATC
CGGGAGAGGGCCACCATCGAGGAGACCTACTCGAAGGCGATGGCGAAACTCTCCAAGCTGGCCAGCAACGGGACC
CCCATGGGGACCTTCGCCCCGCTCTGGGAGGTCTCCGCGTCTCCTCGGACAAGCTGGCGCTGTGCCACCTGGAA
CTGACACGGAAGTTACAGGATCTCATCAAGGACGTCTCCGCTACGGCGAGGAACAGCTCAAGACCCACAAGAAG
TGCAAGGAGGAAGTGGTGAACACCTTGGATGCTGTGACAGGTACTCTCGGGCGTCAGCCAGCTCCTGCCCAAGTCC
CGCGAGAACTACCTGAACCGTTGCATGGACCAGGAGCGGGCTGCGGAGGGAGAGTACCAGCCAGAAGGAGATGGAC
AAGGCGGAGACTAAACCAAGAAGGCGGCAGAGAGCCTGCGGCGCTCAGTGGAAAAATACAACCTCAGCCCGAGCT
GACTTTGAGCAGAAGATGCTGGACTCAGCCCTGCGCTTCCAAGCCATGGAGGAGACACACCTGAGGCACATGAAG
GCACTGCTGGGCTCATATGCTCACTCGGTGGAGGACACGCACGTGCAGATTGGGCAGGTGCATGAGGAATTTAAG
CAGAACATCGAGAACGTCAGCGTGGAGATGCTACTCAGGAAGTTTGACAGAGTAAGGGCACAGGCCGGGAGAAAG
CCTGGACCTCTGGACTTCGAGGCATACAGTGCAGGCTGCCCTGCAGGAAGCGATGAAACGTTTGCGGGGAGCCAAAG
GCCTTTCGCTTCCAGGACTAAGCCGGCGGGAGCGGGAGCCAGGACACCTGCAGCTGTAGATTTCTTGAGGCC
GATTGAGGACATGTCCAGAGGTGGATGAAGAAGGTTTCACTGTCCGGCCTGATGTGACCCAGAACACAGCGCC
GAGCCCTCCCGTTTCTCGTCCAGCGACTCCGACTTCGACGATGAAGAGCCCCGCAAGTTCTATGTGCACATCAAG
CCTGCCCCGGCCCCGGGCTCCAGCCTGCAGCCCCGAGGCAGCAGCGCACAGCTCAGGGCCACCGCGGGCAGCCTC
ATCCTTCTCTGCGCCAGGGGGACCATGAAACGCCATTCTTCACGGGACGCTGCTGGGAAACCCAGAGACCT
CGGTCTGCCCCAGAACAGCAGCTGTGCAGAGAGATTGCAGTCAGAGGAGCAGGTGTCCAAGAACCTCTTTGGG
CCGCCCCGAGTCAAGCTTTGACCACGAAGATTTTACAGGCTCTAGCAGCCTGGGCTTCACTCCAGCCCCCTCC
CCTTCTCTCTCTCGTCCGCGAAACGTTGGAGGATTCCGGCCTGGACTCTCCGTCCACGCGGCACCTGGCCCC
TCCCCAGATTCTGGGTCCCCCGCCAGGCACCCCGCAGAGCCCGCCAGCTGTAGGGCGCCACCCCGAGAGGCC
AGGGGTATCCGGGCACCGCTCTGCCAGACTCGCCGCAGCCCTCGCTCTGCTCTCAGGCCCCCTGGGGGCTGGAG
GCCTTGCGCCGAGGAGACCTGATGCCTGCACCTGCTGACCCACAGCCAGGGAGGGCCTGGCAGCCCCACCCAGG
AGACTTCGCTCTAGGAAGGTGTCTGCCCCTCTCACAGTAGCAATGGGGACCTGTCTCGTTCCTGAGCCCCCTCC
CCACTGGGCTCTTCAGCCGCCAGCACTGCCTTGAACGGCCAGCTTCTTATCCAGACAGGACACGGAGTCTCC
CGGGGTCCGAGCCCTGTGGTCTGCGGCTCCAGGATGCCCTGCCCATAGCCACAGCCTTACAGAGTATGTCCAC
GCCTACTTCCGTGGCCACAGCCCCAGCTGCCTGGCTCGAGTAACCTGGGGAGCTGACCATGACCTTCCCTGTGGC
ATCGTGCGTGTGTTACGCGGGACCCACCACCACCTGTCTCAGCTTCCGGCTTGTACACACAACCGCTATTGAG
CACTTCCAGCCCAACGCCGATCTGCTGTTCACTGACCCCTCCAGAGTGACCTGAGACCAAGACTTCTGGCTC
AACATGGCAGCTCTGACCGAAGCCCTGCAGCGCCAGGCAGAGCAGAACCCCACTGCCTCCTACTACAACGTGGTG
CTGCTGCGATACAGTTCTCCCGCCGGGTCCCACTGTGCTCTGCACTCAGTGCCTCAGTGCCTGAGTGGCAGTGTGA
GCCACCCTCAGCCAGGTCTCAGTGGAGTACGGCTACCGGCCGGTGCCACGGCTGTGCCCACACCACTCACGAAC
GTCCAGATCCTGCTGCTGTGGGGAGCCTGTGACCAACGTCCGCTTGACGCGGCTGCCACCTGGAACCTGGAG
GAGAAGCGGCTCACTTGGAGGCTTCCAGATGTGTCCGAGGCAGGCGGTCTGCGCCGCTCTCTGCCAGCTGGGAG
CCGCTCTCAGGGCCAGCACACCCAGCCCGTGGCTGCACAGTTCACAGCGAGGGGACCACTCTGTGCGGCGTG
GACTTGGAACCTGGTGGGAGCGGTTACCGCATGTGCTGGTGAAGAGGAGGTTTGCCACAGGGATGTACCTGGTG
AGCTGCTGAACCCGCAAAATGCTGCTGCCCCAGCTCTACACTGCGCCCTGGTGTGGCTGACCAACCCCTGCCCTC
CTGCCGAGCCCTGGGGCTCCACCCAGCCTCCCTGAGGCCATACTCCACGAGAGGAGCCCCATGCCAGCC
TGGCTGAGCCCGAGATTGCTCCTCCCTCATGCCAACCCACACAGGTCCCGGCTTTTAATGTTCTTTGAAT
AAACACTTTATTTTCTAATAAAATAAAAAAGGAAACCT

2872/5332
FIGURE 2515A

GTGGGACTTTCCTCTCGCTGCCTCCCGGCTCTGCCCGCCCTTCGAAAGTCCAGGGTCCCTGCCCGCTAGAGGCAA
GTTGCACTCATGGCACCTCCAAGTGAAGAGACGCCCTGATCCCTCAGCGTTCATGCAGCCTCTTGTCACGGAG
GCTGGTGCCCTGCATGTGCTGCTGCCGCTCGGGGCCCCGGGCCCCCAGCGCCTATCTTTCTCCTTTGGGGAC
CACTTGCGTGAAGACCTGTGCGTGCAGGCTGCCAAGGCCAGCGGCATCCTGCCTGTGTACCACTCCCTCTTTGCT
CTGGCCACGGAGGACCTGTCTGTGTTCCCCCGAGCCACATCTTCTCCGTGGAGGATGCCAGCACCCAAGTC
CTGCTGTACAGGATTGCTTTTACTTCCCCAATTGGTTTGGGCTGGAGAAGTGCCACCGCTTCGGGCTACGCAAG
GATTTGGCCAGTGCTATCCTTGACCTGCCAGTCTGGAGCACCTCTTTGCCAGCACCGCAGTGACCTGGTGAGT
GGGCGCTCCCCGTGGGCTCAGTCTCAAGGAGCAGGGTGAGTGTCTCAGCCTGGCCGTGTTGGACCTGGCCCCG
ATGGCGGAGAGCAGGCCAGCGGCCGGAGAGCTGTGAAGACTGTCTCAGCTACAAGGCCTGCCTACCCCCAAGC
CTGGCGACCTGATCCAGGGCTGAGCTTCGTGACGCGGAGGCGTATTGGAGGACGGTGCGCAGAGCCCTGCGC
CGCGTGGCCGCTGCCAGGCAGACCGGCACTCGCTCATGGCCAAGTACATCATGGACCTGGAGCGGCTGGATCCA
GCCGGGGCCGCGAGACCTTCCACGTGGGCTCCTTGGGGCCCTTGGTGGCCACGACGGGCTGGGGCTGCTCCGC
GTGGCTGGTGACGGCGGCATCGCTGGACCCAGGGAGAACAGGAGGTCTCCAGCCCTTCTGCGACTTTCCAGAA
ATCGTAGACATTAGCATCAAGCAGGCCCCGCGCTTGGCCCCGCGGAGAGCACCGCCTGGTCACTGTTACCAGG
ACAGACAACCAGATTTTAGAGGCCGAGTTCCAGGGCTGCCCGAGGCTCTGTCTGTTGGTGGCGCTCGTGAGCGG
TACTTCCGGCTGACCACGGACTCCAGCACTTCTTCTGAAGGAGGTGGCACCGCCGAGGCTGCTGGAGGAAGTG
GCCGAGCAGTGCCACGGCCCCATCACTCTGGACTTTGCCATCAACAAGCTCAAGACTGGGGGCTCACGTCTGGC
TCCTATGTTCTCCGCGCAGCCCCAGGACTTTGACAGCTTCTCCTCACTGTCTGTGTCCAGAACCCCTTGGT
CCTGATTATAAGGGCTGCCTCATCCGGCGCAGCCCCACAGGAACCTTCTTCTGGTTGGCCTCAGCCGACCCAC
AGCAGTCTTCGAGAGCTCCTGGCAACCTGCTGGGATGGGGGCTGCACGTAGATGGGGTGGCAGTGACCTCACT
TCCTGTGTATCCCCAGACCCAAAGAAAGTCCAACCTGATCGTGGTCCAGAGAGGTACAGCCACCCACATCA
TCCTTGGTTAGCCCCAATCCCAATACCAGCTGAGTCAGATGACATTTACAAGATCCCTGTGACAGCCTGGAG
TGGCATGAGAACCTGGGCCATGGGTCTTCACCAAGATTTACCGGGGCTGTGCCATGAGGTGGTGGATGGGGAG
GCCCCAAAGACAGAGGTGCTGTGAAGGTGATGGATGCCAAGCACAAAGTGCATGGAGTCACTCTGGAAGCA
GCGAGCTTGATGAGCCAAGTGTCTGACCGGCATCTCGTGTCTCCACGGCGTGTGCATGGCTGGAGACAGCACC
ATGGTGCAGGAATTTGTACACCTGGGGGCCATAGACATGTATCTGCGAAAACGTGGCCACCTGGTGCCAGCCAGC
TGGAAGCTGCAGGTGGTCAACAGCTGGCCTACGCCCTCAACTATCTGGAGGACAAAGGCCTGCCCATGGCAAT
GTCTCTGCCCGGAAGGTGCTCTGGCTCGGGAGGGGGCTGATGGGAGCCCGCCCTTCATCAAGCTGAGTGACCCT
GGGGTCAGCCCCGCTGTGTTAAGCCTGGAGATGCTCACCGACAGGATCCCTTGGGTGGCCCCCGAGTGTCTCCGG
GAGGCGCAGACACTTAGCTTGAAGCTGACAAGTGGGGCTTCGGCGCCACGGTCTGGGAAGTGTTTAGTGGCGTC
ACCATGCCCCCAGTGGCCTGATCCTGCTAAGAACTCCAATTTTATGAGGACCGGCAGCAGCTGCCGGCCCCC
AAGTGGACAGAGCTGGCCCTGCTGATTCAACAGTGCAATGGCCTATGAGCCGGTCCAGAGGCCCTCCTTCCGAGCC
GTCATTGCTGACCTCAATAGCCTCATCTCTCAGACTATGAGCTCCTCTCAGACCCACACCTGGTGCCCTGGCA
CCTCGTGATGGGCTGTGGAATGGTGGCCAGCTCTATGCCTGCCAAGACCCACGATCTTCGAGGAGAGACACCTC
AAGTACATCTCACAGCTGGGCAAGGGCAACTTTGGCAGCGTGGAGCTGTGCCGCTATGACCCGCTAGGCGACAAT
ACAGGTGCCCTGGTGGCCGTGAAACAGCTGCAGCACAGCGGGCCAGACCAGCAGAGGGACTTTACGCGGGAGATT
CAGATCCTCAAAGCACTGCACAGTGATTTTATTGTCAAGTATCGTGGTGTGAGCTATGGCCCGGGCCGCGCAGAGC
CTGCGGCTGGTTCATGGAGTACCTGCCCAGCGGCTGCTTGCAGGACTTCTGTCAGCGGCACCGCGCGCCTCGAT
GCCAGCCGCTCCTTCTCTATCTCTCGCAGATCTGCAAGGGCATGGAGTACCTGGGCTCCCGCGCTGCGTGCAC
CGGACCTGGCCGCCCCGAAACATCCTCGTGGAGAGCGAGGCACACGTCAAGATCGCTGACTTCGGCCTAGCTAAG
CTGCTGCCGCTTGACAAAGACTACTACGTGGTCCGCGAGCCAGGCCAGAGCCCCATTTTCTGGTATGCCCCGAA
TCCCTCTCGGACAACATCTTCTCTCGCCAGTCAGAGCTCTGGAGCTTCGGGGTGTCTCTGTACGAGCTCTTACC
TACTGCGACAAAAGCTGCAGCCCCCTCGGCCGAGTTCTGCGGATGATGGGATGTGAGCGGGATGTCCCCGCCCTC
TGCCGCTCTTGGAAGTGTGGAGGAGGGCCAGAGGCTGCCGGCGCCTCTGCTGCCCTGTGAGGTTACAGAG
CTCATGAAGCTGTGCTGGGCCCCCTAGCCACAGGACCGGCCATCATTACGCGCCCTGGGCCCCAGCTGGACATG
CTGTGGAGCGGAAGCCGGGGGTGTGAGACTCATGCCTTCACTGCTCAGCCAGAGGGCAAACACCACTCCCTGTCC
TTTTCATAGCTCCTGCCCGCAGACCTCTGGATTAGGTCTCTGTTGACTGGCTGTGTGACCTTAGGCCCCGAGCTG
CCCCTCTCTGGGCTCAGAGGCCTTATGAGGGTCTCTACTTCAGGAACACCCCCATGACATTGCATTGGGGG

2873/5332
FIGURE 2515B

GCTCCCGTGGCCTGTAGAATAGCCTGTGGCCTTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGTCAG
TGGGGCTCTCTGAGTCCTGGCCCAAAGAAGCAAGGAACCAAATTTAAGACTCTCGCATCTTCCCAACCCCTTAAG
CCCTGGCCCCCTGAGTTTCCTTTTCTGTCTCTCTCTTTTATTTTTTTTTATTTTTATTTTTATTTTTGAGACAGA
GCCTCGCTCTGTTACCCAGGGTGGAGTGCAGTGGTGGGATCTCGGCTCAGTGCAACCTCTGCTTCCCAGGTTCAA
GCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGTGCACCACCACACCCGGCTAATTTTTTTTA
TTTTTAATAGAGATGAGGTTTCACCATGATGGCCAGGCTGATCTCGAACTCCTAACCTCAAGTGATCCTCCCACC
TCAGCCTCCCAAAGTGTTGGAATAATAGGCATGAGCCACTGCACCCAGGCTTTTTTTTTTTTAAATTTATTATTA
TTATTTTTAAGAGACAGGATCTTGCTACGTTGCCAGGCTGGTCTTGAACCTCTGGGCTACAGTGATCCTCCTGC
CTTATCCTCCTAAATAGCTGGGACTACAGCACCTAGTTTGGAGTTTCCTGTCTTATTTCCAATGGGGACATTCAT
GTAGCTTTTT

2874/5332
FIGURE 2516

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACC CGCCCCGAGCCCACTCCATT CAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

2875/5332
FIGURE 2517

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGGCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGGCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCTGCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGCAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCAAGTGAGCCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCCATCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

2876/5332
FIGURE 2518

GGGATTTTCTGCTCCGGTTGGTGAGCGCGCCTGCGCGTTGACGGCGATTTTGCGTTCTGAGGCTGCAGCGTCGGC
ATCTTGAGCTGCCGGTTCGCGAGTTTCGAGGCCAGGTTCCGCCTGTCGTGGGTTTCGCACCCCGGACGCGATGCTAT
TCGACAAGGTGAAAGCGTTCTCGGTGCAGTTGGACGGCGCGACCGCGGGCGTCGAGCCCGTGTTTAGCGGCGGGC
AGGCCGTGGCGGGCCGGGTGCTGCTGGAGCTGTCAAGCGCCGCGCGTGTGGGTGCCCTGAGGCTGCGCGCGCGGG
GCCGCGCCACGTGCACTGGACCGAGTCGCGCAGCGCGGGCTCGAGCACGGCTTACACGCAGAGCTACAGTGAAC
GCGTGAGAGTCTGAGCCACCGCGCCACGCTCCTGGCGCCAGATACCGGGGAGACCACGACGCTGCCTCCTGGGC
GCCATGAGTTCTGTTCAGCTTCCAGCTGCCCCGACCCTGGTGACATCCTTCGAGGGCAAACACGGTAGTGTC
GCTACTGTATCAAGGCCACCCTGCACCGGCCCTGGGTCCAGCACGCCGGGCAAGGAAGGTGTTCACTGTCAATCG
AGCCTGTGGACATCAACACGCCAGCCCTGCTGGCACCTCAAGCGGGGGCTCGGGAAAAGGTTGCCGATCCTGGT
ACTGTAACCGTGGCCTAGTCTCCCTTTCGGCCAAGATCGACCGCAAGGGCTACACCCAGGAGAGGTCACTCCCTG
TCTTTGCCGAGATCGACAACGGCTCCACACGTCTGTGCTGCCTCGGGCAGCCGTGGTGACACACAGACGTCA
TGGCCCGAGGCGCCGAAAGCAGAAACGGGCAGTGGTGGCCAGCCTCGCGGGCAGCCGGTGGGCCCGGGCAGC
GGGCGCTGTGGCAGGGCCGGGCAGTGGGATCCCCCAGTGGGTCTTCCATCTGCACTGCCGCGTTCTACACG
TGGACTACGCACTCAAGGTCTGTGTGGATATCCAGGAACGTCCAAGCTGCTGCTGGAGCTGCCACTGGTGATCG
GCACCATTCCCTTGACCCCTTTTGGCAGCCGTTCTCCAGCGTGGGCAGCCACGCCAGCTTCTGCTGGACTGGA
GGCTGGGGGGCCTTGCCGGAGCGGCTGAGGCTCCTCCTGAGTACTCGGAGGTGGTAGCCGACACTGAGGAGGCAG
CCTTGGGGCAGAGCCCTTCCCGCTTCCGCGAGGACCCGACATGAGCCTTGAAGGCCGTTCTTCGCCTACATCC
AAGAGTTCGCTACCGCCCGCCACCCTGTACTCTGAGGAGGATCCAAACCCACTCTTGGGGGACATGAGGCCGC
GCTGCATGACTTGCTGAACGGCACAGGGACCCCTCGAGGAACAAGGTTGCACACCAGCTTTCAGCCACCATGACT
GTGGGGAGTGGCTGGACCAAGGGCTGACCTCCCCGACTGCATCAAAGTTGGGGAACCAAGTCTCAGAGTGAGGCG
GGGCCCTTTCGATATCACATGGGACAGAGGAAGAGCCCGGCTGGAATCTGACTTACCTGGACCGCTGTCTTGT
GAGGCATTGAATGCCCAGTGCAGTATCCGAGAGACTGTTTAATAACCTGTCTTCCAGCCAATTGGTGGTGCTGG
AATCCCTAGGAGCCTTCAGTCTGGGAGAAACAGAGCCAGACATAGACAGTTCCAGCATCACAGAACCAGAAGAA
GAGACCTGCAACTGTGAGAGTCCAGACAGGAAGCAGAGAAGGCGTCTTGGCGAAAGGGCATTCTTAGCTGAGGCT
TTGGAGTACGAATAGGAGCTCAGCAGGCAGACGAATGAGGAATAAAGGTCAGAGAAGGTCAGAGCTGAGTGACGT
TTGGAATCCACCCCGTTTATTGTAGAACTGGGGGTTTCAGAGGGCAGGTGCCTCAGAGTTGAGGCCACACAGTGAG
GTCTGGTGGGTGAAAGGACCCAGGAACGAGGCGTTTCAGGAAAGCAGGTTGTCAGAGCTATGTGGAGTCTGTGGGT
GGCAGGGGCAGCCGCTCCAGCCTTTGAAGACTTTGAAAGCCAGAGATTCTGGCGCAGGCTTGACTTCTTGGGA
GCTCCTCCAAGTACCCAGGGGCATCAGAGCTGCCTGGGTGTTACATGGCCAGGGAACCCAGGTTTCAGGGTAGGA
CAGGCAAGACCAGATACCCAATGTGCAAAGTGAAAACACTGGGCTCCCTGTAAACGATGAAGAATTCAAGACAG
TGACAGCATTACGTCACCCCTGGGGACAGAGGTGAGCCTAAGGTGACACACGGGGACTACTGTGCTTCCGGAGGC
TCCCTGTGCTCTGGAGGAGAAAAGCATTAGAGGGGGCAGCTGGACAAGCTCCCAACTGCAGAGTCCCAGCCCTGG
CTGGGGCAGGGCCCCGGCCTGGGACTCAGCATTTCTGATATGCCTTAAGAATTCATTCTGTTTTGTACAATTATT
TTTTAAAAGTAAACGTGTGGAGAAAG

2877/5332
FIGURE 2519

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
T TACTTAACCTTTCTGGGCCCTCTGCCACCTCATCTGTAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTGGGATATACTTATACTAAAAAAATTTATTCATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTTCATAT
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCAACCTGTGCGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTTCTGCGCAGCTCTCTCCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCGCCATGGCTTT
ACTTACTGCGGCGCGCCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCAGCATGCCAGTGC
TTCCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCCTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTAC
CATGCTGGACAACCTTTCCCAACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCAAGCATATGCACGGGGTATCAGCCGAACCCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTCTGCAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCAGAGTTTACCAACATGTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACCAAGCCACTTGG
TGGCAGTGGCCCTTTTCAGACCCCTTACCTGTCCCTTTCAGCAGCCATGAACGGGCTGGCAGGGCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTCAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTGACGAGAGTTTGTCTGAAACACCTGCCTAATGACCCCATGTTTAAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGCCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAGTATACCTTTGTTTCAGGGGGCCTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGAAGTTAAATATAAATTAAGACTTTAAAGATGAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCTGGTATGAGTTGCCCATCACAGGCATGGTCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAACTTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAACTATCCAATAAAATTAAGGT
CTGGGAGTGTTCTGTTTCCATTACTTTAATACTACCCCCCTCCAGACTTTCTACACCTGTTTACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAACATAAGTTTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCAAGCTTTTAAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTAAGTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTCTCCTTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT
TGCACAGGTTTTTCACTCAAGATGCTCTACTTCTTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCTCAAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACTGTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTGTTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

2878/5332
FIGURE 2520A

GGACGAGTCGAGCCTCCTGCGGCGCCGCGGGCTCCAGAAGGAGCTGAGCCTGCCACGCCGAGGACGTGGCTGCCG
CAGCGGGAACCGCAAGAGCTTGGTGGTAGGAACGCCCTCCCCGACCTCTCCCGGCCCTGTGCGCAATTGTGCGT
CCCAACGGCAGGCAGCAGCCCCCTGGATAGTCTCGGAATTTCTCGGCTGCCTCTGCCCTAAATTTCCCTTTTGC
CCGGAGGGCAGACGGCAGAAGATGGTCCCTCGCGTCTCTCCATCTTCCGGCTATGGAACCAACACACCCAGCTC
CACCCTCTCGTCAAGCTCATCTCCCGGGAACGTCTCCACCAGCTTCCCTTCCAGCCGACGCCGGACGAGCTGCA
CTTCCTGTCCAAGCACTTCCGACAGCTCAGAGAATGTGCTTGATGAGGAAGGCGCGCGGTACCCCCGCTCCGACC
CCGCTCTCGCAGTCTCAGCCCGGGCCGTGCAACGGGGACCTTCGACAATGAGATTGTCATGATGAATCACGTGTA
CCGGGAGAGGTTCCCCAAGGCCACAGCACAGATGGAGGGCCGTCTGCAGGAGTTCTGACGGCTACGCGCCCGG
CGCCCGGCTGGCGCTGGCTGATGGCGTCTTGGGCTTCATCCACCACCAGATCGTCGAGCTGGCCCGAGACTGCTT
GGCCAAGTCTGGCGAGAACCCTCGTCACCTCCCGCTACTTCTAGAGATGCAGGAGAAGCTGGAGCGGCTTCTGCA
GGATGCCCATGAGCGTTCCGGACAGTGAGGAGGTACGTTTCATCGTCCAGCTTGTCCGGAAACTGCTGATCATCAT
CTCAGCGCCAGCTCGGCTGTCTGGAGTGTCTGGAGTTTGACCTGAGGAATTTTACCACCTGCTGGAGGCGGCTGA
GGGCCATGCGCGGGAGGGCCAAGGCATTAAGACTGACCTTCCACAGTACATCATTGGGCAGCTGGGCTGGCCAA
GGACCCCTTGGAGGAGATGGTGCCACTGAGTCACCTCGAAGAAGAACAGCCCCCAGCACCTGAGTCCCCAGAGAG
CCGCGCCCTGGTCGGCCAGTCACGGAGGAAGCCATGCGAAAGCGACTTTGAGACCATCAAACCTATTAGCAACGG
AGCCTATGGGCGCGTCTACCTGGTGCGGCACCGTGACACAGCGCAGCGCTTGCCATCAAGAAGATCAACAAACA
GAACTTGATCCTGCGTAACCCAGATCCAGAGGCTTTGTGGAGCGTGACATTCTACCTTTGCCGAGAACCCTT
TGTGGTCAGCATGTTCTGCTCCTTTGAGACCCGCGGCCACCTATGTATGGTCATGGAATACGTGGAAGGCGCGA
CTGCGCCACGCTCCTGAAGAACATGGGCCCGCTGCCCGTGACATGGCCCGCCTGTACTTCGCGGAGACGGTGT
GGCGCTGGAGTACCTGCATAACTATGGCATCGTGACCGTGACCTCAAACCAGACAATCTGCTCATCACCTCGCT
TGGCCACATCAAGCTCAGGACTTCGGCCTGTCCAAGATCGGCCTCATGAGCATGGCCACCAACCTCTATGAGGG
CCACATCGAGAAGGACGCCCCGAGAGTTTCATCGACAAGCAGGTGTGTGGGACGCCGAGTACATAGCCCCGAGGT
GATCTTCCGCCAGGGCTATGGGAAGCCAGTGGACTGGTGGGCCATGGGCGTCTCTCTATGAGTTTCTGGTGGG
CTGCGTGCTTTCTTTGGAGATACCCCCGAGGAACCTTCGGTCAGGTGGTCAGCGATGAGATCATGTGGCCAGA
GGGAGATGAGGCCCTTCCAGCAGACGCCCAGGACCTCATCACCAGGTGCTCCGGCAGAGCCCGCTGGACCGTCT
GGGCACTGGTGGCACCCACGAAGTGAAGCAGCACCCCTTTTTCTGGCCCTGGACTGGGCAGGGCTTCTCCGACA
CAAAGCCGAGTTCGTGCCCCAGCTCGAAGCTGAGGATGATACCAGCTACTTTGACACACGTTCCGAACGTTACCG
CCATCTGGGCTCCGAGGACGACGAGACCAATGATGAAGAATCGTCCACAGAGATCCCCAGTTCTCCTCCTGCTC
CCACCGGTTCCAGCAAGGTCTACAGCAGCTCTGAGTTCTGGCCGTCCAGCCCACTCCTACCTTCGCTGAAAGGAG
CTTCAGTGAAGACCGGGAGGAGGGGTGGGAGCGCAGCGAAGTGGACTATGGCCGCGGGCTGAGTGCTGACATCCG
GCTGAGGTCTTGACATCCTCTGGATCCTCTGTGTCAGTCATCTTCGTCCAGCCCGAGCGGGGTCCAGCCCATC
TCTCCTGAATACCATCAGCCTGGACACAATGCCAAGTTTGCTTCTCATCAGAGGATGAGGGGTAGGCCCAAG
CCCTGACGGCCCAAGAGGCCCGTCTTATTCTAGGGGAGCCTGACCCCCACCAGCGGCCACCCAGTGATGCC
CAAGCCCTCGAGCCTTCTGTCCGACACAGCTGCTCTCAGCCACGCCCCGCTACGGAGCAATAGCATCGGCGCCCG
ACACTCCACACCAAGGCCCTCTGGATGCCGCGCGGGGCCCGCCTTGGGGGCCAAGAGACCCAGCCCTGAGAA
GTCCAGAGCCTCCTCCAGCGGTGGCAGTGGTGGCGGCAGTGGGGGCCGCTGCCCAAGTCAGCCTCTGTCTCTGC
CCTGTCCCTCATCATCACGGCAGATGATGGCAGCGCGGCCCTCATGAGCCCCCTTCCCCGCGCTCTCTGTG
CTCGAACCCGTCGTCCCGTGACTCTTCGCCGAGCCGAGACCCGTCCCCGTGTGTGGCAGCCTGCGGCCCCCAT
CGTTATCCACAGCTCTGGCAAGAAGTACGGCTTCAGCCTGCGGGCGATCCGCGTCTACATGGGTGATAGCGACGT
CTACACTGTGCACCACGTCGTCTGGAGTGTGGAGGACGGAAGCCCCGCCAGGAGGCGGGCTGCGGGCTGGGGA
CCTCATCACCCACATCAACGGGGAGTCAGTGCTGGGGCTGGTGACATGGACGTCGTGGAGCTGCTGCTGAAGAG
CGGCAACAAGATATCCCTGCGGACCACAGCCCTGGAGAACACCTCCATCAAGGTGGGCCCGCCCGGAAGAATGT
GGCCAAGGGCCCATGGCACGCAGGAGCAAGAGGAGCCGTGCGCGGGAGACCCAGGATCGGCGGAAGTCACTTTT
CAAGAAGATCTCCAAGCAGACCTCCGTGCTGCACACCAGCCGACGTTCTCCTCCGACTCCACCCTCACTGTC
ATCCAGTGAGAGCCTCCCCGGCTCGCCCACCCACAGCCTCTCCCCAGCCCCACCACTCCCTGCCGAAGCCAGC
CCCTGATGTCCAGCAGATACCACTGCATCCCCACCCAGCGCATCCCCGAGCTCCAGCAGCCCCGCTCCCCAGC
TGCTGCTGGCCACACCCGCCCGAGCTCCCTGCACGGCCTGGCTGCCAAGCTTGGGCCACCCGCCCAAGACTGG
CCGCCGAAGTCCACCAGCAGCATCCCGCCTCCCGCTGGCCTGCCCGCCCATCTCCGCGCCCCACCCCGCTC

2879/5332
FIGURE 2520B

GCCCTCGCCCCCTGCCCGGGCACCCGCCCGCACCTGCCCGATCCCCGCGGCTGCGCCGGGGCCAGTCAGCTGACAA
GCTGGGCACAGGGGAGCGGCTGGATGGGGAGGCGGGCGGCGCACTCGTGGGCCAGAGGCCGAGCTCGTGGTCAT
GCGGCGGCTGCACCTGTCCGAGCGCCGAGACTCCTTCAAGAAGCAGGAGGCCGTGCAGGAGGTTAGCTTCGATGA
GCCGAGGAGGAGGCCACTGGGCTGCCACCTCAGTGCCACAGATCGCCGTGGAGGGCGAGGAAGCCGTGCCAGT
AGCTCTCGGGCCCCACCGAAGAGACTGATCCCCCTGCCAGGTCTCTCCCTGGCATCAAAGTTACGCGTTTTCTTGT
GCAATGTTTTTCCGTAAAGTCATGCCTGGATGGGGACTGAGCCACCAGCCTGACACCCAGAAGGCGAGAAGCCA
TCTCGGTCCCTTGCTGGAAGGTGGAGACATCGCTTGTGTTCTGGTGTCAATCGGGGCTGGATGGGGCAAGAATGGG
GGACAAGGGTGGCTTTGTAAATAGCAGCAAATCCCTGCAACTAATTTATTACTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGAGACAGAGTCTCACTCTGTTGCCCGGCTGGAGTGCAGCGCGCTGATCTCAGCTCACTGCAACCTCCG
CCTCCCAAGTTCAAGCGATTGCTCTGCCTCAGCTTCCCAAGTGGCTGGGATTACAGGCGCCACCACCTATGCCCA
GCTAATTTTTTGTATTTTTTAGTACAGACGGGGTTTACCATTGTTGGTCAGGCTGGTCTCGAATCCTGACCTCAT
GATTTGCCTGCCTTTGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGGGCCCAGCCTAATTTATTACTT
TTTATAAGCGATAGCCGTACTGAGCCGCCCCCTGAAGGCGGCTGCCAGGTCTTGCCCCAGGCACCTGGGACTCTG
TTTGACGGCCCTGCCCTCTGGGCTGAGAAGGATGCACTTTGGACAAGTCATCTGTGTTGTGTTTTCCAGTTTTT
CTGTACTTTTTAAGTGTTTTGTGTTACCTGGTCTCATTCCCCTCCCCACACCTACCCATTTGAGGGGATGGAGTT
GAAGTCACCTGGTCACCTGTACCGGCCAGTTCGGCTACAACCTGGAGTGTCCGTAAACAATTCCTCTCACCCAC
AAAACAATGTAATCCAGCGATGGACTGGATTCTGAAGGCCACTTCCCACCATCATAGCTGCCATGCCAGGCAG
TGCTGCTCTATATATAGAGTCTGCCTCCAATCCTGCTGGCTTCAGCCTGGAGAAGGGATATGGGAGCTGGAGCT
TTGATGGATGAATAGGTGTTACCGGATCTGGGCAGAGGGGTATCCGCTCCCCAGGTGGGCACTGATAAAGGAA
GGTACAGGCCTCACCTGGAACTGCCAAGGCAGCCTCCAGAAATGCTCGGCTGTCTCGGGGCACGCTCCAGTATGC
CAGTCTGCGGGATTACGTCCAGCTACTTCCAGAAACACTCAGTGTCCCTCCCCTCAGGCTCTGCCTTGGCCTG
GCCTTGTCCAGTCTACCTGGACAAGATGCCGTGTGTTTGGAGGCCAGCAGAGTAAGCCCTTGGCCGTGATGTGT
CTGAAACACCTGTTAGGGGTTCCCTCCATATGTCAGAGCCTCTCTGGGATGAAGTTCAAGCCAGAAAACCCAGTC
GAGGCTCAAGTTTGAATTCAGCTTCACTGTGTGGCTCTGGGAAAATGGCTTTCCACTCTGTGCCTCAGTTTTCC
TTGTGTTTACAAGACTAATCCCATTGACTGTTTATTAAGCACCTACTGTGTGCCAAGCGCTTTTACGTGGCTTCT
CCCTCAGCCAGCCTTGAGAAGGCTGGAGGTGGTGTATCACCTCCATTTTACAGACAAAGCAGCTGAGACCCAG
CGAGGGGCGGAGACCTGTCCACGATCACCCAGCAGGAGTCTGTGGCAGAACGGAGCATCAGCCAGACCCTGTTGT
GGGCGTTGTATCAAGGGAGCTTGAATGGAGGGTCTGGTGTGAGATACAGCCGACTCCAGCCCAGCTCATCCCC
CATGATGCTGTGTGACCCACTGGGCACTCTGGTGAGGGAGCTTTCCAGACATCAACAGCCCACTCTGCTTCCCTT
TCTGAGTCCCCTGTCCAGCACTGCCTAGTGTGGAGGGTAGACCAAGGCTGTGCATGATTACCCCCCTCCTTCCA
TCCTGGAGCTGGCAGTGAATAAAAGCCCGTATTTAC

2880/5332
FIGURE 2521A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCAGCCGAGCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAACGCTCGGCTGTCTCGGGGACCCCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAACACTCGGGTCCCCCTTACCTCAGGCTCCGCTCGGCTCGGTTT
ATCCGCCCGGCTCGAATGCGCTCGGGCATTTCGCGCGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGCGCGCG
AGGCGGGGATCCCGCGGCTCGGGCAGCGGTGGCCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGCGCGGTTGGCGGCCGCGACAGGTGCGCGTCTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTGTAAAGGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCCGTGGTGCCTGTGACTGCTGGAGATAGAGTCCCAGCACCCCAAGCCAACCCAGCGGACCCCTCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCACCCCACTACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCGTTCGCGCGGAGCGGCGCGGAGGACCTGGAGC
TGCTGCGCGGCGACGTGCTGGTAGTGAGCCGGGCGGCCTGCAGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCACAGAGCGTGGGCTGGATGCCCGGCTCAACGAGCGCACAGGCGAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCCTGGGGCCCGTGGCCCTGGCCCGGGCCCGCCCTCGCCACGGGGCCCCCGCCACTGCCCCCGAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCCGACTTGGCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCCGCTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCCTGTGCTGCACTGCCCCGCGCGCTCGTGACCCCGAGGCCTCGGCCGAGGCGCGCGGGCCCTGCGGG
AGGCGCGGGGCCCCGTGGGGCCGGCGCTGGAGCCACGACGCTGCGCGTGCACCGCGCGCTACGCTGCGCTTCC
TGCTCCAGCACCTGGGCGCGTGGCCAGCCGCGCCCCGCGCTTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCGCTGCTGCTGCGCGCGCGCCGCGCGCTCTCGCCGCGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CAGGCCCTGACTTCCCGGCGCTGCTGGTGGAGAAGCTGCTTCAAGGAACACTTGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCGCGCTAAACCCCCCAAGGCAAAGCCGCGCTCCACAGTCTTGCCCAATGGAGGGAGCCACCCCTCCC
TGCAGGATGCTGAGTGGTACTGGGGGACATTTCAAGGGAGGAGGTGAACGAGAACTCCGGGACACTCCCGATG
GCACCTTCCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCCTCAGGAAAGGCGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCACTATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCTG
TGTCAAATACCAGCAGGACAGATTGTCAAGGAGGACAGCGTGGAGGAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGCGGTGAGGGCAACGAGAAAGAGATGCAAGGATCCTGCTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACCAGTACCTCGTGTGGCTCACCCAGAAAGGCGCCCGGAGAGAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGAGGACAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCTGCTCCGTGGTAGTGGACGGCGACACCAAGCACTGCGTCACTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACCGACACGCCT
CGCTGGTGCAGCAACGACGCGCTCACCGTCAACCTGGCGCACCCAGTGCGCGCCCCGGGGCCCCGGCCCGCGC
CTGCCGCCCGCTGAGCACCGAGGACCCGCCCCAAGCAGAGCCGCCCCCTGGGCCCGTCTGCGCCGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCTATTTCTCCGCTCTGGCTCTTGTGTTGGGGTTCT
CTACCCCTCTTTCTCTTTCTTCTCCCTCCCCATTTCTCAGATCTCCCTCTGTCTCTTTTCTGTCTTTCTTGG
CCCCTGTCTCTCTCATGTTGGGGTCTTAACCTCCCCACCCCATATCTACGTGTCTCTCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCGGGGTCCCGGAAGCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCCAGCCTGGGCACCCCTGATTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGGGGCCGGGCGGGA

2881/5332

FIGURE 2521B

CCCGCCCCACAGACTCCAATTCCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAAATAATTAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTGCGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGAGACTCCTCCGTCTCAAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCCCTCTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

2882/5332

FIGURE 2522

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCGAT
GACCCTGTCGCCACTTCTGCTGTTCTGCCACCGCTGCTGCTGCTGGACGTCCCCACGGCGGGTGCAGGC
GTCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAACTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCTTGGAAGATCAGACCCAGCTCCTTACCCTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTGTTGCTTCAAGTG
ATGGCCGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCACCCCA
TGATCAAGAAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAAGTAGTTTAAT

2883/5332

FIGURE 2523

CGAAAGCAGAGCGGCGCGCCGGTTCCCTTGGTTCCCTGAGGGCGATGGCGCGGGGTGGCTGGCGCCGGCTACGCCGC
CTGTTATCCGCGGGGCAGCTTCTATTCCAGGGCCGCGCGCTGCTCGTCACTAACACGCTGGGCTGCGGCGCGCTC
ATGGCGGCGGGTGATGGCGTGCGCCAGTCCTGGGAGATCCGCGCCCGGCCGCGCCAGGTTTTCGACCCACGGCGC
TCCGCGAGCATGTTTGCGGTGGGCTGCAGCATGGGTCCCTTCTGCACTACTGGTACTTGTCGCTGGACCGCCTA
TTCCCTGCGTCTGGCCTCCGAGGCTTCCCAAATGTCTCAAGAAGGTCTCGTGGATCAGCTGGTAGCCTCTCCA
TTGCTGGGCGTCTGGGAATTCTACAAGGCAGACTGGTGCGTGTGGCCTGCTGCGCAGTTCGTGAACCTCCTCTTC
GTGCCCCCCCCAATTTGAGTCACCTACATCAACGGCCTGACGCTGGGCTGGGACACGTACCTGTCCTACTTGAAG
TACCGGAGCCCAGTTCTCTGACACCCCCAGGCTGTGTGGCCCTGGACACCCGAGCAGACTGAACTGTCTGCTTC
CTGGACCAGATGCAAGACTGTCTCCTGGCGGACCACCCCTCTGACAGAAGGGGAATGGGCTCCTGCAGCAAGCT
CGGGTCTTGAGCCACGTCCCAGCACCACTTCAGCTCCGGAGCATTGGGCTGAGCCGCCCTTTCCAAGCTCACTTC
TGGGACTGAGTTTTCTCAACCGGAACACACCCCATGAAGATGGATGATCATCCCCCTAGCCCTTCTCAGCAGGAACC
TCATGCGACCTGTGACCAAGATGTCCCATCCTCAGCACAGGGCCCACTCTGCCAACCAGTCTCAAGCACCAGCCC
CTCAACACTGCCATCCACCTGGCTCTGGGCCAAGCCACCAATCCAGAGCTCCCTCAGGTCCTGGGACTAAGGCGG
GGACATGACTGATCCCTCAGAGCAGGCTCAGGCCTGGAGTCGGCCCCCAAAGTTTACATAGGGCCAGGCAGC
CTCTGTGTTTCTTTCCCTGGTCTGAACTGTGGAAATGCCATTAACTCTCTCTATAATGTAAGTAACTGCTG
GCTGGGCGCAGTGGCTCCACCTGTAATCTCAGCCCTTCCGAGGCTGAGGTGGAAGGATTGCTCGAGGCCAGGT
GTTGAGACCAGCCTGGGCAACATAGCAAGACCCTGTCTCTATTTATATTGAAAAATAAAAAATAACAAAAG

2884/5332

FIGURE 2524

GTCGCCGTTGCATCGGTGCAGGGCAAGATGGCATCCGCCACAGACTCGCGCTATGGGCAGAAGGAGTCCTCGGAT
CAGAACTTCGACTACATGTTCAAGATTCTCATCATCGGCAACAGCAGCGTGGGCAAGACGTCCTTCCTCTTCCGC
TATGCTGACGACTCGTTCACGCCTGCCTTCGTGAGCACCCTGGGCATCGACTTCAAGGTCAAGACCATCTATCGC
AACGACAAGAGGATCAAGCTGCAGATCTGGGACACAGCAGGGCAAGAGCGGTACCGGACCATCACCACCGCATA
TACCGGGGCGCTATGGGCTTCATCCTCATGTATGACATACCAACGAGGAATCCTTCAATGCAGTGCAGGACTGG
TCCACCCAGATCAAGACCTACTCATGGGACAATGCCAGGTGCTGCTGGTAGGAAACAAGTGTGACATGGAGGAT
GAGCGGGTGGTGTATCAGAACGTGGCCGGCAGCTAGCTGACCACCTTGGGTTTCGAGTTCTTTGAGGCAAGCGCC
AAGGACAACATTAACGTCAAGCAGACCTTTGAGCGCCTGGTGGATGTCATCTGCGAGAAGATGTCCGAGTCGTTG
GACACGGCGGACCCCTGCGGTACAGGGCGCCAAGCAGGGCCACAGCTCAGTGACCAGCAGGTGCCACCGCACCAG
GACTGCGCCTGCTGAGAGCCATCCCACTCCCTTTCCCTCTTCCCTGTCTTCCCCACCTTCCCCAACTACCCGG
GCCTGACCCGGCCCC

2885/5332
FIGURE 2525A

GTGCGAGGGACACCGTCTCGGCCCGGGGGTCTCCTGAGACCCTGTCTCCCTGCCCTCCATTTAGCAGCGATCAG
TGGACAATTCTGTCTTCTCCACTCCAAGTCCTTGTCTTGGTTCTTTTCCATGCAGCGCTATAGGGGACGGCAGA
CGGTTTTTCGGGGCTGGTGTGTGGGGGGGGTCTCTTACGCCCCCTAGCTTCAACACCCCCCTACCACGTTCTTCTC
CCCTGTCTACCTTTCAGCACCATCTGGGCATCGACAGCTCCTCGGTGTGCGCCCCACCTTGAGCCCCAGTTCCA
CCTTCTACCGCTTTCAGCACCTCCGGCGCGGACAGCTCCTCGCTGTGCGCTCCACTCCCGGCCCTGGGCGGACCC
GGGAGCAGACGCTCCTCGGGCGCCGCTCACGGGGACGAGTCTGCTCCCTGCTATCCCAGACCCCTTTCTCTGGC
GCATGGAGAACCTGGGGGTGCGGAAGGGGCAGAGGCTTGCAGCAGGTTGAGTCGCTCTCGGGCGGCCACAGCA
TGACCAGAGCCCCGAAGCACCTGTGGCGGAACCCCGCGCCCCATCCGCATCCAACAGCGCTTCTATTGCGATC
CGGACAAAGTCCGCGGGCTGCCGCGAGAGGGACCTGAGCCCGCGGCCGAGCTCAGGAAGTCGCGGCTCTCTGGC
CCGTTTTCTCTGTCAGGCGCTTTGACCTGGAATAATGGGCTCTCGTGTGGGAGGAGGGCCCTGGACCTCAGTCCA
GCCCTGGCTGGGCGGATTATGACAGGCTCCAGTCCCGCACAGCCAGCGGCGGAGTCTTCTGTACCGCTCAG
ATAGCGACTATGAATCTCGCCCAAGGCCATGTCTCGGAATCCTCTGTGGCCAGCGACCTACATGGAGAGGACA
TGATTGTGACGCCCTTTGCCCAGGTCTGGCCAGTCTGCGGACCGTTCCGGAGCAACGTGGCGGCCCTTGCCCGCC
AGCAATGCCCTAGGAGCAGCCAAGCAGGGACCCGTCGGAACCCCTTCATCCAGCAATCAGCTCCCTCCTGCAGAGG
ACACGGGGCAGAAGCTGGCATTGGAGACGCTAGACGAGCTGGACTGGTGCCTGGATCAGTTGGAGACGCTGCAGA
CCGGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAGCGGATCCTGAACCGGGAGTTGACCCACCTGTCCG
AAACAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCCCGGACCTTCTTGACCAGCAGACCCAGGTGGAGC
TGCCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCCCGGATCAGTGGCCTACATGGGCTTGCCACAGTG
CCAGCCTCTCTCAGCCACTGTCCACGCTTTGGGGTCCAGACTGACCAGGAGGAGCAACTGGCCACAGGAGCTAG
AAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCGGAGCTAAGTGGGAACCGGCCCTCACAGCTATCA
TATTCAGCATTTTTTTCAGGAGCGGGACCTGCTGAAGACATTCCAGATCCCAGCAGACACACTGGCCACCTACCTGC
TGATGCTGGAAGGTCACTACCACGCCAATGTGGCCTACCACAACAGCCTACATGCCGCGACGTGGCCAGTCCA
CGCATGTGCTGCTGGCTACGCCCGCCCTCGAGGCTGTGTTACAGACTTGGAAATCCTGGCTGCCCTCTTTGCAA
GCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACAGTTTCTGATTAACACCAACTCAGAGCTGGCGCTTA
TGTACAACGACGCTCGGTGCTGGAGAACCATCACCTGGCTGTGGGCTTCAAGCTGCTGCAGGCAGAGAAGTGC
ATATCTTCCAGAACCTCAGCGCAAGCAGCGACTGAGTCTGCGCAGGATGGTCATTGACATGGTGTGCGCCACAG
ACATGTCCAACACATGAACCTCCTGGCCGACCTCAAGACCATGGTGGAGACCAAGAAGGTGACAAGCCTCGGTG
TCCTCTCTGGAACAATATTCCGACCGAATCCAGGTCTTGCAAGCCTGGTGCACCTGTGCTGATCTGAGCAACC
CCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGGACCGCATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCG
AGCGTGAGTCGGGCCTGGACATCAGTCCCATGTGTGACAAGCATACGGCCTCAGTGGAGAAGTCCCAGGTGGGTT
TCATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCTGACCTGGTCCACCCAGATGCACAGGACCTGCTGG
ACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATCCCCGAAGTCCCTCAGACCTCACCACCCCGAGC
GGGACGGGCCTGACAGATTCAGTTTGAAGTACTCTGGAGGAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGG
AGGGGGAAGAGACAGCTTTAGCCAAAGAGGCCTTGAGTTGCCTGACACTGAACTCCTGTCCCTGAAGCCGGCC
CAGACCCTGGGGACTTACCCCTCGACAACACAGAGGACTTAGGGCCAGCCCTGCGTGAAGTGCAGGGGCAATGGAT
GGTAAAGCCCTTTGGCTCTTGGCAGGCAGACTTTCAGGAAGAGGCTCCATGTGGCTCCTGCTTCACTTTCCAC
CCATTTAGGGAGACAATCAAGCTCTTAGTTATAGGTGGCTCCCAGGGTCTAATTGGAGGCACCTGGCTGGGGTCC
ACTCTGACCCTAGACTTGCCTAAAAGAGCTCTCTAAGGGGCAGCCTCTTACGATGCCCTGGTGTCTTTCTCCTGG
GCTTCTATCCCTGTGAGGAGAGGTGCTGTGCTGGAGCCTCTAGTCCACCCCTCTCCAGTGGTCACTCTTGAGTC
ACATCTGTCACTTAATTATTTCTTCTTTATCAAATATTTATTGCTCATCTACTTCGTGCCAGCTTTCTGCCTCT
GTAGTAGCCCTGCACAAAGGTGGGGAGTCAGGAGACCATCCCAAAGGCATCTCCCTGTCTTCTCTACCAAGCG
GCTCTCTGCAAGAGCATGGAATGTGAGTGGGGAAAATTTTCAGCACCAAAGCTTCACTCATACCCAGTTTGT
TCTGAAACTACGGTAGGGGGCAGGAAGAGGAGCAGAAAAGAAGGGCTGGGCAAGGCATAGTGGCTTATGCCTGTA
ATCCCGTACTTTGGGAGGCTGAGGTGGGAGGACTGCTTAAGCTCAGGAGTTTGAGACCAGCCTGGGCAACATAG
CAAGACCCCAACATCTCTGAAAAAATAATAGCCAGGCATGGTGGTGTGCACCTGAGAATCCAGCTACTCAG
AAGGTTGAGACAAAGGGGATCGCTTGAGCCCAGGAGTTGGAGGCTGAAGAGAGCTATGACTGCATCACTGCACTC
CAGCCTGGGCAACACAGCAAGATCCTGTCTAAAAATAAAAAGAAAAGAGAAGGAAAGAGACGGGGCTCTG
AGGCCGAGCACAGTGGCCCATGCTATAATCCAGCACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTTAG

2886/5332
FIGURE 2525B

GAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTGGCTGGGCATGGTG
GCGGGTGCCTGTAATCCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCACTTGAATTCAGGAGGTGGAGGTTGCA
GTGAGCCGACATCATGCCACTGCACTCCAGCCTGGGCGACAGAGCAAGACACTGTCTCAAAAAAG

ATGCGCTGCCCCAGCTGCCGCCACTTCTGCTTTTGGTGCTGGTGGTCTGCTGAAAGCTGGTGTGAATTACAAT
ACTCCCTTTACAGGCCACGCTGGTCCGCCAACCTCCGAGGAAGGCTGGGTTTTCCCCAGAAACAAACGGAGCA
GCTGTGAGGACAGATGAGGCACCGCTGCTCCCAAGCCCTGGGGCTGTGGGTCTGCAACTCCAGGCCTGGGGGGC
TACATAGAGATCTGGGGAGGGTGGCATGTGGACCCAGCCCCCTCTCAGGGCCAGTGTTGTGTGTTATTTCGCAT
TTCGTGCTGCCTAGGCACCCACAGTTCAGGGGAACCCCCAAATCCTACTCCAGCACCATGAGTTTGAGACAGAC
TCCATAACCCACCTCAGCCCCCTCAAGTTCAGGGGGCAACCCCTACCATCCAGCCGAGCCCCAGCTCCACAGATTCA
AGGATGATACCCTCCTCCCCACAACCAGAGACAATCACGCACCCTAGTTCGTGGCTCCCCCAGTGAGAGCTCACC
CCCTCTTCCCATTTCCACCCTCCCCAGTTCGAATCCCTGACCCCGCACTGGAGCCCCACTTCCACAGCCCCGGA
ACGGAGCCCTTGACCTCCAATGACCAGACCTTGGAGCCCCCTGGCCCAGGTGACACTGGGCCCCGTGAGTTACAC
AGGAACCCGAGTGTGGTGTGTCGTGTTTGTCTGGTGTCTCTTTTGTCTATCGGGTCTGTGGTCATGGCTGTG
AGATTCTGTCAACCGGAATGAGTCCAAGTTTGAGAACCTGGACGAGGTGTCCATGGGATCCGTGAATGACAGATTG
TCCTTTGCCCAACCACTCCAGGAGTGA

2888/5332
FIGURE 2527A

GCACAGCCATCTGTGGTGA CTAGGAGGTCCCCAAGCCGAGGACACCCATCAAGGACCTTTAGAGTGGCCTCAGAC
CAAGGTACCAATCAATGGCTAACTGGGGGTCCCAAACCTAGCCAGCCATCTATGGACAGTGGGGAGCCCTCA
AGCCTAGCCAGCCATCTCAAGCCCCCTGGGGTAACCTCAAATCTGGCCCAGCCATCTCAAGCCTTTGGGGTGTCT
CCAAGTCCAGACTACCCATCTCAGTCTGTGGGGAGTACCCAATGCTGGCTCAGCCATTTAGCCCACTGAGGTG
TCCCCAAGTCCAACCTACCCATCTCAGGCCATTAGGGAGTACCCAACCCTGGCCACCCATATCAGTCACTGAG
GTGTCCCCAAGTGCAGCCTACTCATATCAGCCCACTGAGGTGTCCCCAAGCCCAAGCTACCCATATCAGCCC
ACTGAGATATCCCCAAGCTCAGGCTACCTATCTGTGGCCACTGAGGTGTCCCCAAGCCCAAGCTACCCATCTCAG
CTCACTGAGGTGTCCCCAAGCTCAGGCTACCTATCTGTGGCCACTGAAGTGTCCCCAAGCCCAAGCTACTCATCT
CAGCCTACTGAGATGTCCCCAAGCTCAGGCTACCTATCTATGGCCACTGAGGTGTCCCCAAGCCCAAGCTACCCA
TTTCAGCCCACTGAGGTGTCCCCAAGCCAGACTATCCATGTGTGGCCACTGGGGAGTCCCTAGCCTTGCCCAAG
CCATCTCAGCCCACTGAGGTGTCCCCAAGCTCAGCCTACCCATCTGTGGTCACTGGGGAGTCTCCAAGCCTGGCC
CAGTCATATCAGCGCACTGAGGTGTTCCTAAGCCAGCCTACCCATTTATGGCCACTGAGGTGTCCCCAAGCCCA
GGCGACCCATCTGTGGTCACTGGGGAGTCCCCAAGCCAGCCTACCCATCTCAGCCCACTGAGATGTCCCCAAGC
CCAGCCTACCCATCTCAGCCCACTGGGGAGTCTCCAAGCCTGAGCCAGCCATCTCTGACCATCAGAGTGTCCCCA
AGCCTAGCCATGTCTCAGACTATTGGAGTGTCCCCAAGCCTAGCCATGCCATCTCAGACCATTGGAGTGTCC
CCAAGCCTAGCCATGCCATTTACACCAATTGGAGTGTCCCCAAGCCTAGCTACCCATCTATGGCCATTCGGGAG
TCTCCAAGCCTGGCCAGCCTCCTCAGTCCACTGGGGAAATCCCCAAGCTTGACCTGGCCATCTCAGGCCACTGGG
GTGTCCCCAAGTGTAGCCCAACATCTGTGGCCAGTAGGGTTTCTCAAGCCTAGCCAGCCATCTCAAGCCAGT
GGGATGTCCCTAGACAAGATTACCCACCAAGTGGCCTCCAGGGTGTCCCCAAGCCCAAGCTCAGCATCTATAACC
AGCAGGATGTCCCTAGCAGAGCTCATGCATCTATGACCTGTATGGTGTCCCCAAGCCAGGTTTCATCGATCTATG
CCCAGTGAAGGTGTCCCCAAGCCTTGCCCAAGCTATCTCAGGCCACCACTGCAGTGGCCTTAAGACCAGCTCATCAA
CCTATGGCCTGTGGTGTATCCCCAAGCCTAGCCAGCCGTCTCAAGCCACAGGGATGTCTTCAAGGCTAGCCAC
CAACCTATGACCTGTGTGGTGTCTTAAGCCAGCCAGCCATCTCAAGCCATTGGTGTGTCCCCAAGCCTAGCC
CAGCCATCAGGACCCCATGGGTGTCTCCAAGTCTAGCTCAGCCATATGTGGCCAGTGGGGCGGGCTCCAGCCTA
GCCCACCCATCTCAGACCACTGCAGTATCCCCAAGGCAAGCCCAACCATCTGTGGCCTCCAGTCCAGGCAAGACA
AATTCATCTGTACCTAGCCTCCAGCCTAGCCGAGCCAGCTATAGCCCCCAGCCTATTCCCACCATCTGTGGCC
CACACGGAAGCCCTAAGCCTGGCTCAGTCACCCCCGACACTAGGTTGGCCCCAAGCCGATCCCAGCCATCTGTG
GTCAGTGGTACATGTCTAGCCCTCAATGAGCCATGCTGGGGCTCTAGGCTGGATTCAAATCTGCAGTGTTCAGG
GTGGACTCAGTAGCCCCGTGTCTGTGTACCCATCAGCGTTTGTTCAGTTAGCCTGGGTGGACCATATCCCTCT
GTGGCTGGAATATGGACCAGGGTCTGAACAGCCATCCCTGGGTACTGGGGTGAACCTATGTGAAGAACCTCTG
ATGGTTAGTGAGATGGTATCCAGCCCCCGGACTTCAAGTTCACACGACGTGTCCCTTGGGTTCATCATCCACCC
AGGGTTGGTGGGAGGCATGTGTGCCACCCCTCTGTGGTTAGTGTTCACACCAAAATCTCTCATGTCTGATGAG
GAGGCCTGTGTGTAGGCCAGTGAATCACGCCTCTGTTCAGGGGTGTGGCTGTAAGCCATCCCCAGGAGCCTTTG
GCTGATGCTATGTTCCCCAGTGGGTCTCAGGGGACCACATCTCCTGGCCTAGCTGGGAATCTCCCTGGAGAACC
ATAGCAACTGGCATGGGCCAAAGTCAATGTGAGGTGGCCAATGGCATGGCTTCCCTTGCAATCCAGGTCTTAGAG
GCAGGTGGCCCTTTGACACATCCCTCTGGAACCACAGGGATGGCCCCCAGCCCTCTCTGGCTTCAGTGCCCAAC
AGACTGGCCGTGACTCAGTCTAATCTTTCCCTGAACAGCATGGACCCAGCAGCTCCCAGATCAGTGTGGTTATT
CCAAAAACATAGACTGCTGGCACCCCTCTGAGGCATCCATGGTCCCACCCAGTTACCAGCAGAGAGATGTGATT
CCGCAGGACTCTCTGAAGAGCAGGGCTGGTCTGTGGTGGCGCAGGAGGTTTGTAGCCAGTAGAATGAGCACGGGC
GCAGTCCCAGGCACCTCTGCTGGTGGCATAACCTCCAGCCTTCCCCCGGGCTCCACCATCCGAGGCATGGGTAC
AGCCTTCCCCGAGGCTCTGTGTCCAGTTGGGTGGCTCCCAGTCTGATGGCAGACAGAAAGAAGCAAGTCTATCT
GTAAGACCTCCGCTAGCTTAGCTGCTCAAACCTTGCTCCCAGGTTCAAGTAGTGAAGTCGGGTGAGCCAGTTGTC
CCCCCTGGTTCTGTGCCAATGATGGGGGCTCTAGTGTGGCTCAGAGCTGCTCCAAGGGGCCCATGGTGATTGACA
TCACTGCCCCCTCCTTACCTCAAAGCCTGGCTGGGGAGAGGTCTTTAGCCCCCTTGACAGATGCCCCACACCACAG
TCTGGCTCCAGGTCACTCCTCAGCCCCGGCAGCTAGTGGCACAGTGAAGAGTCTACACCGAGTGCCACGGTTCT
ATCAAGAGCCTTACAATTGAGCCAAGATGCTAGGATAATGCCATCTGGGGTCACAGGGGACCAAGCCAAGCTAGG
AGAATTGGATGAGGCTGTGTCCAAGTGTGAGGATCAAGTGGATCCAATGACCTATTAGCAAAGCCAGGGTCAAC

2889/5332
FIGURE 2527B

TGGTGCAACCCAGTGGATGTACTCCAGTCCTCTGGGAGCTGATGGGGGCCATGATCATAGGTCCCTGTCTGAGAA
AGGGTCTCTTCCCAAGGGAGGTGGCTCCCAGCCATGCTAGTGGCATGGTCCCTGTCCCTTTCCAGGCCCCGGGT
TTAGCCACTAAGTCCCCCTCAGTTTATCAACAGGGGTCTGTCACTCACGTCATACCCCCAAATCACTCTCAGGGT
ACAGTGGCTTCTAATGTAGTCTCAGGATCACCCAGCTGGCCCGTGGCAGTACTGAGGCTTTAGATTGCTTTCA
GTGTCTGTGGGCAGGATGGGGAATCCTAGTCTTCTTCAGAGGTGAGGACCACCAGCATGGTCTCACATGTGCCA
CTATATCCGTCCTCGGCTAGAAGGGCATTGTCCAGTCCCTTCCAGACAGAAGCTGTCCCCAATCCACTCCAGAAA
ACAGTGTCTGGAACATGGCTCCGAGCAGCCGCTGGGACGCCATGGGCCCTAAAAATTCTACAGATCCGTGCAT
GGTAGGATTGTTCCAGAACTGCTAGAAAGTTCTGTGGCCAGGGTTAGGCCCTTACAGTATGTGCAAAGACAACCA
TCCCAGGCCCTCAGCCCGAAGTGGTGCAAACCCACCCACAGGCCCTCTGCAGAGGTAAGGCCCGTCAATCCGCACT
GGGGAGATGACACACTCCTCGGTCAATTCCTCCGCTGGCCCCGGGAGTTTCGGAGGGTGTCTCTAGGCTATGAGTCT
TCCCAAGTGGTTCCCTGCCACCCCTTTTTAACCAGGAGTCACCGTGGAGACGGCAGGACTCCTATAGCCCCCAG
AATCCTGCCGTTAGTCACAAGGCATCCCTGAACTCCACTATACTCCAGGGCCCGCGGACGCTGGTGTGGTTGGT
GGCAATCGTGGAACCGCGCATGGGAGCCAGCCAGGGGTGCTGCGTCTGGGACACCTGGCGCAACAAGCGGGT
GTGCTCCCAGGCGGTCCGGGAGCCAATGGTGTCCATGCAGGCTGCAGAGGAGATCCGCATCCTCGCAGTGATC
ACTATCCAGGCGGGCGTCCGTGGCTACCTGGCGCGTGCAGGATCCGGCTGTGGCACCGGGGGGCCATGGTCATC
CAAGCTACTTGGCGCGGCTACCGTGTGCGGCGGAACCTGGCACACCTCTGCAGAGCCACCACGACCATCCAGTCT
GCCTGGCGCGGCTACAGCACCCGCGGGACCAAGCCCGGCACTGGCAGATGCTCCACCCCGTCACGTGGGTGGAG
CTGGGCAGCCGGGCGGGGTCTGTCTGACCGAAGCTGGTTCCAGGATGGCAGAGCCAGGACAGTATCTGACCAT
CGCTGCTTCCAGTCTGCCAGGCACACGCTTGACGCTCTGCCACTCCCTGAGCTCCAGGATCGGGAGCCCGCCC
AGCGTGGTGATGCTAGTGGGCTCCAGCCCTCGCACCTGTCATACTGTGGACGCACACAGCCACCCGTGTGGTG
CAGGGCATGGGCCAGGGCACTGAGGGCCCCGGGGCAGTGTCTTGGGCTCCGCCTACCAGCTGGCTGCCCTGAGT
CCCAGGCAGCCGCATCGCCAGGACAAAGCGGCCACAGCCATCCAGTCCGCCTGGAGGGGCTTTAAGATCCGCCAG
CAGATGAGGCAGCAGCAAATGGCAGCGAAGATAGTTCAAGCCACCTGGCGAGGCCACCATAACCCGGAGCTGTCTG
AAGAACACAGAGGCGCTCTTGGGACCAGCAGACCCCTCGGCCAGCTCACGGCACATGCATTGGCCTGGCATCTAG
GACCTGGCTCCCTGCAGTGGGACTTCGTGGGAGGCATCATGGCTCTCTGGGTCTAATGAATAAAGTCTCTCA
CAGCCT

2890/5332
FIGURE 2528

CCGAGGCTATAAGAGGGCGCACAAAGTGGCGCGGCGCAGGAGCCGCCAGTGGAGGGCCGGGCGCTGCGGCCGC
GGCCGGGGCGGGCGCAGGGCCGAGCGGACGGGGGGGCGCGGGCCCCCGGGAGGCCGCGGCCACTCCCCCGGG
CCGGCGCGGGCGGGGAGGCGGAGGATCGAAACACCCTTCTACGGCGATGAGGCGCTGAGCGGCTGGGCGGCGGC
GCCAGTGGCAGCGGCGGCAGCTTCGCGTCCCCGGGCGCTTGTTCCCCGGGGCGCCCCGACGGCCGCGGCCGGC
AGCATGATGAAGAAGGACGCGCTGACGCTGAGCCTGAGTGAGCAGGTGGCGGCAGCGCTCAAGCCTGCGGCCGCG
CCGCCTCCTACCCCCCTGCGCGCCGACGGCGCCCCAGCGCGGCACCCCCGACGGCCTGCTCGCCTCTCCCGAC
CTGGGGCTGCTGAAGCTGGCCTCCCCGAGCTCGAGCGCCTCATATCCAGTCCAACGGGCTGGTCAACCACCACG
CCGACGAGCTCACAGTTCCTCTACCCCAAGGTGGCGGCCAGCGAGGAGCAGGAGTTCGCCGAGGGCTTCGTCAAG
GCCCTGGAGGATTTACACAAGCAGAACCAGCTCGGCGCGGGCGCGGCCGCTGCCGCGCCGCCGCCGCCGCCGGG
GGGCCCTCGGGCAGGCCACGGGCTCCGCGCCCCCGGCGAGCTGGCCCCGGCGGGCGGCCGCCGAAGCGCCT
GTCTACGCGAACCTGAGCAGCTACGCGGGCGGCGCCGGGGGCGCGGGGGCGCCGCGACGGTCGCCTTCGCTGCC
GAACCTGTGCCCTTCCCGCCGCCGCCACCCCAAGCGCGTGGGGCCGCCGCGCCTGGCTGCGCTCAAGGACGAG
CCACAGACGGTGCCCGACGTGCCGAGCTTCGGCGAGAGCCCGCGTTGTCGCCCATCGACATGGACACGAGGAG
CGCATCAAGGCGGAGCGCAAGCGGCTGCGCAACCGCATCGCCGCCCTCCAAGTGCCGCAAGCGCAAGCTGGAGCGC
ATCTCGCGCCTGGAAGAGAAAGTGAAGACCCTCAAGAGTCAGAACACGGAGCTGGCGTCCACGGCGAGCCTGCTG
CGCGAGCAGGTGGCGCAGCTCAAGCAGAAAGTCTCAGCCACGTCAACAGCGGCTGCCAGCTGCTGCCCCAGCAC
CAGGTGCCCCGCTACTGAGTCCGCGCGCGGGGCGCATGCGCGGCCACCCTCCCCAAGGGGCGGGCTCGCGGGGGG
GTGTCGTGGGCGCCCCGGACTTGAGAGGGTGCGGCCCTGGGGACCCCCCTCCCGAGTGTGCCAGGAATCA
GAGAGGGCGCGGCCCGGGGATTCCCCCCCCCGAGGGTGCCAGGACTCGACAAGCTGGACCCCTGCTCCCG
GGGGGGCGAGCGCATGACCCCCCGCCCTCGCGCTGCCTCTTTCCCCCGCGGGCCGCCCGTGTGACAAACC
CGCGCGTCTCGGCTGCCCTTTGTACACCGCGCCGGAAGGGGGCTCCGAGGGGGCGAGCCTCAAACCCTGCC
TTTCCTTTACTTTTACTTTTCTTTTCTTTTGAAGAGAGAAGAACAGAGTGTTTCGATTCTGCCCTATTTAT
GTTTCTACTCGGGAACAAACGTTGGTTGT
AGAAAAAAAATTCTCCGCCCTTTCTCGATCTCGCTCCCCCTTCGTTCTTTTCGACCGGTCCCCCTCCCTT
TTTTGTTCTGTTTTGTTTTGTTTTGCTACGAGTCCACATTCTGTTTGTAAATCCTTGTTTCGCCCCGTTTTCTGT
TTTCAGTAAAGTCTCGTTACGCCA

2891/5332
FIGURE 2529

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCGCGCCGTTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAACCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCCGGGGCAGGGCGTGTCCTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTCTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTTCAGGATTAAGCGATTCTGGACAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTGG
ATGAAAACCTGGAATAAAATCAGGTACAACCTCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATTGA

2892/5332
FIGURE 2530

CAGCGGCGGGCGGCGGAAGTGGCCGGCGAGCCCGGTCCCCGCGGGCACCATGCTTCCCTTGTCACTGCTGAAGACG
GCTCAGAATCACCCCATGTTGGTGGAGCTGAAAAATGGGGAGACGTACAATGGACACCTGGTGAGCTGCGACAAC
TGGATGAACATTAACTGCGAGAAGTCATCTGCACGTCCAGGGACGGGGACAAGTTCTGGCGGATGCCCCAGTGC
TACATCCGCGGCAGCACCATCAAGTACCTGCGCATCCCCGACGAGATCATCGACATGGTCAAGGAGGAGGTGGTG
GCCAAGGGCCGCGGCCGCGGAGGCCTGCAGCAGCAGAAGCAGCAGAAAGGCCGCGGCATGGGCGGCGCTGGCCGA
GGTGTGTTTTGGTGGCCGGGGCCGAGGTGGGATCCCGGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGA
CAGGCGGGCAAACAGTGAGCGCCCCACCCAGACCGGCTGCTGCGCCCCCTCCTGCCAGGGTGGCGATTCCGCTCCA
CAGTCTCGGACGGATCTGCTCAGAAAGGAAGAGGCAGGCGCCAGGGGGAAACCCCTTCGTGTTTTGTGACCCCTCC
CTTTTAGGTGAAGCCCCTTTTTCTTGCTAAAACCGCAATTCTCCGGTTAGAAATGTTACTTGGTGTTTTTTGGT
TTTGTGAAACGGCCGTCCCAAACTGGCTGGATTCTAGAAAGAGTCTGTGTTGAAGGCATCTTCAAGCCCTCGC
TCTGGTTCTCAGGGCAGCATTTCCAGGCGGGTTGTTTTGCATTTCTTGGAGCCTCTCCGAGCAGCAACCAGAC
GGGAGATTTTTATTTTAAGCTGTTATGCTGGGACTGACAGCCTGCAGGGTTTCCTTGGGCGGGCCCCAAAATT
GCCTTCAAAACAAACCCGGGACGGTTGAAAGCCTTCGAACCGTGCAGGGGATGCCTCGGGCCCTGGCCCTTCGCT
TCCTCTCTTGTTATGGAAATAAAAACAAATAAACTACA

2893/5332
FIGURE 2531

GCTTTGTTTTTATAATCCGGATTAAATTTCCCTTCCCTGGGCACAAGTGCCTCATGAGGGCCCGGGGCTGCTGGT
TGGGAGGGAAAGCATCCCCGTTTTTGCAGTGAGGAGGCCGCCGAGGGCTGGGGTTCCACTTAGACCCCTTGGCAG
AATGGGCTGTTGAGGGGCAGGCGCTGCCAGTGCCACGTCTGGAAAGCTAATTCCCGGGTGGACGCTGAACATAC
CTGCTGAGAGACTCTGTCCCCTGGTTTTCCAGGACAGTTGTCACAAGCTGAGTGGGGGGGGACTCCCAGGACTTGA
GGGACCCAGTCCCACCCCAAAGTCTCCCCCTCCCCCAAATTCCCTTTCTCCTCCTGCTCTTTCTCCCCGCTGTG
CCTCCCCAGTTACCCACAGAAGTGCCTGCCTCTCCAGCGCTCACAGAACACACAAAAGGGACAGGAATTGGTC
ACTGGGTAGTGGCCGTGGCTCCTGACGATCCAGACCAGCGTCTGGCCCAAGCCATTGAGAGGTGGGGTCTGGGGC
CTGGGGGTTTTGTGTCGTGACACTTTGTCTCAAGGAGATTCCACATAGGGATTGAATTAGGCTTTCTGCTTGCC
AAGGCCTGTGGCATCTGAGCCTGGCTGAGGGCCGGGCAAGCCTCCCTGAGCCTTTGGAAGCCGAGTTCACCTC
TGCTGCCCAGGGGAGCACCGGCTTGTTCTGGGGGCTCCTCTAACATCTCAGGTTTTTATCTTGTCTTAAATTT
CTTTCTAGGAAAAACCCCTTCCCTGCCAAAGGTGACTGTGTTTTCTGCCGCCGAAGGAGGGCCCGGTCCCTCCAG
GCTCAGTGTGGCTTCTCCCTGACCCCCGCCCTAGAACTTTTGCCAGTGCCTTTTCTGAAACTCCTGTGTCCCGGG
CCCCCAGGCGGAGAAGGATATGCCGGATTCTGCCTGGGGCTGGGCTCTAGGAGACCCCAAATTTGACACCACAG
AAAGCAAATAAAACACTTGAAATACGC

2894/5332
FIGURE 2532

GCAACCTGCACAGCCATGCCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTGGAACACCGACCTCGTCCCGGGCCCTGCAGTCCGGATACTCACGCCAGAAGTGCGGCTG
GGATCCGGCGGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCCCGCCGCTCGCAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGGCCGCAAGCCGCCAGGGGGCGCCGAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTCCGCTG
GAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTCCCCG
AGCCAGTTCCGGGCGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAGACCGACACCGGGGTGTGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATTGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCGATTCTGCCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAAGTGTGTATTTATTTAAACTCTGGTGATAAAAAATAAGCTGTCTGAACTGTT

2895/5332
FIGURE 2533

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCGCTGCCGCCGCCGCCGCCGCCGCTCTGGAG
CTCCCCCGCGCGGACGATGCCCTGCCGTGCCCGCTGGGGCTCGGGGCGGTGAGGCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGCCCGCTGACAGGTGTGGGCCCCGGCGGCCGCCGCTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTCCGGCCGTGCCCTCCGACAGCCAGGCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCAGAAGTCAGCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAATCAC
GCTGGGGGAGCCCCCTGGGTTCCTGCACTCCTGGTGGTGGCTCTTCTGGGACCTGTACTGCGCGGCCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGCGAGGCCAAGGCCTCCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCG
CTCCAGCCGCTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCAACTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACATCATGCC
CTACTCCTCCTCATCCCCGGCAGCTACACCGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCCGAGGGGCCCATGGCCGCGATGAGCGCGATGGAGCCTCACACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTGCCGAAGAGTTCCCCCGCGCGCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTGTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAATAAACGCAAGGACCTCAGAGACGTTCTTTCTGTATG
GACCCTTCCTGCCATTTGTATTTGTCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGTTTTTGGT

2896/5332
FIGURE 2534

GAC TTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGACGCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTTGTGCGGCCTCGAACC GGCTCCAGACGTTGGGCCCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGACGCTTTTCTCCGGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCGCCGCTGCCTGAGTCGACTCTGCGCCGCCCGCCGCGCATGGAGGCCGCCGCCAGTTCTTCGTGCA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCGTCAGCCGCA
GGGTGGCGTTTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCGGCAGGTGCCCCGGCTCGG
GGTCATGCTTGTGCGCTGGGGCGGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACC GTGAGCCT
GGGCTTGGACGCCGAGGGCCAGGAGGTGTTTCGTACCTTTCAGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTCGATGGCTGGGACATCTCGTCGTGAACCTGGCCGAGGCGATGCGGCGCGCAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGCGCGCACATGGAGGCCCTGCGGCCCGGCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACGAGAGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGCAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGCAGAACCCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCCTCATTGGCTCCGGCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGCTCTATACGCCCCGCGCAAGAGCCTGACCACTGCGTGGTCAATCAAGTA
TGTGCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCGAGCCGAGACCTTCCACCCCGTGCTGTCCCTGCT
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCCCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCGCTGCCCCCAGACCTACCTTGAAGGCCCCCACAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCTGTGACCTGA

2897/5332
FIGURE 2535

GATGGTGCACCAAGATGCGCGCGCTGAAGGAGGATAGGAGCTACGGGCTGTCGTGCGGGCGGGTTAGCGACGGCAGC
AAGGTGTCGGTGTTCACAGTGAAGCTCACCGACAGTGCCTGAGGGCCTTCGAGAGCTACCGCGCCAGACAGGAT
TCTGTTTCACTGAGGCCATCTATCCGATTCAAGGAAGCCAAGGGCACATCTCCATCCCCAGCCTGACTGCCCC
GCAGAGGCGCGGACGTTCTCCTTCTACCTCTCCAACATCGGCCGCGACAACCCCCAGGGCAGCTTCGACTGCATC
CAGCAGTATGTCTCCAGTCATGGGGAAGTTCACCTGGACTGCCTGGGCAGCATACAGGACAAGATCACGGTGTGT
GCCACCGACGACTCCTACCAGAAGGCGCGGCAGAGCATGGCCCCAGGCGGAGGAGGAGACGCGGAGCCGAAGTGCC
ATTGTTCATCAAGGCTGGAGGCCGCTACCTGGGCAAGAAGGTTCAAGTTTCGGAAACCAGCCCCAGGTGCAACAGA
GCGGTGCCCTCCCGGAAGCGGGCAACCCCCATCAACTTGGCGAGTGCCATCAGGAAGAGTGGTGCCAGTGCCGTG
AGTGGGGGCGAGCGGGGTGTCCAGAGGCCCTTCCGTGACCGAGTGCTGCACCTCCTGGCACTACGGCCCTACCGC
AAGGCTGAGCTGCTGCTGCGACTGCAGAAGGACGGCCTGACGCAGGCGGACAAGGACGCGCTGGATGGCCTCCTC
CAGCAGGTGGCCAACATGAGTGCTAAGGACGGCACGTGTACACTGCAGGACTGCATGTACAAGGATGTGCAGAAG
GACTGGCCTGGCTACTCGGAGGGGGACCAGCAGCTGCTGAAGCGGGTGCTCGTCCGGAAGCTGTGCCAGCCACAG
AGCACTGGCAGCCTCCTTGGAGACCTGTGCTCCAGCCCCCAGGCGAGCGTGGCGGATCTCGGCCTCGCCCCCA
CAGAAGCGGCTGCAGCCTCCTGATTTCATCGACCCCCCTAGCCAAGAAACCCCCGATATCGCACTTCACTCAG
AGAGCTCAGCCTGCCGTCAACGGGAAGCTGGGCGTGCCCAATGCCCGTGAGGCTTGCTGCCACCCCCGGGCCA
CCAGCCAGCACGGACACCTCAGTCCAGCACTCACCTGATCCCCGCGGCTGAGAGCCCCGAGGGCCCCACGACCCC
CTGGCCGATGTACAGCAATGACCTGGGCCACAGCGGCCGAGACTGTGAGCACGGAGAGGCGGCTGCCCCAGCCCC
ACTGTGCGCCTCGGCCTGCCCTGCTGACGGACTGTGCCACGCCAGCAGGCCACACGGCAGCCCTCGCGCAGC
AAGCCCCAAGAAGAAGTCCAAGAAGCACAAAGACAAGGAGAGGGCGGCTGAGGACAAGCCCCGGGCCAGCTTCCA
GACTGTGCACCTGCCACCCATGCCACCCCCGAGCCCCAGCAGACACCCAGGTTTAAACGGAACCTGCAGCGTT
TCCAGTGTTCCACGTCCACGTGCGAGACGCTGACTACTTGCTGAAGTACGCAGCCATCTCCTCTTCGGAGCAG
CGCCAGAGCTACAAGAACGACTTCAATGCCAGTACAGCGAGTACCGCGACCTGCACGCCCCGATTGAGCGCATC
ACGCGGCGGTTACCCAGCTCGACGCCAGCTCCGGCAGCTCTCCAGGGCTCCGAGGAGTATGAGACTACTCGA
GGCAGATTTTGCAGGAATATCGAAAAATCAAAAAGACCAACACCAACTACAGCCAGGAGAAGCACCGCTGCGAG
TACCTGCACAGCAAGCTGGCCACATCAAGAGGCTCATCGCCGAGTACGACCAGCGGCAGCTGCAGGCTTGGCCC
TAGCCGCCCTCCCCGATGCGGGGATCTGGGAGGGTCGGGGGAGCAAAAGGCGGTGAGAGAGGATTTATTTAAAA
AAATAAAACCCGAGGAAGATGCTCATCTGAGCCAGCACCGCCGGCTTTTCAAGGCGAGCCCCTGCAGACGCTTGGCCC
TGCGGGGTGGCTGCAAGCCACCTCGGCCCTCCTGCGCTTCTTGAGCAGTCCCTGCTTATGATGGGCTCCCCAG
GAAGCCCACTGCCTCCTCCCTGGCTGCAGCCTCCGGGGTTACGCCTCCTGTCTCGCCAGAAGACTCCTAGGCCCT
TGGGGTGGCGCGCCTGCCTTTTCTAGTTTTATACAAAGACAGCCACTTTTAGCTACTGCTAATGAGACTTGAGTC
TATTTTGTACAAAAGAGAAGCAAAATCTTTTTCTAAACCTGTGCCTCCCTCTCCTCGGACACCCAGGGTCTAG
CCGCTGCCCTGGTCTCCTGCCTGCAGTATTACAGAGGTCGTGAAAGGTGCAGCTGCGTCTTGAGGGCGTGGGGAA
TGGGCAGGTGGCCTCTGCTGGTCTCTGGCTCTACGTTTAGGCACCCCTTTCCCAGCCTCTCCTCCTTGGGCAGG
GTCTCTGCTCCAGCAAGCAAAACAGGGTGGCCCCAGGTGGCTATTTTGAGAACTCCAGCTGGTGGCCCCCAGCAGCT
GCTCAGTCCAAAGGGGCGACAGGGCTTTCAGCGCCCCAGGCCTGCCCTGCTATTTTCAAGCCCTCAGCTGTCTGGG
GCCACTGTGTTTTCTGTGCTCCAAGTTTGAGACTCGGCCGACGCGCGCTCAGACTTTTCTTTGCGATGTCTCGGT
TTCCCATTTGTTGCTGCTGCTGCTCATTCCACACTGTTGAGACCTTGTGGTCTCGATGCTGCTGGCCTCCCTCCG
TCCCTCTGTCCACTTGTGGGTCTTGGGGTC

2898/5332
FIGURE 2536

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCTTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTCACTCTGGGTGACTGTGACGTCATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCACTACCA
GCGGGCGGACTTCGTCCTGGCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCCGCAAGGGCAAGGTGCTGGCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGAGAGCTCTCAAAGCTGGTGAAGAAGCATCGGGCGCAGCGGAG
CACGGAGACCGCCTTGTACCGGAAAATGCTGGGCAACCCAGCCGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAACTGACCACCTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGCAGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCAGAGGGAGGGGGCCCTCATTCTTC
AGACCCAGTTTTCCCCACCCCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCCTCAA
CAGGCCTGGGGGAGCCCTTCCCTGCCTAGTCCCCGCTGAGTGCCAGCCCCCACCCTGCGCCGCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAATAAAGCATCCCACCTGC

2899/5332
FIGURE 2537

ACGCACGCAAGCGGCTCCAGGGTACGTCCCCGCCACGCGCGCTCGCAGGATCGGTGCGTGGTGACGTTTCGCCGG
CGCGGGCGCCATCCCGGAAGCGCGAGCAAGGCCGCCAGATGTGCAGGCAGCGGAGGAGGAGAAAGAGATGGACCT
CCCGGACTCGGCCTCGAGGGTCTTCTGCGGCCGCATCCTGAGCATGGTGAACACAGATGATGTCAACGCCATCAT
CCTGGCCCAGAAGAACATGCTGGACCGCTTTGAGAAGACCAATGAGATGCTGCTCAACTTCAACAACCTGTCCAG
TGCCCGCCTGCAGCAGATGAGCGAACGCTTCTGCACCACACGAGGACCCTAGTAGAGATGAAACGGGACCTGGA
CAGCATCTTCCGCCGTATCAGGACGCTGAAAGGGAACTGGCCAGGCAGCACCAGAGGCCTTCAGCCATATCCC
AGAGGCATCCTTCTGGAGGAAGAGGATGAAGACCCCATCCACCCAGCACCACGACCACCATTGCCACCTCAGA
ACAGAGCACGGGCTCATGTGACACCAGCCCCGACACCGTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTC
CCATGTCCAGCCTGGCTCCCCAGCCATCAACGGCCGCAGCCAGACAGATGACGAGGAGATGACGGGCGAATAGCC
CTGCTGCCCCGGTGCTTGAGGGGGTCTCAGGGCAGCAGCATACAAGGTGGCAGCGGGTAACCCTGCCTTGTTCTG
TCATCCAGGGCTCCTTTGCTGCCCCGTTCTGTACCCAGGGCTCCTAGGGGGACAAGGCTCTCTCCCGAGGGGTG
TGGAATTCCTGGGGGGGTCTTTAATTCTGGCTCCTTCCTTCCTCAGAACATCTCTATTCTGCAAGACCCCTCTGC
CATGCCAGGGCACGCCCATTCAGCTGGAGTCGTGGGGCTGGGCACAGGGGAATTTTCCAGAGCTGAGCCTGAC
GTCTGCTCTGAAGAATGCTTAGAAGGTTCCAGACACCAGAGCCAGATGTCCCCACCACCGGTGAGACCTCCT
TGAGGTGCACAAGCACGGTCTCCTCTGAGTTCACCCAGCCACCCCGCACCCACTAATTCTGCTTTTCTGCTGCC
CCTTGCTCCGTAAAAGTATCAAATACTTTCTCCTTGGTATCTCAAGGAGGTTTCTGAGATAGGTAGAAGTCTTGA
GACGGAGGCTGGCCATCCATTCAGCCCTGAGCGTGCTGAGTTCTGTGTTTCTCTGAATAGAGGTGTGGAACCTGA
GGGGCCAGCAGGCCTCTCTGAAGGCCTCCATGGAGCAAACGGAGCCACCTCGGGAAAGAGTTTAATGGAATATTT
TTGTACCCGATGTTTACAGATGCTGTTGGGAAGTTATCAATAAAAAGACACCATTACTAAAAAGGG

2900/5332

FIGURE 2538

TTCTTTTCTTCAGCGAGGCGGCCGAGCTGACGCAAACATGCAGATCTTTGTGAAGACCCTCACTGGCAAAACCA
TCACCCCTTGAGGTCGAGCCAGTGACACCATTGAGAAATGTCAAAGCCAAAATCAAGACAAGGAGGGTATCCCAC
CTGACCAGCAGCGTCTGATATTGCCGGCAAACAGCTGGAGGATGGCCGCACTCTCTCAGACTACAACATCCAGA
AAGAGTCCACCCTGCACCTGGTGTGCGCCTGCGAGGTGGCATTATTGAGCCTTCTCTCCGCCAGCTTGCCCAGA
AATACAACCTGCGACAAGATGATCTGCCGCAAGTGCTATGCTCGCCTTCACCCTCGTGCTGTCAACTGCCGCAAGA
AGAAGTGTGGTCAACCAACAACCTGCGTCCCAAGAAGAAGGTCAAATAAGGTGGTTCTTTCCTTGAAGGGCAGC
CTCCTGCCCAGGCCCGTGGCCCTGGAGCCTCAATAAAGTGTCCTTTCATTGACTGGAGCAGCA

2901/5332
FIGURE 2539

AGTCATGATCACCGAGACCGCGGCGGAGCCTACGGTCCCTGCAGTGCCTGCTGCTGAGGAGGCCACCGAAGCTCG
GGGACGCGAGGAGCCGGCGTGGCCCTGGAAAGACGCCCCGATCCGGACGCTGGTGCAGCGCATCCACCAGCTGCA
GGCTGAGCGCGCGCAGGGCTTCCGCCGACTGGAGGAGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGGGGCG
CGGCCTCAGGGTCCCCACATGCCGCAGAGGCCACCGCCAGTACCTGCGCAGCGGCCCTGACTACGACTTCGCGCG
CTACCGGAGCACAGTGCACGGGGTGACCCAGGCCTTCGCCGCCGCTCGCGGGAGGTGCTGGCGGTGGAAGCAGA
GCTGGGCGGGCCTCGCAGGCAGCCGCTGCTCGCCGGCCACGTGCGCAGCCTGCAGGAGCTGGAGCAGACGCGGCT
GGGCACGGTGGCCCTGCTGCAGTTGATGGAGACGCCAGAGCTGGCGGGGCAGGAGGACGCTGTACGGATGCAGCA
GCTGAAAATGAAGGTAATTTAAACCATGGAGGCGATCAGCGAGGTTCTCCAGGACCTTAGGTTTGTATGCGGAATC
TGCCGAGTGAATGGCGGCTCCCCAGGGATGCGCCGAGGGAGATGGGAAACGGGGCGGATGGCGCCAGCCCAGCCC
TAACTGCCAGCTGGCTGGGGTTGCGCCCCACTGCGCTGCTGACCTTCCTGCAGTTCCAGACACCTCCCACAATAA
AGAGCTCCTCCTCTGT

2902/5332
FIGURE 2540A

AGCGGCTGGCGGCTTCGAGGGGAGCTGAGGCGCGGAGGGGCTCGGCGGCAGCGGGCGGGCTCGGCACTGTTACC
TCTCGGTCCGGCTGGCGCCGGGGCGCGCGTTTGGTCCTTTCCGGGCGCGCGGGGGCGACAGCGGCAGCGACCCG
AGGCTTGGGCTTAGGCTCAGCGCGGCGGGGCTCGAGTGCAGCGCGGAACCGGCCGAGGGCCCTACCCGGA
GGCACCATGAGCGTGGAGGCGTACGGGCCAGCTCGCAGACTCTCACTTTCTTGACACGGAGGAGGCCGAGCTG
CTTGGCGCCGACACACAGGGCTCCGAGTTTCGAGTTACCGACTTTACTCTTCTAGCCAGACGCAGACGCCCCC
GGCGCCCCGGCGGCCCGGGCGGTGGCGGCGCGGAGGCCCGGGCGCGGGCGCGGGCGCTGCGGCGGGACAG
CTCGACGCGCAGGTTGGGCCGAAGGCATCCTGCAGAACGGGGCTGTGGACGACAGTGTAGCCAAGACCAGCCAG
TTGTTGGCTGAGTTGAACTTCGAGGAAGATGAAGAAGACACCTATTACACGAAGGACCTCCCCATACACGCCTGC
AGTTACTGTGGAATACACGATCCTGCCTGCGTGGTTTACTGTAAATACCAGCAAGAAGTGGTTCTGCAACGGACGT
GGAAATACTTCTGGCAGCCACATTGTAAATCACCTTGTGAGGGCAAAATGCAAAGAGGTGACCCTGCACAAGGAC
GGGCCCTGGGGGAGACAGTCTTGAGTGTCTAACAATGCGGCTGTGCAACGTTCTTCTCTCGGCTTCATCCCG
GCCAAAGCTGACTCAGTGGTGGTGTCTGTGTGCAGGCAGCCCTGTGCCAGCCAGAGCAGCTCAAGGACATCAAC
TGGGACAGCTCGCAGTGGCAGCCGCTGATCCAGGACCGCTGCTTCTGTCTGGCTGGTCAAGATCCCCTCCGAG
CAGGACGAGCTCGGGGACGCCAGATCACGGCACAGCAGATCAACAAGCTGGAGGAGCTGTGGAAGGAAAACCT
TCTGCCACGCTGGAGGACCTGGAGAAGCCGGGGGTGGACGAGGAGCCGAGCATGTCTCTGCGGTACGAGGAC
GCCTACCAGTACCAGAACATATTGCGGCCCTGGTCAAGCTGGAGGCCGACTACGACAAGAAGCTGAAGGAGTCC
CAGACTCAAGATAACATCACTGTCAAGTGGGACCTGGGCCTTAACAAGAAGAGAATCGCCTACTTCTGACTTTGCC
AAGACTGACTCTGGTAATGAGGATTTAGTCATAATTTGGTTAAGAGACATGCGGCTCATGCAAGGGGAGTGATA
TGCTTGGGTACAAAGGGGACCTTGCGCCCTGTGGAAGGGATCGGCCACGTATCAAGGTCCCTGATAATTAT
GGCGATGAGATCGCCATTGAGCTGCGGAGCAGCGTGGGTGCACCTGTGGAGGTGACTCACAACCTCCAGGTGGAT
TTTGTGTGGAAGTCGACCTCCTTTGACAGGATGCAGAGCGCATTGAAAACGTTTGCCGTGGATGAGACCTCGGTG
TCTGGCTACATCTACCACAAGCTGTTGGGCCACGAGGTGGAGGACGTAATCATCAAGTGCCAGCTGCCAAGCGC
TTCACGGCGCAGGGCCTCCCCGACCTCAACCACTCCCAGGTTTATGCCGTGAAGACTGTGCTGCAAAGACCACTG
AGCCTGATCCAGGGCCCGCCAGGCACGGGAAGACGGTGACGTGCGCCACCATCGTCTACCACCTGGCCCGGCAA
GGCAACGGGCGCGGTGCTGGTGTGTGCTCCGAGCAACATCGCCGTGGACCAGCTAACGGAGAAGATCCACCAGACG
GGGCTAAAGGTCGTGCGCCTCTGCGCCAAGAGCCGTGAGGCCATCGACTCCCCGGTGTCTTTTCTGGCCCTGCAC
AACCAGATCAGGAACATGGACAGCATGCCTGAGCTGCAGAAGCTGCAGCAGCTGAAGACGAGACTGGGGAGCTG
TCGTCTGCCGACGAGAAGCGGTACCGGCCCTTGAAGCGCACCCGAGAGAGAGAGCTGCTGATGAACGCAGATGTC
ATCTGCTGCACATGTGTGGGCGCCGGTGACCCGAGGCTGGCCAAGATGCAGTTCCGCTCCATTTTAAATCGACGAA
AGCACCCAGGCCACCGAGCCGGAGTGCATGGTTCCCGTGGTCTCGGGGCCAAGCAGCTGATCCTTGTAGGCGAC
CACTGCCAGCTGGGCCCAGTGGTGTATGTGCAAGAAGCGGCCAAGGCCGGGCTGTACAGTCGCTCTTCGAGCGC
CTGGTGGTGTGGGATCCGGCCATCCGCTGCAGGTCCAGTACCGGATGCACCCTGCACTCAGCGCCTTCCCA
TCCAACATCTTCTACGAGGGCTCCCTCCAGAATGGTGTCACTGCAGCGGATCGTGTGAAGAAGGGATTGACTTC
CAGTGGCCCCAACCCGATAAACCGATGTTCTTCTACGTGACCCAGGGCCAAGAGGAGATTGCCAGCTCGGGCACC
TCCTACCTGAACAGGAACGAGGCTGCGAACGTGGAGAAGATCACCACGAAGTTGCTGAAGGCAGGCGCCAAGCCG
GACCAGATTGGCATCATCACGCCCTACGAGGGCCAGCGCTCTACCTGGTGCAGTACATGCAGTTCAGCGGCTCC
CTGCACACCAAGCTCTACCAGGAGGTGGAGATCGCCAGTGTGGACGCTTTTCAGGGACGCGAGAAGGACTTCATC
ATCCTGTCTGTGTGCGGGCCAACGAGCACCAAGGCATTGGCTTTTAAATGACCCAGGCGTCTGAACGTGGCC
CTGACCAGAGCAAGGTATGGCGTCATATTGTGGGCAACCCGAAGGCACTATCAAAGCAGCCGCTCTGGAACCAC
CTGCTGAACCTACTATAAGGAGCAGAAGGTGCTGGTGGAGGGGCCGCTCAACAACCTGCGTGAGAGCCTCATGCAG
TTCAGCAAGCCACGGAAGCTGGTCAACACTATCAACCCGGGAGCCCGCTTCATGACCACAGCCATGTATGATGCC
CGGGAGGCCATCATCCAGGCTCCGTCTATGATCGGAGCAGCCAGGGCCGGCCTTCCAGCATGTACTTCCAGACC
CATGACCAGATTGGCATGATCAGTGCCGGCCCTAGCCACGTGGCTGCCATGAACATTCCCATCCCCTTCAACCTG
GTCATGCCACCCATGCCACCGCCTGGCTATTTTGGACAAGCCAACGGGCCTGTGCAAGGGCGAGGCACCCGAAA
GGCAAGACTGGTTCGTGGGGGACGCCAGAAGAACCGCTTTGGGCTTCTGGACCCAGCCAGACTAACCTCCCCAAC
AGCCAAGCCAGCCAGGATGTGGCGTCACAGCCCTTCTCTCAGGGCGCCCTGACGCAGGGCTACATCTCCATGAGC
CAGCCTTCCCAGATGAGCCAGCCCGCCTCTCCAGCCGAGCTGTCCAGGACAGTTACCTTGGTGACGAGTTT
AAATCACAAATCGACGTGGCGCTCTCACAGGACTCCACGTACCAGGGAGAGCGGGCTTACCAGCATGGCGGGGTG

2903/5332
FIGURE 2540B

ACGGGGCTGTCCCAGTATTAAAAGGTGGCGGCGGAAGAGCTAAGCAACGTGGCTTAGTCCATCAGCATCTTATTC
TGGGTAATAAAAAATAAAAAATAACGGATACCTGTTTTCCACTGCTAAACTGAAGCACCAGTGTGTGAGCAACA
GGAAGGGAGAGCGCACGAGGGAGAGGAGCCGAGGCCGAGCGCCCCCTGCTGGCCCGCGGCGGCGAGGAGCAGAGG
GAGCGGAGGAGGGGCCGCCGCGGGAGCCGCGGCCACCAGGAGGCCCGCTCCGTCCCATCGGGGCTGCGGCCA
GGGCGGAGGGAGGAAGACCCCTCATCTCAGAGTAGCCCTTTCTCTGTTCTTTTATTTCTTTTTCTCTTTGATTGA
AAGGGGACTACGTCTTAGCAGGAAAAAACTTCGCATTTCTGTGCCCCGAGCAGGCTCCTTGCAAAGACAGCAGC
GTGCGGGGAGAGCCCCGGGAGGGCGCGTCTGTCCACGCCTACCGGACGCGCGAGGTGCGCTGCCTGTGTTCT
CCGAGGGCCTTCATTTAAAGAAAATAAGGGTGTGTTGGGTTTTCTCTTTGTTTTTTCAAGATCTTTTAAAGG
AGTACTGAAGAATACTTTCCTAAGTTTGTCTGTAAAATCTTAGCGGTGGACCTGGGAGATTGAGAAGCTTCCAG
AAACAGTTTTAAACAAGCCAGCGCTACTGGAGAAGAGGAGCAACACCTGTGCCGCGGCCGAGGAGTTTTGTTGTT
GGTTTTAGCTTCCAGTGGCTTCTTTCTGCGGGGCATCAGGCTGCTGGGGTAGCCGCCCGCCGAGCCTGGAAGCTG
CTCGTTCTCCGCTGGACTCAGAAGCCAAGCTGCTTCCCGCCTAGACTCGGCGCAGGGCCCCGCACCGGTGAGGAA
GGTGCTTTTGGCCCCATTGCGAGGGGCCTTGGCCAGGACTGGCCCTGTGGCCAGGAGGCGAGAAGGTGGCTGTTT
CCGGATTGACGGCTTTTCCCGGGGGCCTTTGGAAGATTTGGTGGAAGGACAAGAGGGCCTGTCCCTGTCCCGT
CCCCAGGAGGTACCGACAGTCCCTGTGCTGGTTAGACACGGAGCGCTGCACACCGAAAGCCCAAATTGGGAGCTC
TGCTTCCGGCAACTTTGCTGATGGGGTGATTGCTGCTTCTGGGGGTAAGGAAACAAGTTACAGAAATTACCGC
GTTCTGTGTGAAGGGACTGAGGGTGTGGTGTATTGGCAGAGGGTCATTTAGGAGAGCTGCCCCAGCCCTCGA
ACGCCTGGCTTGGGGTGTCACTTCTGCCTGGCGGCCAGGCCTCCAGCTTCCCTGCCCCGGGCTGGGGCTGTAC
TGGCCTGATCCGAACACCTCCAGATTCCGGCTTCTACATGGGACAGACGGGGACGCACAGGCCACCTTCCTTCT
GGCAGGGACTCTTATTTATTCCATTGCTCTAGGGCTTTGCGTTTTCCCTTCTTCCGGTAGGCCGCGTAGAGGCA
TGCACCGGGTAGGTTTCCGCGGTGACCCCGCGGCGGCCTGAGGGACGCTCCCTGCCCCATCCCGGCTGTTGGGCT
GGGCGCTTTGCCTCTGCTTCGCCCTGTGCTGTGTTCTCCAGCTTTGTAGCAGCAGCCTTGACAAACCCAGGCGC
ACTGTACCAAGGCAATGTAACTTTTGATTTTCGGTCAATTTAAGTTCTTTGTACCAATATTAATAACAGTT
TTGACTTC

2904/5332
FIGURE 2541

GGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCCGGCCCGGCCTCCGGCGGCTCCGGGGAGG
TAGACGAGCTGTTTCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAACGAGGCGCAGCGGG
TGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCTGTATAGAGCGTACCTGGCGCAGAGGAAGT
TCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATGTTTGCTGACTACC
TCGCCCACGAGAGTCCGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGCGTGGACGTGACCA
ACACCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCCCTGCGTGCGCTGC
ACCAGGGGGACAGCCTGGAGTGACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGCCTGGACCTCGCCC
GGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCAGCTCGCCACTGCCTGGGTGAGCC
TGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAGTGCTCGCCACCC
TGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAGGGCCTGCTGCAGG
AGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCCAGCACCTGGGCAAGC
CCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCACAGGTCCCATCCCTTCATCAAGGAGTACC
AGGCCAAGGAGAACGACTTTGACAGGCTGGFGCTACAGTACGCTCCCAGCGCCTGAGGCTGGCCCAGAGCTGTCA
GGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCACCTGCATCCCCTC
TGGGGGCAGGAGCCACCCCCAGCACCCCATCTGTAAATAAATATCTCAACTCC

2905/5332
FIGURE 2542

ACAAGCGGCCACAAGGATGGCAGGCTTCGCGGAGCTCGGGCTGTTCATCGTGGCTCGTGGAACAATGTCGGCAGCT
GGGTTTGAAGCAGCCCACGCCCCTGCAGCTCGGCTGCATCCCCGCCATCCTGGAGGGTCGAGACTGCTTGGGCTG
TGCTAAGACAGGCAGTGGGAAGACAGCAGCGTTTGTCTTCCCATCTTGCAGAAGCTGTCTGAGGATCCCTATGG
CATCTTCTGCCTCGTCTGACACCCACCAGGGAGCTGGCCTACCAGATCGCAGAGCAGTTCCGGGTCTTGGGGAA
GCCTCTAGGGCTGAAAGACTGCATCATCGTTCGGTGGCATGGACATGGTGGCCCAGGCGCTGGAGCTCTCTCGGAA
ACCACACGTGGTCATCGCCACGCCGGGGCGCCTGGCAGATCACCTGCGCAGCTCCAACACTTTTAGTATAAAGAA
GATCCGCTTCTTGGTGATGGATGAGGCAGACCGGCTGCTGGAACAGGGCTGCACTGACTTCACCGTGGACCTGGA
GGCCATCCTGGCGGCTGTGCCGCCCCGAGGCAGACACTGCTGTTCAGCGCCACGCTGACCGACACACTCCGGGA
GCTGCAGGGTCTGGCCACCAACCAGCCCTTCTTCTGGGAAGCACAGGCCCGGTGAGCACCGTGGAGCAGCTGGA
CCAGCGCTACCTGCTGGTGCCTGAGAAGGTCAAGGACGCCTACCTGGTCCACCTGATCCAGCGCTTCCAGGATGA
GCACGAGGACTGGTCCATTATCATCTTACCAACACGTGCAAGACCTGCCAGATTCTGTGCATGATGCTGCGCAA
ATTGAGCTTCCCCACCGTGGCTCTGCACTCCATGATGAAGCAGAAAGAACGCTTTGCCGCCCTAGCCAAGTTCAA
GTCCAGCATCTACCGGATCCTGATCGCAACAGACGTGGCCTCCCGGGGCTGGACATCCCTACGGTACAGGTGGT
CATCAACCACAACACCCCGGGCTCCCCAAGATCTACATCCACCGAGTCGGCCGGACGGCCCGTGCAGGGCGGCA
GGGTCAGGCCATCACGCTGGTGACACAGTACGACATCCACCTGGTGCACGCCATCGAGGAGCAGATCAAGAAGAA
GCTGGAGGAGTTCTCCGTGGAAGAGGCCGAGGTGCTACAGATCCTCACACAGGTCAACGTGGTGCAGAGAGAGTG
TGAGATCAAACCTGGAGGGCGGCCACTTTGACGAAAAGAAGGAGATCAACAAACGGAAGCAGCTGATCCTGGAGGG
GAAGGACCTGACCTGGAGGCCAAGCGCAAGGCTGAGCTGGCCAAGATCAAGCAGAAGAACC GGCGCTTCAAGGA
GAAGGTGGAGGAGACGCTGAAGCGACAGAAGGCTGGCAGGGCTGGCCACAAGGGGCGTCCACCCAGGACACCGTC
TGGGTCCCACTCAGGCCAGTCCCCCTCCAGGGCCTGGTCTGAGCCCCACACGGCCATCTGCCAGTCCCTTGA
CTCCATGGAGCTGAGGGTCGGAGGAACCTTCTTGGGGGCAGCAGCCCTTCCCGGGGGCTACCCAGTGGCCCA
CAGCAGAACCCGTGGGCGCTCGTGTGTGCGGGCCCTGCTCCTCTGCCCCGAAACCACTGGCTGGTCCCTTCCCT
GAGCCCTGGCCAAGATTGAGGCTGCAGGGGAAGAAAGAACATGACCGGGAGGTGTGACCCCAACCAAGGTCAC
CCCCAGGGGTGCCGCATACAGGAGGTGCTTAATAAACGGGTCTTTTGACTTCCTC

2906/5332
FIGURE 2543

GGCGCATGACTAGTTGGGGCCAAACCAGTGCTCCTGCCACCTCTCTGGCTGCCCCCTAGAGCCTGCCCATCCCAG
CCTGACCAATGTCCACAGCCAGGGAGCAGCCAATCTTCAGCACACGGGCGCACGTGTCCAAATTGACCCAGCCA
CCAAGCGAAACTGGATCCCAGCGGGCAAGCACGCACTCACTGTCTCTATTCTACGATGCCACCCGCAATGTGT
ACCGCATCATCAGCATCGGAGGCGCCAAGGCCATCATCAACAGCACTGTCACTCCCAACATGACCTTCACCAAAA
CTTCCCAGAAGTTTCGGGCAGTGGGCCGACAGTCGCGCCAACACAGTCTACGGCCTGGGCTTTGCCTCTGAACAGC
ATCTGACACAGTTTGCCGAGAAGTTCAGGAAGTGAAGGAAGCAGCCAGGCTGGCCAGGGAGAAATCTCAGGATG
GCGGGGAGCTCACCAGTCCAGCCCTGGGGCTCGCCTCCCACCAGGTGCCCCGAGCCCTCTCGTCAGTGCCAACG
GCCCCGCGAGGAAAACTGTTCCGCAGCCAGAGCGCTGATGCCCCGGCCCCACAGAGCGCGAGCGGCTAAAGA
AGATGTTGTCTGAGGGCTCCGTGGGCGAGGTACAGTGGGAGGCCGAGTTTTTCGCACTGCAGGACAGCAACAACA
AGCTGGCAGGCGCCCTGCGAGAGGCCAACGCCGCCGAGCCAGTGGAGGCAGCAGCTGGAGGCTCAGCGTGCAG
AGGCCGAGCGGCTGCGGCAGCGGGTGGCTGAGCTGGAGGCTCAGGCAGCTTCAGAGGTGACCCCCACCGGTGAGA
AGGAGGGGCTGGGCCAGGGCCAGTCTGGAACAGCTGGAAGCTCTGGTGCAAACCAAGGACCAGGAGATTGAGA
CCCTGAAGAGTCAGACTGGGGGGCCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAGGAGACTCAGCAGAAGGTGC
AGACCCGCAATGCGGAGTTGGAGCACCAGCTGCGGGCGATGGAGCGCAGCCTGGAGGAGGCACGGGCAGAGCGGG
AGCGGGCGCGGGCTGAGGTGGGCCGGGCAGCGCAGCTGCTGGACGTCAGCCTGTTGAGCTGAGTGAGCTGCGTG
AGGGCCTGGCCCGCCTGGCTGAGGCTGCGCCCTGAGCCGGGGCTGGTTTTCTATGAACGATTCCGGCCTGGGATG
CGGGCCAGGCTGCAGGCGGCATAGTTGGGCCCATTCGTCCTGGAAAGGACTGGGGGGTCCCAACTTAGCCCTGG
GTGGCCCGGGCCGGGCTGGGCTGGGGTGGGCCCCAGTCGGCTCTGGTTGTTGGCAGCTTTGGGGCTGTTTTGAG
CTTCTCATTGTGTAGAATTTCTAGATCCCCGATTACATTTCTAAGCGTG

2907/5332
FIGURE 2544

GGCCGGCACGGTGACTCACGCCTATAATTCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACGAGGTCAAGAGA
TCGAGACCATCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAATTAGCTGGGCGTGGTGCGG
GGCGCTTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCAGTG
AGCCGAGATTGTGCCACCGCACTCCAGCCTGGCAACAGAGCGAGACTCTGTCTCAAAAAAAAAAAGGAAATCCT
GGCTTTCTTTAAGCCACAGACTTCCTAGGCTGTGGTCCCAGCTCCTTGTCTGCCTGGTCCCTGTCACCTTGCAGT
GCCACCACCCCCAGGGGCTCTGCTTGCTTCCAGTGGCTTCTGTAGCTTTGGCAACTGGCAGATCTTTATGSCAGT
AGAGGTGCCAGCATGGAGGATGGAGTTTGGGTTTATAACCCAACCCTCGAACGAACCAGCCTGTGGGGGCTGGA
GTGGAGCTGGTTTTTGGGGAGTCACAGGTGCGGGGGGTTTATCTTCTCCTTTCTCCTTCTCCTTTTCTGACCCCTC
CGACAGCTTCCATGTTGGCCATGGGTCAGGTGAATGGATGGAGCTCCAAGCGGGGCTCAGCCCATTGACCCGAGC
GAGGCGCACACACCTGCAGCGTGGATCAAGCGCACTCTCTCCAGCATCGCCCTGACCATTCCATGTGCTTTGTCC
TAGCATGTTTCACTTCTTGACTTTCTCCACTTCATTTTATTAAAAAGTTAAATGCTTTAGGAATCTGTGGCGTGTGG
CCACTGACCGCCCCCACCTCCTGCCGCTCCTCCAAGTTTGAGCTGAGATGGTTCTGTGAGTCCTTGGCAGGGGT
CAAAGGGCACATCTCCTTGAACCTAGAAAGCCCCCTACACTCTCAGAGGACACCTCTCCTGTGGATTACAGCGCTG
GGGCAGTGAAGGTGTCGGGAGCCAGCAGAGCATGGTGCGTGTGCCAGCTGCCGGCCAGCCGGGATAGAGGAGAT
GCCACTGGCCCTCCGTGCCCCCAGCCCTCCCTCTTAACCGAGGCTGTCTTGCTCTCTGCAGAGGCCGCTCTGC
AGGATCCTCGTGTGCGCGTGTATGTGTGGTGGCACAGCCGTGTCAAAGTCACAGTGTCTTTTCTGTCTCTTAGT
TCCAGGGTCACCCCCGAGAGGACAACAGGCATCTGGAAGTGCTCTCTCGCCACTCTGGGTGCTTTACTGTCTCTG
GCTTGTTTCCATCACTGGAAATCACTTAGAGAATTGTAGTGTTTTGGTCTTGATAAAGCCTAGAAGACATTTG
TGATGTTACAAAATGGAAGTTTTCTTTGTTTCTGTTTTTAAAGATCTAAGAAGTTGTGAATGTTGTTAATCAT
TAGCCGTTGCAATAAATGTAGAGGAAATGC

2908/5332
FIGURE 2545A

GGTTCATTTGTCATGTCCCCGCTCGCGCGGCGGCGGCGGCGGGTGAGGAGCCTGAGGCGGCGGCGGGGGTGGCTC
CGCGCGCGGTGGTCTCGGGGGCAAATAACATGGCAGCCAGACGAATTACACAGGAGACTTTTGATGCTGTATTA
CAAGAAAAAGCCAAACGATATCACATGGATGCCAGTGAGGCTGTAAGCGAAACTCTTCAGTTTAAAGCTCAA
GATCTCTTAAGGGCAGTCCCAAGATCCAGAGCAGAGATGTATGATGACGTCCACAGCGATGGCAGATACTCCCTC
AGTGGATCTGTAGCTCACTCTAGAGATGCCGGAAGAGAAGGCCTGAGAAGTGACGTATTTCCAGGGCCTTCCTTC
AGATCAAGCAACCCTTCCATCAGTGATGACAGCTACTTTGCAAAGAATGTGGCCGGGATCTGGAATTTTCTCAC
TCTGATTCTCGGGACCAGGTCATTGGCCACCGGAAATTGGGGCATTTCGTTCTCAGGACTGGAAATTTGCGCTC
CGTGGTTCTTGGAACAAGACTTTGGCCATCCAGTTTCTCAAGAGTCTCTTGGTCACAGGAGTATAGTTTTGGT
CCCTCTGCAGTTTTGGGGGACTTTGGATCTTCCAGGCTGATTGAGAAAGAGTGTGGAGAAGGAGAGTCGGGAT
TATGACGTGGACCATCTGGGGAGGCTGACTCTGTGCTTAGGGGCGGCAGTCAAGTCCAGGCCAGAGGTCGAGCT
CTAAACATCGTTGACCAGGAAGGTTCCCTCCTAGGAAAGGGGAGACTCAGGGCCTGCTCACAGCTAAGGGGGGT
GTTGGGAAACTTGTACATTGAGAAATGTGAGCACAAAAAATACCCACCGTGAATCGTATTACTCCCAAACT
CAGGGCACTAACCAATCCAGAAAAACTCCAAGTCTGATGTGACCCTGGGGACAAACCAGGGACAGAAGAT
ATCCAGTTCCCATTCAGAAGATCCCTCTGGGGCTGGATCTGAAGAATCTTCGGCTCCCAAGAAAGATGAGC
TTTGACATCATAGATAAGTCTGATGTTTTTCAAGATTGGGATAGAAATAATCAAATGGGCAGGATTCCACACC
ATAAAAGATGATATTAAATTTCCCAACTTTCCAGACTCTCTTGAACCTGAAACAGAAACCTGTGCTAAATG
CTTGCCCTCATTCAAATGTTCTTAAACCAGAGCACAGAGATTTTGCTTTTTTACTATCAAATTTTAAAGCAC
TCTGCTTTGAAAACACCCAGAGTTGATAATGAGTTTTTAAACATGCTTTTAGACAAAGGTGCTGTGAAGACCAAA
AATTGCTTTTTTGAATCATAAAGCCTTTTGACAAGTACATAATGAGACTTCAAGACCGGCTTCTGAAGAGCTGC
ACACCTTTGCTTATGGCCTGCAATGCCTACGAGCTAAGTGTCAAGATGAAGACCCTCAGTAACCCCTGGACTTG
GCTCTTGCCCTAGAAACCACTCTCTGCGGGAAGTCTTTGGCCCTTTTGGGACAGACATTTTCTTTGGCC
TCTTCTTTCCGGCAGGAGAAATCTTAGAAGCTGTGCGCCTGCAAGATATAGCTCCCTCACCTGCTGCGTTTCCA
AACTTCGAAGACTCCACTTTGTTTGGGCGAGAGTACATAGACCCTGAAGGCCTGGCTAGTCAGCAGCGGATGT
CCCCTCCAGGTTAAGAAAGCCGAACCAGAGCCGATGCGAGAGGAGGAGAAATGATTCTCTACGAAACCTGAA
ATTGAGGCCAAGGCTCCAAGTAGTCTGAGTGATGCTGTCCCCAGCGAGCAGATCACAGGGTAGTGGGCACCATC
GACCAGCTTGTGAACGTGTCTATCGAAGGCAGCCTGTCTCCCAAAGAGAGAACTCTTCTCAAAGAGGACCCTGCT
TACTGGTTTTTGTCTGATGAAAATAGTCTGAGTATAAATATTACAAGCTGAAGTTGGCAGAAATGCAGCGGATG
AGCGAGAACTTGCAGGAGCCGACCAGAGCCGACCTCAGCAGACTGTGTCAGTGAGGGCCATGCTGTACTCCCGG
GCTGTCCGCAACCTCAAGAAGAACTCCTTCCGTGGCAGCGGCGGGGGCTCCTCCGTGCTCAAGGGCTCCGGGGC
TGGAAGGCGAGGAGAGCGACCACGGGACCCAGACCCTCCTATCCTCAGGCACCAGGCTGAAACACCACGGCCGG
CAGGCTCCAGGCCCTCTCACAGGCAAACCATCCCTGCCAGACAGAAATGATGCTGCCAAGGACTGCCCGCCAGAC
CCAGTTGGACCTTCTCCTCAGGACCCAGCTTAGAAGCCTCAGGCCATCCCCAAGCCAGCAGGAGTGGACATC
TCTGAAGCACCTCAGACCTCTTCTCCCTGCCATCTGCTGACATTGACATGAAGACAATGGAGACTGCAGAGAAA
CTGGCTAGATTTGTTGCTCAGGTGGGACCAGAGATCGAACAATTCAGCATAGAAAACAGCACCGGATAACCCTGAC
CTGTGGTTTTCTACATGACCAAAATAGTTCTGCTTTCAAATTCATCGAAAGAAAGTGTGAACTATGTCCATCA
ATTTGTTTTACGTATCTCCGCACAACCTTCACACTGGTGGTGGTGACACCACGGGTTCTCAGGAGAGCCCGTG
GACCTCATGGAAGGGGAAGCAGAGTTTGAAGACGAGCCCCCTCCGCGGGAGGCTGAGCTGGAGAGCCAGAGGTG
ATGCTGAGGAGGAGGACGAGGACGATGAGGATGGGGGAGAGGAGCCCCGCTCCTGGAGGGGCGGGCAAGTCT
GAGGGCAGCACCCCTGCCGACGGCCTTCCCGGCGAGGCTGCCGAGGACGACCTGGCTGGAGCACCTGCCTTGTCA
CAGGCCTCCTCAGGTACCTGCTTCCCTCGGAAGAGGATCAGCAGCAAGTCATTGAAGGTTGGCATGATTCCAGCT
CCCAAGAGAGTGTGCTCATCCAGGAGCCAAAAGTCCATGAACCAGTTCGAATTGCCTATGACAGGCCTCGGGGT
CGTCCCATGTCCAAAAAGAAACCCAAAGACTTGGACTTCGCCCAGCAGAAGCTGACCGATAAGAACCTGGGC
TTCCAGATGCTGCAGAAGATGGGCTGGAAGGAGGGCCATGGCCTGGGCTCCCTCGGAAAGGGCATCAGGGAGCCG
GTCAGCGTGGGAACCCCTCGGAAGGGGAAGGGTTGGGTGCTGACGGGCAGGAGCACAAAGAAGACACATTCGAT
GTGTTCCGACAGAGGATGATGCAGATGTACAGACACAAGCGGGCCACAAATAGATCAAACCCTGATGTGAAA
GATAAGCCTTGAAGCAGCAATTGCCCTTAAACATCATCCCTGCCCTGGATCGGCCTGGAGCCAGTGCCCAAGTA
CGGTTTGGTGTGTACATGAAAACAAACGCTCTCTGCAGTCTCTGGGGCGGAGGTTTCGCTGGCTTTTCTTCTCTC
AAAGAAAAAACATGCACCATTTTCAATGTGCTTTTGCTCTCTCTGTTACATGCTTTTAGCAGCAAGTCC

2909/5332
FIGURE 2545B

CCTCCAAATCTGTCTTGGTTCCCCCTTCAGAAGGTGGCGCTGCCCCGAAAGGCACCTCAGCCTGTGAGTGCTGAG
GAACCAGCTCCTCTGGCTGATTTTCCAGTTGGACTGGCCATTGCTCTCCAGAAGTGCTCTGTAGCAAACGTGAT
GTGGAAACGATCACAGATGGTGTGTTTCTCGTTGTTCCGCCAGAATTTATACGGGGGAGACAAATTCCCGTAATTA
CCAAGTCTGCACTCGGGTACCAAAGCTCTGAAGCTCTCTGAACAGTTGCCATACTTGAGTTGATGAATGTGTTAT
TCAIGGTGTCTCATCTCATCAATGCATCTTGAGAGACTTAATGAAATTTTAGCAACAGTATAGAATAGCTCTATC
GGGTGGGGAGTAATCATTAAACAGATGAAATCGGCCCCAGATTAC

2910/5332
FIGURE 2546

GCAAAACATTTCCCTGCTGGGGGCGGCGACCAACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTCGCG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTTCGGGTCTGCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCCGAAGGGGCTAGAGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCAGTGGGGCCAGAGGAGGCAGTGAAAGAGGCGGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCCAGGAGGTGTACGATACCTCAGCCGCTTCTGCGACCAAG
TGCAAACAGGACAAGGCTGCGGCTTCTCGCGGCCAGAAAGGGGGCTACCCCATCATCTTCACTGCCTGGAAG
CTGGCCACTGCAGGTGACCAAGGCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGTGTGACTGATGGACAGCCA
GACCTCCTGGATGCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCTCTGCTGACTGGTGCCATCACCACATGATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTATGACCTTCGATGACGACATCCGTGTGCCCCCTTTGGCCATGCCACAAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAAGCGTTCTGGATAACCCTGGCATCCTGAGCGAG
CTCTGTGGAACCCGTGTCGCGCTGGCCATTGCAACAGAGTTCTGCCAGGAGGTGCTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAGGAGCTCGTGAAG
CAAGTGCTGAGCACCCCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCTTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGCATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCCTTCTCGAAGCCCATCCTGGACCTGGGGCTGAGGCACTCATCATGCAGGCCCGATCTGCCCACCGTGAC
TGTGAGGACGTGGCAAGGCCGCCCTGCGGGACCTGGGTTGTATGTCAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCTGTGACTCAGGAATGG
GGGTAGATCCATGTCTTCCACTGTCCCCATTAGTTCTGTCCCCTTACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGAGCCTTGTAAGGAGGCCTTACACAGAAGAAAGCAGCCCCCATGTCCCAG
CCACTTCTGGGTCCCAGCCAGCAGCAGCGATGTTACTGTCTCTCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCTGCTGCTTACTGCAGTTTCATGCAGGCCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTG

2911/5332
FIGURE 2547

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCATGGCGGTCCCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGTT
CCGATACAAGCACCCGCTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCCTCTTCCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCCTTCCTCACCTTCCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACTGACCATGTGCGAGGACAG
ACCCATGCTGCAGTTCTCCTGCACACCAGCTTCTGTCTCCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCCTGCACACGCGCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGTGTGCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGGTGTGAGCTTGCAGTACCTGACGCCGCTCATCCTCACCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCAGCTCCTCTACTATCCCCCGACCCATC
CTCAGCCAGCGCTGCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCCTCTTCTCCGTGGCGTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGCGCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCCTGGGCCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

2912/5332
FIGURE 2548

GGTCGCTATGGAGGAGCCGGAGATGCAGCTCAAGGGGAAGAAAGTCACGGACAAGTTCACTGAGAGCGTCTACGT
CCTGGCCAACGAGCCATCCGTGGCCCTGTACCGGCTGCAGGAGCATGTGCGTCGCTCCCTCCCCGAGCTGGCCCA
GCACAAGGCAGACATGCAGCGTTGGGAGGAGCAGAGCCAGGGAGCCATCTACACTGTGGAGTACGCCTGCAGCGC
CGTGAAGAACCTGGTGGACAGCAGCGTCTACTTCCGCAGCGTGGAGGGTCTGCTCAAACAGGCCATCAGCATCCG
GGACCATATGAATGCCAGTGCCAGGGCCACAGCCCGGAGGAACACCCCCGCCCTCCTCAGCCTGATCCTGGAA
GAGACTCGGGGCCCCCAGCCTCCGCCAACCCAGACAAAGATCATTCCACTCAGCCTGGGACGATGGGGAGGAAA
AAAATCCAGATCTCCCGCATCCTGGACCAAGGAATCGGCAGGTGACGTTACCAAGCGGAAGTTCGGGCTGATG
AAGAAGGCCATGAGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCATCTTCAACAGCGCCAACCGCCTC
TTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCTGAAGTACACAGAGTACAGCGAGCCCCACGAGAGCCGC
ACCAACACTGACATCCTCGAGACGCTGAAGCGGAGGGGCATTGGCCTCGATGGGCCAGAGCTGGAGCCGGATGAA
GGGCCTGAGGAGCCAGGAGAGAAGTTTCGGAGGCTGGCAGGCGAAGGGGGTGATCCGGCCTTGCCCCGACCCCGG
CTGTATCCTGCAGCTCCTGCTATGCCAGCCAGATGTGGTATACGGGGCCTTACCGCCACCAGGCTGTGACCCC
AGTGGGCTTGGGGAAGCACTGCCCGCCAGAGCCGCCATCTCCCTTCCGACCAGCAGCCCCCAAAGCCGGGCCC
CCAGGCCTGGTGACCCCTCTCTTCTACCAAGCCACCTCACCAGCAAGACACCACCCCACTGTACCTGCCGACG
GAAGGGCGGAGGTGACACCTGCCCTGGTGGCCTGGCTGGGCCCCGAGGGGGACTAAACACCTCCAGAAGCCTCTAC
AGTGGCCTGCAGAACCCCTGCTCCACTGCAACTCCCGACCCCCACTGGGGAGCTTCCCCCTTCTCCCCGGAGGC
CCCCCAGTGGGGGCCGAAGCCTGGGCGAGGAGGGTCCCCCAACCCGCGGCGCCTCCCCGCCGACCCCCCAGTCA
GCATCAAGTCTGAGCGCCTCTCTCCGGCCCCCGGGGGCCCCGGCGACTTTCCTAAGACCTTCCCCATCCCTTGC
TCCTCGCCCGGTCCCTGGCAGAGCCTCTGCGGCCTGGGCCCGCCCTGCGCCGGCTGCCCTTGGCCGACGGCTGGC
CCCGGTAGGAGATCACCCGGTGGCACCAGCCAGAGCGCTGCCAGGTACGGCGAGGGCACGTGGGGACCCACC
TCCCTCCAGGCCTCTTCAGAGAAGACCAACAGTGACCGCCCCCTCCGCGGTGGGGGCTTGAGGTGGGCGGCTG
GACTCAATCCACCCTGGGGGGCTCCTTTCCTTCTTCTATTTGTGTGTATATCCACAAATAAAACGCGCGTGGCG
TCCGTGGACC

2913/5332
FIGURE 2549

CTCAGCTGCACCTGCATAGTCAGGGGGTCCCTTGGCCAGGACTGTTGGCAGCAGGGGTCAGATTTTCCTCATGGC
CTCTCCAGCAGGCCAGCCCCGGGTTTCTCCTGGTGGCTGGGAGCCAGGAGAGCGGGCTCCCATGCAGAGTGCTGGTT
TCACATTTGTGGGTGGCCCATCCGTTGAGGCCAGTCACGTGGCCAGGCCAGGACCAGATGGGAGAGGACCGCAC
AAGTGCAGCGTGAGCTGTGGGAGGTGTGGCTGACCACGCTTAGAGAGTGTGGTGCCAGGAAAGATCTGATGTGTC
ACCATTCTATATCTGTGATGGGCAGACGCAGGCAGGTCAAAGGGGGCCCTGGGGACTTACCGAGCCCTGCCTATT
GGCCAGGCAGCTGTGATTGTCTCGGTGCCATGTGCCATGGAAGCCCTCTCAGAGGTCGAGGGGAGGCAGGTGGAG
ACAGAGCCTCTGTAGGCCTTCAAGCTGTAGCCCCAGAGCCCAGAGGCAGCCGAATTCATGTGTGCAGTCAGAGA
GCACCTAGTGGGCACTGTAGTCAATCAGTGAGCGCTTACTGGACACCACAGGCAGCAAGCATTACTGAGTACCT
CTGGCAGTTGATGCATATTCCTGAGTACCTGTTATAGCAGGCTTAGCTCTGGATGTGGGGTGGTGAGGAATCC
CACAGGCTGAGGGGTGGCCTGGGAGCTTTCAGGGGGCCTGAAGCAGGAGGGGCTGCCTGAGTGGGTGAGCAGCC
CAGCCCAGTGCCCTACGCAGCCCTGCCACACCCCCAACCAGCCTCTGTCTCCCCAGTCCCATCCCCACACCC
TGGTCCCTCCTACTTTGTGCCTCGAGGACACTGCCCGCTGCCCTCCTCACTTCCAGCGTCTGCTGTCCCCTCC
GCTGCTGTGCTGCCCGGCAGGATTGCTCTGTGTCTCATCCACGTTTGTCCCTGCAGAGTTCCTCGCCTCTCCCTGGA
ACCGCCAGCCTCATGCCGCATCTCAGAGGCTTTTTTTTCTCTCTTTTTTTTTTTTGGAGATGGAGTCTCACTC
TGTCACCCAGGCTAGAGTGCAGTGGTGGATCTCGGTTCAAGTGTAACTCTGCCTGTGAGGTTCAAGCGATTATC
CCGCTTCAGCCTCCCGAGTAGGTGGGACTACAGGTGCCTGCCACCTCGCCCGGCTAATTTTTGTATTTTAGTAG
AGATGGAATTTAGCATGTTGGTCAGTCAGGTCTCGAACTCCCGACCTCAGGTGATCTGCCCGCCTCGGCCTCCC
AAAGTCTGGGATTATAGGCATGAGCCACTGCGCCCGGCCTCAGAGGCTTTCATTCCCACTTTCCCCCAAACCT
GCGCCTCTTTGGGGTCATCAGTGACCTTCGCAGGGTCAAGTCATCCCCCTCTCCTGTCCCAGGACCTTAAGCACT
GCCCTGTTTTACAGAAGAGGAACTGAGGCCCCGAGAGGTAAGGCAGCCAGCTCAGGGTCATCGCCACGCCAG
AAATGCCAGGATTCACCCCGGACCTCTGACCACCAAGCTCCACCTTAGTCTGGCCCGGGTCATCCCTCAGGTG
CTGCCTCATGCCTTGGGTCTGTCTCTCAGACCACCTGGCCCTTGCCCTGCTCCCCAGCCTGACTGAAGCTGGG
CCAGGCAGAGACTGAAGACTGAACGAGTGTGGCCAGCATTCTCTGACCTGCCCGGAGCCTCCAGGCCAGCC
GTCCATGTTCCAGAAGTCCAGAAGTGGCTTTGCTGCTCCTGGACTCTCACTGGCCCCCATCGACCCTTGGACC
AATAACTGCCATCAAAATAATCCTGATTATGCACCTATCAAGTCCCTGGCCCTGGGCTAAAGTCTTACAGGGGT
CATCTCATTTTCCTCAGCCCCAAAAGGCAGGTCTCACCCCCAAATACATATGGACAAAAGAGGCTCTGCCGG
GTGTGATGGCGGGCACCTGTAATCCCAGCTACTCAGGAGGTTGAGGCATGAGAATCGCTTGAACCCAGGAGGCAG
AGGTTCCAGTGAGCCAAGATGGCGCCACTGCACTCCAGCCTGCGCGACAGAGCGAGACTTCGCACCCGCCGCCCC
CCAACC

2914/5332
FIGURE 2550

ACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGCGCGACGGCCAGGAGGCTGGTGGAGCGAC
ACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCTTGAGAGACGAGTTGGGGGAGTC
CTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCGCCCTTGCTTATAAGCCTT
TGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAGGGTCCGGTCTCCA
GTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCAAGTTTTGAGAGAACTGGGCTT
TCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGCAGAAGACCTCATC
CAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGAC
ACTGTGGTCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTTCTCTCCA
CAGGCAGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGTGTCAGCTCTGCCG
GCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAAGGAGCATTGCGG
AAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCTCATCTGGGCCTCCGCCTTTGGAGAG
ATTGAGACCGTTTCGCTTCTGCTGGAGTGGGGTGGCGACCCACATCCTGGCAAAGAGCGAGAGAGCGCCCTG
TCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGACATCAACATCTAT
GATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTGAAATGCGTTGAGGCCTTGCTGGCC
CGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCGATGGACCTTGCCGTGGCCCTGGGATACCGG
AAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGCTGACCCTGAGTGA

AGGCCGCCTGCCGGGACTCAGACACTCAGGGAACAAATGGTCAGCCAGAGCTGGGGAAACCCAGAACTGACTT
CAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTTCTGTGCAG

2915/5332
FIGURE 2551

CACGCGGTTCCGGGTCCCAAGATTTGGCTCCAAGAGCTATTGCGAGAGAAACAGCCTCGCACAAAAAGCCACCGC
CCCCGAAACCCGCGGGAAATCTGTTTTCTGTGAAAGGCCTGGCCTCCGGGCATTGGCGGTTTCCCTGATCCTCTC
TCCCAAATTTTCCGGCAGGGGATTGATCGAGGCGACATTTAGGACTGGGGTGGGCGAGGGAGTGGCGGTTCTCGT
CCCAAGTTACAGGTGAGGACGTTTCAAGGCCAAGGCGTAGCCAAGATCGCGCCGCCCTGTAGCTTGAGGAGGCGCCG
GGATTGGAACCAAGGCTGTGCCAATCCTAAGCCCTGCGAGGCTTGTGGAACCGACATGACCCACTCTTTGGTT
TGTCCAGAGACAGTGAGCAGGGTGAGTTCAGTGCTGAATCGCAACACTCGGCAGTTTGGAAAAAACATCTTTTC
GACCAGGATGAGGAGACATGTTGGAACCTCAGACCAGGGCCCCCTCCAGTGGGTGACGCTGGAGTTTCCCCAGCTC
ATCCGTGCTCTCCAGCTGCAGATCCAGTTTCAAGGTGGCTTCTCCAGTCGCCGGGGCTGCCTGGAAGGTTACAG
GGCACTCAGGCTCTCCACAAGATTGTAGATTTCTACCCTGAGGACAACAACCTCGCTTCAGACTTTCCCATACCA
GCTGCTGAAGTGGACCGGCTGAAGGTGACGTTTGAAGATGCCACTGACTTTTTTGGCCGTGTGGTCACTACAC
CTGCGGGTGCTTGGGAGAAGGTGTGAGACCTCTAGGGGCTGTCTCCTCCAGGAAGCCCTCCGGGAAGCACAGCA
AAGTCCCTCATTCTGCACAGAAGGTTTATTGGTTTCTTGGGAAGGGTCCCCTCCCACCACCTGTCCAGAAGCT
GCCTTTGAAGTCAGTTCTGGGTTTCCCCAGCTCTGGCTGACCATTTGTTCCCTGAGTGTCTGAGTCCCCGGCAG
GCGGCCTTCACTCAGGGTCAGCGGGCACCAGGTTGCTCTGGAAGAGCTTGAGGATGTGGTTCTCGATCACCTGTT
GCACTGAGATGGGGCAGGGAAAAGTGGGCTGTGAGCTTGAATCGGGAGTGGGGTGGAGGCACAGGCCAACCTGC
GCTCTCCCCTTAGGGGACAAACAGGGACCCTTGCAGAGACCTGCATTACAGAGCAAAGCTGGGAGAACCAGGAC
TCACCCAGGAACCTCAACTTCCCCTAAGTTTGTAATAATGCACTTTGTAGCTTTTCAGAATTAATATAAAAAAT
ATTCCTACC

2916/5332
FIGURE 2552

GTCTCAAGATGGACAACCGGGATGTTGCAGGAAAGGCTAACCGGTGGTTTGGGGTTGCTCCCCCTAAATCTGGAA
AAATGAACATGAACATCCTTCACCAGGAAGAGCTCATCGCTCAGAAGAAACGGGAAATTGAAGCCAAAATGGAAC
AGAAAGCCAAGCAGAATCAGGTGGCCAGCCCTCAGCCCCACATCCTGGCGAAATCACAAATGCACACAACCTCTT
CCTGCATTTCCAACAAGTTTGCCAACGATGGTAGCTTCTTGACAGTCTTCTGAAGTTGCAGAAGGCACAGACCA
GCACAGACGCCCCGACCAGTGCGCCAGCGCCCTCCAGCACACCCACCCCGAGCGCTGGGAAGAGGTCCCTGC
TCATCAGCAGGCGGACAGGCCTGGGGCTGGCCAGCCTGCCGGGGCCCTGTGAAGAGCTACTCCACGCCAAGCAGC
TGCCCGTGGCGCACCGCCCGAGTGTCTTCCAGTCCCCTGACGAGGACGAGGAGGAGGACTATGAGCAGTGGCTGG
AGATCAAAGTTTCACCCCGAGGGGAGCCGAGACTCGGAAAGTGATAGAGAAATTGGCCCGCTTTGTGGCAGAAG
GAGGCCCCGAGTTAGAAAAAGTAGCTATGGAGGACTACAAGGATAACCCAGCATTTCGATTTTGCACGATAAGA
ATAGCAGGGAATTCCTCTACTACAGGAAGAAGGTGGCTGAGATAAGAAAGGAAGCACAGAAGTCGCAGGCAGCCT
CTCAGAAAGTTTCACCCCGAGGACGAAGAGGTCAAGAACCTTGCAAGAAAGTTGGCCAGGTTTCATAGCGGACG
GGGGTCCCGAGGTGGAACCATTCGCCCTCCAGAACAACCGTGAGAACCAGGCATTACGCTTTCTGTATGAGCCCA
ATAGCCAAGGGTACAAGTACTACCGACAGAAGCTGGAGGAGTTCCGGAAAGCCAAGGCCAGCTCCACAGGCAGCT
TCACAGCACCTGATCCCGGCCTGAAGCGCAAGTCCCCTCCTGAGGCCCTGTCAGGGTCTTACCCCGAGCCACCA
CCTGCCCCGCCTCGTCCACGCCCTGCGCCCACTATCATCCCTGCTCCAGCTGCCCCCGGGAAGCCAGCCTCCGCAG
CCACCGTGAAGAGGAAGCGGAAGAGCCGGTGGGGGCCTGAAGAGGATAAGGTAGAGCTCCACCTGCTGAACTGG
TGACAGAGGGACGTGGATGCCTCTCCCTCGCCTCTGTACAGTTCAGGACCTCAAGGGGCTCGGCTATGAGAAGGGGA
AGCCTGTGGGTCTAGTGGGCGTCACAGAGCTTTCAGACGCCCAGAAGAAGCAGCTGAAGGAGCAGCAGGAGATGC
AGCAGATGTACGACATGATCATGCAGCACAAGCGGGCCATGCAGGACATGCAGCTGCTGTGGGAGAAGGCAGTCC
AACAGCACCAGCACGGCTATGACAGTGATGAGGAGGTGGACAGCGAGCTGGGCACCTGGGAGCACCAGCTGCGGC
GCATGGAGATGGATAAGACCAGGGAATGGGCCGAGCAGCTGACAAAGATGGGCCGGGGCAAGCACTTCATCGGAG
ACTTCCTGCCTCCAGACGAGCTGGAAAAGTTTATGGAGACCTTCAAGGCCCTGAAGGAGGGCCGTGAGCCTGACT
ACTCAGAGTACAAGGAGTTCAAGCTGACTGTGGAGAACATCGGCTACCAGATGCTGATGAAGATGGGCTGGAAGG
AGGGCGAGGGGCTGGGCTCAGAGGGCCAGGGCATCAAGAACCCAGTGAACAAGGGCACCACCAGTGGACGGCG
CTGGCTTCGGCATTGACCGCCCGGCGGAGCTCTCAAGGAGGACGACGAGTATGAGGCGTTCCGCAAGAGGATGA
TGCTGGCCTACCGCTTCGGCCCAACCCCTGAACAATCCCAGACGGCCTTACTACTGAGTGTCTTGGAATACA
TACTTTCTGAATGACCAACCGTCCCTGGACTGTGGAATGTTCCGGCCTGCATTTCTGCCACCCCTTCCGTTGTC
ACGAGTGCCGTGCCGTGTAATAAAGTCCAGTGCTCATCCACC

2917/5332
FIGURE 2553A

GCGGCTTGTGTTGTGGAGGCCAAAATGGCGGCTCAGGCGGCGGCAGCGGCCAGGCGGCGGCGGCCAGGCTGC
GCAGGCCGAGGCGGCCGACTCGTGGTACCTGGCGCTTCTGGGCTTCGCTGAGCACTTCCGCACTTCCAGCCCGCC
CAAAATCCGCCTGTGCGTGCACTGCCTGCAGGCCGTGTCCCTTCAAGCCGCCGAGCGCATCGAGGCCCGTAC
ACACCTGCAGCTGGGCTCCGTTCTCTATCACACACCAAGAAGCAGCGAGCAGGCGCGCAGCCACCTGGAGAAGGC
GTGGTTGATATCACAGCAAATCCCGCAGTTCGAAGATGTTAAATTTGAAGCAGCAAGTCTGTTGTCTGAATTGTA
CTGTCAAGAGAATTCCGTTGATGCAGCAAAGCCGCTGCTGCGGAAGGCGATCCAGATCTCACAGCAGACCCATA
TTGGCACTGCCGCTGCTCTTCCAGCTCGCTCAACTGCACACGCTTGAGAAGGACCTGGTGTGCGCCTGTGACCT
CCTGGGTGTAGGGGCCGAGTACGCCCGGGTGGTGGGATCTGAATACACACGGGCGCTGTTCTCTCAGCAAGGG
GATGCTGCTGCTGATGGAGCGAAAGCTGCAGGAGGTGCACCCGCTGCTGACCTCTGCGGGCAGATCGTGGAGAA
CTGGCAGGGGAACCCCATCCAGAAGGAGTGCCTGCGTGTCTTCTTCTGCTGCTCCAGGTACCCACTATCTGGA
TGCCGGGCGAGGTGAAGAGCGTGAAGCCGTGTCTGAAGCAGCTGCAGCAGTGCATCCAGACCATCTCCACACTGCA
CGATGATGAGATCCTGCCAGCAACCCCGCTGACCTCTTCCACTGGCTGCCAAGGAGCACATGTGTGTGCTTGT
CTACCTGGTGACTGTGATGCACTCCATGCAGGCCGGCTACCTGGAGAAGGCGCAGAAGTACACGGACAAGGCCCT
CATGCAGCTGGAGAAGCTCAAGATGCTGGACTGCAGCCCCATCCTGTCTCCTTCCAAGTGATCCTGCTGGAGCA
CATCATCATGTGCCGCTTGTACGGGTACAAAGGCCACGGCGCTGCAGGAGATCTCCAGGTCTGCCAGCTGTG
CCAGCAGTCCCCCGGCTCTTCTCAACCATGCAGCACAGCTGCACACATTGCTGGGCCTGTACTGTGTCTCTGT
CAACTGCATGGACAACGCGGAAGCCCACTTACCACGGCCCTGCGGCTCACCAACCACAGGAGCTGTGGGCCTT
CATCGTACCAACCTGGCGAGTGTGTATATACGGGAAGGAAATAGACCAAGAGGTACTCTACAGTCTGCTGGA
GAGGATCAACCCGGACCACAGCTTCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CTTCTCCTTCTTCCAGGGACGCTACAACGAGGCCAAGCGATTTCTGCGGGAACTCTGAAGATGTCCAATGTGA
GGACCTGAACCGGCTCACAGCCTGCTCCCTCGTGTCTTCTGGGCCACATCTTCTATGTGCTGGGAAACCAAGGGA
GAGTAACAACATGGTGGTGCCTGCCATGCAGCTCGCCAGCAAGATCCCGGACATGTGCGGTACAGCTGTGGTCTGTC
AGCACTGCTGAGAGACCTGAATAAAGCCTGTGGGAACGCCATGGATGCCCATGAAGCCGCCAGATGCACCAGAA
CTTCTCGCAGCAGCTGCTCCAGGACCACATTGAGGCTGCAGCCTCCCCGAACACAACCTCATCAGTGGACAGA
CGTCCACCCCCCGTGCAGTTCGAAGCTCAGAATGGACCAACACCAGCCTGGCCAGCCTCCTGTGAGGCCTTGA
TGGGGCCATCCAGCTCCGCGAGGCGCTGCGCGTCTCCGGCTTCCACCCAGACGGCACTCAAGCCTGCCCCGAGGC
GTGCTTCCCTTCTGATTGTCTCTAGAGCTTCCAAGTCTGGGAATGTGCGGGGCCAGTCCCTGCCCTCCAGGAG
GGGTGGTAGCCGTTCCACCTCGCAGCAGGACCCCAAGTGCAGAGGCTCACAGGTGGCACACAGGCGCTGTCTCT
CCAGAGCCATCCTTCAAGTGGACCTCAGTGCCAGTCTGCTCAGCATCTGGGTACGTCGGCCAGGAGTAGGG
TGCAGGCCTCCAGCAGGTCCATACTGTGTGCCAGGGCAGGCAGTGGCCAGGGGCACCACGCTGACTCTCCA
TCACCCAGGCCTTGATGCCGAGCGGGAGTAGAGTGTTCCTCTGCTCAAGGCAATTTCCAGAGCCCGGATGCCAG
TTTCTGGCCTGAATTTGGAGGGAAGAAGTAATGGCGCTAGTGTGGGACGAAGCACAGATCCAGCACTTTTCCCA
GCTTCTCTCCAGCATCAGTCCCTGCAGCAGCTGGGGCCTCTGGTCAGGAACCCCTCAGGGACCCAGGAACCTCAGC
TTCCAAACATCTGCACCTTGACCGGACTCGCCATCCCGCCGTGGGGGTGCAGGTGATTGTAAACACGGGTGTGCA
TGTGGATGCACACGGGTGTGCGGTGAAGATCTGTGGAGATGGAGCTGGGAGCTGAGGCTCCTGTGACACAGCCA
CCTTCCCCCATCTTGTGGCTGCTGAGGGGCAGGAAGCGGGGAGTGGGCTCGTCTCCTAAATTTAAGATCACTC
CTCAGCTAGCTTAGAGTGCCTGGCACGGGCCCCCCGCCCCGAGATCTGGAGCCCAGGGACTTCTTCTTGGCAG
ATCTGTGGCCTTCCCTGCTCAGCCTCTTGGTCCCCCACTCCCTCCACCGCTCACCTTCCCTGCTGGGTCTCTG
GGGCACAGTGTGAACCCGCACCCTAGCCAGGCCCCAGGAGCCTCCGCTGGGCCAGACAGCAGCGTTTGGTTT
TATCCACTTTTCTTGGATAATCAGGAGGTGCCCGAGTGGTACAGTGTGGCATTCCGAGTTGGGGCGGGTGGTCG
GGTCAAGATAGCAGCAGCAGGTGTGAGGGCTCAAGACACCACCCCTCCAGCTTCTGGGGCCAGGAGCCTCTCC
CTGCTACAGGGGGTGGGGTCTGCTCAGCAGGTAGGTGGTGGTTTTAGGTCTTGTACCCCTCACTCAGTGGAA
CTGCCCTCTGGGAGCTTGGCGTCTGTGACTAAAGGGACGCTGGATTGCTCAGGTGAGTGTGCTGGGGCTCCAGG
CTGGGTGTGCTTAGCCACAGGCAGGGCTGTCAATAACCCCTTCTCACTGGCCACCACCTGACATCAGCACCA
GTGACAGGCTGGTCAGAGGGCGGGGCTGGTGGGGTTTGTCTTAAGAGGACCACCGCCATCTCTGGGTCTCCAGG
GGGAGAGCCTGGCCCTGTCTTTGCTACCCAGGGCTGCCCCAGGCCCATGAAGCCAATAGGAGAGCGTGTGGCA
CTGGCCACAACTGTCCCTGTCTTCTTCTCCGAGCCATGGCCTCTGCTAGCTCCACCTTGAAGGAGCCCC
CCACATCCTCCCTACATCCAGAGATGCCACCACTTGTGTCTCCACAATGTGCTCCTGCCACCCGGGTCCCG

2918/5332
FIGURE 2553B

ACTGTCCGACCCCTGCACACCACTCATGTCACCACGGCGTGATCATGTTTCATCCCCATCTATTTATTTAAGCCT
TTCTTTGCTTG TAGGGCATT TTTGTATGTAGAGCAGTTGAAAACAGAACCTCAGAACTTAACATCTGTCCTGATGT
TAAAGTGCTTTTCATGACCACCCTGTTATCTATGTATATGTAAAGTTAAGGATGAGATCTTAAGTTTACAATTAA
AACTCAGTACTCAATATTTAATATTCTACTCGAGCTTTATGGAAGCCAAATCATGTGCATGTGTGTGTGTGCGT
GTGTGCAAGCTTTGAACCTCCTTCCACAGCCGCATCTTCTCATGACACAAAGCTTTTGATAAGTACTTTCCTGTG
GGTCGCTCAGCGCCTCATAGCATCTCATTCAATTGCAAGAATAGAGGCCAGACACGGTGGCGCATGCCTGTAGTC
CCAGCTAACTGGGAGGCTGAGGCAGGAGGATCACTTGAGCCCAGGAGATTGAGGCTGCAGTGAGCATGATCGCGA
CACTGCACTCCAGCCTGGGTGACGGTGAGACTTTGTCTC

2919/5332
FIGURE 2554

GGAGATTGTTGCCAGGGCTCTGGTGAGTTCAGAAATGACCGAAGAAGCATGCCGAACACGGAGTCAGAAACGAGCG
CTTGAACGGGACCCAACAGAGGACGATGTGGAGAGCAAGAAAATAAAAATGGAGAGAGGATTGTTGGCTTCAGAT
TTAAACACTGACGGAGACATGAGGGTGACACCTGAGCCGGGAGCAGGTCCAACCCAAGGATTGCTGAGGGCAACA
GAGGCCACGGCCATGGCCATGGGCAGAGGCGAAGGGCTGGTGGGCGATGGGCCCCGTGGACATGCGCACCTCACAC
AGTGACATGAAGTCCGAGAGGAGACCCCCCTCACCTGACGTGATTGTGCTCTCCGACAACGAGCAGCCCTCGAGC
CCGAGAGTGAATGGGCTGACCACGGTGGCCTTGAAGGAGACTAGCACCGAGGCCCCCATGAAAAGCAGTCCTGAA
GAACGAGAAAAGGATGATCAAGCAGCTGAAGGAAGAATTGAGGTTAGAAGAAGCAAACTCGTGTTGTTGAAAAAG
TTGCGGCAGAGTCAAATACAAAAGGAAGCCACCGCCAGAACCCACAGGTTCTGTTGGGAGCACCCTGACCACC
CCTCCCCCGCTTGTTCGGGGCACTCAGAACATTCTGTGCTGGCAAGCCATCACTCCAGACCTCTTCAGCTCGGATG
CCCGGCAGTGTACATCCCCCGCCCCCTGGTCCGAGGTGGGCAGCAGGCGTCTCGAAGCTGGGGCCACAGGCGAGC
TCACAGGTCGTACATCCCCCACTCGTCAGGGGGGCTCAGCAAATCCACAGCATTAGGCAACATTCCAGCACAGGG
CCACCGCCCCCTCTCTGGCCCCCGGGCGTGGTGCCCACTGCTCAACATCCCACAGCCACCCACAGCATCACTG
GGCCTCATCCGCGTCGCCAATGTTCCCAACACAGCCCTGCTCGTCAACATCCCACAGCCACCCACAGCATCACTG
AAGGGGACAACAGCCACCTCCGCTCAGGCCAACTCCACCCCCACTAGTGTGGCCTCTGTGGTCACCTCTGCCGAG
TCTCCAGCAAGCCGACAGGCGGGCCGCAAGCTGGCGCTGCGCAAACAGCTGGAGAAGACGCTACTCGAGATCCCC
CCACCCAAGCCCCCAGCCCCAGAGATGAACCTTCTGCCCAGCGCCGCCAACACAGGTTCTACTCTGTCGGC
CTGGAGGAGGTGGTGACAACCTACTGGAGACACAAGCAGGCAGGATGTGCGCCGCCACTGTGCTGTCCCGGGAG
CCCTACATGTGTGCACAGTGCAAGACGGACTTCAGTGCCGCTGGCGGGAGGAGAAGAGCGGCGCCATCATGTGT
GAGAACTGCATGACAACCAACCAGAAGAAGGCGCTCAAGGTGGAGCACACCAGCCGGCTGAAGGCCGCTTTGTG
AAGGCGCTGCAGCAGGAACAGGAGATTGAGCAGCGGCTCTGCAGCAGGGCACGGCCCCCTGCACAGGCCAAGGCC
GAGCCCACCGCTGCCCCACACCCCGTGTGAAGCAGGTCAATAAACCCTGGCGTAAGTTGGCGTTCCGCTCAGGA
GAGGCCCGCGACTGGAGTAACGGGGCTGTGTACAGGCCTCCAGCCAGCTGTCCCGGGGTTCCGGCCACGACGCC
CGAGGTGTCTGCACACGTTAGTCCGTCACCCAACTGCAGAACTCAGCCTCGGCCACAGCCCTGGTCAGCAGG
ACCGGCAGACATTCTGAGAGAACCCTGAGCGCCGGCAAGGGCAGCGCCACCTCCAACCTGGAAGAAGACGCCCTC
AGCACAGGCGGGACCCCTTGCGTTTGTGACGCCAAGCCTGGCGGTGCACAAGAGCTCCTCGGCCGTGGACCGCCAG
CGAGAGTACCTCCTGGACATGATCCCACCCCGCTCCATCCCCCAGTCAGCCACGTGGAAATAGTGCAGCCAGGC
CCCGTGGAAAGACGGGCTCCCTCCTCCCCACCTGGCCCCCTGGTCTAGAAGGACCCACTGCACCACCCTCCGCTGG
CTCGGGAAGACACCGTGCCCCGCCCAAGAGCAAGCACCAGGCTGCTGCAGAGGCAAGACCTCAATTCTTGGCTG
CAAAGTTTTCATCAGGGCTAGGGGGCTGGTGGCGCTCATAGGCAGACGAGGATCATCGCTGGGGGACCTTTCCCG
TGGGCTTTCTTCTTCTCTCTTTGCTTTAGTTTGGCCGACACCAGCAGAAAAGTGGACCTTGGGGGCTGGTTT
TGCTCTTGGCCCCCTTGTTCAGCCCCCTGCCGGCACACGGGCGGCTCACCTGGACACTGTGATGCGCATGGGCAA
GGCCAGCGCCCGGGGCTTCTGAACCGAGCGGGGTGTTTCATTTTTTTGGCTTTTCCCTGTCTTAGGCTCCAGTCT
TTGACTGCCTTCCCATGGCGATCTATAAGTTGAAAGATTTTTTTTTTTTAAATCACCTCATGATGATGGAGTTA
AAAGTAAACCGTGACAGCCCTGGGGTCCCTGTTGTACGCTGCATCATCCCGCTGGCCCTGTGCCCTGGAGGGTGG
GCGGCTCATGGTGCCACAGCCCCCTGGCAGGGACGGCGGCGCCCGCCCCGTGACTGACTGACAGATGCAGGGATGG
CCGAGGCAGCCCTCGCTCCAGCTGAACGCTCCATTGCTGCTTGTTCGGAGACCCCGCCCCCGCACCTTCCAG
ACTTAGCAGAAGAACAACCTGAAGAACAGACCCAGCCAGAGAAGCAGGGATTCCAGAAGCTGCCATTAAGGGAG
AAGGAGAGGATCCGGTGGCAGCAGCCCTGAGCAGAAAGCTGGAGGGGGGACTGTGCGGGGTTTTCTGTGTG
GTTTATTTTATTAAATTTTTCTTTTTTCTATTCAATTCGATGGACGCAATCTTAAGCCACCTTGGCCTTGCTC
CTGGGAGGTGAGCGTGCACAGGTGTGTGAGGTGAGGAGGTGCCGTCCAGGTGTGCGGCGAGCCGCTGCGCACAG
ATGTCAGGATTTCCGTTTGGGTCTAGTTTGAACCTGTCTTAAACCTAGGGGTTGCTGTGTCAGGATTTGCTTTCA
GACTTTTTTTTTTTTTTGAATTTCCCTTTAGAGTCTACAAAATGTTTTTAAAAGGATCAGGCTGCTTTTAGTTT
CATTTTTGTTTCTTCCCGTCCCACTCTTTAAAACTGGTTCGGTGAGGAAAGGCAGAAGCCGTTCCGTGTCTCT
TGCAGGCTGGGCGGGCTTCATGCCAGTGCGAGGGCGTCCCGTGCCACGTACATACGTATGTCTCCATGAGTTCT
GGGCTCCACTGGTTCCAATTGAGCTCCAGCCCTGGTTTCCCTACCCATGCAGTTAGGGACTTTAATTAATTTTT
TTTTTGTAGGGCCACCGCCTTCAAACACAACCTGTACAACATTCTAATAAAGGCTCATTTAACCCCC

2920/5332
FIGURE 2555

TGCGAGTATGGCGGCGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGGCTATGGGCCCATCGACTACAAACG
GAACTTGCCGCGTCGAGGACTGTCGGGCTACAGCATGCTGGCCATAGGGATTGGAA~~CCCTGATCTACGGGCACTG~~
GAGCATAATGAAGTGGAACCGTGAGCGCAGGCGCCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTTGCC
ACTGTTACAGGCAGAAACCGACCGGAGGACCTTGAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCATCAT
GAAGGACGTGCCC~~GACTGGAAGGTGGGGGAGTCTGTGTTCCACACAACCCGCTGGGTGCCCCCCTTGATCGGGGA~~
GCTGTACGGGCTGCGCACCACAGAGGAGGCTCTCCATGCCAGCCACGGCTTCATGTGGTACACGTAGSCCCTGTG
CCCTCCGGCCACCTGGATCCCTGCCCCTCCCCACTGGGACGGAATAAATGCTCTGCAGACCTGG

2921/5332
FIGURE 2556

CTGAAGTCGGTGTCTGCTGTGTTTCATGGCAGGATTTCGGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTT
AAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACCTATTGGAGGAAAAAAAAAAAAA
CAGAACTGGCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCC
GTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGATCTGCTGC
TGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAAGTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCT
GGGCTGCTCCTCGACTCCAGTCAGAAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAGCA
AGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGGCTAATGCACAATCTGAGTGTGG
AAGCCCCATCCAAATCCTGGTGGAGAGATACCTGATTGAAATTGCGAAGAATTACAATGTACCCTATGAACCTG
ACTCTGTGGTTCATGGCAGAAAGCTCCTTCTGGGGTAGAGACAGATCTTATTGATGTTGGATTACAGATGATGTGA
AGAAAGGAGGCCCTGGAAGAGGAGGGGGTGGTGGGTTACAGCACCAGTTGGTGGACCTGATGGAATGGTGCCAA
TGCCCATGCCTATGCCATGCTATCTGCAAATACTCCTTTCTCATATCCACTGCCAAAGGGACCATCAGATTTCA
ATGGACTGCCAATGGGGACTTACCAGGCCTTTCCCAATATTTATCCATCTCAGATACCAGCAACTCCCCATCAT
ATGAATCTGTAGATGACATTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGGTCTGGACCCAAGCCAG
AAGCCTCTGCAAAGCTTCCTTCCCTGACCTGCGGATAACTATGACAACCTTTGTCCTACCAGAGTTGCCATCTGTGC
CAGACACACTACCAACTGCATTGCTGGTGCCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCC
AGAGGTTTGAAGAGCTGAAAAAGAAATATAGGTCTCTTAAACCAGGCAACTTTCAATATTCTGGGAGTTGAGACT
GAGCAATTTCTCCTTGTAAACAAAGAAATCTCCATGAAATTCCTTTTCATCTGTTAACCCTCACTGAGCACAACACT
CCTCCTCTGGGCTCTCTGCCTGCTCCTCCAGATTCTGCTGCTTTCCAGTTCTCTGTTGATCCTGAGACTAACAA
CGGAGACTGAGGCTGGAGCAACTGGCTCCTGGCAGCTGTGCTTGTCCCTTTCTGTGAGAGTATCCAGGTTTC
CTCCTGGCCCGTCCCATGGTCCCTCCACAGGAGCATAGAGGATGGGAAAGCACTATGGGGAGACCACCAAAGAT
GGCTGGACAGTGGGAGAGAGCAGTCGTGAAGCATCCAGCCTCGTGTGAGGTTCCAGACTTAGAAAACAAACCC
CTCTGTACAGGGGGATTGTTGGTGAAGTGAAGTCAAGGCCACGGTGTGTGTTTTCGCACTCGAATGCAAGTGGGAG
AGAGAAAATGACTCAGGACGCCATTGTAACGGTTCTGGAAGCTGGGCCCTCTCATTGGCATATACACTACTCCT
CGCCGCAGGGCACTGTCCACCGGGATCCAGTTGCAAAGTTTGTCTCGACAGTTTAAGGCCTCGCTTAGTTGTAC
TGGATTCTCAGGGAGTCTCTGTGGCCTTTTGTCTGAGTGTGTTTCCCTTGTACCAGAGGGCAGCACCATTGGA
AATTCTGTTTTTCTGTAGCATATTGTGTTGGATTGCCTTACTGGCAGAGAAAGGACAAATTGCCATTGAAGTCT
AGGGTGGGCTTCCAGTGCCTTAATAGAAGTACTCAAGTCTTTTGGGTAGTGAGCTGGAAAGCCTACAGGAAAA
AGGGGTACCTGTTTTCAATTGAAAACCTTTGATTGATGGAACCTTTAAACTAATCTCAGATAAAATTTTGGTGCA
AATGTGGCTGTAGTTGTCCACTGCTTTTCTGGATGGATGGGACTCTTATGTCATAACTTCTATACTCCTTTGGCC
CATAGCTAAGGTATCCTTCCCCACAGGGGTGGCTTTGGGATTGGATTATACAGCTTTTGTCTCTGTGTAGTATA
CCTGTACATACCTGTTTCAGGAAGCCTTTCTTTAATGTTTTTCAGTTGGTTGTATTCTGTAGCTCAGTAGCTGCT
AATAAAGTTAAAGATCCTG

2922/5332
FIGURE 2557

CCCCCTCTAGCCTAGGCGAGGACTTCTACCGCGAGGCCATCGAGCACTGCCGCGAGTTACAACGCGCGCCTGTGCGC
CGAGCGCAGCCTGCGACTGCCCTTCCTCGACTCGCAGACCGGCGTGGCCAGAACAACTGCTACATCTGGATGGA
GAAGACCCACCGCGGGCCGGGTTTGGCCCCGGGACAGATTTACACGTACCCCGCCCGCTGTTGGAGGAAGAAACG
GAGACTCAACATCCTGGAGGACCCAGACTCAGGCCCTGCGAGTACAAGATCGACTGTGAAGCACCCCTGAAGAA
GGAGGGTGGCCTCCCGGAAGGGCCGGTCTCGAGGCTCTACTGTGTGCAGAGACGGGGGAGAAGAAGATTGAGCT
GAAGGAGGAGGAGACCATTATGGACTGTCAGAAACAGCAGTTGCTGGAGTTTCCGCATGACCTCGAGGTGGAAGA
CTTGGAGGATGACATTCCCAGGAGGAAGAACAGGGCCAAAGGAAAGGCATATGGCATCGGGGGTCTCCGAAACG
CCAGGACACCGCTTCCCTGGAGGACCGAGACAAGCCGTATGTCTGTGATAAGTTTTACAAAGAATTGGCCTGGGT
CCCTGAGGCACAAAGGAAACACACAGCCAAGAAGCGCCCGACGGCACTGTCATCCCCAACGGCTACTGTGACTT
CTGCCTGGGGGGCTCCAAGAAGACGGGTGTCCCGAGGACCTCATCTCCTGTGCGGACTGTGGGCGATCAGGACA
CCCCCTCGTGTTTACAATTACGGTGAACATGACGGCAGCCGTGCGGACCTACCGCTGGCAGTGCATCGAGTGCAA
ATCCTGCAGCCTGTGCGGAACCTCCGAGAACGACGGTGCCAGCTGGGCGGGTCTCACCCCCAGGACCAGCTGCT
GTTTGTGATGACTGCGATCGGGGTTACCACATGTACTGCCTGAGTCCCCCATGGCGGAGCCCCCGGAAGGGAG
CTGGAGCTGTACCTCTGTCTCCGGCACCTGAAGGAAAAGGCTTCTGCTTACATCAACCTCACCTAGGCCGGCTC
GGCTCGCCGCGACTCTGGGGTGGTGCTCGCCTACCTGCCTCTCCGAGCTCCTCAATTCTCCCCACCCTGAACAT
CCCGCAGGGGGAGGGGGAGAGGGGGAAGCCGAGAGGGGGCTGGGCCACCCCTCCCCTCTGTGCAAGTGGAATGT
CTGCCCTGTGGGTGGGTGGGCCCCGGCCAGGGCCTCTCCCTCCCTCCCTCCCTCTCTGTCCCTTGGCAAATGGACA
CCAGGGGCTTCTCCCTCAAAGCCATACCCCGCTCTGGGCGGGCATGGGGGTGGTGGGTGCCAGCCAGGGGCA
TGGACAGAGCCTTTTTCTAAAGAAAAAGACAAAAAGTT

2923/5332
FIGURE 2558

GTTGGGAGGTGTAGCGCGGCTCTGAACGCGCTGAGGGCCGTTGAGTGTGCGCAGGCGGCGAGGGCGCGAGTGAGGA
GCAGACCCAGGCATCGCGCGCCGAGAAGGCCGGGCGTCCCCACACTGAAGGTCCGGAAAGGCGACTTCCGGGGGC
TTTGGCACCTGGCGGACCCTCCCGGAGCGTCGGCACCTGAACGCGAGGCGCTCCATTGCGCGTGC CGCTTGAGGG
GCTTCCCGCACCTGATCGCGAGACCCCAACGGCTGGTGCGTGCCTGCGCGTCTCGGCTGAGCTGGCCATGGCG
CAGCTGTGCGGGCTGAGGCGGAGCCGGGCGTTTTCTCGCCCTGCTGGGATCGCTGCTCCTCTCTGGGGTCTTGGCG
GCCGACCGAGAACGCAGCATCCACGACTTCTGCCTGGTGTGCAAGGTGGTGGGCAGATGCCGGGCTCCATGCCT
AGGTGGTGGTACAATGTCACTGACGGATCCTGCCAGCTGTTTGTGTATGGGGCTGTGACGGAAACAGCAATAAT
TACCTGACCAAGGAGGAGTGCCTCAAGAAATGTGCCACTGTCACAGAGAATGCCACGGGTGACCTGGCCACCAGC
AGGAATGCAGCGGATTCCCTCTGTCCCAAGTGTCCCGAGAAGGCAGGATTCTGAAGACCACTCCAGCGATATGTTT
AACTATGAAGAATACTGCACCGCCAACGCAGTCACTGGGCCTTGCCGTGCATCCTTCCACGCTGGTACTTTGAC
GTGGAGAGGAACTCCTGCAATAACTTCATCTATGGAGGCTGCCGGGGCAATAAGAACAGCTACCGCTCTGAGGAG
GCCTGCATGCTCCGCTGCTTCCGCCAGCAGGAGAACTCCTCCCTGCCCTTGGCTCAAAGGTGGTGGTTCTGGCG
GGGCTGTTTCGTGATGGTGTGATCCTCTTCTGGGAGCCTCCATGGTCTACCTGATCCGGGTGGCACGGAGGAAC
CAGGAGCGTGCCCTGCGCACCGTCTGGAGCTCCGGAGATGACAAGGAGCAGCTGGTGAAGAACACATATGTCCTG
TGACCGCCCTGTCGCCAAGAGGACTGGGGAAGGGAGGGGAGACTATGTGTGAGCTTTTTTTAAATAGAGGGATTG
ACTCGGATTTGAGTGATCATTAGGGCTGAGGTCTGTTTCTCTGGGAGGTAGGACGGCTGCTTCCCTGGTCTGGCAG
GGATGGGTTTGCTTTGGAAATCCTCTAGGAGGCTCCTCCTCGCATGGCCTGCAGTCTGGCAGCAGCCCCGAGTTG
TTTCTCGCTGATCGATTCTTTCTCCAGGTAGAGTTTTCTTTGCTTATGTTGAATTCATTGCCTCTTTTCTC
ATCACAGAAGTGATGTTGGAATCGTTTCTTTTGTGCTGATTTATGGTTTTTTAAGTATAACAAAAGTTTT
TTATTAGCATTCTGAAAGAAGGAAAGTAAAATGTACAAGTTTAATAAAAAGGGGCCTTCCCTTTAGAATAAATT
TCAGCATGTGCTTTC

2924/5332

FIGURE 2559

ATTCTCCAACGGGCAGGTCTCAGCGCTCCTCCCCCTGCTCCGCTCCTCTGCAGGGCCAGGC³CCCTTGGCCTT
AGGACCCAACCTTCTCTTACCGCCATGGAGTTCGACCTGGGAGCAGCCCTGGAGCCCACCTCCCAGAAGCCCGGTG
TGGGGCGGGCCACGGGGGAGATCCCAAGCTCAGTCCCCACAAAGTTCAGGGCCGGTCGGAGGCAGGGGCAGGTC
CGGGTCCAAAGCAAGGACACCACAGCTCTCCGACTCCAGCAGCAGCTCCAGCGATTCCGGACACGGATGTGAAGT
CCCACGCTGCTGGCTCCAAGCAGCACGAGAGCATCCCGGGCAAGGCCAAGAAGCCCAAAGTGAAGAAGAAGGAGA
AGGGCAAGAAGGAGAAGGGCAAGAAGAAGGAGGCTCCCCACTTGAAGGGCCCTGGACAGGGCTCATTAAACCTTCC
TCTCTGCCTTC

2925/5332
FIGURE 2560

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCACGCCCCATG
CAGCCTTCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCAGCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTTCATCACCTACGTTTTGG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGCTGGGCTGGTGTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCCTGAGCGCGCCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCAGCCCCGCCCCCAACCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

2926/5332
FIGURE 2561

TGCCGCGCCTGTAGACTCCCGGAAGTGAAGTAGGTGCCAGACGGTCCGGAGGCGGGGGCCACGTCAGCGGGG
CAGCCAGGGCTCGCGGGTCCCGGTGGGTGCCATGCGGAGGGGCGCGCTTCTGGCGGGCGCCTTGGCCGCGTACG
CCGCGTACCTGGTGTGCGGCGCGCTGTTGGTGGCGCGGCTGGAGGGGCGCACGAAGCCAGGCTCCGAGCCGAGC
TGGAGACGCTGCGGGCGCAGCTGCTTCAGCGCAGCCCGTGTGTGGCTGCCCCGCGCCTGGACGCTTCGTGGAGC
GAGTGTGCGGGCCGACGGCTGGGGCGGGTCTGTCTTGCTAACGCTTCGGGGTCCGCCAACGCTCGGACCCCG
CCTGGGACTTCGCCTCTGCTCTCTTCTTCGCCAGCAGCTGATCACCACCGTGGGCTATGGGTACACAACGCCAC
TGAATGATGCGGGCAAGGCCTTCTCCATCGCCTTTCGCGCTCCTGGGCGTGCCGACCACCATGCTGCTGCTGACCG
CCTCAGCCCAGCGCCTGTCACTGCTGCTGACTCACGTGCCCCCTGTCTTGGCTGAGCATGCGTTGGGGCTGGGACC
CCCGCGGGCGGCCTGTCTGGCACTTGGTGGCCCTGTTGGGGGTCTGTAGTGACCGTCTGCTTCTGGTGGCGGCTG
TGATCTTTGCCCACCTCGAGGAGGCTGGAGCTTCTTGGATGCCTTCTACTTCTGCTTTATCTCTCTGTCCACCA
TCGGCCTGGGCGACTACGTGCCCCGGGAGGCCCTTGGCCAGCCCTACCGGGCCCTCTACAAGGTGCTGGTCACAG
TCTACCTCTTCTGGCCCTGGTGGCCATGGTGTGGTGTGTCAGACCTTCCGCCACGTGTCGACCTCCACGGCC
TCACGGAGCTCATCTGTGCCCCCTCCGTGCCCTGCCAGTTTCAATGCGGATGAGGACGATCGGGTGGACATCC
TGGGCCCCCAGCGGAGTCGACACAGCAACTCTCTGCCAGCTCCCACACCGACTACGCTTCCATCCCCAGGTAGC
TGGGCGACCTCTGCCAGGCTTGGGTGTGCTGGCCTGGGACTGAGGGGTCCAGGCGACCAAGCTGGCTGTACA
GGAATGTCCACGAGCACAGCAGGTGATCTTGAGGCCTTGCCGTCCACCGTCTCTCTCTTTGTTTCCAGCATCTGG
CTGGGATGTGAAGGGCAGCACTCCCTGTCCCCATGTCCCCGGGCTCCACTGGGCACCAACATAACCTTGTCTCTG
TCCTTTCTCTCATCTCTTTTACACTGTGTCTCTCTGGCTCTCTGGCATTCTCGCTGCCTCTGTCTTTCCCTCTTG
CTGTCTCTGTTTCTCATCTCTTTTATGTTCCGTCTGTGTCTCTCAATTAACCACTCGTCAACTGCTGATTCTAC
TGGGCTGTGGGCTCAGACCTCATTTCAGGCACCAGATTGGTGTGCTACACCCTGGACAAGTGACTGCCCGTCTCTG
AGCCTTGATTTCTCAGCTGCCAAATGGGAAGAATAGAAGAATTTGCCCTAAACCCCTCCTGTGTGCTGGCCCT
GTGCTAGACAGTGTGAGACATAGTTGGGGGTGGAGAACTGCCCTTATGGAGCTTGCACTCCAGTGAGGTGGAC
AGACCTGTCCCCAGACAGTGATGGCCCAAAATGGTCAGGACTTTAATGGAGGAGGTGAGGTGTTGAAAGCACAGG
CAGAGTGGTCAGGGCTGAAGTCGGAGAAGCATAGGGACTAGGCCCAATCCAGCCTGGAAAGTCAGGGAGGACTTC
CTAGAGGAAGGGACATCGAACTAAGACCTGAATATGAGAAATAGGCAGGAAGAAGTTGTACCTGACTCATTTTT
CTCAGGTGTCTCCAGGGAGCAGGACCCATGGAGGGACCCCTGGTGTAGGCCTGGGCGATAGACTCTTCCTCAGCA
GCCTGGCAGGCAGGAACAGACATAGGACCCAGCCAGATCTGAATGGCATGGGAGGTGCTGCCCTTAACCATG
ACACCATTGTAAGAGCTGTCCACATTTGTATGTTGTGCCCTGGAATCAGCCTGGTTGAGCTCAAATCCCACTTA
GCCACGTCTGGCCTGTGTCTTGGGCAGTCACACTACCTCTCTGATTTTGTTCCTTATCTGTAAATGGTGATC
ATCATAATACAACTTCAAAAGGATTTTCAAGCTGAGTGTGGTGGCTCACGCCTATACACCCAGCACTTTGGAAGGC
TGAGGAAGGAGGATCGCTTGAGGCCAGGAGTTTGAAGCTAGCCTAGGCAACACAGTGAGGCCTTATCTCAACAAC
AACCACAAAATCTAAAAATTAGCTGGGTGTGGTGGTGCATGCCTGTGATCCTGGCTACTTCAGAGGCTGAGGTGG
AAGGATCACTTGAGGCCAGGAGTTTGAAGCTGCAGTGAGTTATGATGGCACTGCTGCCTCCAGCCTGCGGGACA
GAGTGAGACCTGTCTGAAAGAAAGAGAGAAAGAAAGAAAGAGAGAGAGAGAAAGAAAGAAAGAAAGTAAGAAAGAA
AGATGGAAGGAAGGAAGGAAAGAAAGAGAGAAAGAGAGAGAGAGAGAAAGAAAGAAAGAAAGTAAGAAAGAA
AAAAGAAAAGAAAGAAAGTAAGAAAG

2927/5332
FIGURE 2562

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACATTCCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTTACTGCA
GGGTTTCGCCCCAATAAAGGTGGACTGAC

2928/5332
FIGURE 2563

ATCCCCGTGTGGGGGAGGGGGGCCCTTCGGTCTCTCCCCAGCCTCTTCCTTCCCCCTGGCCTGAGGGTGGGTGGGG
AGGGGCAGTTCCCTCTTTCCTTCCCAAGCACCGAGGAGGCCCCAGCTCCCTAGGGGCTGAGAAGCTGGAGTCCCTGG
GCAAGGGGAGGAGCTGAGCCCTACTCTTGCAAGACCCCGGCCTCCTCACCCACGCGGGAAGCATGAACAGAAA
AGACAGTAAGAGGAAGTCCCACCAGGAATGCACCGGAAAAATAGGAGGGCGAGGCCGCCCCGCCAAGTGCGCCG
CCACAAGACATGCCCCAGCCCTCGGGAAATCAGCAAGGTCATGGCTTCCATGAACCTGGGCCTGCTGAGTGAGGG
CGGCTGCAGCGAAGATGAGCTGCTGGAGAAATGCATCCAGTCCCTTCGATTGAGCTGGCAGCCTGTGCCACGAGGA
CCACATGCTCAACATGGTGTGGCCATGCACAGCTGGGTGCTGCCGTCCGCCGACCTGGCTGCCCGCCTGCTGAC
CTCATACCAGAAGGCCACAGGGGACACCCAGGAGCTGAGACGGCTGCAGATCTGTACCTGGTCAGGTACTGGCT
GATGCGACACCCCTGAGGTGATGCACCAGGATCCCAGCTAGAAGAAGTCATAGGTCGTTTCTGGGCCACCGTGGC
CCGGGAGGGCAACTCAGCCCAGAGAAGACTGGGAGACTCTTCTGACCTCCAGGCCTGGGCAAAAAGCGCAAAGT
GTCTTTGCTTTTCGACCACCTTGGAGACGGGGGAGCTGGCTCAGCACCTCACCTACCTGGAGTTCGGGTCTCTTCA
GGCTATCACGCCCCAGGACCTGCGGAGCTACGTTTTGAGGGCTCAGTACGAGGTGCCCGGCCCTGGAGGGCTC
CGTAGGTCTCAGCAACAGCGTGTCCGCTGGGTGCAGGTGATGGTGCTGAGCCGTCCCGGGCCCCCTACAGCGTGC
ACAGGTGCTGGACAAGTTCATTACAGTGGCACAGAGGCTCCACCAGCTGCAGAAATTC AACACGCTGATGGCAGT
CACAGGGGGCCTGTGTACAGTGCCATCTCCAGACTCAAGGACTCCCATGCCCACCTGAGCCCTGACAGCACCAA
GGCCCTCCTGGAGCTCACTGAGCTCCTTGCCCTCCACAACAACCTACGCCCGCTACCGCCGCACCTGGGCTGGCTG
CGCGGGTTTCCGGCTGCCTGTACTGGCGTGCACCTCAAGGACCTGGTGTCCCTGCATGAGGCACAGCCCGACAG
GTTGCCTGACGGCCGCTGCACCTACCCAAGCTGAACAACCTCTACCTGCGGCTGCAGGAGCTGGTGGCCCTCCA
AGGGCAGCATCCACCCTGCAGCGCCAATGAGGATCTGCTGCACCTGCTCACGCTCTCCCTGGACCTCTTCTACAC
GGAAGACGAGATCTATGAGCTTTCTTATGCCCCGGGAGCCGCTGTGCCAAGAGCCTGCCACCCTCCCCCTTCAA
TGCACCTCTGGTGGTGGAGTGGGCCCCCTGGTGTGACACCCAAGCCGGACAGGGTCACACTGGGTGCGCATGTGGA
GCAGCTGGTGGAGTCTGTGTTCAAGAATTATGACCTGAAGGCCGAGGAACAATCTCTCAGGAGGACTTTGAGCG
ACTCTCGGGCAATTTTCCCTTCGCCCTGCCATGGGCTTACCCACCCCCACGCCAGGGGAGAGGATCCTTCAGCAG
AGAGGAGCTGACAGGGTACCTGCTCCGGGCCAGCGCCATCTGCTCCAAGTTGGGCCTGGCCTTCTGACACCTT
CCATGAGGTACCTTCCGAAAGCCTACCTTCTGCGACAGCTGCAGTGGCTTCCCTTGGGGTGTACCAAGCAAGG
CTACCGCTGTGCGGAGTGCGGGCTGTGTTGCCACAAACACTGCAGAGACCAGGTGAAGGTAGAATGTAAGAAGAG
GCCAGGGGCCAAGGGCGATGCAGGACCCCCCGGAGCTCCTGTCCCATCCACACCAGCTCCCCATGCCAGCTGTGG
CTCCGAGGAAAATCACTCCTACACGCTATCCCTGGAGCCTGAGACTGGGTGCCAGCTTCGCCATGCCTGGACCCA
GACTGAATCCCCACACCCTTCTGGGAAACAGATACGGTCCCTGCCCGGTGATGGACCCACCATCAACTGCATC
CTCCAAGCTGGATTCTTAGACATCTTTGGTCTCCTCTCTTCTCACTCCCTTCCCCAGTCAGTCCTGAGTCTCT
GCCGTGAGCTCTGGCAGGGCTCCCAGAGGAGCATCAACTCCAGGAGAACAGGGATTTCTATCAATGTCAATTCAC
TGCTGCATCCCCAGTGCCTAGAACAGGGCTGGCAGGTGGTAGCGCCTGACAGATGCTTGTCTGATGCCTGAATG
TCTCCTTACCCATGCCCACGGCACAGGATAGATGTGCTATAGGGCAAAGAACCTTGAGGGTCGAGCAGCAGGGGC
CCATTGAGTCCCAGGGAGCAGAGACCCCCCAACCCCTTCACAAAACCCCAACCCCTGACTTGGCCCCCACAGA
GAGAGGTCCTACAGCTGTCATAAATTAAATTTATTCTCTGGA

TCTACCTCGCGGGTGCCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCGCCGCCAGCCCTCCCGCCAGCCGAC
CAGCCCCCTCCCTCTGTTCCCGACCTCAGACCTGGGCTTCCGACCTCGACATCATGGGTGACGCGAAGGCGA
AGACGAGGTCCAGTTTCTGCGGACGGACGATGAGGTGGTCTCGAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCTGTGCTTCTGGAGCCCACTAGCAACGCGCAGAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGCTGGCGTGGAGTCATCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGCATGTATCTGAGCTGCCTACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGTGTTGGACCATGACCCAGCCTCCAAGCAGAGGCT
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCTTGTCAAGTGTCTCCTCCGAGCGCTACCTGCACCTGT
GACCGCCAGTGGGGAGCTCCAGGTTGACGTTCTTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
TTCGGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCTCTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCTGCTGACAGTATGATCAGCGCAGACTTGTCTACTATGAGGGGGGAGCTGTGTGACTCATGCCCGCTC
CCTCTGGAGGCTGGAGCCATGAGTGTGAGTGGAGTGGGACCCCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTACCGAGGACAGGGCCCTGGTGGTGGTGTGAGCCAGCAAGGCTCA
CACCAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGCCCCCAAGCGGATGTGGAGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGCTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCCGCATGATCCACAGCACCAA
TGGCCTATACAACAGTTCATCAAGAGCCTGGACAGCTTCAGCGGGAAGCCACGGGGCTCGGGGCCACCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACAGGAGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTGTAATTGCATAGACCGCTAAATGTCTACACCAGTGTGCCCACTTTGTGAGTTTGAGG
GGAGGAGGCAGCCGAGTCTCGAAAGAGATTGTGAATCTTCTCTATGAACCTCTAGCTTCTTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTCAGCAAGCTGGATCGGTGGAGGCCTCGTC
TGGCATCCTGGAGTCTCTGTAAGTCTTCTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGCTGCCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTACCAGCATCCGCCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGGC
GGTGGGCTGGGCCCTCACCAGGGGTACACCCCTACCTTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGTCCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACAGTGGCAGCGCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCGTAAGACGTGATCAGTGTCTGCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGAGCTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCCGCCATGGTGAATTCAAGTTCTTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCAGCTGGTGGGCCCCAGTGCCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCAGATTGTCTGCGGCCCATCTGGAGCGCATTCGGGAGAAGCTGGCGGAGAATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCCGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAACATAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAATCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCACGCGCCCGAAACCTCGGCTGGTGCCTTACCGCTGCTGGATGAAGCCACCAGCG
CAGCAACCGGGACAGCTCTGCCAGGCGGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCGAGTCAAGTGGAGAACCAGTCTCGTTGTGACCGGCTGCGCATCTCCGGCGCAGAGAAATCTTACAGT
GCAGAGCGGCCGCTGGTACTTCGAGTTTGAAGGAGTACCACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCCA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGCCTATGTCTTCAATGGGCACCGCGGCCAGCGTGGCA
CTTGGGCAGTGAACCATTTGGGCGCCCTGGCAGCCGGGCGATGTCTGTTGGCTGTATGATCGACCTCACAGAGAA

2930/5332
FIGURE 2564B

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCTGCCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTCTATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTCACCACCTGGTTTCAGCAAAGGCCTGCCCCAGTTTGAGCCAGTGCCCCCTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAAGACAGCCT
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCCACCAGCACTTCCGCTGCACTGCAGGGGGCCAC
CCCCGTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCGAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCCGCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTCGCCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCACGACGTGGTGCCTGCAGACAACCGCGATGACCCCGAGATCATCCTCAACACCACCACGTA
CTATTACTCCGTGAGGCTCTTTGCTGGACAGGAGCCCAGCTGCGTGTGGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGTCCGGGTCTGTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCAATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTCCAGGTGGAACCAACACTAAGCTATTTCTGCGCTCTTCGCTCTGCCACCCA
CCAGAAGCTCATCAGTTTGAGCTGGGGAAGCAGAAGAATCATGCCGTTGTGAGCCGCCATGTTCCAAAGCGA
CGCAAGAACC CGCCCCCGCAGTGCCACCGCGGCTGGAGATGCGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGCAAGTGGAGACGAGGCGTCCCGCGAGCGGCTGGGCTGGGCGCTGCACTGCGAGGACC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTTACC CGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCACTGCG
CGCAGGCTACTATGACCTCTCATCAGCATCCACCTCGAAAGTGCCTGCCGACGCCCGCTCCATGCTCTCTGA
ATACATCGTGCCCTCAGCCTGAGACCCGCGCCATCAGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCCGCATGGCCTGCCGGGAGTTGGAGTCACCACTTCGCTGAGGCCCGCATCATTTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGTGTCTGGGGCAGCAGAGCCCCGCGCCCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGGGCAGCACGCTCGCGACCCCGCTCGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGCTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAAACAGATCTTGAAGATGATTGAGCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAAACAGCACAGGAAAAGGAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGAGAAGGGGAGAAAGAAGAAGGCTTGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACAGCGGAGCCGCTATGGCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTGACAGGATTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTCAGCTAGATGGAGAGGAGGAGGAACCAAGGAAGAGAC
CACCTTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAAGTGGGCTGGTGAAGAAGAAGGAAGAGAAAACCTGAGGA
GGAGCGGTGACGAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGCCTGGGCCCA
AGAGGACTTCGTGAGAGCCCCGAGCTGGTGGGGCCATGTTACGCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTACCGTCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGCAGATGGGCCCCCAGGAGGAGAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCAGGAGACGGT
CATGGAGGTGATGGTCAACGTCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGCGAGAACCAGCGCTCCATGTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCCCTGGACGTGGCTGCTGCCCTCCGTATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGGCGCTGCT

2931/5332
FIGURE 2564C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCTGCGAGGGATGGCCCAGGCATCCGCAGGGACCGCGCGGCGAGCACTTTGG
TGAGGAACCGCCTGAAGAAAACCGGGTGACCTGGGACACGCCATCATGTCCTTCTATGCCGCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCCCACCCTGGGCAAAGA
TGGGGCTCTGGTGACGCCAAAGATGTCAGCATCCTTCGTGCCGACCACAAGGCGTCCATGGTGCTCTTCTCGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTCTGCCCGACATGAGGGC
AGCCGCCCTCGCTGGACACGGCCACTTTACGACACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATACCAAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGGTGCTTCGCTCACCAGGCGCAGCGTGACGTATCGAGGACTGCCCT
CATGTGCTCTGTGCAGGTACATCCGCCCCGTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTCGACGTGCCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCACCACTATGAGCGCTGTTGGAAGTACTACTGCCCT
ACCCACGGGCTGGGCCAACTTCGGGGTCACTCAGAGGAGGAGCTGCACCTCACACGGAAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCATAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCCTCATCTCATTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA
AGTTGCACTTTGATCCCCGGCCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGGCGGATACACACAGAGAGTGGGCCCTCGACAAGATCCAGAACAACCTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTACCGCTG
GCCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGACGATAGAGAAGGCCAGGGAGGGTGAGGAGA
GAAGACGGAAGAAAAAAGCGGGAAGATATCAAAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCTGTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGTTACAAGAGGCCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTCAG
CAGTGGGCGAGTGGAAAAGTCCCCACATGAACAGGAGATTAAATCTTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCCTGCTCTATTCTTGTCCACTCCGGCTAAAGTGTGGGCGAGCGGTGGCCACGCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACCTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCTGAGATCGTGAAGGCTGGCTCCGCTCCTTCTTCGAGAGTGCCTCGGAGGACATCGAGAAGATGGT
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGCTCCTCACCACCTCTTCCAGCACATCGCCACGACCACTTCGGAGATGACGTCAT
CCTGGACGACGTCCAGGTCTCTTGCTACCGAACGCTGTGCAGTATCTACTCCCTGGGAACCAACAAGAACTTA
TGTGGAAAAGCTTCGGCCAGCCCTCGGGGAGTGCTTGGCCGCTGCGCAGCAGCCATGCCGCTGGCCTTCTGGA
GCGCAGCTGAACGAGTACAACGCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCTTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCCACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCGCTACACAGAGATGCCGATGTATCGAGATCACGCTGCCCATGCTATGACGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCCGAGGCACCCCTTCCGCCCTGCCCGCGCGCCCCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCCATTGTGAGCCGTGCACGGCCGAGCTCCTGCAGTCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGGGACGAGTTCCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGTCTATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCCAGCGCGGA
GGAGCTGTTTCAGGATGGTGGGCGAGATCTTCATCTACTGGTCCAAAGTCCACAACTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCCACTGAAGAAGATGCTGCCCATCGGCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

2932/5332
FIGURE 2564D

TCACCTTCAGGGAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGCGTCCCGGGTCG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGCCCTGTTTCCGTATGACGCCCTGTACAACCTGCCACGCACCGGGCATGTAACATGTTCTGGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCCTGCACTTCAGCCG
CACTGCCCTGACGGAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT
CAGTGCCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTCTGGATCTCAATGCCTTTGAGAGACAGAACAAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCAATCGCCAGAACGGAGAGAAGGTCAATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAAATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCTATTGAAGAGCAGGGCAAGAGGAACCTCTCCAAAGCCATGTCGGTGCC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGTCCTGACCGGGAACAGCAGAGCCTGGCGCAGAG
TCGCCATATGGGACGCAGTGGTGGGATTCTGACGCTGTTGCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGTGCTGCTCGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGCAGATGGTGGACATGCTCGTGGAACTCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTGAAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTCAGCGGTCCAGAAAT
CCAGTTCTGCTTTCTGCTGCCGAAGCGGATGAGAAGCAATGATCAACTGCGAAGAGTTCGCCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTCGGAGCATGTGCCGCATGACCC
TCGCCGACAACTTCTGAGCTGGCCGAGAGCATCTTGAGTACTTCCGCCCTACCTGGGCCGCATCGAGAT
CATGGGCGCGTCACGCCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTTCTTCGACGTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCGAGATCGCCGCGCAGATCTCGGAGCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGCGGAGGCGGGCGGGAAGGCGCGGAGGAGGGCGCGGGGGCT
CGAGGGCACGGCGGCCACGGCGCGGGCGGGGGCGACGGCGCGGGTGTGGCGGCCGAGGCCGGGCGCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGCGGGCGGTGCGGCGGCTGCGGCGGCTTACGGCCCCGAGGCGGGCACCGCAGT
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGCGGGCGGGCGGCTGGGCCT
GCTCTGGGGCTCGTGTTCGGCGGGCGGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCTGGCAGG
CATGCCCGACCCACCGAGCGAGGTGACAGGCGAGCAGCCGGCCGGGCGGGCGGAGACGACGCGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGCGGTGCACGAGGCCGGCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGCCCCCTTCGGCCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCCGAGCCGGAACAGAGCTGGAGCCGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGACAGGGGTGAAGTTCTGAACTACCTGTC
CCGGAACCTTTACACCTGCGGTTCTTGCCTCTTCTTGGCATTGTCATCAACTTCATCTGCTGTTTATAA
GGTCTCAGACTCTCCACAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGACGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCGGAGAGGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCTCCTGCATACACTGGTGGCCTTTCT
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT
GGAGTTTGTATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGAGTGGGACCGACTGGTGCT
CAACACGCCGCTTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCCAATGAGCG

2933/5332
FIGURE 2564E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTCATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCTGATGTATTTGATAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTTCTTCCCAGCTGGTGATTGTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCACTCAAGTGCCTTATTCTCACAGCA
AGCCCCTTAGTCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

2934/5332
FIGURE 2565

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAGTGTTAGCCTCCAGCCCTG
GTTGTGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTCAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGCATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCTGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

2935/5332
FIGURE 2566

AGAGGGGCGGGAGCTGAGGCGGGAGCGGACAGGCTGGTGGGCGAGCGAGAGGCGGCGGAATGCTGGACTACCACG
CGGCGAACCAGTCGTACCACTACGGCCCCAGCAGCGCGGCAATGGCGCTGGCGCGGGGGCAGCATGGGCGACT
ACATGGCCCAGGAGGACGACTGGGACCGGGACCTGCTGCTGGACCCGGCCTGGGAGAAGCAGCAGCGCAAGACCT
TCACGGCATGGTGCAACTCCCACCTGCGGAAGGCAGGCACACAGATCGAGAACATTGATGAGGACTTCCGAGACG
GGCTCAAGCTCATGCTGCTCCTGGAGGTCATATCAGGGGAGCGGTTACCTAAGCCGGAGCGGGGGAAGATGAGAG
TGCACAAAATCAACAATGTGAACAAAGCGCTGGACTTTATTGCCAGCAAAGGCGTCAAGCTGGTCTCCATCGGGG
CAGAAGAGATTGTGGACGGCAACGCAAAGATGACCCTGGGAATGATCTGGACCATCATCCTTAGGTTCCGCATCC
AGGACATCTCCGTGGAAGAGACCTCGGCCAAGGAAGGGCTCCTTCTCTGGTGCCAGAGAAAGACAGCCCCGTATA
AGAACGTCAATGTGCAGAACTTCCACATCAGCTGGAAGGATGGTCTTGCCCTCAATGCCCTGATCCACCGGCACA
GACCAGAGCTGATTGAGTATGACAAGCTGAGGAAGGACGACCCTGTCACCAACCTGAACAATGCCTTCGAAGTGG
CTGAGAAATACCTCGACATCCCCAAGATGCTGGATGCAGAGGACATCGTGAACACGGCCCCGGCCGACGAGAAGG
CCATAATGACCTATGTGTCCAGCTTCTACCATGCCTTTTCAGGAGCGCAGAAGGCTGAAACTGCCGCCAACCGGA
TCTGTAAGTGCTGGCTGTCAACCAAGAGAACGAGCACCTGATGGAGGACTACGAGAAGCTGGCCAGCGACCTCC
TGGAGTGGATCCGGCGCACCATCCCTGGCTGGAGGACCGTGTGCCCCAAAAGACTATCCAGGAGATGCAGCAGA
AGCTGGAGGACTTCCGCGACTACCGGCGTGTGCACAAGCCGCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCA
ACTTCAACACGCTGCAGACCAAGCTGCGCCTCAGCAACCGGCCCCGCTTCATGCCCTCCGAGGGCAAGATGGTCT
CGGACATCAACAATGGCTGGCAGCACTTGGAGCAGGCTGAGAAGGGCTACGAGGAGTGGCTGCTGAATGAGATCC
GCAGGCTGGAGCGGCTCGACCCTGGCAGAGAAGTTCCGGCAGAAGGCCCTCCATCCACGAGGCCCTGGACTGACG
GGAAGGAAGCCATGCTGAAGCACCGGGACTACGAGACGGCCACACTATCGGACATCAAAGCCCTCATTGCAAGC
ACGAGGCCTTCGAGAGCGACCTGGCTGCGCACCGAGACCGCGTGGAGCAGATCGCCGCCATTGCCAGGAGCTCA
ACGAGCTGGATTACTACGACTCCCACAATGTCAACACCCGGTGCCAGAAGATCTGTGACCACTGGGACGCCCTCG
GCTCTCTGACACATAGTCGCAGGGAAGCCCTGGAGAAAACAGAGAAGCAGCTGGAGGCCATCGACCAGCTGCACC
TGGAAATACGCCAAGCGCGCGGCCCTTCAACAACCTGGATGGAGAGCGCCATGGAGGACCTCCAGGACATGTTCA
TCGTCCATACCATCGAGGAGATTGAGGGCCTGATCTCAGCCCATGACCAGTTCAAGTCCACCCTGCCGACGCCG
ATAGGGAGCGCGAGGCCATCCTGGCCATCCACAAGGAGGCCAGAGGATCGCTGAGAGCAACCACATCAAGCTGT
CGGGCAGCAACCCCTACACCACCGTCACCCGCAATCATCAACTCCAAGTGGGAGAAGGTGCAGCAGCTGGTGC
CAAAACGGGACCATGCCCTCCTGGAGGAGCAGAGCAAGCAGCAGTCCAACGAGCACCTGCGCCGCCAGTTCGCCA
GCCAGGCCAATGTTGTGGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGCGCATCTCCATTGAGATGAACG
GGACCCTGGAGGACCAGCTGAGCCACCTGAAGCAGTATGAACGCAGCATCGTGGACTACAAGCCCAACCTGGACC
TGCTGGAGCAGCAGCACCAGCTCATCCAGGAGGCCCTCATCTTCGACAACAAGCACACCAACTATACCATGGAGC
ACATCCGCTGGGCTGGGAGCAGCTGCTCACCACCATTCCCCGACCATCAACGAGGTGGAGAACCAGATCCTCA
CCCCGACGCCAAGGGCATCAGCCAGGAGCAGATGCAGGAGTTCGGGGCGTCCTTCAACCACTTCGACAAGGATC
ATGGCGGGGCGCTGGGGCCCGAGGAGTTCAAGGCCTGCCTCATCAGCCTGGGCTACGACGTGGAGAACCACCGGC
AGGGTGAGGCCGAGTTCAACCGCATCATGAGCCTGGTCGACCCCAACCATAGCGGCCTTGTGACCTTCAAGCCT
TCATCGACTTCATGTGCGGGAGACACCGACACGGACAGGCTGACCAGGTTCATCGCTTCTTCAAGGTCTTAG
CAGGGGACAAGAACTTCATCACAGCTGAGGAGCTGCGGAGAGAGCTGCCCCCGACAGGCCGAGTACTGCATCG
CCCGCATGGCGCCATACAGGGCCCTGACGCCGTGCCCGGTGCCCTCGACTACAAGTCCTTCTCCACGGCCTTGT
ATGGCGAGAGCGACCTGTGAGGCCCGAGAGACCTGACCAACACCCCGACGGCCTCCAGGAGGGGCTGGGCAG
CCCCACAGTCCCATTCCTCCACTCTGTATCTATGCAAAGCACTCTCTGCAGTCTCCGGGGTGGGTGGGTGGGCA

2936/5332
FIGURE 2567

GCCCCGCGAGGATGAGCCCAGGGCTCCACGGTCCCCTACCTAGACCCCACGCGATTCCCTCACCTGAGACCCCGTCC
CACACAGCCCCAGCTGGGGCAAACAGCCCCCTCCCCACTTCCCATCTGTAATTTGCAGGGAGATCGACGACGTGA
TCAGCGCAGACCTGCAGTCTCTCCAGGTGGGGACTGTTCTGGAGGGGCGGCATGGGGCGGGGATCTTGGCCAGC
GCTAAACTTCCGCCATGCGGCAGGGCCCCCTACCTGCCCCCTGGAGCTGGGGTTGGAGCAGCTGTTTCAGGAGCTGG
CTGGAGAGCCAGGGCCCCATACCTCCACCCCCAGAGAGATCGGGCTCAGGACCTGTGAGCAGCTGCTGCAGTGTTT
CGGGCATGGGCAAAGCCTGGCCTTACACCACTTCCAGCAGCTCTGGGGCTACCTCCTGGAGTGGCAGGCCATATT
TAACAAGTTCGATGAGGACACCTCTGGAACCATGAACTCCTACGAGCTGAGGCTGGCACTGAATGCAGCAGGCTT
CCACCTGAACAACCAGCTGACCCAGACCCTCACCAGCCGCTACCGGGATAGCCGTCTGCGTGTGGACTTCGAGCG
GTTGCTGTCTGTGTGGCCACCTCACCTGCATCTTCTGCCACTGCAGCCAGCACCTGGATGGGGGTGAGGGGGT
CATCTGCCTGACCCACAGACAGTGGATGGAGGTGGCCACCTTCTCCTAGGATCTCCGGATGGGCGCACCTGCTGC
TCAGGGCAGGGTTGCTGAGCAAGACCACCTCCCTAGGCCTTGCCTGGCATGGGTGCCACTCTCTCTGGCATCCAC
CTGTCTGGGGCTAGTCTCTGGCCCTCACTGCTCACGGCCGGGTGACCACTCTGGCCTGCGTACTCCTCACTCAGA
AACAAGAACAGCGACAGCCCTTCTCGAGCAGATGACACGAGCTAGTCCACGTTGACAGCTTAAGACAGTGCTAGC
TCTGCCCTGGCTCTCCTAGAAGGTGGAGGACAGACACAGGAGAAATAAAAAAGATGATGCTGCAGGAATCCTTC
TTAAAAATATTACATGTTTTATTATCCTGTCCCCAGAGGGTGGTTTATCCAGAAACCAAGAAAAAAATCAATCA
GAATAAACTCAAAAAAAAAGGTAGGGGGAGCAAAACCATCAACCAÇCAGGCAGCCAGGCCATCAGCCCACCTCC
ACCTCTGGAGGGTCCCCAGAGACCCACGCCCGACGCAGACCCGGAGGAGCATCAGCAAGGGGCCCGGCAGAGAA
TCGGCTATGTCTTCATTATGAGAGCAGGAGAGACGGCAGAGATATGTTGCTAGGTGAATATATATTTATATAATA
AATCCGTAAGTTAATAAAGTAAATAGTAATTCTCTGAAA

2937/5332
FIGURE 2568

ATGGCTCTGTACCTCTCCTGTGCTGGGAGCCATCTGGTGACCATGATGCCCTGCCCTGGCCCCACGCCACTCAGAG
TCTGGATGGAGCAGTATTTCCCCAAAGGACTCTGGAGCCATTGGAGGAAATGGGAGAAACAGAACTACCTGTCC
CGGAACTTTTATCCACTGCGGTTCTTGCCCTCTTCTATGCATTGGCCATCAACTTCATCTTGCTATTTTATAAG
GTCTCAGACTCTCCACCAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTCAGGTGCAGGCTCTGGT
GGCAGCTCTGGCTGGGGCTTGGGGGCCGAGAGGAGGCAGAGGGCGATGAGGATGAGAACATGGTGTACTACTTC
CTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCTC
TGCATCATTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCTG
GAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCAGTGGGACCGACTGGTGCTC
AACACGCCGTAA

2938/5332
FIGURE 2569

ATCTCCCACTCCTGCAGCTCTTCTCACAGGACCAGCCACTAGCGCAGCCTCGAGCGATGGCCTATGTCCCCGCAC
CGGGCTACCAGCCACCTACAACCCGACGCTGCCTTACTACCAGCCCATCCCGGGCGGGCTCAACGTGGGAATGT
CTGTTTACATCCAAGGAGTGGCCAGCGAGCACATGAAGCGGTTCTTCGTGAACTTTGTGGTTGGGCAGGATCCGG
GCTCAGACGTCGCCTTCCACTTCAATCCGCGGTTTGACGGCTGGGACAAGGTGGTCTTCAACACGTTGCAGGGCG
GGAAGTGGGGCAGCGAGGAGAGGAAGAGGAGCATGCCCTTCAAAAAGGGTGCCGCCTTTGAGCTGGTCTTCATAG
TCCTGGCTGAGCACTACAAGGTGGTGGTAAATGGAAATCCCTTCTATGAGTACGGGCACCGCTTCCCCTACAGA
TGGTCACCCACCTGCAAGTGGATGGGGATCTGCAACTTCAATCAATCAACTTCATCGGAGGCCAGCCCCCTCCGGC
CCCAGGGACCCCCGATGATGCCACCTTACCCTGGTCCCGGACATTGCCATCAACAGCTGAACAGCCTGCCCACCA
TGGAAGGACCCCAACCTTCAACCCGCTGTGCCATATTTCCGGAGGCTGCAAGGAGGGCTCACAGCTCGAAGAA
CCATCATCATCAAGGGCTATGTGCCTCCACAGGCAAGAGCTTTGCTATCAACTTCAAGGTGGGCTCCTCAGGGG
ACATAGCTCTGCACATTAATCCCCGCATGGGCAACGGTACCGTGGTCCGGAACAGCCTTCTGAATGGCTCGTGGG
GATCCGAGGAGAAGAAGATCACCCACAACCCATTTGGTCCCGGACAGTTCTTTGATCTGTCCATTGCTGTGGCT
TGGATCGCTTCAAGGTTTACGCCAATGGCCAGCACCTCTTTGACTTTGCCCATCGCCTCTCGGCCTTCCAGAGGG
TGGACACATTGAAATCCAGGGTGATGTCACCTTGTCTTATGTCCAGATCTAATCTATTCTGGGGCCATAACTC
ATGGGAAACAGAATTATCCCCTAGGACTCCTTTCTAAGCCCTAATAAAATGTCTGAGGGTGTCTC

2939/5332
FIGURE 2570

GAACGCAGTAGACGAAGGCGGCGGCGATGCGGCGGGGATAGTGGCTTCTCGCAGACTCCGCGACCTACTGACCC
GGCGACTGACAGGCTCCAACCTACCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAGAGGAGG
CTTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTGTGACGTCTGCGCAGAAACATG
TTCTGCATGTCCAGCTCAACCGGCCCAACAAGAGGAATGCCATGAACAAGGTCTTCTGGAGAGAGATGGTAGAGT
GCTTCAACAAGATTTCGAGAGACGCTGACTGTGCGGCGGTGGTGATCTCTGGTGCAGGAAAAATGTTCACTGCAG
GTATTGACCTGATGGACATGGCTTCGGACATCCTGCAGCCCAAGGAGATGATGTGGCCCGGATCAGCTGGTACC
TCCGTGACATCATCACTCGATAACCAGGAGACCTTCAACGTCATCGAGAGGTGCCCCAAGCCCGTGATTGCTGCCG
TCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGTACCGCCTGTGACATCCGGTACTGTGCCCAGGATGCTT
TCTTCCAGGTGAAGGAGGTGGACGTGGGTTTGGCTGCCGATGTAGGAACACTGCAGCGCCTGCCCAAGGTCATCG
GGAACCAGAGCCTGGTCAACGAGCTGGCCTTCACCGCCCGCAAGATGATGGCTGACGAGGCCCTGGGCAGTGGGC
TGGTCAGCCGGGTGTCCAGACAAAGAGGTCATGCTGGATGCTGCCTTAGCGCTGGCGGCCGAGATTTCCAGCA
AGAGCCCCGTGGCGGTGCAGAGCACCAAGGTCAACCTGCTGTATTCCCGCGACCATTCCGTGGCCGAGAGCCTCA
ACTACGTGGCGTCTTGGAACATGAGCATGCTGCAGACCCAAGACCTCGTGAAGTCGGTCCAGGCCACGACTGAGA
ACAAGGAAGTGAACACCGTCACCTTCTCCAAGCTCTGAGAGCCCTCGCGTCCCAGGCCCCAGCCAGGGGGCCGGC
CTTGTCGCCCTCATCCACAGAAAGGGAGGATGGGCGATGACAGTTGTTTCTATGCCTTCTGACCCAGTTTCCCA
GTTTATAACTTTATGACAATGAGTTTCTCAAGCCCAAGGCCTTATCTTCACCCACAAACAATAAAGCAA

2940/5332
FIGURE 2571

GGACGAGCAGCGGAGGCGGTTCGGGAGCGATGGTGAAGATGGCGGCGGCGGGCGGCGGAGGCGGCGGTGGCCGCTA
CTACGGCGGCGGCAGTGAGGGCGGCGGGCCCCCTAAGCGGCTCAAGACTGACAACGCCGGCGACCAGCACGGAGG
CGGCGGCGGTGGCGGTGGAGGAGCCGGGGCGGCGGGCGGCGGCGGCGGTGGGGAGAACTACGATGACCCGCACAA
AACCCTGCCCTCCCAGTTGTCCACATCAGGGGCTGATTGACGGTGTGGTGGGAAGCAGACCTTGTGGAGGCCTT
GCAGGAGTTTGGACCCATCAGCTATGTGGTGGTAATGCCTAAAAAGAGACAAGCACTGGTGGAGTTTGAAGATGT
GTTGGGGGCTTGCAACGCAGTGAACACGCAGCCGACAACCAAATATACATTGCTGGTCACCCAGCTTTTGTCAA
CTACTCTACCAGCCAGAAGATCTCCCGCCCTGGGGACTCGGATGACTCCCGAGCGTGAACAGTGTGCTTCTCTT
TACCATCCTGAACCCCATTTATTGATCACCACGGATGTTCTTTACACTATCTGTAATCCTTGTGGCCCTGTCCA
GAGAATTGTCATTTTCAGGAAGAATGGAGTTCAGGCGATGGTGAATTTGACTCAGTTCAAAGTGCCAGCGGGC
CAAGGCCTCTCTCAATGGGGCTGATATCTATTCTGGCTGTTGCACTCTGAAGATCGAATACGCAAAGCCTACACG
CTTGAATGTGTTCAAGAATGATCAGGATACTTGGGACTACACAAACCCCAATCTCAGTGGACAAGGTGACCCCTGG
CAGCAACCCCAACAAACGCCAGAGGCAGCCCCCTCTCTGGGAGATCACCCCGCAGAATATGGAGGGCCCCACGG
TGGGTACCACAGCCATTACCATGATGAGGGCTACGGGCCCCCCCCACCTCACTACGAAGGGAGAAGGATGGGTCC
ACCACTGGGGGGTCAACGTCGGGGCCCAAGTCGCTACGGCCCCCAGTATGGGCACCCCCACCCCTCCCCACC
ACCCGAGTATGGCCCTCACGCCGACAGCCCTGTGCTCATGGTCTATGGCTTGGATCAATCTAAGATGAAGTGTGA
CCGAGTCTTCAATGTCTTCTGCTTATATGGCAATGTGGAGAAGGTGAAATTCATGAAAAGCAAGCCGGGGCCGC
CATGGTGGAGATGGCTGATGGCTACGCTGTAGACCGGGCCATTACCCACCTCAACAACAACCTTCATGTTTGGGCA
GAAGCTGAATGTCTGTGCTCTCCAAGCAGCCAGCCATCATGCCCTGGTCAGTCATACGGGTGGGAAGACGGGTCTTG
CAGTTACAAAGACTTCAGTGAATCCCGGAACAATCGGTTCTCCACCCAGAGCAGGCAGCCAAGAACCGCATCCA
GCACCCAGCAACGTGCTGCACTTCTTCAACGCCCCGCTGGAGGTGACCGAGGAGAACCTTCTTTGAGATCTGCGA
TGAGCTGGGAGTGAAGCGGCCATCTTCTGTGAAAGTATTCTCAGGCAAAAGTGAGCGCAGCTCCTCTGGACTGCT
GGAGTGGGAATCCAAGAGCGATGCCCTGGAGACTCTGGGCTTCTGAACCATTACCAGATGAAAAACCCAAATGG
TCCATACCCCTTACACTCTGAAGTTGTGTTTCTCCACTGCTCAGCACGCCTCCTAATTAGGTGCCTAGGAAGAGTC
CCATCTGAGCAGGAAGACATTTCTCTTTCCCTTATGCCATTTTTTGTGTTTTGTTATTTGCAAAAGATCTTGTATT
CCTTTTTTTTTTTTTTTTTTTTTTTTTTAAATGCTAGGTTTGTAGAGGCTTACTTAACCTTAATGGAAACGCTGG
AAATCTGCAGGGGGAGGGAGAGGGGAAGTGTATCTCCCAAGATTAACCTTCACTTTTAAAAAATTATTGTACAT
GTGATTTTTTTTTTCTGTTTCATACATTGTGCTGCCCATGTACTCTTGGCACATTTCAATAAAATTGTTTGA
AAATAACACAGC

2941/5332
FIGURE 2572

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAATTATTCTCCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGAAGGGGTGGCCCCGTACATGCAGAGCGAACGCTGTGCGAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTCTTCGCCCC
TCGCCAAGGAACTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGTACTCCTGCGCTGTACACGCAGAACATAGATAACCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGGAGGGAGCACGCCAGCATAGATGCCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCCAGTGAAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGCTGGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT
CCCCAAAAGTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCCACTCTGTCTC
CTGCCCCCGGGGCTGTGGCTAAGTAAACCATAACCTAACCTACCCAGTGTGGGTGTGGGCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTACGTGGGAGCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAACAAAC
AAAAACAACTAAC

2942/5332

FIGURE 2573

ATGGCTGGGGTCGCGTGCTTGGGAAAAGCTGCCGACGCAGATGAATGGTGCGACAGCGGCCTGGGCTCCCTGGGT
CCGGACGCAGCGGCCCCCGGAGGACCTGGGTTGGGCGCGGAGTTGGGCCCGGGCTGTCTGTGGGCTCCCCTCGTC
TTCGGCTACGTCACTGAGGATGGGGACACGGCACTGCACTTGGCTGTGATTATCAGCATGAACCTTCCTGGAT
TTTCTTCTAGGCTTCTCGGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTG
GCAGCCATCCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGGCGCCGGGCTGTGTGTGGCGGAGCGT
AGGGGCCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGGCACACGCCTGTGCCCGTGCCCTGCTTCAGCCCCGC
CCCCGGCGCCCCAGGGAAGCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCCGACACCAACCATAAC
CCTGTCGCCTTGTACCCCGATTCCGACTTGGAGAAGGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTG
GAGGCTGAAAACACTACGAGGGCCACACCCCACTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTG
CTCCGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCACGTGCGGCCGGAGCCCCCTTCATTTGGCAGTGGAG
GCCCAGGCAGCCGATGTGCTGGAGCTTCTCCTGAGGGCAGGCGCGAACCTGCTGCCCCGCATGTACGGTGGCCGC
ACCCCACTCGGCAGTGCCATGTCCGGCCCCAACCCCATCCTCGCCCGCCTCCTCCGTGCACACGGAGCCCCCTGAG
CCCGAGGGCGAGGACGAGAAATCCGGCCCCCTGCAGCAGCAGTAGCGACAGCGACAGCGGAGACGAGGGCGTGAGT
CAGGAGGAGAGACAGGGCAGCCCAGCTGGGGGGTCAGGATAG

2943/5332
FIGURE 2574

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTTT
CCGGTCCAAGATGGCTGCGTCCATGGCGCGCGCTTGTTGGCCTTGCTGACTCGTCGGGGGTTCCGGCCCCGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTTACCTGTACCCCAAGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGACGTGCGCGTGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTGGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTCAGAAGCGCCTGTCCCA
CGTGTCTGGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTCACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGTTGAAGGCTG
TGGGATGACACCAAATGCCAACCATCCCAAATTTACAACATCGACCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGACAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCTT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTGGATATGCCACCCAAGAAGTGGG
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCCAGTGC
TTCCAAGTGCACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCTGTGCTGTCCCCCGCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTTACCTCGGCACTGATCGGATCACAGCCCTACCCAGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTTGGAGTTCAGGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCGTCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCTGTTATCATTGAGGGTCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGAC

2944/5332
FIGURE 2575

AGCTGGATTACGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCAGTTCTTCCTGCGTGCGGGCGAGAGTG GTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTTCGGGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCA
CTGGCCGCGAGGCCGCTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCAACCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAACGGCTGGGGGCACAGTGGGCTGGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCTTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGT

2945/5332
FIGURE 2576A

GGGGATTCAACATGGCGGCGGGAGTGTCCGCGGTGGTGGCGGTGCAAGAGAGCTGAGGGAGGCGCGAGGGCGCGG
AGTTCCAGGTCGAGCAGTTAGGCCGCGAGCGACTGCGGCGCCGAGCCGATGAGTAACCCGAAGCCCCAGAGGAG
TGGTCACCTGCCTGAGGGCACTTCTGTCCCACAGCATCAGACCAGGCCGACCGAGTCCCCGGCACCATGTTTG
GGAAGAGGAAGAAGCGGGTGGAGATCTCCGCGCGGTCCAACCTTCGAGCACCGCGTGCACACGGGCTTCGACCAGC
ACGAGCAGAAGTTCACGGGGCTGCCCCGCCAGTGGCAGAGCCTGATCGAGGAGTCGGCTCGCCGGCCCCAAGCCCC
TCGTGCACCCCGCCTGCATCACCTCCATCCAGCCCGGGGCCCCAAGACCATCGTGCGGGGCAGCAAAGGTGCCA
AAGATGGGGCCCTCACGCTGCTGTGGACGAGTTTGAGAACATGTCGGTGACACGCTCCAACCTCCCTGCGGAGAG
ACAGCCCCGCGCGCCCGCCCGTGCCTGCCAGGAAAATGGGATGCCAGAGGAGCCGGCCACCACGGCCAGAGGGG
GCCAGGGAAGGCAGGCAGCCGAGGCCGGTTCGCCGGTACAGCGAGGCGGGTGGCGGCAGTGGTGACAGGCGAC
GGCGGGGGCCAGAGAAGAGGCCCAAGTCTTCCAGGGAGGGCTCAGGGGGTCCCCAGGAGTCTCCCGGGACAAAC
GCCCCCTCTCCGGGCTGATGTGCGCACCCCCAGCCTGCTGGTCTGGCCAGTGGGGCGAACTGGCAGCTGGCC
GGCCCTTTAACACCTACCCGAGGGCTGACACGGACCAACCATCCCGGGGTGCCAGGGGGAGCCTCATGACGTGG
CCCCTAACGGGCCATCAGCGGGGGGCTGGCCATCCCCAGTCTCCTCCTCCTCCTCCCGGCTCCACCCGAG
CCCGAGGTGCCCCAGCCCTGGAGTGTGGGACCCACGCCTCAGAGCCCCAGCTGGCCCTCCAGCCTGCACCC
CCGCCGCCCCCTGCTGTTCCTGGGCCCCCTGGCCCCGCTCACCACAGCGGGAGCCACAGCGAGTATCCCATGAGC
AGTTCGGGGTGCCTGCAGCTGGTGGTGGACCCAGCGACCCCGCTCCTACCTGGACAACCTCATCAAGATTG
CGAGGGCTCCACGGGCATCGTGTGCATCGCCACCGTGCAGCTCGGGCAAGCTGGTGGCGCTCAAGAAGATGG
ACCTGCGCAAGCAGCAGAGGCGGAGCTGCTCTTCAACGAGGTGGTAATCATGAGGGACTACCAGCACGAGAATG
TGGTGGAGATGTACAACAGCTACCTGGTGGGGGACGAGCTCTGGGTGGTTCATGGAGTTCTGGAAGGAGGCGCCC
TCACCGACATGGTACCCACACCAGGATGAACGAGGAGCAGATCGCGCCGTGTGCCTTGCACTGCTGCAGGCC
TGTCGGTGTCTCACGCCCAGGGCGTATCCACGGGACATCAAGAGCGACTCGATCCTGCTGACCCATGATGGCA
GGGTGAAGCTGTACAGCTTTGGGTTCTGCGCCAGGTGAGCAAGGAAGTCCCCGAAGGAAGTCGCTGGTGGCA
CGCCCTACTGGATGGCCCCAGAGCTCATCTCCCGCTTCCCTACGGGCCAGAGGTAGACATCTGGTGGTGGGA
TAATGGTGATTGAGATGGTGGACGGAGAGCCCCCTACTTCAACGAGCCACCCCTCAAAGCCATGAAGATGATTC
GGGACAACCTGCCACCCGACTGAAGAACCTGCACAAGGTGTGCCATCCCTGAAGGGCTTCTGGACCGCCTGC
TGGTGGAGACCCTGCCAGCGGGCCACGGCAGCCGAGCTGCTGAAGCACCCATTCTGGCCAAGGCAGGGCCGC
CTGCCAGCATCGTGCCCTCATGCGCCAGAACCAGCAGAGTGAAGGCCAGCGCCCTTCCCTCAACCAAAGAGC
CCCCCGGGTCAACCCCGCCCCACTGAGGCCAGTAGGGGGCCAGGCCTCCCACTCCTCCAGCCCGGAGATGCTC
CGCGTGGCACACCCTCCTTGCTGGGGGTAGATGAGACCCTACTACTGAACTCCAGTTTGGATCTCGTGACTTTT
AGAAAAACACAGGGACTCGTGGGAGCAAGCGAGGCTCCAGGACCCCCACCCTCTGGGACAGGCCCTCCCCATG
TTCTTCTGTCTCCAGGAAGGGCAGCGGCCCTCCCATCACTGGAAGTCTGCAGTGGGGTTCGCTGGGGGTGGAGAG
AACACTAAGAGGTGAACATGTATGAGTGTGTGCACGCGTGTGAGTGTGCATGTGTGTGTGTGCAAAGGTCCAGCC
ACCCCGTCTCCAGCCTGCAAGGGGTGTCTGGCGCTTGCTGACACCCAGCCCCCTCTCCCTGAGCCATTGT
GGGGTGCATCATGAATGTCCGAAGAGTGGCCTTTTCCCGTAGCCCTGCGCCCCCTTTCTGTGGCTGGATGGGGA
GACAGGTACAGGCCCCACCCTCTCCAGCCCCCTGCAGCAAATGACTACTGCACCTGGACAGCCTCCTCTTTTCT
AGAAGTCTATTTATATTGTCATTTTATAACACTCTAGCCCCCTGCCCTTATTGGGGGACAGATGGTCCCTGTCTG
CGGGGTGGCCCTGGCAGAACCCTGCCTGAAGAACCAGGTTCTGCCCCGTACAGCGAGCCCCAGCCGCCCCACC
CCTGCCTCGAGTTAGTTTACAATTAAAACATTGTCTGTGTTTGTGTCTGTGTGCGATGTGTGGGGGACAGGGG
CCCTGCCCGGCTGTCTTGGGTGGGAATTTGCAGGGAGAGGGTCTGGATCTGGGAGCAAACCACGATTCCAGCCAA
GGCAGGGCAAGGGTGGGGTGGGGAGTGGGGAGTTCAGGTCATAGCAGCCAGTAAGCTCCCCAGCCTGCCACTCC
CCAGAAATGGGGCAGGATTGTCCCCACCCCTGGAAGCAGCCAGTTTGCCACAGTCCATGTGCAGACTGATCCAGT
TTGCCAAATCTGCAATTTCTGGAACCTTTTAAAGGCTGTCTTGAGCGCGTTTGGTGAGTAGGAGCTAACCCAAG
TTAGTAAATTGAAGGCCATTTGGCAAATTGGTCAGTGGGCAGATGGGCTTTTGGGGATTGACTGAGGCTGACTGG
CCTGGAGCTGCTGGCTTCGGAGAGACACCCTGTGAAGTGTGTCTTCCACGCAGGAGCCCAGAGCCGAGCCACG
CTGGGGGGAATCTGACTGGCATGGAGGTGGCCATGCCACCATCGCTGCTGCAGCTGCATCCTGGCACTTTGCGCC
TCAGGCCCTGTTGGGCTCCACTTTCTGCATCCTCCCCAGCCCCAGGGAGGCAGTGGAGTGGGGAGAGAGCCAGG
AGTGAGCCTCCGTCCCCAAAGCCAGCCAGGCGTATCAGCACCAGAGACCTCAGCCTGGTCTCTCGGGAAGTGA
GTGGCCAGGGCAGAGATTCCAGGTTAGTCCACGCCTCCACCCCTTACAGGTCTGACCCCAAGAATCAGAGCAC

2946/5332
FIGURE 2576B

TGTGTGTGTGGCAGGGCCTATGCCAAGTGCAAACACAGCCTAGATGGATCATCACAGAGTGAAACCCAGCGGTGC
AAGCAGCTGTGCTCTCTGCGATGTATTGGAGGCTTAGGTGAGGTGGATGCCTTTCTGGAAAAAAAAAATGCTA
ACATTGGCAAAAAGAAGAAATAGAAAAAAGACCAAATAACTGTCTCCTCACTGCACACACACTCCAGAATAAAT
AAAAGGTTTTCAGGCTTGAATGCACTTTCAAATGAGATTTTTTTTTTTTTTTGAGACGGAGTATCGCTCTGTGCGC
CCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGCAACTTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCT
CAGCCTCCCAAGTAGCTGGGATTACAGGCGCTTGCCACCACGCCAGGCTAATTTTTTGTATTTTGTAGTAGAGACT
GGATTTTCGCCATCTTGGCCAGACTGGTCTTGAACCTCGTACCTCGTGATCCACCCACCTCAGCCTCCCAAGTGC
TGGGATTACAGGCATGAGCCACCATGCCTGGCCTCAAATGAGGTTTACCAGACTTTGAAGGAGCAGGTAATTCCT
TCTACCTTGTGAACAAGTTGTTCCAGAAAGATAGCAGCTCAGGAGGCCTCTGTGACCATGGTTCCAGACCCAGAT
AAGGACGGCAAAGAACAGAGCATCTCAGAAACGCAAGGCTCACAGCCAGGGTGCCCGGCGACCCACGGGCACTG
AGAACAGCTAGCTCTAGGAGCTCCACTCTCCTGCTGAAGAAACCACGGGCTCAGAGACGGGGAGCTCCCTCGCCC
AGCCACATCTGTGACCCACGGTAACTCTGCTGGTTTTGGTGCCTTCAGTCACTCACTGCAGGTTTGTGTTTTGTTT
TGTTTTGTTTTGAGTTTTTTTTGTTTTTGTGTTTTTAGAGACAAGATGTTGCTATGTTGCCTAGGCTGGT
TTCGAACCTCTGGCCTCAAGGGATCCTCCCTCCTTGGCCCCGCAAAGTGCTGGGATTACAGGCGTGAGCCACCGT
GCCCAGCCCGCTCACTGCAGTTTGAAGGCATGGCTTTGGGTGGCGTGGGGTGAAAGCTGCCCGAGGCCCCGTTCC
TCCCCACGTGGCTGCCTCCTGCCAGAGCCAGTCAGGAAAACAGACCCCACTAGAGTTGTTTCAAATGGCAGGGA
TTTGGTACCGGTGGTTGGATCATGACAAAGCTCTGAGAAGGCTGGAGGAGCCACAGAGTGCCAAGTGCCAGCAA
TCATTAGAGGAAGGAGGCTGCTGCCACCTGTGTGGCTAGAGGAACAGAGGGGCCAATGGCATTCCCCAAACCCCA
CTCTCGCCTCTGTCTGGCCAGAGCAGAAATGGCTTCTTCCAGCTTCCACCCCTGGACTCCACCCAGGAGCCTCCT
CCTGGCAGACCCTTCTGACCCACCGGCCCCGGGGGTCTACAGATCCATGTTTCAGGCGTCCGCTGGAGCGGA
ACAGGGGAGTGCTTAGGACAAGGGTGGTGCCAGAGGATCCACTCTGCCACATTTAGTTGACCAGCTGAGGCACT
CCACGGGAATGAATGACTCTCGACAGGTGCCGGAGGTGAGGAGGGGCCCGAGGCCCAGGAGGGGCACAGGGATG
GATTCGTCCGCTGGGGGCTGGAGGTGTGTTTACAGAGCCCCAAAATAAACAATGCAACCAGGTGAGACCAGCGG
TTCTCACAGTGTGGTTCCCAGACCAGCAGCATCACTGGGAGCTTACTGGACACGCAAATAAATCCCTGTGTGCCA
CCCCAGCTGCATCAGATGCTGGTGGGGCCAGTGATCTGTATTTAACACACCCTCCGGGGGATGCCGGTGCCAC
TCACGTTTGAAGACCCCTGCGATCCACGACTGCCCTCCCGTGTAAGGCCCCACCTCTGTGGGACTCCAAGTCAT
CAGCACCTTAGGGTCTTCCGTCTTTTTCTTCTCCTGCGGACACCTGCCTCTCCCATGTGCTATTAGAGAATTC
CTTATGCTCCCAAGTGGGCACGGGGAGAGGAAGGCACTCCTCTTTAAGGACCGACCCAGAGGTTTGGCCATTGCT
TCACTGGCCAGAGCTTAGTCACGCAGCCTCACCCAGAGGCAAGGGAGGTTGGAAAATGTAGTGTGTTGTGTGTGTC
TAACACAAATTCTATTACCATGCAGTCAGGATTCTCCACTCTTGCTCTTTCATTAGATTGCTGGGCTTCACCCT
GGACTTTCTGATTTAGTGACAGAACAGAGAACCCAGAGGCAGACCCAGATGTGTACAAGGGCTTCATATACAATC
AGGAGATTTAATAATCATGCTAGGGGCGGGTGCACTGGCTCACGCCTGTAATCCCAAGCACTTTGGGGAGCCGA
GGCAGGCAGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGGCAACAAAGTGAGACCCTGTCTCTACTAAAAA
TAACAAAAATTAGCCGGGCGTGGTGGTGGGCGCTGTAATCCCAGCTCCTCGGGTGGCTGAGGCATGAGAATCAC
TTGAACCCAGGAGGCAGAGGTTTCAGTGAGCTGAGATCACATCACTGCACTCCAGCCTGGGTGACAGAGTGAGAT
TCTGTC

2947/5332
FIGURE 2577

ATGTCCACCCCAGGGGAGTGGGTGGCTAAACAGAAGGGGTGCACCCCCAAAATTCCTGTCCAGACAGCAGCCCCG
GAGGCCCCCGAGCTCCCCGAGCCGGCGCAGCCGTCCGAGGCTCACGCCCCGCAGCTGCTGCTGGAGGAGTGGGGG
CCGCTGAGCGGGGGCCTGGAGCTGCCCCAGCGCCTCACCTGGAAGCTGCTCCTGTTGCGGCGGCCGCTCTACCGC
AACCTGCTGCGCTCGCCCAACCCGAAGGCATCAACATTTATGAGCCAGCACCCCCTACTGGTCCCACCCAGCGA
CCCCTGAAACTCTGGGCAATTTCCGTGGCTGGTACATTAGAACTGAAAAGCTCCAGCAGAACCAAAGCTGGACA
GTGAAGCAGCAGTGTGTGGACCTTCTGGCCGAGGGCCTGTGGGAGGAGCTGCTGGATGACGAACAACCAGCCATT
ACGGTCATGGACTGGTTCGAGGACAGCCGGCTGGATGCGTGCGTCTATGAGCTGCATGTCTGGCTGCTGGCGGCC
GACCGCCGCACGGTCATTGCTCAGCACCACGTGGCCCCCGAACTTCTGGGAGAGGACCCCCTGGCCGCTGGGTC
CAGGTGTCCCACGTATTCCGCCATTATGGTCCCGGTGTGCGCTTTATCCACTTCCTGCACAAGGCCAAGAACCGC
ATGGAGCCTGGTGGGCTGCGGCGGACACGGGTGACCGACTCCTCCGTGTCTGTGCAGCTCCGGGAGTGA

2948/5332
FIGURE 2578

GTTGGATGAAACCTTCCTCCTACTGCACAGCCCGCCCCCTACAGCCCGGTCCCCACGCCTAGAAGACAGCGGA
ACTAAGAAAAGAAGAGGCCTGTGGACAGAACAAATCATGCTGACTCCCTGGTGGTGTGCGAGGTAGACCCAGAGC
TAACAGAAAAGCTGAGGAAATTCGCTTCCGAAAAGAGACAGACAATGCAGCCATCATAATGAAGGTGGACAAAG
ACCGGCAGATGGTGGTGCTGGAGGAAGAATTTCAGAACATTTCCCAGAGGAGCTCAAAATGGAGTTGCCGGAGA
GACAGCCCAGGTTTCGTGGTTTACAGCTACAAGTACGTGCATGACGATGGCCGAGTGCCTACCCTTTGTGTTTCA
TCTTCTCCAGCCCTGTGGGCTGCAAGCCGGAACAACAGATGATGTATGCAGGGAGTAAAAACAGGCTGGTGCAGA
CAGCAGAGCTCACAAGGTGTTTCGAAATCCGCACCACTGATGACCTCACTGAGGCCTGGCTCCAAGAAAAGTTGT
CTTTCTTTCGTTCATCTCTGGGCTGGGACTGAATTCCTGATGTCTGAGTCCTCAAGGTGACTGGGACTTGGA
CCCCTAGGACCTGAACAACCAAGACTTTAAATAAATTTAAAAATGCAAAAACTCGG

2949/5332
FIGURE 2579

GGCGGCGGTGGTTCGGTTCGGGAGGAGGGAGGGGAGCTTGC GG GCGCGAGAGGGGGCGACGGCGGCGGCGGTGGCC
TGAGGAGGCGCGAGCGGCGGCGGTGGCGGCGAAGGCCGAGGCGTCTAGGTGTTTTTGGAAGAGCTGAGGCCAGAG
CCGGGACCATGTGACGGCGCTGGCCCTCGCCACCGCCGTCCCCGACCCTGGCCCCAGGCCCCGGCACCATGATGT
TCCGAGACCAGGTGGGCATCCTCGCTGGCTGGTTCAAAGGCTGGAATGAGTGTGAGCAGACAGTGGCCCTCCTGT
CACTTCTGAAACGGGTCAACCGTACCCAGGCCCGCTTCCTGCAGCTCTGCCTGGAGCACTCACTGGCGGACTGCA
ATGACATCCACCTGCTGGAGTCGGAGGCCAACAGTGTGCCATCGTCAGCCAGTGGCAGCAGGAGTCCAAAGAGA
AGGTGGTGTCCCTCCTGTGTCCACCTTCCCTGTTCAGCCAGGCAACACAGAGGCCAAGTCGGAGTACATGA
GGCTACTGCAGAAAGTGTCTGGCCTACTCAATCGAGAGCAATGCTTTTCATCGAGGAGAGTCGCCAGCTGCTTTCCT
ATGCCCTCATCCACCCAGCCACCACACTGGAGGACCGCAACGCACTGGCCCTCTGGCTGAGCCACCTGGAAGAGC
GGTTGGCTAGTGGCTTCCGCTCCCGGCCAGAGCCCTCCTACCATTACGTCAGGCTCAGATGAGTGGGGGGGCC
CTGCAGAGCTAGGCCCTGGGGAGGCAGGGCCAGGCTGGCAGGACAAGCCACCCGGGAAAAATGGACACGTGCCCT
TCCACCCATCCAGCTCAGTGCCGCCAGCCATCAACAGTATTGGGAGCAATGCAAACACAGGTCTCCCCTGCCAAA
TCCACCCTAGCCCACTGAAGCGCTCCATGTCACTCATCCCTACAAGCCCCAGGTCCCTGGTGAGTGGCCGAGTC
CAGAGGAGCTTGGGGCCCGGGCTGCTTTTACCACGCCCCGATCACGCACCTCTCTCGCCCAGAGCAGCGTGGCCT
CCTCTGGCAGTGAGCAGACAGAGGAGCAGGGCTCCAGCCGGAACACCTTCCAGGAGGATGGCAGTGGCATGAAAG
ATGTGCCCTCATGGCTCAAGAGCCTCCGTTTGCACAAGTATGCAGCCCTCTTCTCACAGAATCAGCTTTGAGTAA
CTGTACAGTTTTTCTCGCTGTTGGAGAAGACTTATTTGTTGGAGTTTCACTTGTTTAAATGGTCTGGGCTTATTTT
GGAAAAAAAAAAAAACAAACAAAAAAAAACGAATTCTGACCTT

2950/5332
FIGURE 2580

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCACGCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTGCCTCGTC
GCTATGGCGCCACCATCCAGACCCAGGCCAGCGGGAGGATGGCCACAGGCCCAATCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCTTCGACCCCAAGTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTTGGAAGAGGAGATTAGGCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAAACCTACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACCAAGGTCGCCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAAACATCGGGACATGAATGAGAAGGAACCTGGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACCAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTGAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTTCAGGGCTGGTTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACTTGTGTTCCCCACCCCAACCTTTGCTGTTAATAAAGT
CAACTTCTCTTTA

2951/5332
FIGURE 2581

GGGGTTTACTACAATGAGTTGGAAACCAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGC
ACCAACGCCCTGCTTGTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCC
CAGCTAGAAAACCACGAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCA
GATGAGGAGCAGGAGAAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAA
CGGGAGGAAGGTGACAGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCC
CGGGCTGCCCCGTGACAAAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAG
GACAGAGGACAGGCCCAAGGTGGCAGTGACAATGATTGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGG
AGCCACAGCCGCAGCGCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCA
GCTTCTGATTCCAGTGAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTGAGGGCTGGTTCAGACACCATT
TTGTGAGCAGCAAAGCACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCAGTGTGTTTGTTCACCCCAACCTT
TGCTGTATAATAAGTCAACTTCTCTTT

2952/5332
FIGURE 2582

AGGCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTCTGTCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGAAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTGATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACCTGGAACGTGAAGAACAAGCTAGCAAGGGCTATGAGGAAAACTAATCTTCATCTTC

TCGTGTAACGCACTTCCGGCGGTCTACGCGAGGAAGATGCTGCTATCCACAGCAAGCTTACAGCGGCTTCTCTCAG
CTGCTGGTGTATCGGGTCTAGTTCGGCTGGCGGCCCGGGTCCCAGCAGCAGCCGCAACCGCCAGCACAACTGG
TGGGCCCTGCCAGAGCGGCTCTTCGACGAACAGCAACAGGACTTCGATCTGTGACGCTTATAAGATGCTCA
TCCCGCAGCTGAAGGAGAGTCTACAGACCTTGATGAAGTTGCGGCCCAAACCTTGATTACAGAACTAACATCG
ACAATGGACAAAAGAGCAGTGATGGACCCATACAGCGCTTGACAAGTGCTTGAAGAGTTCTATGCACTCTGTG
ACCAGCTGGAGCTGTGCCTGCGCCTGGCGCATGAGTGCTGTACAGAGTTGTGACAGTGCCAAGCACTCTCCAA
CGTTGGTGCCACAGCCACCAAGCCCCGACGAGTGACAGCCTGCACAGCCTCCCCTACCCACAGTACCTGGCGGTCA
TCAAAGCCCAGATTTCCTGTGCCAAGGACATTACACCGCCCTGCTGGACTGTGCCAACAAAGGTCACGGGCAAGA
CACCCGCACCACCTGCTGGCCCTGGGGGCACTCTGTGAAGTGGGGGACAGGGAGTGGGGCAGGCAGTGGTTGGT
GGTGGTGTGCAAAGGGAATGAAGAGCGTCTTGGGCCTAAACACAGCAGCCTCCTCTCTTCTGCTGAGCACCGC
AGCGGGAGCCAGCAGGGGGCAGCAGAGGCCAACAGGGAGCTCGCAGGCCGGGGCCCCCTGCGTCCCTGCCCCCTCTT
CCTGCTCCCCCTCCTAGCCTAGGGTAGACTTTGAACCTGTGTGTGTGTGACTTCTCTGTCTCCACAGGCCCTCCC
CCATTCTTGCTGGGTGTGGAGCCCTGGCTGTCCCCCTCCCCCTGAGTCTCTCTGACTGTCTCCAGCTGGGAGGT
TGTCTCTGTGTGCTACTCCTCTGTGTCTATTACAGTTGTGTCTCTCTCATCTCTGCTCTTTTTCCCTTGTTTC
TGTGTTCTGTTAATGTGTTTCTCCCATGGTCTATTCTCTCTACTCTGACCTCTCTCTCTTAGTCCCCCTTAG
CTGTCTTCTATCCCCAGCTCCTAACTGGGACTCTGTGTCTATGCAGGGGGCCAGCACCCCTGGGTTATCTGGGGC
TAAGGGAAGGGACTTCATTTCCAGGGGCCACAGCCAAGCCCAGAGTCCCCAGCGGCTCGCATGTCAGCCAGAC
CCCAGGGTCTTTGGCCTAGGAGAGGAGCAGTGGAGGGGCCAGGCTCTGAGCTCCACAGGTCTGAGCTGGGAGCA
ACTCAGGCCCCCACCACAGCCTGCGTCAGCGGAACCTTGAGTGAGGGGCGTTGTGCAATTTGTGGCAAGGCTGGCC
CAGCTGGATGCCTGGGTCCAGTATTTTAGCCCCAAGGAGAAGTGAAGGCCCCAGCCGGGTGAATCATCA
GTCTTGGGGAAGAACCAGGCGCCTGAGCCCCAGCTCCGGGAAGCAGGCACTGGGGAGGGGGCTCAAGGAGGGA
GTCCCCCTCAGACTCCCTGCTTCCCTGGAAGCTTCAGGAAGCTCAGCCTCAGCCTTACGGCCTGAGCAAGTGCA
GGGCGGAGCTACAGCCCAGGCTCAGATGTTGGGGTGTGAAAGCCTCAAGTGACTCAGCCTGGTTGGAGAAGTGC
CCCACCCAGTATCTTCTGTGCCATGGTTCCACATTTCGCACTCCATGGCCTCCTGTCTCTGGACCCCACTGTGCA
AGGAAACCCCTAGGACCATGGATACCTCTGTGATTACGCTGAGCCCAAGTCCCCCACTGGAAAAGTGGGAAATG
GCCAGCTGTGTGTCCAGGAAATTCCTCCCCTTATCTTCTCTTGAAGTGCCCGAGCATGTAGGGCAAGAAGGAAG
GCTGAAGCGCTGTCCCTAGGAGGAATTTCTCCTTCAGGGAAGCCTCAGTTTTGCCCATTTATCTAATTGAATCAG
TTTTTTACCCAATCCCCGATTTTGTAGGATAATCTCCCTATCTAAAGTCAACTGATTATGGACTTTAATCACA
TCTACAAAACACTTCCATGGCGAGCAGTAGATGAGTTGTAATAACTGGGACTGTAGCCGCTCCAAGTTGACAC
ATAAACTAGTACCATCGGGCGGGGCGGTGGCTCAGCCTGTAATCCCAACACTTTGGGAGCCCCAGGCGGGCGG
ATCACAAGGTGAGAGTTTCGAGACCAGCCTGGCCAACACGGTGAAACCCGACTCTACTAAAAATACAAAAAATT
AGCTGGGTGTGGTGGCACACACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCTGGG
AGGCAGAGGTTGCAGTGAGCCAAGATCACACTATTGCACTCCAGCCTGGGCGACAGGGCAAGACTCTGTCTCAA
AAAAATAAAAACTGACCATCTAGTCTTGTCTATCTGGGCAACCCTCACACATCTCCTTAACCACACTTAATCTCC
AAATAAGTACGATAACATAGTCTAGTCCCACCCAACATGATGCAGTTATCTTGCAACAACCTGAAGACAATAA
CCCTTTCCCCAACAGAGCCCACCAGCAGTGGTGGAGATGTCGGTCCATGAGCGCACACACAAGACTGAGGGACTG
TCGGCCCTCCCAGGTGGTGTCAACACAACATCACACACAGTGGGGGGGCTGATAGCCAGCACCCATGATACA
GGGCTACCAATGCTTAAAAACACACCCAGGGAGCCACAGAGGCACTCAGTGGGTGGTGGGGTGTATGGATACAC
ATCTATCAGGCACAGGGCGGAGGTGGGCACCCTGAGTTGCACTCAGCAAACACATTGGGTATCTTGTGCCAAG
GCTGTATTTGTGGAGCTGATGTTCTAGTGAGAGACAGTAAATGTGACAAAAGTAAAAATATATCAGATGGTGAGA
AAACAGAAAAATGAGATCAGAAGTGGAGATGTTGGGGCCAGGCACAGTGGCCCAGGCCTGTAATCCCATCACTTT
GGGAGGTGCAGGCAGGCAGATGGCTTGAGCCCAGGAATTCAGACCAGTCCGAGCAACATAGCAAAAGCCCTTAT
CTGCAAAAAATTCAAAAATTAGCCAGGTGTGGTGGTGCCTGCCAGGTTCCCAGGTACTCGGAGGCTGAGAGGTG
GGAGGATGCCTTGAGCTTGAGAGGTTGAAGCTGCAGTGAGCTGTGATCGCACCCTGCACTCCAGCTGGTTTCA
GGAGACCTGTTTTTTTTAAAAAGAGTGGAGGTGTTTACCCAGCAAAATACTCATTTTTTAAGTGTAATTA
GTGAAGATCAAAAAATGAAATGTATAATTAATCATACTTAGCAAATTAACACATGAAATGTAACATCTGCA
TATGGAGAATCGTGTTACTTTATTGAAAAACATTAAAGTTTGAGAACTT

2954/5332
FIGURE 2584

AGCCTGACTTCAGCGCTCCCACTCTCGGCCGACACCCCTCATGGCCAACCGTTACACCATGGATCTGACTGCCAT
CTACGAGAGCCTCCTGTGCTGAGCCCTGACGTGCCCCGTGCCATCCGACCATGGAGGGACTGAGTCCAGCCCAGG
CTGGGGCTCCTCGGGACCCTGGAGCCTGAGCCCCCTCCGACTCCAGCCCGTCTGGGGTCACCTCCCGCCTGCCCTGG
CCGCTCCACCAGCCTAGTGGAGGGCCGCACTGTGGCTGGGTGCCCCCACCCTGGCTTCGCACCGCTGGCTCC
CCGCTGGGGCCTGAGCTGTACCCCTACCCACTTCGCCCCACTGCAACCTCCACCACCCCTCGCGCTACAAGAC
TGAGCTATGTCGGACCTTCTCAGAGAGTGGGCGCTGCCGCTACGGGGCCAAGTGCCAGTTTGCCCATGGCCTGGG
CGAGCTGCGCCAGGCCAATCGCCACCCCAAATACAAGACGGAACCTCTGTACAAGTTCTACCTCCAGGGCCGCTG
CCCCTACGGCTCTCGCTGCCACTTCATCCACAACCCTAGCGAAGACCTGGCGGCCCCGGGCCACCCTCCTGTGCT
TCGCCAGAGCATCAGCTTCTCCGGCCTGCCCTCTGGCCGCCGGACCTCACCACCACCACCAGGCCTGGCCGGCCC
TTCCCTGTCTCCAGCTCCTTCTCGCCCTCCAGCTCCCCACCACCACCTGGGGACCTTCCACTGTACCCCTCTGC
CTTCTCTGCTGCCCCCTGGCACCCCCCTGGCTCGAAGAGACCCCCACCCAGTCTGTTGCCCTCCTGCCGAAGGGC
CACTCCTATCAGCGTCTGGGGGGCCCTTGGGTGGCCTGGTTCCGACCCCTCTGTACAGTCCCTGGGATCCGACCC
TGATGAATATGCCAGCAGCGGCAGCAGCCTGGGGGGCTCTGACTCTCCCGTCTTCGAGGCGGGAGTTTTTGCACC
ACCCAGCCCGTGGCAGCCCCCGGCGACTCCCCATCTTCAATCGCATCTCTGTTTCTGAGTGACAAAAGTGACTG
CCCGGTCAGATCAGCTGGATCTCAGCGGGGAGCCACGTCTCTTGCACTGTGGTCTCTGCATGGACCCAGGGCTG
TGGGGACTTGGGGGACAGTAATCAAGTAATCCCCTTTTCCAGAATGCATTAACCCACTCCCCTGACCTCACGCTG
GGGCAGGTCCCCAAGTGTGCAAGCTCAGTATTCATGATGGTGGGGGATGGAGTGTCTTCCGAGGTTCTTGGGGGA
AAAAAATTGTAGCATATTTAAGGGAGGCAATGAACCCTCTCCCCACCTCTTCCCTGCCCAAATCTGTCTCCTA
GAATCTTATGTGCTGTGAATAATAGGCCCTTCACTGCCCCCTCCAGTTTTTATAGACCTGAGGTTCCAGTGTCTCCT
GGTAAGTGAACCTCTCCTGAGGGGGAATCCTGGTGCTCAAATTACCCTCCAAAAGCAAGTAGCCAAAGCCGTTG
CCAAACCCACCCATAAATCAATGGGCCCTTTATTTATGACGACTTTATTTATTCTAATATGATTTTATAGTATT
TATATATATTGGGTCGTCTGCTTCCCTTGATTTTTTCTTCTTTTTTTGTAATATTGAAAACGACGATATAATTA
TTATAAGTAGACTATAATATATTTAGTAATATATATTATTACCTTAAAAGTCTATTTTTTGTTTTGGGCATTTT
TAAATAAACAATCTGAGTGT

2955/5332
FIGURE 2585

GAATTAGGGGAACCTCAGAAATCCATCCCCACCCACGGCCCTACCTAGAAGACTTAGGAATGTGGGTCCCCAGC
GCCGCCATCTGAGACTCCAGAGTCGAGGCTCCTAGCATCCCCTACGTAGAACACTGAGAAATCCGACTGCGGGA
CCCCAGTCTCCGAGAGACCCAGATTCTATTCTGGAGCCTGAGAGCCCGAAGTTCACGCCCCCTGAGTCTGGGCT
CCGCACCTCCCTGGGGACCGCTCGGGGTGCGCGCAGGAGCCGGGCTGCCTCGAGCCGGGGCTGGAGGCTCCCCGG
GAGGACTCTGCTGGGCCGCTCAGCCATGCTGAGGGAGCCCAAGGACTGAGCCTCTCCAAACCTAGCCCCAAGCCT
CGGGTGTGGCCGAAGAGGTGAAGTGTGTGACTGTGGCACCCTGTGTGAGACTCGGACAGCTCTGCAGCCCCAC
CATGGCCTCCCCCGAGGTTCTGGGAGCTCCACATCCCTGAGCACAGTGGGCTCTGAGGGGGATCCAGCCCCCTGG
GCCACTCCAGCCTGCTCAGCCTCCAGGCCAGAGCCCCTTCCAGGGCCTCCCATCCGCCTACATCTCTCTCCGGT
GGGGATCCCAGGTTTCAGCCAGACCCTCAAGGCTGGAGCGTGTGGCCCCGGGAGATCGTGGAGACAGAACGGGCCTA
TGTCAGGGACCTCCGCAGCATCGTGGAGGACTACCTGGGCCCTCTGCTGGACGGCGGGGTCTCTGGGGCTGAGCGT
GGAGCAGGTGGGCACGCTGTTTGCCAACATTGAGGACATCTACGAGTTCAGCAGCGAGCTCCTGGAGGACTTGGA
GAACAGCAGCAGCGCCGGGGGTATTGCCGAGTGCTTCGTGCAGAGGAGCGAGGATTTTGACATCTACACATTGTA
CTGCATGAACTACCCGAGCTCCCTGGCCCTGCTCCGGGAGCTGTCGTTGTCTCCGCCAGCAGCCCTGTGGCTGCA
GGAGCGCCAGGCCAGCTTCGCCACTCGCTGCCCTGCAGAGCTTCCTGCTGAAACCTGTCCAGCGCATTCTCAA
GTACCATCTGCTGCTGCAGGAAGTGGGGAAGCACTGGGCGGAGGGCCAGGCACTGGGGGTGCGGAGATGGTGGA
GGAAGCTATTGTGTCCATGACAGCGGTTGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCG
CCTCCAGGAAGTGCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGGAAGTGGTGTTGGA
GGGCGCGTTCCGAGGAGGCGGAGGGGTGGCCCCGGCTACGAGGGGGTGAGCGGCTGCTCTTCTGTTCTCTCG
GATGCTGCTGGTGGCCAAGCGCAGGGGGCTGGAGTACACCTACAAAGGCCACATCTTCTGCTGCAACCTGAGCGT
GAGCGAGAGTCCCCGAGACCCTCTAGGGTTCAAGGTGTCTGATCTGACCATTCCCAAGCACAGACACCTGCTCCA
GGCCAAGAACCAAGAAGAGAAGAGGCTGTGGATTCACTGTCTCCAGCGCCTCTTCTTTGAGAACCACCTGCCTC
CATCCCTGCCAAGGCAAAGCAAGTTCTCCTTGAAAACAGCCTGCATTGTGCCCCAAAAGTAAGCCTGTCTAGA
GCCCCTGACACCCCACTTGGGTCTCCTCGACCTCGAGATGCTAGAAGTTTACCCCTGGGCGAAGGAACACAGC
TCCATCTCCTGGGCCCTCTGTGATTGCGCGAGGCCGAGGCAGTCTGAGCCGGTGAAGGACCCTTATGTCTATGTT
CCCACAGAACGCTAAGCCTGGATTCAAGCACGCTGGCAGCGAAGGGGAAGTCTACCCCTCCAGAACTCTCAGCCACC
AGTTTCAGGCTCTGCACCCCTGAGGACCTGGAGGATGCTGGACCCCCAACACTGGACCCCTCTGGGACCTCAAT
CACTGAAGAAATCCTGGAACTGCTGAATCAGCGAGGCCTTCGAGATCCAGGGGAATCTATGGGCCTTCACAGGGC
CCAGGGGGCTCCTGATGCCCCCTTCCACATGTGAGCCAGGACATGAGGCTTCCTGAAGCAAGGATTTAGCCAG
ATGCCATAGACCCTCAGAACTTGACCTGGAAGTCCAGACACTGAACGCAGGCCTCAAACTGCTGCGGCCTTCCA
ACTCCTGGTATCTGCATCGGCGAATGGCCCTTCTTGCCCTTGATCCACAGGGATGGGGAAGGGAGGAATGTCATTA
ATGTTTTGTTAATACTGATTCTTTCATGC

2956/5332
FIGURE 2586

GGTGGCCCTAGCTTTCCTTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCC
GTCCAAGGGCCCGCTGCAGTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACG
CGGCAATGGTCTCATCAAGGTGAACGGGCGGCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCT
GGAGCCAGTTCTGCTTCTCGGCAAGGAGCGATTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCA
CGTGGCCAGATTTATGCTATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCTATTACCAGAAATATGTGGATGA
GGCTTCCAAGAAGGAGATCAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTG
CGAGTCCAAAAAGTTTGGAGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCCATCGTGACTC
AAAAC TACTTGTATAATAAACAGTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAAAAAA

2957/5332
FIGURE 2587A

AGAGAACAGATTTCGGAAGCTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGGCTGTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG
AGTGACGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATACGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACCAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTTCCTTGATGCGCAAGTTCATTGCTACCAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGGCTTGGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTGGGTCCGCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGGCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGTATGTTGCTCTGATGGT
GACTTCCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCAGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAGTGTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGCCCAGGAACTTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCAGTACAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGAAGTGTGACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACACATCCATGTGAAAGACATCGTTAAGGTCAATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTCCGAAGCTTCGCTTCCTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGCTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGTGGAGGTGAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCCGGGGCCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCGCATCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG
CGCCCCGGGGCGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGACCCCACTACGGCTCACAGACG
CCCTGCAATGATGTCAGCCGCACTCCTGCCCAGAGTGGGGCCTGGGACCCCAACAACCCCAACACGCGTACAGG
GCTGAGGAAGAATATGAGTATGCTTTTCGATGATGAGCCCAACCCGTCCCCGCAGGCCTATGGGGGAACCCCAAT
CCCCAAACACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCAGTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCCAGAGCTACCACAGGTGGCGCCAAGCCCAGCAGGCTACCAGAATACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTGGCTACAGTCTATGACACCTGGA
GCTCCCTCCCCTGGTGGCTACAACCCACACACGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC
ACTGACATTCAAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTATCCGCACT
GTCACGGGGGGCATGTGCTCTGTGACCTGAAGGACAGTGAGAAGGTTGTCAGCATTTCCAGTGAGCACCTGGAG
CCTATACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG
GGGAAGCTCCTGGAAGCCTGAAGCAGGACAGGGCCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTTCCCTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTCTTCTTCTT

2958/5332
FIGURE 2587B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTGTACCGTCTTTCAATAAAAAAGAAGCTGTTTGGTCT

2959/5332
FIGURE 2588

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATCGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTCGCTGCGTCTTTTGCAAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCCCTCCCCCGCTTTCCATTGGCTGTAGCTCCGCCCCGGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCCGCTGGCGTCAGCGCAAGATGGCGGCCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCCGGGCCCCA
GATCAGGCCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGCTGGGTGCTTGGAGCTGGTGGGACTGTGAGCGTCTGTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGTATGAGTTCGACAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCTT
CTCCCAGACCTCTGCAAGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCTGAGTGGTCTGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCCTTTATATGAAATTGTCTCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCTTACCCTATTCGCGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCCTCAAG
ACCATTGCACCTGAATGGTGTGGAGGACGTGCGAACCCTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCTTGGCTCCCTCACCAGCCGCTTGTGGCTCGCTCCAAACAGCCCTGAACTCTGGGCTGCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGTGCTTTGTTGGATCAGAGCAGATTTTTACCC
TGGTCTCGGAATCTAAAAACCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

2960/5332
FIGURE 2589

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGACAGCGCCCGGCTCCCCTGCCGCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGCAGCGCGGACCGGTCTACACCGAGCAGCCCCGAGCGCCCCG
GCCTGATCTCCCACTGCCGACGGCCTCTTGACAGGTGCCCTTCGGGACGCCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGGAGCCTGCTGGCGCGCTGGCTGG
CAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCGGACATTAGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTCCGGACCGCTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCGCTCCTCTGCTACCACCGGATGCCTTGTCCC
TGGGCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCCCTTGAATG
CACCTGCCCCGCGTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCCTGCTTCAA
CGGCGGCTTGTGTGTGCGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCACCCGGTTTCCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGCGGACCCGTGCGCCGCGCGCCCTGTGCTCACGCGGGCCGCTGCTACGCCCACTT
CTCCGGCCTCGTCTGCGCTTGGCTTCCCGGCTACATGGGAGCGCGGTGTGAGTTCCCAGTGCACCCCGACGGCGC
AAGCGCCTTGCCCGCGGCCCGCGGGCCTCAGGCCCGGGGACCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCGCTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGCTGGCTGGGACCCCGAGCCGTCAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGAGAGGACGACCTGCTTTTTCCCTACCCTTCTCTGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGGTTTTAAGCCCATTTTCAGTTCTAACTTACTTTTCATCCTATTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTTT

2961/5332
FIGURE 2590

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCGGTTTGTGTGGTCGCCATTTTGCTGGTTGCATTACTGGGT
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCTTGCCCGCTCCTTCAGGTCTCAGCGGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCTGCGGCCCTCTGAGCCACCATGGCCGCTCCACCGGGCCA
TGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCTTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGGGGGCCAGCAGGCGCCACCCAGGATTCGAGCAACAA
GAAGGAGAAGAAGGTCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAGGCTTTCTGAACCAGGCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACCACCTGTGCCTGGTATTTGAGCTGCTGTCTTACACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCGCTGA
GCTCAGCATCATTCAGTGCACCTCAAGCCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTTGGAATTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCCCTCTTCAGTGGCTCCAATGAGGTGACAGATGAACCGCATGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCTGGGGGTGGCTGGACCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCCGGGGCGGGCGGGGAGCCGGGCCACAGCCCCGCCGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCCCGCCCGCCGATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCCGGCAGGCAGCAGTGCCTCCACCTCGCCCCGCGCCCCCTCGACAC
CTGCCCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTGTCCCCCATCACCACCTC
ACCACCACCCCCGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCCGCTCTCTGA
TGACCCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGAACCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCCCTCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCTGGGGCAGGGGGTCA
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCTTGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTACCCAGGACCCTAGGAGGGGGTGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCAAGTAAAGAGCTTTCTCACA

2962/5332
FIGURE 2591

CGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTTCAGTCCCCGTGGGGGTGGCTTTGGCGGC
CGAGGGGGCTTTGGTGACCGTGGTGGTTCGTGGAGGCCGAGGGGGCTTTGGCGGGGGCCGAGGTCGAGGCGGAGGC
TTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCCGCCGGCGGCGGTGGAGGAGGAGGAAGAGGTGGTGGAGGCTTC
CATTCTGGTGGCAACCGGGTTCGTGGTTCGGGAGGAAAAAGAGGAAACCAGTCGGGGAAGAATGTGATGGTGGAG
CCGCATCGGCATGAGGGTGTCTTCATTTGTCGAGGAAAGGAAGATGCACTGGTCACCAAGAACCTGGTCCCTGGG
GAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTTCGGAAGGAGATGACAAAATTGAGTACCGAGCCTGGAACCCC
TTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCCACATCAAACCGGGGGCTAAGGTTCTC
TACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCGTTGGTCCGGATGGTCTAGTCTATGCA
GTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGGCCAAGAAGAGGACCAACATCATTCCCTGTGATC
GAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGGATGTGATCTTTGCTGATGTGGCCCAG
CCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCCTGCGTAATGGAGGACACTTTGTGATTTCCATT
AAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCTCCGAAGTGAAAAAGATGCAACAGGAG
AACATGAAGCCGCAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACCATGCCGTGGTCGTGGGAGTGTACAGG
CCACCCCCCAAGGTGAAGAACTGAAGTTTCAGCGCTGTCAGGATTGCGAGAGATGTGTGTTGATACTGTGACGCT
GTGTTTTTCTATTAAAAGACTCATCCGTC

2963/5332
FIGURE 2592

CAACGGGGGCATCCACTACATCACCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTACCCTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCGCGTGCAGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCACCTCCTCATGTCCATCCCAGCCCCTTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACCTTCAATGGCAACTGGAGTGACGACTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCTATGAGAGCAACGAGGCCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGACGCTGGCAGCCTACACGGCGGCCTGTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCAACCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTGTCTTCCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCACCAGGCGGTGTATGTGAGGTCAAGGCTGAAGCCCGGAACTGCTGGGCCACCCGTGG
TCTCTGTGTCTGTCTGTGGGTGCCAACCTCACCACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGGAGGCTGTGGGCCAGGTCCAATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAACTGTGTGGGGCCTGTGGAACTTTGACGGGGACCAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC

T

2964/5332
FIGURE 2593A

CTGCAGCCATGGGTGCCCTATGGAGCTGGTGGATACTCTGGGCTGGAGCAACCCTCCTGTGGGGATTGACCCAGG
AGGCTTCAGTGGACCTCAAGAACACTGGCAGAGAGGAATTCTCACAGCCTTCCTGCAGAACTATCAGCTGGCCT
ACAGCAAGGCCTACCCCGCCTCCTTATCTCCAGTCTGTCCAGAGAGCCCGCTTCAGTCTCCATCCTCAGCCAGG
CAGACAACACCTCAAAGAAGGTACAGTGAGGCCCGGGGAGTCGGTCATGGTCAACATCAGTGCCAAGGCTGAGA
TGATAGGCAGCAAGATCTTCCAGCATGCGGTGGTGATCCATTCTGACTATGCCATCTCTGTGCAGGCACTAAATG
CCAAGCCTGACACAGCGGAGCTGACACTGCTGCGGCCCATCCAGGCCCTAGGCACCGAGTATTTTGTGCTCACAC
CCCCGGGCACCTCAGCCAGGAATGTCAAGGAGTTTGCCGTGGTGGCCGGTGGCCGAGGTGCCTCGGTGAGTGCA
CGCTGAAGGGGTGAGTGACATTCAATGGCAAGTTCTATCCAGCAGGCGATGTCTAAGAGTGACTCTACAGCCCT
ACAATGTGGCCAGCTACAGAGCTCAGTGGATCTCTCGGGGTCAAAGGTACAGCTAGTAGCCCCGTGGCTGTCC
TCTCTGGCCACAGCTGTGCGCAGAAACATACGACCTGCAACCATGTGGTTGAGCAGCTGCTACCCACGTCTGCCT
GGGGCACCCACTATGTAGTACCCACGCTGGCCTCCCAATCTCGCTATGATTGGCCTTCGTTGTGGCCAGCCAGG
CCACAAAGCTGACCTACAACCATGGGGGTATCACTGGCTCCCGTGGGCTCCAGGCAGGTGATGTGGTAGAGTTTG
AGGTCCGGCCATCCTGGCCACTCTACCTGTCTGCAAATGTGGGCATCCAGGTCCTGTGTGTTGGCACAGGTGCCA
TAAGGAATGAAGTGACTTATGACCCCTACCTGGTCTGATCCAGATGTGGCGGCTACTGCCAGCCTATGTGG
TCAAGAGTGTACCAGGCTGTGAGGGCGTGGCCCTGGTAGTGGCACAGACGAAGGCTATCAGCGGGCTGACCATAG
ATGGGCATGCAGTGGGGGCCAAGCTCACCTGGGAGGCTGTGCCAGGCAGTGAGTTCTCGTATGCTGAAGTGGAGC
TCGGCACAGCTGACATGATCCACACGGCCGAGGCCACCACACTTGGGACTGCTACCTTCGGGCTGGCCAAGG
CTATAGGCTACGCAACAGCTGTGATTGCGGCCGAGCTGTACTGTCCCCAGTGGAGCCCTCCTGCGAAGGCATGC
AGTGGCGCAGCCGGGCAGCGCTGCCAGGTGGTAGGCGGGAAGGCCGGGTGTGTGGCGGAGTCCACCGCTGTCTGCC
GCGCCAGGGCGACCCCCATTACACCACCTTCGACGGCCGTCGCTACGACATGATGGGCACCTGTTCTGTACACGA
TGGTGGAGCTGTGCAGCGAGGACGACACCCTGCCCGCCTTCAGCGTGGAGGCCAAGAACGAGCACCAGGGGCAGCC
GCCGCGTCTCCTACGTGGGCTCGTCACTGTGCGCGCCTACAGCCACTCTGTGTGCTGACCCGCGGTGAAGTTG
GCTTCTGCTCTGGTTGACAACCAGCGCTCGCGCCTGCCAGTCTCCCTGAGTGAGGGTGCCTGCGTGTGTACCAGA
GCGGACCACGGGCGTGGTGGAGCTGGTCTTTGGGCTGGTGGTCACTTATGACTGGGACTGCCAGCTGGCACTCA
GCCTGCTGACGCTTCCAAGACCAGGTGTGCGGGCTGTGTGGCAACTATAATGGTGACCCAGCAGACGACTTCC
TCACGCTGACGGGCTCTGGCTCCTGACGCTGTGGAGTTGCGAAGTAGCTGGAAGCTGGATGATGGGGACTACC
TGTGTGAGGATGGCTGCCAGAACAACTGTCCCGCCTGCACCCCAAGGCCAGGCCAACACTATGAGGGCGACCGAC
TCTGTGGCATGCTGACCAAGCTCGATGGCCCCCTTCGCTGTCTGCCATGACACCCTGGACCCAGGCCCTTCTTGG
AGCAGTGTGTATATGACCTGTGTGTGGTTCGGTGGGGAGCGGCTCAGCCTGTGGCGTGGCCTCAGCGCCTATGCCC
AGGCCTGTCTGGAGCTTGGCATCTCGGTTGGGGACTGGAGATCACCAGCCAACTGCCCCCTGTCTGCCCTGCCA
ACAGCCGCTATGAGCTCTGCGGCCCTGCTTGCCGACCTCCTGCAACGGGGCTGCGGCGCCGTCCAAGTGTCTCG
GGCGCCCTGCGTGGAGGGCTGCGTGTGCTCCAGGCTTCGTGGCCAGCGGCGGCGCTGCGTGGCGGCTCGT
CGTGTGGCTGCACCTTCCAGGCTCTCAGCTCGCTCCGGGCCAGGAAGTGTGGGCGGACGAGTTGTGCCAAAGGC
GCTGCACCTGCAACGGCGCCACCCATCAGGTACCTGCCGCGACAAGCAGAGCTGCCCGCGGGTGAGCGCTGCA
GCGTCCAGAACGGCCTCCTGGGCTGCTACCCCGATCGCTTCGGGACCTGCCAGGGGTCCGGGGACCCACACTATG
TGAGCTTCGACGGCCGCGCTTCGACTTCATGGGCACCTGCACGTACCTGCTGGTTCGGCTCATGCGGCCAGAACG
CAGCGCTGCCTGCCTTCCGGGTGCTGGTGGAAAACGAGCATCGGGGCAGCCAGACTGTGAGCTACACGCGCGCCG
TGCGGGTGGAGGCCCGCGGGGTGAAGGTGGCCGTGCGCGGGAGTACCCGGGCAAGTGTGGTGGATGACGTCC
TTCAGTATCTGCCCTTCCAAGCAGCAGATGGGCAGGTGCAGGTGTTCCGACAGGGCAGGGATGCCGTCTGCGCA
CGGACTTTGGCCTGACTGTCACTTATGACTGGAATGCACGAGTGACTGCCAAGGTGCCAGCAGCTATGCTGAGG
CCCTGTGTGGACTCTGTGGAACTTCAACGGGGACCCAGCTGATGACCTGGCTCTGCGGGGTGGGGGTCAAGCTG
CCAATGCACTGGCCTTTGGGAACAGCTGGCAAGAAGAGACGAGGCCCGGCTGTGGAGCAACTGAACCGGGTACT
GTCCCAAGCTGGACTCCCTGGTGGCCAGCAGCTGCAGAGCAAGAATGAGTGTGGAATCCTTGCCGACCCCAAGG
GGCCCTTCCGGGAGTGCCATAGCAAGCTGGACCCCAAGGGTGGCGTGCAGCTGTGTCTATGACCGCTGCCTGC
TGCCAGGCCAGTCTGGGCCACTGTGTGACGCACCTGGCCACCTATGCTGTGCTGATGCCAGGCTGCTGGAGCCACAG
TGCACCCCTGGAGGAGTGAAGAAGTTTGCCACTGAGCTGCCACCCCAAGCCACTATGAGGCGTGTCTCTACG
GCTGCCCGCTGTCTGTGGAGACCTCCAGTGGCGGGGGCTGTGGCTCAGAATGCCATGAGGGCTGCGTGTGCG
ATGAGGGCTTTGCGCTCAGTGGTGAGTCTGCTGCCCTGGCCTCCTGTGGCTGCGTACACCAGGGCACCTACC

2965/5332
FIGURE 2593B

ACCACACAGGCCAGACCTTCTACCCCTGGCCCCGGATGTGATTCCCTTTGCCACTGCCAGGAGGGCGGCCTGGTGT
CCTGTGAGTCTCCAGCTGCGGACCGCACGAGGCCTGCCAGCCATCCGGTGGCAGCTTGGGQTGTGTGCCGTGG
GCTCTAGCACCTGCCAGGCGTCAGGAGACCCCCACTACACCACCTTCGATGGCCGCCGCTTCGACTTCATGGGCA
CCTGCGTGTATGTGCTGGCTCAGACCTGCGGCACCCGGCCTGGCCTGCATCGGTTTGCCGTCTGCAGGAGAACG
TGGCCTGGGGTAATGGGCGAGTCAGTGTGACCAGGGTGATCACGGTCCAGGTGGCAAACCTTCACCCTGCGGCTGG
AGCAGAGACAGTGAAGGTACCGGTGAACGGTGTGGACATGAAGCTGCCCGTGGTGTGGCCAACGGCCAGATCC
GTGCTCCCAGCATGGTTAGATGTTGTGATTGAGACCGACTTCGGCCTGCGTGTGGCCTACGACCTTGTGTACT
ATGTGCGGGTCACCGTCCCCGAACTACTACCAGCAGATGTGTGGCCTGTGTGGGAACATAACGGCGACCCCCA
AGGATGACTTCCAGAAGCCCCAATGGCTCACAGGCAGGCAACGCCAATGAGTTCGGCAACTCCTGGGAGGAGGTGG
TGCCCCGACTCTCCCTGCGTGGCGCCACCCCTTGCCCCGCGGGAGCGAGGACTGTATCCCCAGCCACAAGTGTCT
CTCCCGAGCTGGAGAAGAAGTATCAGAAGGAGGAGTTCTGTGGGCTCCTCTCCAGCCCCACAGGGCCACTGTCTCT
CCTGCCACAAGCTGGTGGATCCCCAGGGTCCCTTGAAAGATTGCATCTTTGATCTCTGCCTGGGTGGTGGGAACC
TGAGCATTCTCTGCAGCAACATCCATGCCCTACGTGAGTGTCTGCCAGGCGGCTGGAGGCCACGTGGAGCCCTGGA
GGACTGAACTTTCTGTCCCATGGAGTGGCCTCCGAACAGTCACTACGAGCTCTGTGCGGACACCTGTCTCCCTGG
GCTGCTCAGCTCTCAGTGGCCCTCCACAGTGCCAGGATGGGTGTGCTGAGGGCTGCCAGTGTGACTCCGGCTTCC
TCTACAATGGCCAAGCCTGCGTGCCCATCCAGCAATGCGGCTGTACCAACAATGGTGTCTACTATGAGCCGGAGC
AGACAGTCTCATTGACAACCTGTGCGCAGCAGTGCACGTGCCATGCGGGTAAAGGCATGGTGTGCCAGGAACACA
GCTGCAAGCCGGGGCAGGTGTGCCAGCCCTCCGGAGGCATCTTGAAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT
TGACATGCCGGCCACAGGAGACATGCAAGGAGCAGGGTGGCCAGGGCGTGTGCTGCCCAACTATGAGGCCACGT
GTGGCTGTGGGGCGCACCCACACTACCACTCCTTCGATGGCCGGAAGTTTGACTTCCAGGGCACCTGTAACTATG
TGCTGGCAACAACCTGGCTGCCCGGGGGTTCAGCACCCAGGGCCTGACACCCTTCACCGTCACCACCAAGAACCAGA
ACCGGGGCAACCCTGTGTGTCTACGTGAGAGTGTGTACCGTGGCTGCCCTCGGCACCAACATCTCCATCCACA
AGGACGAGATCGGCAAGTCCGGGTGAACGGTGTGCTCACAGCCTTGCCCTGTCTCTGTGGCCGACGGGCGGATT
CAGTGACCCAGGGTGCATCGAAGGCACCTGCTGGTGGCTGACTTTGACTGCAAGTCAGCTATGACTGGAACCTGGC
GGGTAGACGTGACGCTGCCAGCAGCTATCATGGCGCAGTGTGCGGGCTCTGCGGTAACATGGACCGCAACCCCA
ACAATGACCAGGTCTTCCCTAATGGCACACTGGCTCCCTCCATACCCATCTGGGGCGGCAGCTGGCGAGCCCCAG
GCTGGGACCCACTGTGTTGGGACGAATGTGCGGGGTCTGCCCCAACGTGCCCTGAGGACCGGTTGGAGCAGTACG
AGGGCCCTGGCTTCTGCGGACCCCTGGCCCCCGGCACAGGGGGCCCTTTACACACCTGCCATGCTCATGTGCCAC
CTGAGAGCTTCTTCAAGGGCTGTGTTCTGGACGCTGTGCATGGGTGGTGGGGACCGTGACATTCTTTGCAAGGCTC
TGGCTTCTATGTGCGCCGCTGCCAGGCTGTGGGGTGTGATCGAAGACTGGCGGGCACAGGTTGGCTGTGAGA
TCACCTGCCCAGAAAACAGCCACTATGAGGTCTGTGGCTCACCTGCCCCGGCCAGCTGTCCGTCCCCTGCACCCC
TTACGACGCCAGCCGATGTGAGGGCCCCGTGTGAGGGGCTGCCAGTGGCAGCGGGTTTCGTGTTAAGTGCTG
ACCGCTGTGTTCCCTCAACAACGGCTGCGGCTGTGGGCCAATGGCACCTACCACGAGGCGGGCAGTGAGTTT
GGGCTGATGGCACCTGCTCCAGTGGTGTGCTGCGGGCCTGGGGGTGGCTCGCTGGTCTGCACACCTGCCAGCT
GTGGGCTGGGTGAAGTGTGTGGCCTCCTGCCATCCGGCCAGCACGGCTGCCAGCCCGTCAGCACAGCTGAGTGCC
AGGCGTGGGGTGACCCCAATTACGTCACTCTGGATGGGCACCGATTCAATTTCCAAGGCACCTGCGAGTACCTGC
TGAGTGCACCCCTGCCACGGACACCCCTTGGGGGTGAGAATTCACTGTCACTGTAGCCAATGAGCACCGGGGCA
GCCAGGCTGTGAGCTACACCCGAGTGTACCCCTGCAAACTACAAACCACAGCCTGACACTGAGTGCCCGCTGGC
CCCGGAAGCTACAGGTGGACGGCGTGTTCGTCACTCTGCCCTTCCAGCTGGACTCGCTCCTGCACGCACACCTGA
GCGGCGCGGACGTGGTGGTGACCAACCTCAGGGCTCTCGCTGGCTTTGACGCGGGACAGCTTCGTGCGCCTGC
GCGTGCCGGCGGCGTACGCGGGCTCTCTCTGTGGCTTATGCGGGAACATAACCAGGACCCCGCAGACGACCTGA
AGGCGGTGGGCGGGAAGCCCGCCGATGGCAGGTGGGCGGCGCCAGGGCTGCGGGGAATGTGTGTCCAAGCCAT
GCCCCGTCGCGTGCACCCAGAGCAGCAAGAGTCTTCGGCGGGCCCGACGCTGCGGCGTGATCTCCGCCACCG
ACGGCCCGCTGGCGCCCTGCCACGGCCTTGTGCCGCCCGCAGTACTTCCAGGGCTGCTTGTGTGACGCGCTGCC
AAGTTCAGGGCCATCCTGGAGGCTCTGTCTGTGAGTGGCCACCTACGTGGCAGCCTGTGAGGCCGTGGGGCCC
AGCTCCGCGAGTGGAGGCGGCGGACTTCTGTCCCTTCCAGTGCCCTGCCACAGCCACTACGAGCTCTGCGGTG
ACTCTGTCTGGGAGCTGCCCGAGCCTGTGCGCACCCGAGGGCTGTGAGTGGCGCTGCCGTGAAGGCTGTGTCT
GCGATGCTGGCTTCGTGCTCAGTGGTGACACGTGTGTACCTGTGGGCCAGTGTGGCTGCCTCCACGATGACCGT

2966/5332
FIGURE 2593C

ACTACCCACTGGGCCAGACCTTCTACCCTGGCCCTGGGTGTGATTCCCTTTGCCGCTGCCGGGAGGGCGGTGAGG
TGTCTGTGAGCCCTCCAGCTGCGGCCCGCATGAGACCTGCCGGCCATCCGGTGGCAGCTTGGGCTGCGTGGCCG
TGGGCTCTACCACCTGCCAGGCGTCGGGAGATCCCCACTACACCACCTTCGATGGCCGCGCTTCGACTTCATGG
GCACCTGCGTGTATGTGCTGGCTCAGACCTGCGGCACCCGGCCTGGCTACATCGGTTTGCCGTCCTGCAGGAGA
ACGTGGCCTGGGGTAATGGGCGAGTCAGTGTGACCAGGGTGATCACGGTCCAGGTGGCAAACCTTCACCCTGCGGC
TGGAGCAGAGACAGTGAAGGTACGCTGAACGGTGTGGACATGAAGCTGCCCCGTGGTGCTGGCCAACGGCCAGA
TCCGTGCCTCCCAGCATGGTTCAGATGTTGTGATTGAGACCGACTTCGGCCTGCGTGTGGCCTACGACCTTGTGT
ACTATGTGCGGGTCACCGTCCCTGGAACTACTACCAGCTGATGTGTGGCCTGTGTGGGAACTACAACGGCGACC
CCAAGGATGACTTCCAGAAGCCCAATGGCTCGCAGGCAGGCAACGCCAATGAGTTCGGCAACTCCTGGGAGGAGG
TGGTGCCCGACTCTCCCTGCCTGCCGCCGCCACCTGCCCGCCGGGAGCGAGGGCTGTATCCCCAGCGAGGAGT
GTCCTCCCGAGCTGGAGAAGAAGTATCAGAAGGAGGAGTTCTGTGGGCTCCTCTCCAGCCCCACAGGGCCACTGT
CCTCTTGCCACAAGCTGGTGGATCCCCAGGGTCCCTTGAAAGATTGCATCTTTGATCTCTGCCTGGGTGGTGGGA
ACCTGAGCATTCTCTGCAGCAACATCCATGCCTACGTGAGTGCTTGCCAGGCAGCTGGAGGCCAGGTGGAGCCCT
GGAGGAATGAACTTTCTGTCCCATGGAATGCCCTCAGAACAGTCACTACGAGCTCTGTGCGGACACCTGCTCCC
TGGGCTGCTCGGCTCTCAGTGCCCCCTCTGCAGTGCCCAGATGGGTGTGCTGAGGGCTGCCAGTGTGACTCCGGCT
TCCTCTACAACGGCCAAGCCTGCGTGCCCATCCAGCAATGTGGCTGCTACCACAATGGTGCCTACTATGAGCCGG
AGCAGACAGTCCCTATTGACAACGTGTCGGCAGCAGTGACGTGCCATGTGGGTAAAGTCGTGGTGTGCCAGGAAC
ACAGCTGCAAGCCGGGGCAGGTGTGCCAGCCCTCCGGAGGCATCCTGAGCTGCGTCAACAAAG

2967/5332
FIGURE 2594

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTGGTTCCCTCTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAAATTTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGCTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATATAGCTAATGAATT
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCCAGCAGGCCCTTTTGTGGTTGCACTAAGTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCTATTCAAATAAAGTTATTTCTCCTGGTCT

2968/5332
FIGURE 2595

GGCTTGGTCACTATGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCTTCTTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAATATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCCCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTCGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAAGACTATGTGGCCCGGCCAGATAAGATTCA
GGAGCTGATATTAACCTCATCTGTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTTGGCC
AAGGACTTCGAGAAAGCATACAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCGAGCACCTCTGTCCCAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCC

2969/5332
FIGURE 2596

GTGTTTTTTTCTTGCTCCTGCGGAGGGCGCCCCAGCCATGGCCCTCAGGAGCTCCCTAGACCCCGCAGGGACTGCC
CTCCATCCCCGGCCGCCGGGGCCCGCCCTCTGCATCCCGCGGGCAGCCTGTGTGAAGCGGCCTCCCGCAGCCCCCG
GCCCCCTCCCCCATGGAGGAGGAGGAGGGGGCGGTGGCCAAGGAGTGGGGCAGACCCCGCGGGGCCGTCTGGA
CCGCGGTGTTCGACTACGAGGCGGGCGGCGACGAGGAGCTGACCCTGCGGAGGGGCGATCGCGTCCAGGTGCTTT
CCCAAGACTGTGCGGTGTCCGGCGACGAGGGCTGGTGACCGGGCAGCTCCCCAGCGGCCGCGTGGGCGTCTTCC
CCAGCAACTACGTGGCCCCCGGCGCCCCCGCTGCACCCCGGGGCTCCAGCTGCCCCAGGAGATCCCCTTCCACG
AGCTGCAGCTAGAGGAGATCATCGGTGTGGGGGGCTTGGCAAGGTCTATCGGGCCCTGTGGCGTGGCGAGGAGG
TGGCAGTCAAGGCCGCCCGGTGACCCCTGAGAAGGACCCGGCAGTGACAGCGGAGCAGGTGTGCAGGAAGCCC
GGCTCTTTGGAGCCCTGCAGCACCCCAACATAATTGCCCTTAGGGGCGCTGCCTCAACCCCCACACCTCTGCC
TAGTGATGGAGTATGCCCGGGTGGTGCAGTGCAGGGTGTGGCAGGTGCGCGGGTGCCACCTACAGTGCTGG
TCAACTGGGCTGTGCAGGTGGCCCCGGGGCATGAATACCTACACAATGATGCCCCCTGTGCCCATCATCCACGGG
ACCTCAAGTCCATCAACATCCTGATCCTGGAGGCCATCGAGAACCACAACCTCGCAGACACGGTGCTCAAGATCA
CGGACTTCGGCCTCGCCCGGAGTGGCACAAGACCACCAAGATGAGCGCTGCGGGGACCTACGCTGGATGGCGC
CGGAGGTTATCCGTCTCTCCCTCTTCTCCAAAAGCAGTGATGTCTGGAGCTTCGGGGTGTGTGTGGGAGCTGC
TGACGGGGGAGGTCCCTACCGTGAGATCGACGCCCTTGGCCGTGGCGTATGGCGTGGCTATGAATAAGCTGACGC
TGCCCATTCCTCCACGTGCCCCGAGCCCTTTGCCCGCTCCTGGAGGAATGCTGGGACCCAGACCCCAACGGG
GGCCAGATTCGGTAGCATCTTGAAGCGCTTGAAGTCATCGAACAGTCAGCCCTGTTCCAGATGCCACTGGAGT
CCTTCCACTCGCTGCAGGAAGACTGGAAGCTGGAGATTCAGCACATGTTTGATGACCTTCGGACCAAGGAGAAG
AGCTTCGGAGCCGTGAGGAGGAGCTGCTGCGGGCGGCACAGGAGCAGCGCTTCCAGGAGGAGCAGCTGCGGCGGC
GGGAGCAGGAGCTGGCAGAACGTGAGATGGACATCGTGGAACGGGAGCTGCACCTGCTCATGTGCCAGCTGAGCC
AGGAGAAGCCCCGGGTCCGCAAGCGCAAGGGCAACTTCAAGCGCAGCCGCTGCTCAAGCTGCGGGAAGGCGGCA
GCCACATCAGCCTGCCCTCTGGCTTTGAGCATAAGATCACAGTCCAGGCCCTTCCAACCTCTGGATAAGCGGAAAG
GATCCGATGGGGCCAGCCCCCTGCAAGCCCCAGCATCATCCCCGGCTGAGGGCCATTGCGCTGACTCCCGTGG
ACTGTGGTGGCAGCAGCAGTGGCAGCAGCAGTGGAGGAAGTGGGACATGGAGCCGCGGTGGGCCCCCAAAGAAGG
AAGAACTGGTCGGGGGCAAGAAGAAGGGACGAACGTGGGGGCCCAGCTCCACCTGCAGAAGGAGCGGTGGGAG
GAGAGGAGAGGCTGAAGGGGCTGGGGGAAGGAAGCAAACAGTGCTCATCAAGTGCCCCCAACCTGGGCAAGTCCC
CCAAACACACACCCAGTCGCCGCTGGCTTCGCCAGCCTCAATGAGATGGAGGAGTTCGCGGAGGCAGAGGATGGA
GGCAGCAGCGTGCCCCCTTCCCCCTACTCGACCCCGTCTACCTCTCAGTGCCACTGCCTGCCGAGCCCTCCCCG
GGGGCGCGGGCGCCGTGGGAGCCGACGCCGTCCGCGCCCCCGCTCGGTGGGGACACGGCGCCCGCGGCGCTGC
GACCTGGCGCTGCTAGGCTGCGCCACGCTGCTGGGGGCTGTGGGCCTGGGCGCCGACGTGGCCGAGGCGCGCGG
GCCGACGGTGAGGAGCAGCGCGCTGGCTCGACGGCTCTTCTTTCCCCGCGCCGGCGCTTCCCGGGGGCCTC
AGCCCCACCCGCGCTCCCCACGGCCGCGCGAAGACGTGGGCCCCGGCTGGGCCTGGCGCCCTCGGCCACCTC
GTGTCGCTGTGCTCCGTGTCCGACTGCAACTCCACGCGTTCAGTGTGCGCTTGACAGTGACGAGGCCGACCCG
GCCGCGCCCTCCCCACCACCTCCCCGCCGCGGCCACACCCACGCCCTCGCCCAGCACCAACCCCTGGTGGAC
CTGGAGCTGGAGAGCTTCAAGAAGGACCCCGCCAGTCGCTCAGCCCCACCCAGTCACGGCTGCATGCGCTGTG
AGCCGCGGGCACCGGCGGACGCCATCGGATGGGGCGCTGGGGCAGCGGGGGCCGCCGAGCCCGCGGGCCATGGC
CTGGCCCTCGTGACCTTCTGGACTTCCCCCGCTGCCCGACCCCAAGGCCCTGTTCCAGCCCGCGCGGGCCC
CCTGAGTTCACAGGCCGCCACCACCTGACCTTTGCCCGGAGACCTCGGCCGCTGCCAGTCGCCCCGCTTG
GACCCCTGGAAACTGGTCTCTTTCGGCCGGACACTCACCATCTCGCCTCCCAGCAGGCCAGACACTCCGGAGAGC
CCTGGGCCCCCAGCGTGACGCCACACTGCTGGACATGGACATGGAGGGGCGAGAACCAGACAGCACAGTGCCC
CTGTGCGGGGCCCCACGGCTCCCACTAAGGCCTGCCACCACCGCCCGCTGGGCAGCCATGAATGTAGCGCCCCA
GGCCCTGCCCCAGCCCGCATGCCACAAGGTGGGGGAGGCCCTGGGCAGGATGTTCACTCTATTTATT

2970/5332
FIGURE 2597

ACTGTGCCCTGTCCACGGTGCCTCCTGCAITGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTCAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGGGAGAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTCCCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGGCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCCTCAAACCTCAGGTCACGTCCGAGGTGACACAAAGGTACTTCGATGATGAATTTACGCCCCAGTCC
ATCACAATCACACCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCCT
GGGTGGTTTTTTCCCCCT

2971/5332
FIGURE 2598

GTTGGCGCCGCCGGGAGGGAGGGCGGGCGCGCAGTGGGCGGGGCCGGTGGGCCAGGCTCCAGGGAGCAGTG
TCAGGGCCAGGGAGACGATGGTCTCCGTGACTATGGCCACTTCCGAGTGGATCCAGTTCTTTAAGGAAGCCGGCA
TTCCTCCAGGACCTGCCGTCAATTATGCCGTGATGTTTGTGGATAATAGGATTCAGAAGAGCATGCTGCTGGATC
TCAATAAGGAGATAATGAATGAGCTGGGCGTGACCGTGGTGGGTGACATCATCGCCATTCTCAAGCATGCCAAAG
TGGTGCACCGTCAGGACATGTGCAAAGCTGCCACTGAGTCAGTACCCTGCAGCCCTAGCCCCCTTGCAGGCGAAA
TTCGCCGTGGCACCAGTGCTGCCCTCCGAATGATCACCAACAGCCTGAACCATGACTCTCCACCCAGCACACCCC
CCAGGCGCCCGGACACCAGCACCTCCAAGATCTCGGTCACTGTGTCCAACAAGATGGCAGCAAAGAGTGCCAAGG
CCACTGCAGCCCTGGCCCCGCCGGGAGGAGAGCCTGGCTGTTCCTGCCAAGCGCGCGCGGGTCACTGCTGAGA
TGGAGGGGAAGTACGTCATCAACATGCCCAAAGGCACCACACCCCGCACCCGCAAGATCCTGGAGCAGCAGCAGG
CTGCAAAAGGTCTCCATAGGACGTCTGTGTTTGACCGCCTCGGCGCCGAGACCAAGGCAGACACCACGACAGGGA
GTAAACCCACAGGAGTCTTCAGCCGCCTGGGGGCCACCCAGAAACGGACGAGGATCTGGCTTGGGACAGCGACA
ATGACAGCAGCAGCTCTGTCTTGACAGTATGCCGGGGTCTGAAGAAGCTAGGACGGGGCCAGCCAAGGCCAGTC
CCCAGCCAGCACTGACTGTCAAAGCCAAGGCCACAAGCTCAGCGACAACGGCTGCTGCCCCGACACTGCGGCGCC
TGGCGCTTTCTCAGGCTCTGGGCTTGAGAGGAAGCCGGAGTCTTGTCTAAAGTCAGCATCATCAAGAGACTGG
GCGCAGCTGCCCTTGTGCCCCGAGGCCAGGACAGCAGGTACCCAGCACCAAGAGTAAGTCCTCAGCCGAGGTCA
AGGTCAACATTAAAGAGGACTCTGTTGGGGCCCCGGGGAGCAGCTCCAGCGAGGGCCTTGGTGCCAGATGGACC
ACGCGGGCACTGTGAGCGTGTTCAAAAGACTGGGCCGAGGACCTTCTAGCCCCACCTGTGGGCGGGGTGCAGGCA
GCAGAGCCTGCGGGCATCTGCCCTGGCCGCCCCAGGCTCCTGGCTTCATCACGCCCTCCACCCAGCTCCTGGATGA
CACAGCTTGTCTCCCTCGGGCTCTAGAGCTAGGCCCCAGCATTCGGGGGATCACCCCATTTCTCCTAGCCTGGGA
TGGTCGTCGAGCTGGCCTGGCCTGCTCCAGGACTCCCCTTCTCTCATGTCTCTGTGCTTCTTCTCTGGCTGT
GGCCTTGGCAGAACCCACTTTTCTACCTCTCCCAAGTGCCAGGGGGCTTCTTCTCTCTACATTCCCCTTCTTC
CCCTGAGCAGGGTCTGCTGCCTCAGACCCAGCTCATCAGCCTCCCTGTCCCCCTCAACTAAGTGGGTGTCACCT
GGTGGGCCTCCCTTCCC

2972/5332
FIGURE 2599

CTCTTTATAATTTAGTTTCCATAGAAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCCACCCTCGTTCAGCCTGTCCAGACAGAAGCTGGGGCCAGCGGAG
GTAGCAGCAGACGCCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC
TGCTGGTCTCATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCAACCAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGAAAGCATT
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCCTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTGTCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCCTGACCCAGGTCAAGGAGCTGGGCGTGGTTCATGTACAACTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTTGGGCCAGGCAGGCAGCTCCATCCCATCAACT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCCACCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCCGAGTTTTCATCTACGTCGCTGTGATGAATACCTGCCCCACTCTGGAGTTCTCCCACCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGGCGGCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGCCTGACGCTGTGGCCCCGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCACTTTCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

2973/5332
FIGURE 2600

AGAACTGCGTCTCGCGACCCAGGCGCGGGTTTCCAGAGGACAGCCAACAAGCGATGCTGCCGCCGCCGTTTCCTG
ATTGGTTGTGGGTGGCTACCTCTTCGTTCTGATTGGCCGCTAGTGAGCAAGATGCTGAGCAAGGGTCTGAAGCGG
AAACGGGAGGAGGAGGAGGAGAAGGAACCTCTGGCAGTCGACTCCTGGTGGCTAGATCCTGGCCACACAGCGGTG
GCACAGGCACCCCCGGCCGTGGCCTCTAGCTCCCTCTTTGACCTCTCAGTGCTCAAGCTCCACCACAGCCTGCAG
CAGAGTGAGCCGGACCTGCGGCACCTGGTGCTGGTCGTGAACACTCTGCGGCGCATCCAGGCGTCCATGGCACCC
GCGGTGCCCTGCCACCTGTGCCTAGCCCACCTGCAGCCCCAGTGTGGCTGACAACTTACTGGCAAGCTCGGAC
GCTGCCCTTTCAGCCTCCATGGCCAGCCTCCTGGAGGACCTCAGCCACATTGAGGGCCTGAGTCAGGCTCCCCAA
CCCTTGGCAGACGAGGGGCCACCAGGCCGTAGCATCGGGGGAGCAGCGCCAGCCTGGGTGCCTTGGACCTGCTG
GGCCCAGCCACTGGCTGTCTACTGGACGATGGGCTTGAGGGCCTGTTTGAGGATATTGACACCTCTATGTATGAC
AATGAACTTTGGGCACCAAGCCTCTGAGGGCCTCAAACCAGGCCCTGAGGATGGGCCGGGCAAGGAGGAAGCTCCG
GAGCTGGACGAGGCCGAATTGGACTACCTCATGGATGTGCTGGTGGGCACACAGGCACTGGAGCGACCGCCGGGG
CCAGGGCGCTGAGCCCTCGTGCTGGAATGGTTGTCTGGTATCTGAACTGAGCCTGCTGGCTGGACCAACTGTCTT
CGAAAAGACACAGCTGGCTTCCCTAGTACAGAGAACAGGGCTTGGGCCACTTTGGAGAGACAGAATCTAGTCCTG
GGCAACTTCACATCCGTCCCTCCTGTCTCAGGGCTGGCAGGGGGAGCCTGGAATTACCCCTAGTGATGGAATGAC
AGGGTCTGGTGGGGACTGAATCCCTGGCCCTGGGGTCATAGCTTGGGCTGTTCCCTTCTCTGATACGGGAAGAGA
CCCCAATCAGATTTTTCAAATTAAAGCCAGTCCTGGG

2974/5332
FIGURE 2601

AGGAAACTGAGGCCCTGAGAATTGACTCATTGAGATCACTTCCCATGATCACGCAGCTGAGCAGTTTCCAATACA
GAATTCAGATTTGGGGTTCCCTACTTCCAATCCAGGTCTCTGTGCTCCACACTTGTCTTTTCGTGCTCCATGTTTG
AAGAAATTAATATTGTGGAAGAACAGTTTTTAAGGCTTAGAGGAACCTTGAGTTAGGATCCGTACTTGGCAGATGAG
GAAATTGATTCTCATGGATGTAAATTCAGTGTGTTGAGGCCACAACAGGGCATCATGGTGGGAGGCTTGAAGAGGA
AACACTCTGATTGGAAGAGGAGGAGGAGAGGTGGGAGTGGAGTCCAGCAGGCCCTCAGAGCTACCAGCAAGCCC
TGCTCCGCATCTCCCTAGACAAAGTCCAGCGCAGCCTGGGCCCCCGAGCACCCAGCCTCCGCAGGCATGTCTCTCA
TCCATAACACCCTCCAACAGCTGCAGGCTGCACTTCGCCTGGCTCCCGCCCCTGCCCTGCCCCCGAGCCCCCTCT
TCCTGGGCGAGGAGGATTTCTCCCTGTCAGCCACCATTGGCTCTATCTCAGGGAGCTGGACACCTCCATGGATG
GGACTGAGCCCCCTCAGAATCCAGTACTCCCTTGGCCTCCAGAATGAAGTGCCACCCAGCCTGATCCAGTCT
TCTTAGAAGCTCTGAGCTCCCGGTACTTGGGGGACTCTGGCCTGGATGACTTCTTCTGGACATTGACACATCTG
CGGTAGAAAAGGAGCCTGCACGGGCCCCACCAGAGCCTCCTCACAACCTCTTCTGTGCCCCAGGTTCTTGGGAGT
GGAATGAACTGGATCACATCATGGAATCATTCTGGGGTCTTAAACTGTGATAGAGGGGATCGATCCTTCTCTCA
TGTCATCTTCGGTGGCCTGGATCCCTGAATGCAACTCTGGGTGTGTGTTTTGTGGGGGCTCGAAGCAGTGACTA
TGGCCTCCTTTGTTCCCATTTTCAAGGTTCCACAACTGTCTTGATGTGTGTGTGTGTCTGGTTACCCCGACCTT
CTGTGAAGGTGGGTCTTCTGAATTAATTTATCTATTCCAAATGCCTTAACGAGACTCTGTTTCTGGGAGTCTGA
TTTTCCACTTACACATTTCTTCCACCTTCTCTGCTAGTTCCTCACTCCCCTGTGACCACTGGGGCCTCAGGGAAGA
TAAAGAAAGCTGGGCCTGTGCAAGGATGACAGGGATGTGCTGCCAGGTTGCTATAGAAACCCAGGCTCTGCCTCT
TGCACCTTGAGGGGGTGGGAGGGGCTGGTGTCTCCCTCCAGGCTGAACCCCACTTCTCGGCAGGACCCAGTC
TCAGCAGCCTCCTGATTTTATAACAGGCCGGACACGTGCAATAGGGTGGAACCAAACCTGCTCCATGCCGGGT
TATTTAAAGAAAGGCAGAGTTTGTGGTGGCTTTTTTTTTTTTTTTTGGATTGTTTGTAAATTTTTTAAATAAAA
GTATTTTGGGAAGGAG

2975/5332
FIGURE 2602

GGGCAGAGAGCACC GCCCAGCAGCCAGTGGGTTCCCGCGCGTGCCGAGACTCTGAGGCCTTGCACCCCCACGATC
CCGTACGATGCGCGTCAAGAAGATCGCGATCTTCGGCGCCACTGGCCAGACCGGGCTCACCACCTGGCGCAGGC
GGTGCAAGCAGGTTACGAAGTGACAGTGCTGGTGCGGGACTCCTCCAGGCTGCCATCAGAGGGGCCCCGGCCGGC
CCACGTGGTAGTGGGAGATGTTCTGCAGGCAGCCGATGTGGACAAGACCGTGGCTGGGCAGGACGCTGTATCGT
GCTGCTGGGCACCCGCAATGACCTCAGTCCCACGACAGTGATGTCCGAGGGCGCCCGGAACATTGTGGCAGCCAT
GAAGGCTCATGGTGTGGACAAGGTCGTGGCCTGCACCTCGGCTTTCCTGCTCTGGGACCCCTACCAAGGTGCCCCC
ACGACTGCAGGCTGTGACTGATGACCACATCCGGATGCACAAGGTGCTGCGGGAATCAGGCCTGAAGTACGTGGC
TGTGATGCCGCCACACATAGGAGACCAGCCACTAACTGGGGCGTACACAGTGACCCTGGATGGACGAGGGCCCTC
AAGGGTCATCTCCAAACATGACCTGGGCCATTTATGCTGCGCTGCCTCACCACCGATGAGTACGACGGACACAG
CACCTACCCCTCCCACCAGTACCAGTAGCACTCTGTCCCCATCTGGGAGGGTGGCATTCTGGGACATGAGGAGCA
AAGGAAGGGGGCAATAAATGTTGAGCCAAGAGCTTCAAATTACTCTAG

2976/5332
FIGURE 2603

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCTCCCGGGGAAGTCATTTCATCTGAATGTGGGAGGCAAGAGATTAGTACCTCTCGCCAG
ACTCTCACCTGGATCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCACCCGTCACCTCTACGTCTTGCGCATCACAAAGA
GTTGGATCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCAGTTCTATGGGCTCACTCCTCTGGTTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCTGT
CCGACGGAGCAACAGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCC
TCCCTCACCCCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCTGTGGAGGCCTGTTCCTTCGTCGGGAACAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGAATGCCGTCACCAAGCACTGGCAGGTCCAGGAGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCTCCTGGGCTGCAACAACGGCTCCATTACTACGTGGATGTGCAGAAGTTCCCTTGCCCAT
GAAAGACAACGACCTCCTTGTGTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCACCGCCCTCAGTGTCTA
CCTCACCCCCAAGACCAGTGACAGTGGGAACCTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGCGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTTCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACCACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCCGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGGCCAGTGGCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGCAGGGGCTCCCGGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCCAGCCCATGGA
CGGCCTCGGCCAGGCCCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCCCGGGCTCCTTCAGCTCCCTCATGGGCTGTCTCCCCAGCCCCCTACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG
TGGTGGGGGAGCTTTGTGGAACGCTGCCAGGAACCTGGTGGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCTCACACCTCCCAAGATGAAGCTCAATGAAACTTCCTTTG
AACAACGCAGCTGCCATGATGCCTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTACGGGCCAGGGCTCCTTGAATAAATGTTATTGTTACTAGGTCCCACTTCCCTCTTTTCTG
GAAGCCAAAGTACCCTCCCCAATAAAGTCCTCACTGCC

2977/5332
FIGURE 2604A

CGTTGCTGTTTGTGCTGCTGCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCAAAAAGTGTGCAGGCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGCGGCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCGGTCTGTGTCCCTTGATCTGTACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCCTGTGTCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACCTCCTCGGGCGCCCGGCCCGGCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCACGGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGAGGAGCGTCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCGAGGAGTCTGCTGCCGAGGGGCGCGCTTGG
CCTGGGGCGTTACGACTGTCTAGCTGTGTCTCCGAGCGCCTGGGGAACCTCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCACACCGGCTTTGAAAGAGTTAATGGGTCTCGGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAAACACGCGCGGCGGGTACACGTGTGTGTGCCCCGACGGCTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGTCTCCGCGACGGCGGT
GTTGCTGCCCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCTAGGCAAGGCGCTGGGCGCGG
GCTGCCAGCTCTGCCCCACCTTCGGCTCAGAGGGTTTCCGGGAGATCTGCCCGGTGGTCTGCTTACCTACT
CGGCCTCCGACCTCCGCTACAACACAGACCCCTGGGCCAGGACCCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGCCTGAACCCCGC
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTCTAGCGCAACCCCCAGGCTCTCGGCGCCAGGACGCTGCATTTCCCGGCCAGCGGT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTCGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAATCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCCGCCGTGTGACCTCG
GGCGTGTGAGAACACGCCAGGCAGCTTCTGTGCGTGTGCCCCGCGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCAGGCCTGTGTGGCCGAGGGGCTGCAAGAACCTGCCTGGCT
CTTTCCGCTGTGTTGCCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGCCCCGGCCGCTGTGACAACACGGCAGGCTCCTTTCACTGTGCCTGCCCTGCTGGCTTCCGCT
CCCAGGGGCCCGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCCAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACACTGCTGGCTCCGAGTGG
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAATCGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCGGGTGCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGG
CGCCGTGCGGTGCGGCCCGGGCCCTGCGCAGACGTGAACGAGTGCCTGGAGGGCGATTTCTGCTTCCCTACGGCG
AGTGCCCTCAACACTGACGGCTCCTTTGCCGTGACTTTGTGCCCTGGCTACCGACCCGGACCCCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCACTGTCTCTCCGGGACACCGCGCTGGCCCGGACCTCGCCTCCTGCCTCGACGTGGACGAATGTGCGGAGC
GAGGCCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCCGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCAGATTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCAGCCTGTGACCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAATG
TCGAAGGCTCCTTCTCTGTGTCTGCCCCAACAGCCCCGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCCGCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCCGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGCTGCCGCATCCAGCAGTGCCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTCAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGTATTGCAGCAACGGCT

2978/5332
FIGURE 2604B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCCTACGAGTACGGCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCTCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCTGGACATGACCCGCTATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCGCCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA
CCTGGAGAAGGGACCTACGGACGCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC
TGATGTGCTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTTCATTAAAA
ACCACCTATTTTCT

2979/5332
FIGURE 2605

ACATTGTGACGCCAGGTTGCAACAGGATGGAATTCAGGGACGGACCCAGCCTGGCTAAGGGAACCATTTCCTG
CCGGACTTAGGCTGGCAATGCCCCCTTCCCCAACCCAGACACAGGGGTTGGCCACAATCCCACTGAATGCCCTT
GGTTCACACTCCATTTCCAGTTTCTGTTGACCCACCTTCCAGTGTGGACAGGATGGAGGGGGGACACTTGC
TTAGGAGGCGGGGAGGGAGGAGGAGGAGAAGATGCGCAGTTACCTCATGTCGGTGCCCGCTGGGGAGGGGTCCGG
GAAGAAGGGGAAGGGGTGCCTGGCGGGTACTTTTCTATCTTTTATTTCCAGATTTTTTTGTATCTAACTTGAA
GATTGTATTATACAAGGACAGCCAATAAAGGAAGAATATAATGGTG

2980/5332
FIGURE 2606

GCTCGCGCGCTGCATCCCGCACCATCCCCGGCCCCGGGCCCTGGCCGGCGTCAGACCGAGCTGCCGCCGCCAC
CACCGCAGCAGCAGCAGTCGGGGAGCCAGGCCAGCCAGGGCCGCGGGAGGCGGGGGCGCCCGGGCCCTGGATGT
CCCCGAGCGCGCGGCCAGCGGGGACCCCGGAGGCCTGAGCGGCACCTGCCCCAGCCCCCTGTGGGGCCCCGG
GGCCCCCAGAAACCTGCAGGACGGAGCCAGACGGGGCGGGCACCATGAACAAGTTACGGCAGAGCCTGCGGGCGA
GGAAGCCAGCCTACGTGCCCGAGGCGTCGCGCCCGCACCAGTGGCAGGCAGACGAGACGCGGTGCGGAAGGGCA
CGTGCAGCTTCCCGGTGAGGTACCTGGGTACGTGGAGGTAGAGGAGTCCCGGGGAATGCACGTGTGTGAAGATG
CGGTGAAGAAGCTGAAGGCGATGGGCCGAAAGTCCGTGAAGTCTGTCTGTGGGTGTGAGCCGATGGGCTCCGAG
TGGTGGACGACAAAACCAAGGATCTTCTGGTTCGACCAGACCATCGAAAAGGTCTCCTTTTGTGCTCCTGACC
ACCTGGACAGGCTTTTCTCTATATCTGTCTGTGACGGGACTACCCGCGCTGGATCTGCCACTGTTTTCTGGCAC
TGAAGGACTCCGGCGAGAGGCTGAGCCACGCTGTGGGCTGTGCTTTTGCCGCCTGCCCTGGAGCGAAAACAGCGAC
GGGAGAAGGAATGTGGGGTCACGGCCGCTTCGATGCCAGCCGACACAGCTTCGCCCCGAGGGCTCCTTCCGCC
TGTCTGGGGGTGGGCGGCCTGCTGAGCGAGAGGCCCCGACAAGAAGAAAGCAGAGGCAGCAGCTGCCCCACTG
TGGCTCCTGGCCCTGCCCAGCCTGGGCACGTGTCCCGACACCAGCCACCACATCCCCTGGTGAGAAGGGTGAGG
CAGGCACCCCTGTGGCTGCAGGCACCACTGCGGCCGCCATCCCCGGCGCCATGCACCCCTGGAGCAGCTGGTTC
GCCAGGGCTCCTTCCGTGGGTTCCCAGCACTCAGCCAGAAGAACTCGCCTTTCAAACGGCAGCTGAGCCTACGGC
TGAATGAGCTGCCATCCACGCTGCAGCGCCGCACTGACTTCCAGGTGAAGGGCACAGTGCCTGAGATGGAGCCTC
CTGGTGCCGGCGACAGTGACAGCATCAACGCTCTGTGCACACAGATCAGTTTATCTTTTGCCAGTGCTGGAGCGC
CAGCACCAGGGCCACCACCTGCCACAACAGGGACTTCTGCCTGGGGTGAGCCCTCCGTGCCCCCTGCAGCTGCCT
TCCAGCCTGGGCACAAGCGGACACCTTCAGAGGCTGAGCGATGGCTGGAGGAGGTGTCACAGGTGGCCAAGGCC
AGCAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAAGCAGCCTCAGTGGCCC
CAGTGCCCAACCATGCCTCCTGCCCTGCAGCCTTTCCCCGCCCCCGTGGGGCCCTTTGACGCTGCACCTGCCCAAG
TGGCCGTGTTCTTGCCACCCCAACACATGCAGCCCCCTTTTGTGCCCGCTACCCGGGCTTGGGCTACCCACCGA
TGCCCCGGGTGCCCGTGGTGGGCATCACACCCTCACAGATGGTGGCAAACGCCTTCTGCTCAGCCGCCAGCTCC
AGCCTCAGCCTGCCACTCTGCTTGGGAAAGCTGGGGCCTTCCCGCCCCCTGCCATACCCAGTGCCCTGGGAGCC
AGGCCCCGCTCGCCCCAATGGGGCCCCCTGGCCCCCTGAGCCAGCGCCTGCCCCAGCTCCAGAGTTGGACCCCT
TTGAGGCCCAGTGGCGGCGATTAGAAGGCCAAAGCCACTGTAGAGAAACCTCCAACCCCTTTTCTGGCGACCTGC
AAAAGACATTGAGATTGAAGTGTAG

2981/5332

FIGURE 2607

TCTGAGCATCCGAAGCGCGGCCAGGTATGCATCTAGGGCACCGGGTCTTGGTGGCGCGCCAGTGGGCCCCCTCC
CTCCACCCCTGTGACTAAACCACCCCTCCCTACACGGTTGAATGACAAGTTCAACCTTCCCTAAAACCCCGGTGA
CGAGTCCAGCCGCGCGCCCATTTCTTACGCAGGGGCGGGACGGACTTTCAAAGACTTGGAGTTCCACGGGTGTG
GGTTCGAGACCTTCTCTGCCAGTTCCAGCTCCGCTACCCTGAGCAAATGACTTACGCTCCATTGGATTTTCCG
CAATGTGGCTGAAGGTGGGGGCGCTACTTCGGGGGACCGGTGGACAGCTGGGCCAGACTGTTGGTTGGCCTTGTG
GGGCCCTGGGGCTGGGCCCCACCGCTGGGGACCATGTGGAGGTTCTTGGGCCAAAAGTTTTACCAGGATGGGC
CTGGGAGAGGCTGGGTGAGGAGGACATTTCGAGGGCACGGGAGGCCCGTCCAGGAAGACACCCGCCCCAGC
TGAGTGACCGCTCTCGAGAACGCAAGGTGCCTGCCTCCCGCATCAGCCGCTTGGCCAACCTTGGGGGACTGGCTG
TGGGCTTGGGGCTAGGAGTACTGGCCGAGATGGCTAAGAAGTCCATGCCAGGAGGTCGTCTGCAGTCAGAGGGTG
GTTCTGGGCTGGACTCCAGCCCTTCTGTGCGAGGCCAATGCCGAGCGGATTGTGCAGACCTTATGTACAGTTC
GAGGGGCCGCCCTCAAGGTTGGCCAGATGCTCAGCATCCAGGGTACAGCATGACCCCTCGACTCCTGACCCCTGAC
CTCCCTTCTACCCAGCCCTACCCACCAACAGGCCCAACTTCAGATACTCACACGGGGTCCCTCCTCACCTCTT
CGCTTACTTCCCCCTGGTTCCACTGTCTCCCAAGACAACAGCTTCATCAGCCCTCAGCTGCAGCACATCTTTGA
GCGGGTCCGCCAGAGCGCCGACTTCATGCCCCGCTGGCAGATGCTGGTGAGTGCCAGTGGGGGAGGGCGGTGAG
GGAGGCAGGTCCATCTCCTCTGACCTGCCTGACCTTCCTGGCTTCACTGCCCCACTCCCTGCCTCTGAGCCTCA
CTTTCCCCATCTGTAAATGGGAATCACCAGAGTACACACCTCCTAGCATTGCTGTGGTGATTAAACAGGGAAC
AGCAGCCTGACCTCTCTGTGCTTCAGTTCCCTTCCCTGGGAAATGGCGATAGTGACAGCCACACCCACATCATAG
GGTCACATAAATCAGTTTACACTGAGCACTGAGAACGGCCCTGATTCACTGTGAGCAACATGCAGGTGTTAGCT
GTGATTATTACTGTTTTTTAATTAAAGGAGATCGTGTCTGTAATAGGTTGGCACGGCGCCTGGCAÇCAAGTAAG
TGCCAGGACATGAGCTGTTCTAATAACTGGGTAAGGCATGGAATCCAGGATTCCGCCACCCACCTGCTCTCCCA
TCCCTGTTCTGCTTATTTCGCCATGCGGCCCCAGGCAGGTACTGCCTCTCTCTGGGCCACTCTGAATAGGACCTGG
CCCACAGGAAGCCCATTTGTAAATTTAGCTCTTCTTGATCACAGTAACTGTGAGTTAATAATAACATATAAGAGC
ATAATAAAGGATGGTTGGCCACGTGTAATGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGCGGTGGGAGG
ATCATTGTAGETCAGGACTTCCAGACCACCTGGGCAACATAGTGAGACCTTGTCTCTACTAAACATAATAACAG
TAATAATTAGCTGGGCACAGTGGCACATATCTGTAGTCCCAGCTATTGAGAGGCAGGAGGATGGCTTGAGCTCG
GGAGGTTGATGCTGCAGTGAGCCGTGAGAGTGCCACTACACTCCAGCCTGGGCTACAGAACAAGACCCCTGTCTC

2982/5332
FIGURE 2608

ATGAGGCGCTGCCCCGTGCCGTGGGAGCCTGAACGAGGCGGAGGCCGGGGCGCTGCCCCGCGGCGGCCCGCATGGGA
CTGGAGGCGCCGCGAGGAGGGCGGCGGCGGCAGCCGGGACAGCAGCGACCTGGGCCCCGCGCAGGGGCCCCGGCG
GGGCGGCCGAGGGGGCGGGCCCTGGGCCCCGACAGAGGGGTCCAGCCTCCACAGCGAGCCTGAGAGGGCCGGC
CTCGGGCCTGCGCCGGGACAGAGAGTCCGCAGGCAGAATTCTGGACAGACGGACAGACTGAGCCCCGCGGCAGCT
GGCCTTGGAGTAGAGACCGAGAGGCCCAAGCAAAAGACGGAGCCAGACAGGTCCAGCCTCCGGACGCATCTAGAA
TGGAGCTGGTCAGAGCTGGAGACGACTTGTCTTGGACGGAGACCGGACAGATGGCCTTTGGACTGATCCGCAC
AGGTCCGACCTCCAGTTTCAGCCCCGAGGAGGCCAGCCCCCTGGACACAGCCAGGGGTTTCATGGGCCCTGGACAGAG
CTGGAACGCATGGGTACAGACTCAGCCAGAGAGGGTCAAGTCCCTGGGCTGATAACCTCTGGACCCACCAGAAC
AGTTCCAGCCTCCAGACTCAGCCAGAGAGGAGCCTGTCCCTCAAAAGAGCCAAGTGCTGATGGCTCCTGGAAAGAA
TTGTATACTGATGGCTCCAGGACACAACAGGATATTGAAGGTCCCTGGACAGAGCCATATACTGATGGCTCCAG
AAAAACAGGATACTGAAGCAGCCAGGAACAGCCTGGCACTGGTGGTTTCAAATACAACAGGATACTGATGGC
TCCTGGACACAACCTAGCACTGACGGTTCCCAGACAGCACCTGGGACAGACTGCCTCTTGGGAGAGCCTGAGGAT
GGCCATTAGAGGAACCGAGAGCCTGGAGAATTGCTGACTCACCTGTACTCTCACCTGAAGTGTAGCCCCCTGTGC
CCTGTGCCCCGCCTCATCATTACCCCTGAGACCCCTGAGCCTGAGGCCAGCCAGTGGGACCCCCCTCCCGGGTT
GAGGGGGGCGAGCGGCGGCTTCTCCTCTGCCTTCTTTTCGACGAGTCTGAGGATGACGTGGTGGCCGGGGCGGA
GGTGCCAGCGATCCCGAGGACAGGTCTGGGAGCAAACCCCTGGAAGAAGCTGAAGACAGTTCTGAAGTATTCACCC
TTTGTGGTCTCCTTCCGAAAACACTACCCTTGGGTCCAGCTTTCTGGACATGCTGGGAACCTCCAGGCAGGAGAG
GATGGTCGGATTCTGAAACGTTTCTGTCAGTGTGAGCAGCGCAGCCTGGAGCAGCTGATGAAAGACCCGCTGCGA
CCTTTCGTGCCTGCCTACTATGGCATGGTGTGTCAGGATGGCCAGACCTTCAACCAGATGGAAGACCTCCTGGCT
GACTTTGAGGGCCCCCTCCATTATGGACTGCAAGATGGGCAGCAGGACCTATCTGGAAGAGGAGCTAGTGAAGGCA
CGGGAACGTCCCCGTCCCCGGAAGGACATGTATGAGAAGATGGTGGCTGTGGACCTGGGGCCCCCTACCCCTGAG
GAGCATGCCCAGGGTGCAGTCACCAAGCCCCGCTACATGCAGTGGAGGAAACCATGAGCTCCACCTCTACCCTG
GGCTTCCGGATCGAGGGCATCAAGAAGGCAGATGGGACCTGTAACACCAACTTCAAGAAGACGCAGGCACTGGAG
CAGGTGACAAAAGTGCTGGAGGACTTCGTGGATGGAGACCACGTCATCCTGCAAAAGTACGTGGCATGCCTAGAA
GAACTTCGTGAAGCTCTGGAGATCTCCCCCTTCTTCAAGACCCACGAGGTGGTAGGCAGCTCCCTCCTCTTCGTG
CACGACCACACCGGCCTGGCCAAGGTCTGGATGATAGACTTCGGCAAGACGGTGGCCTTGCCCGACCACAGACG
CTCAGCCACAGGCTGCCCTGGGCTGAGGGCAACCGTGAGGACGGCTACCTCTGGGGCCTGGACAACATGATCTGC
CTCCTGCAGGGGCTGGCACAGAGCTGA

2983/5332
FIGURE 2609

CCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAACCCAGGGCTAA
AGTCACGTTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTAACCAC
ACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCTTCTCC
CAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTCATCTTCAAG
GAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTATCCAG
TATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGGAGAAG
AGGAAGCCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGAGCCACCCCGTGGTGGGG
GCTGTCCAGGGGCTGTCCCGGCATGCCGCCGATGACTCAGGCGCCCGCATTATGCACCACATGCCGGGCCAG
CCGCCCTACATGCCGCCCTTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCAGGGGCCATG
CCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACATCTTG
TTCCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCTTCAAG
GAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGGCAGCT
CGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGCACCTT
TCCCCCATGCCTGCCCCCTTCCCCTGTTCTGGGGCCACCCCTTCCCCCTTGGCTCAGCCCCCTGAAGGTAAGT
CCCCCTTGGGGGCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCTGTCCC
CAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTTGAGGTTTGGTTTTTTCAC

2984/5332
FIGURE 2610

AGTAGGAAGGAGCCGGGGCTGTAGCCGGAGTGGAGCGGCTGCCAGCCGAGGAGCAGGCGGGCCGCGGCCATA
TTGCGGCCCTCAGCGGCCGCGACCGAGTCATGGCTGAGACCTACGACTTCCTCTTCAAATTCCTGGTGATTGGCA
GTGCAGGAAGTGGCAAATCATGTCTCCTTCATCAGTTCATTGAGAATAAGTTCAAACAGGACTCCAACCACACA
TCGGCGTGGAGTTTGGATCCCGGGTGGTCAACGTGGGTGGGAAGACTGTGAAGCTACAGATTTGGGACACGGCTG
GCCAGGAGCGGTTTCGGTCAGTGACGCGGAGTTATTACCGAGGGGCGGCTGGAGCCCTGCTGGTGTACGACATCA
CCAGCCGGGAGACATACTCACTGGCTGCCTGGCTGACGGATGCCCGCACCCCTGGCCAGCCCCAACATCGTGG
TCATCCTCTGTGGCAACAAGAAGGACCTGGACCTGAGCGGGAGGTCACTTTCCTGGAGGCCTCCCGCTTTGCCC
AGGAGAATGAGCTGATGTTCTGGAGACCAGCGCTCTCACAGGCGAGAACGTGGAGGAGGCGTTCCTCAAGTGTG
CCCGCACTATCCTCAACAAGATTGACTCAGGCGAGCTAGACCCGGAGAGGATGGGCTCTGGCATTCAGTACGGGG
ATGCGTCCCTCCGCCAGCTTCGGCAGCCTCGGAGTGCCAGGCCGTGGCCCCCTCAGCCGTGTGGCTGCTAGCTC
TGTGGAGCCAGCTCACCTGTTCTCCAGGACCAGCCCTGCTGGGGCCAGGCCAGGCTCTGAGAGGCCGTGTCCT
AACCTGCCCTGGCCCCGGAGAAGCTACGTTGCCACCTGTCCCCCTTCCCTGGCCTGGTGGGGCCTGGCTTTGGGG
CAAGACTGAGCCACGGGGGAAGGGGAATCCCGTACCTGCTGCTGCTTCTCTGTCTTGGCTAACGTCTGTCCCC
CTGAACCCCTAACCATACCCCAAGAGCTCCCAAAGCCTGAGACCAGGGTCATTTGTCCCCAACTCCCCATCTGGC
CCTGCTGTTGCTAGTACCTGTTATTTATTACCTGGAGGCCTGTCCAGCACCCACCCTACCCCCATAAAGCATTGT
TTACA

2985/5332
FIGURE 2611A

GTGTGAGTCCCATGTGCTTGGTGGGAGGCGCTGTGTGAGAATGTACAGGGCAGGAGGAAACATAGCAGGGCTGGG
GTGCAGAGGAGGCCAGAGCAGTGCCTCCAGTCTGCAGGTACTGCACTGGGCACTGGGAGACCAACCTGGCCC
CAGGGGCTTCCCTGTGGCTGCCTTCCAGGGCAGTACTAGGTAAACAGGTGCCTGTGCTGATGCCATGTTGCTAGG
AGTGAACGGACAATCAGCCGGAGTACTCAAGGTGACCCTTGGTCTCTGAATCCTGAATAACAAAGAGGGTCAGA
AGGAAGAGTGTCCAGGCCAGTGTGAGGCCCTTGTGGTGGCGATGAGCTCAGCCTGTTGAGGCATGGAGCAGAGT
GATGGGAGAGGCACATGAGGTTGGGGGCCCTTGGAGGCTGTGGTGGGAATTTGTATTTCTCAGGATGGAGTGAA
GACCTGGAGAGGAGGGGCTCTGGCTGCTGTGTGGGGATGAATTGTGGGAAGAGGGTGACAGCACTGGACCCCTTCC
CTGCCACCCATCCACGTGCATCATCAGTGAATCTCTGATTGGATTCTTAATTGGGGAGGTCTTGCCCATCTCTA
GTCAGTAACCTACTGTTTCTAAGCCTCCTGGACCATGGCCCAATTTCTTCTCCAGTGAGGTGGTGTCTCAGAGTG
CCGACCCCTTCCATAGGGAGTGAGCAGTGCAGGAAGGTGCCCCCTCCTGAACCTTGAAGTGTAGCCATTAGGGTT
TTCCCTGGGGGGCCTTCTCACTAATTGTACTCTGGTGTGCCAGAGAGAAGGTTGTGAGCTTCCCACTGCTAGGT
GGCAGTAGATGGTGGCAGCCCTCTCTTCCAGGGCAAGGTCTGGTGGATGAGGTGCACATGGTTAATGCAGAGCA
GCTTAACATCCACCACAGAGGGTGAGCCCTGGGATAATGTTGTGGAGGCGTCTGGGGAGGGTGAGGATTGAAG
CAGCCCACTGCTGTGGCGTGCCTTGGCAAGCATCCTGTTGTGGCAGTGGCCACTGATGTTTGTATCGTGAA
TGTTTATCTTGGGACTGTCTTGGCTGGGCCGGGCCCATAGGTGTAGCTGAGCATTCTGGGGAATGGACGCCAGCA
GAGTTGTACCAGGGCAGAGAGGTGAGGGCAGAGAGGTCAAGACAGATGGTCCGGGCTGGGGAGAAGTTGAAGGGT
CCTTGTGCCAGTCTCCCTTTTTTGTGTGTACCTCATCTTGGCACTGCAGTGACTTTGGGCAGAGGGTGGGACA
GGGACCTTTTAAATTTTTTAAATGGCATTTCAGCCTGTGCTCCAGTTCTCCATGTGGCAGGCACTGTGCTGGCTG
TCTTCCAGACACTTGTATCTTGTTCACCTGTTCACAACAACCTGTGAAATAGCTGTGAGCTCCATTGGATCC
ATGGATGAGGAACCTGAGACCAGGAAGTCACCTGCCTGATGCCACAGCTCATGTGGCAGCACTGAGACTTGAACC
AGGGAATTGTGTCTGCAGAAGTGGCTGGGCCATTTCTTTACCTCTCAGCCACCTTTCTGCCAGCTCCCTGATGA
CAAACATCCCGGGGCCCTGGCCACAGCATTGTAGGGCTGGGTGAGGGAGTGGCAACTGTGAGGCAGAGGAAAGA
ACCCTGTAGACAGAGAAACCAAGCCCTGCAATGAGTCTGTTAGATCTCCAGGAGTTGGGGCTCCAGAACCTCCC
AAGTTATGTTCTCAGAGAGATTAATTGCTACCGCTGTAAACAGCAGTGTATTACCCTGCTGTACACATCAGG
CAGTTGAGGCCCATTGAGGTGTTGGAAGTGGCTAGGGTTACCCAGCAAATTATCCTTGGAGTTGGAATTAGGTCT
TTCTATTGAGACTGTAGCTTTTGGCTCCTGTTCCGAGGTCTATGGGACAGATAATTTAGTGGGGATTCTTTGTAG
TCCAGGGCAGCAGTTCTTAACATTGCTGCATGGTAGAATTACCTGGGAAGCTTTACCAATTTGAGGCCCTTCTT
AGGCCAGGTACTTCAGAACCTCAGAGCTCCCCAGGGGGCTCCACTCCACAGCCAAGGGTAAGAATTCTTGGTCTA
GGGCTGTGAGGCCACCTCCTTGACACCTGAAAATGTTTAAATGGTATTATTCTACTGAAATGGCTGAGGTGGG
GTTTGGGGTACTTGTAAACAAATCAAACCTGTGTACTAATTGAGCCCTAGCTGGGTGCCAGGCCCTAGGTTGTG
TGTTGGGAGGGAGTGGGCTCTTGGGCCAGGAGCTGAGGTTTCTGATAGACTTGGGGATGGGATTTTGGCTGAA
AAAGAAAGTCTTTTGGGCGAGGAGCTTGGAAACCTTGACCAAGGAGTCATGGGGAAGATGGGGCAAGGAGGGGT
GGGAAAATAGGTAATTCATGGCTGCTTCTCTAAGATGTGCTGCTAGCCCCAGTAAACCTACCTCCCTCCATCC
CTGCCAGGCCATGGTGGCGTGTACCCAGGCAACGGGCTCGGGTACGTAAGGCACGTTGACAATCCCCACGGCGA
TGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAACTGGGACGTTAAGGTAGGGGTGAGGGTGAGGGTGAG
GGTGGCGCTGGGGCTAGGGCTGGGGCGGGGGTGGCGTGCCTCCACTCCATTTTCCACTCTCAGCCAGATTCTGG
CATTCTCCTGTTTCTTCTCAACACACAGCGGGCAGTGCATCTGCCGGCTCTTCTGGGAAATGGCACCTCCT
CCTCTCTAGCGGACTGTGTGGTGGGAACTCCCTCTTTCCGGGAATGGTGTCTGTCTGCCAGCCCCACCCGGCCT
TGTAATGAACACTTTCCCTTTTCTGTCTTTAGTAGCTTCTGCCATCTCCATGGTATGAGTCTCTGGGT
TGTCATTCACTTTGAGAGCCCGAGGGGTGGGAGGGAGTGATGCAGGCAGACGCTGCGCCTCCTAGTGGGGCTCCCG
GGGCACCGTGGGAGGCAGCGGCTCCTGGCCGTACCAGCTAGCCTCATCCTTTGGCCTGCCCCAGGTGCATGGCG
GCCTGCTGCAGATCTTCCCTGAGGGCCGGCCCGTGGTAGCCAACATCGAGCCACTCTTTGACCGGTTGCTCATTT
TCTGGTCTGACCGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGTATT
TTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGCTAGCATCAGGACAGAAAGGTGTCCAAGTACCTG
TATCAGCCGCTACGCCACCTAGTGGCCAGTCCCAGAGCCGATGGCAGACAGCTTAAATGACTTCAGGAGA
GCCCTGGGCTGTGCTGGCTGCTCCTTCCCTGCCACCGCTGCTGCTTCTGACTTTGCCCTCTGCTCTGCTGGTGT
GGAGGGCTCTGTCTGTGTGCTGAGGACCAAGGAGGAGAAGAGACCTTTGCTGCCCCATCATGGGGGCTGGGGTTGT
CACCTGGACAGGGGGCAGCCGTGGAGGCCACCGTTACCAACTGAAGCTGGGGGCTGGGTCTACCTGTCTGGT

2986/5332
FIGURE 2611B

CATGACCCCATTAGGTATGGAGAGCTGGGAGGAGGCATTGTCACCTCCCACCAGGATGCAGGACTTGGGGTTGAG
GTGAGTCATGGCCTCTTGCTGGCAATGGGGTGGGAGGAGTACCCCCAAGTCCTCTCACTCCTCCAGCCTGGAATG
TGAAGTGACTCCCCAACCCCTTTGGCCATGGCAGGCACCTTTTGGACTGGGCTGCCACTGCTTGGGCAGAGTAAA
AGGTGCCAGGAGGAGCATGGGTGTGGAAGTCCTGTCAGCCAAGAAATAAAAGTTACCTCAGAGCTGCA

2987/5332
FIGURE 2612

ACTACCACCATGCTGGCCTCAGGGATGCTTCTGGTGGCCTTGCTGGTCTGCCTGACTGTAATGGTCTTGATGTCT
GTTTGGCAGCAGAGGAAGAGCAAGGGGAAGCTGCCTCCGGGACCCACCCCATTGCCCTTCATTGGAACTACCTG
CAGCTGAACACAGAGCAGATGTACAACCTCCCTCATGAAGATCAGTGAGCGCTATGGCCCCGTGTTACCATTAC
TTGGGGCCCCGGCGGGTTCGTGGTGTGTGGACATGATGCCGTCAGGGAGGCTCTGGTGGACCAGGCTGAGGAG
TTCAGCGGGCGAGGCGAGCAAGCCACCTTCGACTGGGTCTTCAAAGGCTATGGCGTGGTATTAGCAACGGGGAG
CGCGCCAAGCAGCTCCGGCGCTTCTCCATCGCCACCCTCGGGGACTTCGGGGTGGCAAGCGAGGCATCGAGGAG
CGCATCCAGGAGGAGGCGGGCTTCTCATCGACGCCCTCCGGGGCACTGGCGGCGCCAATATCGATCCCACCTTC
TTCCTGAGCCGCACAGTCTCCAATGTATCAGCTCCATTGTCTTTGGGGACCGCTTTGACTATAAGGACAAAGAG
TTCCTGTCACTGTTGCGCATGATGCTAGGAATCTTCCAGTTACGTC AACCTCCACGGGGCAGCTCTATGAGATG
TTCTCTTCGGTGATGAAACACCTGCCAGGACCACAGCAACAGGCCTTTTCAGTTGCTGCAAGGGCTGGAGGACTTC
ATAGCCAAGAAGGTGGAGCACCAACCAGCGCACGCTGGATCCCAATTCCCCACGGGACTTCATTGACTCCTTTCTC
ATCCGCATGCAGGAGGAGGAGAAGAACCCCAACACGGAGTTCTACTTGAAAACTGGTGATGACCACGTTGAAC
CTCTTCATTGGGGGCACCGAGACCGTCAGCACCAACCCTGCGCTATGGCTTCTTGCTGCTCATGAAGACCCAGAG
GTGGAGGCCAAGGTCCATGAGGAGATTGACAGAGTGATCGGCAAGAACCGGCAGCCCAGTTTGAGGACCGGGCC
AAGATGCCCTACATGGAGGCAGTGATCCACGAGATCCAAAGATTGGAGACGTGATCCCCATGAGTTTGCCCGC
AGAGTCAAAAAGGACACCAAGTTTCGGGATTTCTTCTCCCTAAGGGCACCGAAGTGTTCCTATGCTGGGCTCT
GTGCTGAGAGACCCAGTTTCTTCTCCAACCCCCAGGACTTCAATCCCCAGCACTTCCTGAATGAGAAGGGGCAG
TTTAAGAAGAGTGATGCTTTTGTGCCCTTTTCCATCGGAAAGCGGAAGTGTTCGGAGAAGGCCTGGCCAGAATG
GAGCTCTTTCTTCTTACCACCGTCATGCAGAACTTCGCCTCAAGTCCTCCAGTCACCTAAGGACATTGAC
GTGTCCCCCAAACACGTGGGCTTTGCCACGATCCACGAACTACACCATGAGCTTCCTGCCCCGCTAGAGCGAGG
GCTGTGCCGGTGACAGGTCTGGTGGGCGGGGCCAGGGAAAGGGCAGGGCCAAGACCGGGCTTGGGAGAGGGGCGCA
GCTAAGACTGGGGGCAGGATGGCGGAAAGGAAGGGCGTGGTGGCTAGAGGGAAGAGAAGAAACAGAAGCGGCTC
AGTTCACCTTGATAAGGTGCTTCCGAGCTGGGATGAGAGGAAGGAAACCTTACATTATGCTATGAAGAGTAGTA
ATAATAGCAGCTCTTATTTCTGAGC

2988/5332
FIGURE 2613

CCCTGGGTCTTCCTAGCCCCGAGACTTTCAAGTCCATATGCCTGGAGTCCCCCTCCTGAGACCCTTAACCTGCG
ATCCTCCGCAACAGAAGACCTCCAGATGCACAGCCACACTTCCATCTCACCTAATAAAACCCAGACCTTTGGAT
TCCTCTCCCTTGGAATGCCAAATCCACAACCTTTGGGGTGCACTTCTCACTCTCAGACCCCAAATCCAAAGCCCAA
GTGCTCCCCTATGCAAATATTCCAAACTCTTCAGTTCTACAGTTTATCGGTTGCCCCCTCCTAAATCCACAGCCC
TGCGGCACCCCTCCTGAAGTACCACAGATTTAGTCTGGAGGCCCCCTCTCTGTTTCAGCTGCCCTGGGGTCCCCTT
ATCTCCCTTGCTGGCTGTGTCCAAGCTAGGTGGCATTCATGGTGGGGCGTGTAGTTGGGAGGTGAAATAAGGT
GATTATGTAATTAGCCAAAGTCCATCCCTCTTTTTCAGGCAGTATAAAGGCAAACCCACCCCATCACCATCT
GTCATCTCACTACCACCATGCTGGCCTCAGGGCTGCTTCTGGTGGCCTTGCTGGCCTGCCTGACTGTGATGGTCT
TGATGTCTGTCTGGCAGCAGAGGAAGAGCAGGGGGAAGCTGCCTCCGGGACCCACCCCACTGCCCTTCATTGGAA
ACTACCTCCAGCTGAACACAGAGCACATATGTGACTCCATCATGAAGTTCAGTGAGTGCTATGGCCCCGTGTTCA
CCATTCACCTTGGGGCCCCGGCGGGTCTGTGGTGTGTGTGGACATGATGCCGTCAGGGAGGCTCTGGTGGACCAGG
CTGAGGAGTTTCAGCGGGCGAGGCGAGCAAGCCACCTTCGACTGGGTCTTCAAAGGCTATGGCGTGGCGTTTCAGCA
ACGGGGAGCGCGCAAGCAGCTCCTGCGCTTTGCCATCGCCACCCCTGAGGGACTTCGGGGTGGGCAAGCAGGCA
TCGAGGAGCGCATCCAGGAGGAGTCGGGCTTCCTCATCGAGGCCATCCGGAGCACGCACGGCGCCAATATCGATC
CCACCTTCTTCTGAGCCGCACAGTCTCCAATGTATCATCAGCTCCATTGTCTTTGGGGACCGCTTTGACTATGAGG
ACAAAGAGTTTCTGTCACTGTCTGAGCATGATGCTAGGAATCTTCCAGTTCACGTCAACCTCCACGGGGCAGCTCT
ATGAGATGTCTCTTTCGGTGATGAAACACCTGCCAGGACCACAGCAACAGGCCCTTAAGTTGCTGCAAGGGCTGG
AGGACTTCATAGCCAAGAAGGTGGAGCACAACCAGCGCACGCTGGATCCCAATTCCCCACAGGACTTCATCGACT
CCTTTCTCATCCACATGCAGGAGGAGGAGAAGAACCCCAACACGGAGTTCTACTTGAAGAACCTGATGATGAGCA
CGTTGAACCTCTTCATTGCAGGCACCGAGACGGTCAGCACCACTGCGCTATGGCTTCTTGCTGCTCATGAAGC
ACCCAGAGGTGGAGGCCAAGGTCCATGAGGAGATTGACAGAGTGATCGGCAAGAACCGGCAGCCCAAGTTTGAGG
ACCGGACCAAGATGCCCTACATGGAGGCAGTGATCCACGAGATCCAAAGATTGGAGACGTGATCCCCATGAGTT
TGGCCCGCAGGGTTAAAAGGACACCAAGTTTCGGGATTTTTTCTCCTAAGGGCACCGAAGTGTTCCCTATGC
TGGGCTCCGTGCTGAGAGACCCAGCTTCTTCTCCAACCTCAGGACTTCAATCCCCAGCATTTCTGGATGACA
AGGGGCAGTTTAAAGAAGAGTGATGCTTTTGTGCCCTTTTCCATCGGAAAGCGGAAGTGTTCGGAGAAGGCCTGG
CCAGAATGGAGCTCTTTCTTCTTCTTACCACCGTCATGCAGAACTTCCGCCTCAAGTCTCCAGTCACCTAAGG
ACATTGACGTGTCCCCCAAACACGTGGTCTTTGCCACGATCCCACGAACTACACCATGAGCTTCTGCCCCGCT
GAGCGAGGGCTGTGCCGCTGAGGTCTGGTGGGCGGGGCCAGGGAAAGCGGGTCAGGGCGGGGTTTCGGGAAG
AGGCGGGTATAAGAATGGGGGAAGATGCGGGAAAGGAAGGGCGTGGTGGCTAGAGGGAAGAGAAGAAACAGAA
GCGGCTCAGTTCACCTTGATAAGGTGCTTCCGAGCTGGGATGAGAGGAAGGAAACCTTACATTATGCTATGAAG
AGTAGTAATAATAGCAGCTCTTATTTCTGA

2989/5332
FIGURE 2614

CAGGACCATGGAACCTCAGCGTCTCTCTCTCTTGCCTCCTCACAGGACTCTTGCTACTCCTGGTTTCAGCGCCA
CCCTAACACCCATGACCGCCTCCACCAGGGCCCCGCCCTCTGCCCTTTTGGGAAACCTTCTGCAGATGGATAG
AAGAGGCCTACTCAAATCCTTTCTGAGGTTCCGAGAGAAATATGGGGACGTCTTCACGGTACACCTGGGACCGAG
GCCCCGTGGTCATGCTGTGTGGAGTAGAGGCCATACGGGAGGCCCTTGTGGACAAGGCTGAGGCTTCTCTGGCCG
GGGAAAAATCGCCATGGTCGACCCATTCTTCCGGGGATATGGTGTGATCTTTGCCAATGGAAACCGCTGGAAGGT
GCTTCGGCGATTCTCTGTGACCACTATGAGGGACTTCGGGATGGGAAAGCGGAGTGTGGAGGAGCGGATTTCAGGA
GGAGGCTCAGTGTCTGATAGAGGAGCTTCGGAAATCCAAGGGGGCCCTCATGGACCCACCTTCTCTTCCAGTC
CATTACCGCCAACATCATCTGCTCCATCGTCTTTGGAAAACGATTCCACTACCAAGATCAAGAGTTCTTGAAGAT
GCTGAACTTGTCTTACCAGACTTTTTCTACTCATCAGCTCTGTATTCCGCCAGCTGTTTGAGCTCTTCTCTGGCTT
CTTGAAATACTTTCTGGGGCACACAGGCAAGTTTACAAAAACCTGCAGGAAATCAATGCTTACATTGGCCACAG
TGTGGAGAAGCACCGTGAAACCTGGACCCACAGCCCCCAAGGACCTCATCGACACCTACCTGCTCCACATGGA
AAAAGAGAAATCCAACGCACACAGTGAATTACAGCCACCAGAACCTCAACCTCAACACGCTCTCGCTCTTCTTGC
TGGCACTGAGACCACAGCACCCTCTCCGCTACGGCTTCTGCTCATGCTCAAATACCTCATGTTGCAGAGAG
AGTCTACAGGGAGATTGAACAGGTGATTGGCCACATCGCCCTCCAGAGCTTCATGACCGAGCCAAAATGCCATA
CACAGAGGCAGTCATCTATGAGATTAGAGATTTCCGACCTTCTCCCCATGGGTGTGCCCCACATTGTCACCCA
ACACACCAGCTTCCGAGGGTACATCATCCCCAAGGACACAGAAGTATTTCTCATCTGAGCACTGCTCTCCATGA
CCCACACTACTTTGAAAAACCAGACGCCTTCAATCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAC
TGAAGCTTTTATCCCTTCTCCTTAGGGAAGCGGATTGTCTTGGTGAAGGCATCGCCCGTGGGAATTGTTCTCT
CTTCTTACCACCATCTCCAGAACTTCTCCATGGCCAGCCCCGTGGCCCCAGAAGACATCGATCTGACACCCCA
GGAGTGTGGTGTGGGCAAAATACCCCAACATACCAGATCCGCTTCTGCCCCGCTGAGAGGGGTGAGGGAAGGG
GGTCAAAGGATTCCAGGGTCATTCACTGTCCCCGCCTCTGTAGACAATGGCTCTGACTCCCCGCAACTTCTGCT
TCTGAGAGACCTGCTACAAGCCAGCTTCTTCCCCCTCCATGGCACCAGTTGTCTGAGGTACATTGCAAGTGAGT
GCAGGAGTGAGATTATCGAAAATTATAATATACAAATCATATATATATATGTCTTGTTTTTTGGAGACAGAG
TCTCACACTGTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCTCCACCCCGGGGATCAAG
CAACTCTCTGCTCAGCCTCCCTAGTAGCTGGGATTACAGGCATGCACTACCACGCTTGGCTAATTTTTGTATT
TTTAGTAGAGATGGGGTTTCACTGTGTAGGCCAGGCTGGTCTCGAACTCCTGAACTCAAGTGATTACCCACCTT
AGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGTCACCGTGCCAGCCATGTATATATATAATTTTAAAAATTAA
GCTGAAATTCACATAACATAAAATTAGCTGTTTTTAAAGTGAAAATTTAGTGCGGTGTGGTTTCATTACAAAGCT
GTACAACCACCACCATCTAGTTCCAAACATTTTCTTTTTTCTGAGATGGAGTCTCACTCTGTACCCAGGTTCTG
AGTTCACTGTTGCCATCTCTGTCCACTGCAACCTCCACATCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCTG
GAGGAGCTGGTATCACAGGCGTCCCCACCACGCTGGCTAAATTTTGTATTTTTTAGGTGGTCTTGAACCTCCTGA
TGTCAGGTGATTCTCCTAGCTCCAAATGTTTTTATTATCTCTCCCCAACAAAACCCATACCTATCAAGCTGTCA
CTCCCCATACCCCATTTCTTTTTTCTCTCGGCCCTGTCAATCTGGTTTTTGTCACTATGGACTTACCAATTTCT
GAATATTTCCCATAAACAGAATCATACAATATTTGATTTTTTTTTTTTTTTTGAACCTAAGCCTTGTCTGTCTC
CCAGGCTGGAGTGCTATGGTGCAATTTTTGTTCAGTGCACCTCTGCCTTCCAAGATCAAGAGATTCTCCAGTCT
CAGCTCCCAAGTAGCTGGGATTACAGGCATGTACTACCATTGGCTAATTTTTCTGTAGTTTTAGTAGGGACA
TGTGGCCAGGCTGGTGGTGAGCTCCTGGCCTCAGGTGATCCACCCACCTCAGTGTTCCAAAGTGCTGATATTAC
AGGCATAATATGTGATCTTTTGTGTCTGGTTGCTTTTCTGTTGAATGCTATTTTTTGGAGTTTCTGCTGTTGTAG
ACCACAGTCACACACTGCTGTAGTCTTCCCCAGTCTCATTCCAGCTGCCTCTTCTACTGCTCCGCTCTATCA
AAAAGCCCCCTTGGCCAGGTTCCCTGAGCTGTGGGATTCTGCACTGGTGCTTTGGATTCCCTGATATGTTCTCT
CAAATCTGCTGAGAATTAATAAACATCTCTAAAGCCTGACCTCCCCACGTC

3052/5332
FIGURE 2672

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCCTACTGTGGAAATTCTTTGCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTCACTCTTCCAAGGCTCAAAGAGAGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCAACCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGCTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAAGTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGGAAGAAGCTGTACTCGAC
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTTCGGTGTTTACCAGGACAAATACAGGTTCTTGGTGTTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTGCTGCTGAGAGGTTCTGTGCTGAGGT
GGCTTGCCGGCTGCTGGATGCCCTGGAGTTTCTCCATGAGAATGAGTATGTTTATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTTATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGACGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACACTGAGGACATCATGAAGCAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCTTAGGTGGAATCCAGAACTTTCCATTTGCAGTGTGC
AACAGAAAAAATAATGAAGTAATGTGACTCAAGGCCTGCTGTTTAAATCACAGATAAGCTTCTAGAACAAGCCC
TGGAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCCGGAGGGCCCCAGTTTCC
CTCCCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGGGGTTG
GGCCGGCCACAGGGGGGACCCCTCCTACCCTTGACACCTCTGTGCTTTGGTAATAAATTGTTTTACCAGAG

3053/5332
FIGURE 2673

CACTCTGCCTAGGACGCACCTAATTGCCAGCCACAGGCTGTGACAGTACATGGGAACTGTCCACCAGGAAGTTC
CTCAGAGGCTCAGTGCTCGGGGCTGTTATTGGGGAGTAGTCATGTGGCCCCCTCTGTCTGACATGTATCCGCATC
CCAGGTTCCCCAGAGGAAAGCAGGTGTTGCACAGAAACCACAGTGATTGCACAAGCAGTTTAGGCTCAGCGAGCC
CCACTCACTTAGGGGATTCTGGGAGCCCTCCCGGAATCCAGGGTCCCAGACCTTGCCAGGAGAGCCGCTCTCAGGC
CTGCTGCATTAGCCCTTCCTGCATGGCTGGATAGTGACAGAGAGAAAGAGGAAGAAGAAGCTTATTTAAACTAG
GAAGCAGCAAGTCGTGAGAGCCAAGAGTGCCTTGACCTTGTTGGAACCAAGGCACCAGAGCCGCTTCTCATTGC
TGGGAAGTTTGGGGATGATGACCCCTGACCTTCCGCGTGGTTATAACCTCACTCCCTTGTTTGTTCCTCCACAGCT
GCACCCACCTCCACCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGTAAGTGACCCCT
GCAGGTGGGGGGCAGCTTGAGGGGAGGGACTTTCACAAACACATCCTTGACTTCTGAGCCCGTCTGTGAGCTGG
GAGAGCTCGGCCGGGGCCAGGGTCCCCACCTGCAAGGAGTATTAAGACCGTGGGCGGGGCAGGCGCCAGTTCT
CCATCATCCCAGGGTGTGGAAACCCACAGTTGGATCCACCCAGTCTGGCTCTGATGCTTCCCTGCTGTGTGAC
CTGGGCAAGCCCATCCCCCTCAGAGCTCAGTTTCTCATCTGTGAAATGGAGCCACTAATACCCACAGGGTGTGG
CCCATCTGCCCCCTACCACCGGCTCGCAGCGTCTCGTATCGAGCACCTACTGTGTATCACCGTGTGGGTGTG
GGGTCCAAAAGAGAACCCAGCAGATGGGGTCCCTGTGCTGAGGATTCAGTGAAATCACACATCGGGGTGCCGAGCA
TGAGTCTCAGCAGACAGGACATGTGCACTCGAGGTGGGGCTAAAAGGAAACAAATAGAGAAAGGGAGAGTGGCC
ACGAGGGTGAATCACGCCCTCCACACAGAGGAGGTGCCTAACAGAAGGGCATCGTGGTGGTTCATAGCCCCGCCA
TCATCCCTGGGTGCTGGGATTACAGGTGACTCTTATTTTCTTTTGTATTATCAGAATTGCTTCACACCCAGAAA
ACCAGGGACAGCTGGGTGAGTTGCCCTCCCTCCGCCCTAGGTGGAGGCCATGAGAGTGGGTGAGAGCGTGGGCTG
TGGAGCCGGGCTCACTAGTGGTGGGTAGCACCTGCTTTGAGAGCCTGGCATTGCCTGAGCCGGGCTGTGTTTCAT
AAGCACTGCTTCATTGAATCCTCCAGTAGGGCAGCTACCGTGTCCCATTTAACTTCTCTGCATGGTTCAGGT
GTGTCTGGCACAGTAGGCACCCCATCAACCTGAGCTGTTCTGTTATTACTACTGTAATTATGCTCATCATCCTA
GAAATACAGCCTTGCTCTCTGTTTCGTGCATCTGACCTCATCAACATTTCTGAGGCTCAAACTTGGTGATGATG
AGTTGGCCCCAGGCCCAGCCCTGGAGAGGCTCCAGTCTGGCGGGAGCCATGTCATGTCCCAGTCCCATCGGGAA
GAGGGGTGGGCTGGGAGGGGAGCACAGGGCACTGGGCCAACCAGAAGACATTACCCCTCCCATCCACTGGGAAG
GCAGCTCTGTTCTGAAGCATTCGAAAGGTCAGGGGCTGAATGCCAGTGGTGTTCATCCATCCATTTATTATT
ATTACCAAGCCTTTCTGCAACCTCCTGTGAACTGAGTGCTGGGGACATCTGCAGAGATGGGTGAGACCCAAATT
CCTGCCCTGAAGGAGCTGCCCCCTGGGGGAGTGGGGCAGGCATGAATACCCACATGAGATTGCTCAGGGCCTG
CATGGCTGTGCCACGTCGCTCGCGTCAGTCACTATGGGCTTCGCCAGCATCGTGGGGAGGACTCCAGGACGC

3054/5332
FIGURE 2674

TCATTCCCTGTCCTCGGATCACAGTCTCTTCTACTACAGTGTGCGCGCCCTCTGCCTGCGTAGCCCCGGCCATGG
CTCTGTAGCCTCGACCCCTTTGTGCCCCGGCCCGTCTCCGCGCTACCCACGCCTGCGCTCTCCGCTCCACCTT
CTTTCTTCAGCCGAGGCCGCCGCCGCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTCGCCTTGGTGCCTGT
CTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCCCA
GCACCTGTGCTACAGCCATGTCCTCTGCGACCCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCCAGCTAGTG
GGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTTGGGG
GAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGAGC
GAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCTTACCCCCGGCACCCCTCCCCAACCTTCCCCAACCC
CACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCTAGATGCCC
CGCCCCCTCCACACCCTCCCCGCCGCCACTACCACCACCACCCTACCACCAGCCCCCTCCCTCCCCCTGTCCC
TCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGAGG
CCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACCTT
CTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAAGT
CGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAAGCCCTGGAGGGCGAGTGCCAGGGGCTGGAGG
CACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCATCG
AGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAAAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTCTT
CAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATGCT
TGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAAGCCAGGAGGTCAATACCAGCCTGGGCAAC
ATAGTAAGACCCTGTCTCTATTAAAAAATAAATCAACCTTCTTCCCCACCAAACACCCAACTCCTCTCTAC
TCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCCTATTTCTGGATCTCCTTCCCTCCTTTCTCGT
CCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCGTCACATAACAGCCGAGGCACCGAGGCCACAGG
GAAGCAGCTGGGAGCTTGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGTGG
GTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGGGA
CCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGGCC
AGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGAAGTGGTGT
TCATTTTAGCTCTAAGAAAAAATCAGTGTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGATGG
CGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTG

3055/5332
FIGURE 2675

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCGCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCTATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCTTCCCAGTCTTGACAAATGGCCTTTTCCTTAAGTTCTCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTGGCATCTCTGATCTAACAAAGGGCACCACCTAACAAAGGACAAAGCCACCATTCACCT
TGATTCCGCACATGCCCAACGATGACTTCTGTCTTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCTGGGGCTCAACCTGACCAAGTTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCTTGCCTCCCCAGGAAA
AGGGCCACTCGCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAN
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGCTGTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCTTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAA
CACCGATCGCCCGTCGCGCATGATTTCTACCCGCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCGAGCTTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCCTGTCTGTGCGCCAGCTCTGGGACGGCACCGGCGTCTGTAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGGCGAGCACACCGCTACCCGACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGATGTGCATGGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCC
AGTCCAAGGCCAGTTATCTCTCAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGGA

3056/5332
FIGURE 2676

GAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGGCGGCCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGTTCACT
TTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCACGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCACCTGGTGGAAAGCACGGCCCAACCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGC
ACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG
CACCGCAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCTGTCCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGCTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCACTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTCATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG
GCAAGATACTTGTGTTGTTGTTTCTTTCTTTTCA

3057/5332
FIGURE 2677

GTGGAATAACCCCTTCTGAAAAATGGTTTCACCCGCTCCGTCTCTAGAACGGGTCGGGCCGCTACCACTGTCCG
GCCCCGAGGGGAAGTGTCTTCTCCGGAAGTGACAACACGCTGACTAGGAAAAGGAGGCGGGGCAGTGGGGCC
TTCGGCGCGGACTATGGAAGGAGCCGGCTACAGGGTGGTGTGAGAAAGGCGGAGTGACCTGCACACCAGCGC
TAAGAAGTATCAGGACCGAGACTCTCTCATCGCTGGTGTATCCGTGTCGTGGAAAAGGACAATGACGTCTCTCT
GCACTGGGCTCCTGTAGAGGAGGCTGGAGATTCCACCCAAATCCTCTTCTCCAAGAAGGACTCCAGTGGGGGTGA
CTCATGTGCTTCTGAGGAGGAACCAACCTTTGACCCCGGCTATGAACCTGACTGGGCTGTCATCAGCACTGTGCG
GCCACAGCCCTGCCACTCAGAGCCACGAGAGGTGCAGAGCCAGCTGCCCCAGGGCTCCTGGGCCTTCTCAGT
GAGTCTGGGGGAGCTAAAGTCCATCCGCCGCTCCAAGCCAGGCCTCAGCTGGGCCTACCTGGTTCTGGTGACCCA
GGCTGGAGGTTCCCTGCCCCGACTGCACCTCCACCGCGGGGACCCGCGCCCTGCTCCGCGTCTCAGCCGCTA
CCTGCTGTGGCCAGCTCCCCGAGGACTCCCGCCTCTACCTTGTCTTCCCCACGACTCCTCTGCTCTCTCAA
CTCCTTCCACCACCTGCAGCTCTTGACCAGGACAGCTCCAATGTGGTGTACGCTTCTCCAGATCCCTACTCC
ACCAACTTCAGCAGCTTCTCCCGAGTGACCAACTTCTTCCGGGGTGCCCTGCAGCCACAGCCTGAGGGAGCCGCC
TCCGACCTTCCCCCGCCACCCGACGATGAGCCCGAGCCTGGATTGAGGTCATTTCTGTGTGGAGCTGGGGCCT
CGGCCAACCGTGGAGCGGGGCCCTCCAGTTACAGAGGAGGAGTGGGCACGCCACGTGGGCCCTGAAGGTCGCCTG
CAGCAGGTCCCTGAGCTGAAGAACCGGATCTTCTCGGGGGTCTGAGCCCCAGCCTGCGGCGCGAGGCCTGGAAG
TTCCTCCTAGGGTACCTCAGCTGGGAAGGCACAGCTGAGGAGCACAAGGCCACATACGCAAGAAAACGGATGAG
TATTTCCGCATGAAGCTGCAGTGGAATCTGTGAGCCCTGAGCAGGAGCGGAGAACTCACTTCTGCATGGATAC
CGCAGCCTCATCG

3058/5332
FIGURE 2678

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGCCCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACCACAGCCACCCAGTCCCACACCCAGCCCCACCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTG**ATG**GATGAGGAGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCGCCGGCCCCCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCATCAGAT
GAGGAGAAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATAT**TGA**AGTCCAGGGAGGGAGCGCCCCGGGCGCGTCCGCCCCGTCCCACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCGTCTCCCATTTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCCGTCTTCCAGCCCACGACCTGCCGCGCCGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCTTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTGTTTTCCGCCTAGCGACAAGGGATTTGCTCGCACGGCATTGGCTCCATCCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGCGTGGCCAAGCCCTCCTCTTCCAGAATTGGCCCGGGGCC
TTCAATTTACGTTCTTTTACACTACGGGGACTGGGGTCGTCTTTGCCACGTCCCGACAACCTTGTTCCTGACCCC
CTCAGGGATGGCCCCAAACTGTCCCTGCCTCTGGCACCCCTTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGCTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTTACCTCTGAGAT

3059/5332
FIGURE 2679

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCAGGATGGGCGAGGTGGAGGCCCCGGGCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCC
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTAAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTACCCGAGCTGGGGTGAACCCCAAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGAAGTGGAGG
ATCTTGATACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTACCAAC
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCTTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATAATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACCTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCTGAGGAGTTCTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGT
GTCGCAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTCCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCCGAGCCGCGGGCGTC
CCCTGCCGCTGCTTCTTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTGAGACATGGTCATGTATGGCTACAGGAAGCAGTTCGAGGCCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCCAGCTCCCTCCACAATAAACGCTGTTTCTCCTTG

3060/5332
FIGURE 2680

ATGGTCCGTCCGCGCCGTGCCCCGTACCGCTCCGGCGCCGGGGCCCCCTCGGGGGTCGCGGCCGCCCTCCGCGG
CCCCCTCGTGGTGCGCGCCGTCCGCTCGCGCTCCTGGCCTGCCAGCCCCGAGGCCCGCAGCCTCCGCGGATCCGG
GCCCCGCTCGGCCCCCTCCCATGGAAGGTGCTCGGGTCTTCGGGGCACTGGGTCCCATCGGTCCCTCCTCACCTGGG
CTCACCTCGGGGGTCTGGCCGTGAGCGAGCACCGGCTCAGCAACAAGCTGCTGGCTTGGAGCGGCAAGCGCAGA
CCCTACTCTGACTCCACTGCAAAGCTGAAGCGGACCCTGCCCTGCCAAGCCTACGTGAACCAAGCGGAGAACCTG
GAGACCGACCAAGTGGCCGAGAAAGCTGATCATGCAGCTGATCCCTCAGCAGCTGCTGACCACCCTGGGCCCCCTG
TTCCGGAAGTCCAGTTGGCACAGTTCCACTTCACCAACAGAGACTGCGACTCGCTCAAGGGGCTCTGCCGCATC
ATGGGCAACGGCTTCGCGGGGCTGCATGCTGTTCCCCACATCTCCCCCTGTGAGGTGCGCGTGCTCATGCTCCTG
TACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCACGACCAGAGCGGCTTCGTCAAGTCCATCCGGCAG
GTCATCACCACCCGCAAGCAGGCAGTGGGACCTGGTGGTGTCAACTCAGGCCCAGTCCAGATCGTCAACAACAAG
TTTCTGGCATGGAGTGGTGTGATGGAGTGGCAGGAGCCAGGCCTGAGCCCAACAGTCGGTCCAAGAGGTGGCTG
CCATCCCACGTCTACGTGAACCAGGGGGAGATCCTGAGGACCGAGCAGTGGCCAAGGAAGCTGTACATGCAGCTC
ATCCCGCAGCAGCTGCTGACCACCCTAGTGCCGCTGTTCCGGAAGTTCGCGCCTGGTCCAGTTCCTACTTCACCAAG
GACCTGGAGACACTGAAGAGCCTGTGCCGATCATGGACAATGGCTTCGCGGGCTGCGTGCACTTTTCCTACAAA
GCATCGTGTGAGATCCGCGTGCTTATGCTCCTGTACTCTTCAGAGAAGAAAATCTTCATTGGCCTCATCCCCAT
GACCAGGGCAACTTTGTCAACGGCATCCGGCGTGTCATTGCCAACCAGCAGCAGGTCCCTGCAGCGGAACCTGGAG
CAGGAGCAACAGCAACGAGGGATGGGGGGT**TAGT**GGTTACCCCGGGCTGGGCCCCCTCCAGGAGTCACAGATGAGG
CCCCCGCAGAGACTGGTGACACGCTTCTGAGCAGGGGCCCTGGGGACTTCAACTGCCCAGCAACATGGAGGATG
GTGTCCTGAGGCCTCCAAGGACGGTCCCCACCCCTCTACGTTTCCCCAATAAAGCCTTTTAAAAACC

3061/5332
FIGURE 2681

ACAAGCTCCCGGGAAACCAGGAGTGACAAGGGCGCCTGTCCCTGAGGAGTGGAGAGCGCGGAGTTGGTGCTGAGT
CAGCCCTGATGTGGCAGAGGAGGAGCAGGCCCCCGCAGAACCAGGGCTCTTCAGTGTCTCCAGGTCCCTTGGTGAA
GTGGAAGTGGACCAGGCGCGAGTTCGGGAACAGCGGCACTAGGGTGGTCTGCGGGGAAGCGAGGGGACCCCCAGC
TCTGGCTTCTCCACCACGGCCTCCCGGCTCCAGCCCGCTGAGTCCCCCGGGCCAGGACCAAAGTGAAGTCC
CCTGTCTCCCTACCTCAGGAAACGTATCTCCACCGCTCAACCAGCCCAACCCTGGAGTGTGTGGAAGCCGCT
CTCAGATCCCTTGGCAGCCCCCAGGTGCAGGTCTGGGTGCCCCGCTCAGTCCCTGCACAGCCACCAG
CTGGCTGCCTGGGACCCCTTGAAGCCAAGCCTGAGGAGTACCCACCACACCTGCTTCAGCACCCCTCAGCTCCGC
TCCCTCACAGCCAGCTCAGGCCACCTGGGGAGGCGCTCTTGCCCCAGCCCCGCCCTCTGGAAGAGCTACTGCGT
GCAGGCTCCAGCACCCGGCCCCAGCCCTCACCAGCAGCTGCTGCGGGATGAGCTGCATGTACAGCTTCCTTGGC
CACTGCTCGGTCTCTCTGTGGGGCACAAAGGGACGAGGGTCAGGAAGCCCCAGCTCCCCTGGATGCTGCCTCCAC
CCCCCAGCCAGCACTCACAGGATCTCCCCCTGGTTACGTAGACGTGGGATGGCAGCCACCTCTTGGACCGACT
GTTGGGCTCAGGCCTGGGCTTTTGGGGGAGAGGCAAGAGGAGCCCTCAGGGCTGGAGACCCCAATGCCAGTGT
CCCCCTCCAGCCACAGTCCGTGAGGATCTGGGGGTCCCAAGTCCCTGGGCTGCCGAGTGTCACTCCTGCCACT
CCATGACACCACTCCATGCCAGAACTTGTGTGACGATCTGGACTGGGCTGAGTTGACACCACCAGGTCCCA
CTGCCTGTTGGAAGGGAACGGGTGGGAAGAGGGGCCAGGCTCCTGGGAAACCTGTCTGTCTGTCTGCTGGGGCCT
GCCATCCCTCCCTCCGAGCCTTGGCCTGTTAGCCCCAGCTGGGTCCATTCTCTAGTCCCAGGGGAACAGGCCCTG
CCCCTCATCTGCTCACAGCCCCCATGGCTCCCCAGTGGCCTGAGACAGGTCCCGGCCCTCACCTGGTGACAGG
ACCTGCAGAGTCTGCCTCAACTGGCAAGGCATGACCAGGACACGTGGTTACCAGGCAGGGCCCTCCAGCCGAGG
ACGATCCCAACCCCTGCCAGCTCCCCGCTCCGCTGGCTTCCCTGCCGCCGCGCCAAGACCCACCCTCCAGCCCT
GCAGAGCCGCCCAGTGGCCGCTTTTCCATGGAGCCCTGGTGGGAACCCGCCCGGCATCCTCCGGGCTCCCTGCA
GTCCTTGCTCCAGCCATCGCATCACACTCCGCCACACCAAGTCTGGCTGCCCAACCAGGGCAGTGGGGTCTTAA

TCCCCCTCTGTCCCCAGAGGGGCTGTGCTTGGCTGGCACACCTGCTTGCGGGTGGTGATGACCTGCCGGATGGCA
CTGACGAAGCCGCTCTGGTTCGTAGGGGATGAGGCCATGAAGATCTTCTTCTTGGACGAGTACAGGAGCATGAGC
ACGCGCACCTCACAGGGGGAGATGTGGGGGAACAGCATGCAGCCCGCTGCGGGGGCCGCGGGTCAGGACCCTGT
GGTCACTGCCCCGGGGCACTGTGCCCCACCACCTGGACCGCCCCACCTGTAGGGGATGAAGGGAGATCATCGG
TGGACAGAGGCCCCCACAGTCAAGGCCATGGCCATAGGTGAGGGGCCTCTGAGAGCCCGTGCAGCGCCCATCGGC
ATCCCCCGACCCTGCCATGGCTGAGGTGAGAGTGGCACCCGGCACCCAGGCTGCGGTGAGAATGCCAAGAAGGCA
CTACCTCCCACCCACATCACCCCTGCCGCCAGCCCTCCTGACTGCCTGATGGGGTGAATGGCCCTGGGGGTAA
GAGCACAGGCAGCGCCCCACCGTTCTGCTGCCTCCTAGCTGTGTGACCTAACACCAGCCACCTCCTGCTTCTGGG
CCTCCATCATCTGTAAAACCGGTAATAGTGCACACAGTTGGTGCCACATAAAGGCTCAACAGATAAA

3062/5332
FIGURE 2682

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTAATGGTGGTCTCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTCACACAGTGGACTGCGCTCCCGAGTCTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGCAGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCCTCCTCATCTGCAACTACCCCCATACTTGTTCCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAACCTGAGAATCTTGTGCAGCAGATTGGGGAGCGGGGATCCACTTCTCCATTGTGTCTCCCCGGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCTTGTGAGCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTGGTTCGGGGACTCGTGTGCTGCTGTTGGGGGTGGCTCAGCCCCAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCGCACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCACTGGAGGCTGCCAAGAACCAGAAGGCTGGGTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCCAGGACCCCTGGCGCCCCCAA
GCCACCACCTGCTTCCAGCCAGTCTGGTCTCCACTGTGGCCCTGGCTCCGGCCTGGCTCCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCACTCTCCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGAAGTTCACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTTCATACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCAGGAGGATGGGGGGACA
GCAGGCACCCCCAGGGCTGGGGCCCATTTGAGGACCAAGCCAGGCCCTACAGAATCTGCTCCAGCTCCGCCC
ACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCCA
GCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCACCCCCCTCCTGGACCCATCCTTCGGCC
CCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGACTGGGGTGGCCCC
ACCCAGGCCTCCCTCCACCACCTGCCAGTCTTGGCCCGCACAACCTTCCCCCTCGGGCTCCACTGCCAGGTAAG
GGGACCCGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAGACCGAGTGCT
CCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTTCCCCCAGCGGGCTGCAGCCAGCGTCATGGAGGAC
GACATCCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCTTTTAAACAC

3063/5332
FIGURE 2683

AGGGTTTGAGGGTCTGTTTGAGTTGGGTGAAGAAGGCGGGAAGTTAATCCTCTTCCAATCAGCTCCCCATCTCGC
CCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCACTGACAGTCCCC
ACGTGAGGGACCGCGGTGGGAGTCCTAATCGGGGAGGAGGGGACGGGCGGCACTGTGCATCTGCTGTGCCTCGC
GGCCTCCAGCGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCGCGCCGTGAGCAGCTCCCGTTCTC
TGTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCTGCGAGGACCGA
GAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCTCATTGTTCTGTGCATCTGAGGTGGGCATCTC
TGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCTTCTTGTGGGACTTGAAGAACTGAC
CAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGCTTCTTGGGGGA
CTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTCTTGCAGGAAGC
CCTCTCCGGGTTTCGTGAGGCCGCGGGCACGACCTTCGTGAGTCTGGTGGTGTCCGGCCGGGTGGTGGCAGCAAC
AGAGGGTTGGTGGCGGCTGGGGACGCCCAGGCCGTGCTGCTCCCCTGGCTGGTGGGGTCCCTGCCGCCGACAGC
CGCTCGCAGTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACCTGACTCTGCT
GCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCACCCCTCAGCCAGTTGTATCCACAGCTTCTGGAGCG
CTGGTGGCAGCCACTGCTGGACCCGTTCGCGGCCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCAGTGGCTTCCC
CCTTCACACAGACATCCTCGGGCTGCTGCTCTCCACCTGGAAGTGAAGCGCTGCCTCTTACCGTGGAGCCCTT
GGGGGATAAAGAGCCTTACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCCTGGTCACTCCACGCA
CTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCAGAGCTTGCTA
CCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGCAGCTGGGGCTTCGGCGGCTGCT
GCTGCTGCTGTCTCCCGAGTCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCATGCCCTCACCCC
ACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTAGCGTCTCTGTGTTATTGCTCAC
AATAATACACAGCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGGTGGGTGGGAGGGGAGGAGACATC
CACTTCCCTGGCCCTCTCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTAACCCCCAGAA
TGTAACAGCAGCAGATGAACAAAAATAAAAAACAAAAGGCCGGAGGAAAGTCCCAGGCATCCCCC

3064/5332
FIGURE 2684

CGCCCCGGTCCCCGCTTGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCAT
CATGCCCGGCCGTGTCCAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGTAAAGAG
CAAAGAGGCGGAAATTAAGAGAATCAACAAGGAACTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTT
GGATGGCTACAGTAAGAAAAATATGTGTGTAACTGCTTTTCATCTTCTGCTTGCCATGACATTGACTTTGG
GCACATGGAGGCTGTGAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCAATTTCTGT
GCTGGTGAACCTCGAAGCTCGGAGCTGATCCGCCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCC
CACCTTCATGTGCCCTGGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGA
CATCCCCCGCATCCTGGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGCGGCCCTGTGCTCCTTCGACT
GTACAAGGCCTCGCCTGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCA
CATGGGTGTGGTACAGGCCGCCGCTCAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTG
CGTCTCTCTGGCTGTGTGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTA
CTTCGTCCCAGCACCTTGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGCTACCCGCTCCAGAGGATGCGGC
TGTGAAGGGGCGGCTGGTGAATGTCTGGAGACTGTGCTCAACAAGGCCCAGGAGCCCCCAAATCCAAGAAGGT
GCAGCATTCCAACGCCAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAA
CCTCCTGGTTTCGGGCTGCAACCAGCTGGGCCAGTTCCTGCAGCACCGGGAGACCAACCTGCGCTACCTGGCCCT
GGAGAGCATGTGCACGCTGGCCAGCTCCGAGTTTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAA
TGCCCTCAAGACGGAGCGGGACGTGAGCGTGCGGCAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAG
CAATGCCAAGCAGATCGTGTGCGGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGT
CCTGAAGGTGGCCATCCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCAT
CCGCATTGCGGGCGACTACGTGAGTGAGGAGGTGTGGTACCGTGTGTACAGATCGTCACCAACCGTGATGACGT
CCAGGGCTATGCCGCCAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACGAGAACATGGTGAAGGTTGG
CGGCTACATCCTTGGGGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGACGTTCTCCCT
GCTCCACTCCAAGTTCCATCTGTGCAGCGTGGCCACGCGGGCGTGTGCTGTCCACCTACATCAAGTTTCATCAA
CCTCTTCCCCGAGACCAAGGCCACCATCCAGGCGCTCCTGCGGGCGGCTCCAGCTGCGCAATGCTGACGCTGA
GCTGCAGCAGCGAGCCGTGGAGTACCTCACCCTCAGCTCAGTGGCCAGCACCGACGTCCTGGCCACGGTGCTGGA
GGAGATGCCGCCCTTCCCCGAGCGGAGTCTCCTCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGG
CAGCGCCCTGGACGATGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGGCATGGAGCCCCACCCCGAGCAC
TGTGTGACGCCCCCTCGCCCTCCGCGACCTCCTGGGGCTGCGGGCAGCCCCCTCCCCGGCAGCACCCCGGCTTC
TGCAGGAGCAGGGAACCTTCTGGTGGACGCTCTTCGATGGCCCGGCCAGCCAGCCTGGGGCCACCCCGA
GGAGGCTTCTCAGCGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGC
TGCTGACCCAGGTCCTGAGGACATCGGCCCTCCCATTCGGAAGCCGATGAGTTGCTGAATAAGTTGTGTGTAA
GAACAACGGGGTCTGTTGAGAACAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCG
CATGTATCTCTTCTATGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTCACCCACTGTGGTTACCCGGGAGA
CCTCCAGACTCAGCTGGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCGCAGGTGCAGCAGGT
GCTCAATATCGAGTGCTGCGGACTTCTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCC
CCAGGCCCTCACCTGAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCCACCGAGATGGCGGCCAGGATTT
CTTCCAGCGCTGGAAGCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAATCTTCAAAGCCAACCCACCCATGGA
CGCAGAAGTTACTAAGGCCAAGCTTCTGGGGTTTGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAA
CTTCGTGGGGGCGGGATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCCGCTGGAGCCCAATGCCA
GGCCAGATGTACCGGCTGACCCTGCGCACCAGCAAGGAGCCCGTCTCCCGTCACCTGTGTGAGCTGCTGCACA
GCAGTTCT**AG**CCCCCTGGACTCTGCCCCGGGGATGTGGCCGGCACTGGGCAGCCCCCTGGACTGAGGCAGTTTGG
GTGGATGGGGGACCTCCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTTCTCCGGCCTT
TTGTATTTTATTTTGTTCATCTGCTGCTGTTTACATTCTGGGGGTTAGGGGGAGTCCCCCTCCTCCTTTTC
CCCCCAAGCACAGAGGGGAGAGGGGCCAGGGAAGTGGATGTCTCCTCCCTCCACCCACCCCTGTTGTAGCC
CTCCTACCCCTCCCATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCT

3065/5332
FIGURE 2685

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCGGCCGCGTGAAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

3066/5332
FIGURE 2686

GGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCCGCC
TCTTGAAGAAGTGTCTGTGGCCAGGCCGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGATTA
CTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTACCG
CAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCATCCT
CTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGAGTGTTCCAGTATCTCTGATTATGCGGT
GAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCTCCC
AGTGAGAGAAGGTGGACATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACCGT
GCTCTATGCCC GGACAAGTGGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGCCAT
CGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGATCAA
AGATGTGGCCATTAAGGAGCCCCTAGTGGATGTCGTGGACCCCAACAGCTGGTCACCAACGCCTGCCTCATAAA
GGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTCTGCCTGCAAGTGAAGCGGAA
TGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTCCAC
CAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTTCTACATGGAGGACTACCTGACCGTGAAGACGGG
CGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGACCT
GGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTGAGGCCCGGCTCTCCCGCC
CTGCACGAGCCAGGGGCTGAGCGTTCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAGAAG
GGGGTTTTAGGGGCTGGGCTGGGGGGATGGGGAGGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTTTAT
ATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

3067/5332
FIGURE 2687

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCAGTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTC
CAACACAGAACTTCCATTCAATTCCCTCCGACTGCCCCGCTCCCTCCTCCAGGACAGAGCAGCCCCAGGTTTC
GAGACTGAACTACCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCCTCTTTCCCTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCAAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTCGGGGCGTGCAGGCGAGCTGGAA
CCCACCCCTGCTTGGAGCTCCGGGTAGCTCTCAAACTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCCCGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGTTATCGACCCGGCCC
AGTGCGCAGGCGCGGAAAGTTGAACTAATAAAGTTGTACGAGTTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGACCAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCTTAGCTGCCTTCCTTAGGCGTGGTGAAGCTGCCGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCTCGCCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCAGAATT
ACAGGGTCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCTGTCTCCGACTCTTTCGCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCAAGCCGAGCATGCCCCGGGCCCCCGCCTCCTTC
CCCGGAGCCCTGGCCCGCTGGCCCTAGCCATGGAGCTGAGCCGGCGCGTGGCCGGGCTGGGGGGCACCTGGC
CGGACTCAGCGTGGAGCAGTGCACAGCTTCACGCCCTGGATCCAGGCCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACCTTGCCATTGGACTGA

3068/5332
FIGURE 2688

GGTTCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACC**ATG**GAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTGCGAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTCGGAATCTTCCAGGCCTGGGCCGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTA
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCGGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGTTGTGCCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCT**TGAG**CCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACTCAACCAATAAACTGGTTCCTGCTATGA

3069/5332
FIGURE 2689A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGTCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAAACTCTCCCCCTGGACCCCAAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCACAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCCTCGCAGGGCTGGTGAGTGTCTTGATCCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCGGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGACAGAGATCCCATCCCTCTGCCTGTGCCAGCTGTGCCCGTCTCAGGGCCTGGAGGACGGGCAAAACGG
TTCTCCACAGTCGAACCTCTAGGCCACCTGTGCCCGTACCTCACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCTCTCTGCATCCTCTCCCTTCCCTTCTCCTCATCTTCTCCCTTCCCTTCCCTTCCCT
CACCCACCCGCCCCCTGCACCCCAAGCCCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG
ACGAGGCCTACTCTCCACCGCTGTCTCGGAGCAAAAGTACGACCTTTTGAGCCACCGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCGACGCGCACCCACACAGCCGACTCCCGCCCTGGAA
CGCCGCCCCAGGTGGACTCCACCCGGGCTGATGGAGCCATGCGCCGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTGGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGGAGCCGCCCTCCCGCCGCCCTGTGC
CGCCCGGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGGAGGAGGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCCGGCGGGCGGGCCGCCCGGCTACACCGGCCGCTCGGCCACCCCAAGGCCAGCCCTTCTCTAGC
CTCCCGCTCCGCGGGCCCCGAGGGGGACGACTTCTTGTCCCTGCATGCGGAGTCGGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCCGCCCGCCGCTCGCGCTGGGGCGGGCTGGACCTGCGCCGCA
AGATCCTGACCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGCGCCCGCGCCCGCCCGGGCGCCG
CTGCTGGTCCGCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCGGGACCCAGCGCCGCGCCCGCCCGGCTCGCCCTGGGACTCCAAGAAGCACCGCTCCGGGACC
GCAACCCGGCTCCACGCTCGTGTCCGCGCGCGGGGAGCCGAGGTGCGGGTCCCGGAGAAAGCGGACGGCGGC
GCGCTCGCGCAGACCGACCGCGCGCGGGGAGCCGAGGTGCGGGTCCCGGAGAAAGCGGACGGCGGC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCGTCTCTCGAGGCGGAGCGGCACCGCGGGAACACC
GGGACGGTGGCGGAGCAAGAAGAAGAAGAGCGGTGCGGGTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCCGGCGCCCGCCCGCCGCTCTGGCTCCACCTCGTGTGGTGACCGGACAGCCGCGCGGGGGG
CCGTGCCACCTCCATCCAGGACCTCACGGACACGACCTTTCGCCATCAAGCGGACCATCACGGTGGGCCGGC
TTGACAAGTCCGACCCCGAGGACCTTCTCTGCTCCGGCTCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCGCTCGGGGCGGCTCTCTCT
CCTCTCTTCCCGGAGAAGGGGTCTCGTCGGAAGGCGCTGGACGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTCAACAAGAAGGCCCGGCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCCGCCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTCACTCTCGTCTCTCTGTCTTCCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTACGAGCACCACCCCGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTACGCCGTGACCGCGAGAGTCGCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGACGACCAAGCCCAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGCAGTGGAGGTGGCAGCGGG
GCAGTGGTGGCCAGGTGTCTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGACGGACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGAGGAGCGGGCAGCCAAGGTTCTTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCCTGCCCTACTCCGACTCGCAGACCGTGGACAGAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG
AGGCCACTGAGGAGGTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCTGCTACCACACGGCCACAGACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGGTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACAGCGGCGTCTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

3070/5332
FIGURE 2689B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCAGCTCCTGTGCCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTCGACCCCCCCCCACCCCCACGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGCCTGCCCCTGC
CCCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCAAGCCTGTCCCCAGTGGCCCTCCCTTCTGTTTGTGCCCTCTCCCC
AATTTCAATTAAGATTTTCATGAAACATT

3071/5332
FIGURE 2690

GGCTCCCCCGCAGGCGGTAGCGAAGGCAGCAGCAGCGGTGGCGACATGAGCAGCGGGGCGGCGTCCGGGACAGGG
CGGGGGCGGCCCCGGGGCGGGGACCTGGGCCCCGGGGACCCCCCGCCAGCGAGACACACAAGCTGGTGGTCGTG
GGCGGCGGCGGCGTGGGCAAGAGCGCGCTGACCATCCAGTTCATCCAGTCCTACTTCGTGTCTGACTACGACCCC
ACTATTGAGGACTCCTACACGAAGATCTGCAGTGTGGATGGCATCCCAGCCCGGCTGGACATCCTGGACACCGCG
GGCCAGGAAGAGTTCGGGGCCATGAGAGAGCAGTACATGCGTGCTGGCCACGGCTTCCTGCTGGTGTTCGCCATT
AACGACCGGCAGAGTTTCAACGAGGTGGGCAAGCTCTTCACGCAGATTCTGCGGGTCAAGGACCGCGACGACTTC
CCCGTTGTGTTGGTCGGGAACAAGGCAGATCTGGAGTCACAGCGCCAGGTCCCCCGATCAGAAGCCTCTGCCTTC
GGCGCCTCCCACCACGTGGCCTACTTTGAGGCCTCGGCCAAACTGCGTCTCAACGTGGACGAGGCTTTTGAGCAG
CTGGTGCGGGCTGTCCGAAATACCAGGAACAAGAGCTCCCACCGAGCCCTCCCAGTGCCCCCAGGAAGAAGGGC
GGGGGCTGCCCCCTGCGTCCTCCTGTAGCCCCAGGCAAGAGAGAAGCAACCACCACAAGCTCTCGGGACTAGCTGCC
TTCGCACCTTGCTGTGTGACCTGAGGCCCTCACTGAGCCTCAATTTCTCATCTGGGTCTCCCAGGACACATCAC
ATACCCACCCCTTACTTCTTGGCCTCTTCTGGGCTACTGCCACTGTGTGCCTTCTGCCAACGCCTCCTGTCCCCAC
CTAAGCCTGGTGGGGGTGAGGGGCTCCGGGTCACTGCTGTATATAACTCCCCTCCCCCAGAAAAATAAATGTCAC
TGCCAACGTC

3072/5332
FIGURE 2691A

GTGGTTATGGAGCAGCTGCCGGGGGTGCCACCAGGCCCCCCCCACCCCGTTTCGACCGCCACCCCGCCTCCACCA
CCCATGCCCCCTGCAGCTCGAGGCCCACCTCCGCAGCCATGGCCTGGAGCCCGCGGCCCCAGCCCCCGCCTGCGA
CCCGAGGAGAGCCTGGATCCGCCAGGCGCCATGCAGGAATTGCTCGGGGCTCTGGAGCCGCTGCCCGCGCGCT
GGGGATACTGGCGTAGGCCCACAACTCGGAGGGCAAGGATCCCGCAGGCGCCTACCGCAGCCCCAGCCCGCAA
GGACCAAGGCGCCGCGTTTCGTGCCGCTCACCTCCATCTGCTTCCCTGACTCCTTGCTCCAAGACGAGGAGCGC
AGCTTCTTCCCCACCATGGAGGAGATGTTCCGTGGAGGGGCGCGGACGACTACGGCAAGGCCGGGCCACCTGAG
GACGAGGGGGACCCCAAGGCTGGCGCTGGGCCACCCCGCGCCCTGCTTATGATCCCTATGGGCCCTACTGT
CCTGGCCGGGCTCGGGAGCCGGGCGGAGACACCGGGCTGGGCTGGACCCCAACAAACCCGCTGAATGCCCC
TCCACGGTCAACGCCGAGCCGCTGGGCTGATCCAGAGTGGCCCCCACCAGGCGGCGCCACCACCCCGCTCCG
CCACCGCGCCTCCCGCGCGGCTCCGAACCAAGGGTGGCTCACCTCGCCCATCTTCTGCTCTACCAAGCCA
AAGAAGCTGCTCAAGACATCCTCCTTCCACCTGCTGCGGCGCGCGACCCACCCTTCCAGACCCCCAAGAAGCTG
TACGCCCAGGAGTACGAGTTCGAGGCGGACGAGGACAAGGCCGATGTTCCCGCGACATCCGCCTCAACCCCGG
CGCTTGCTGACTGGTCTCCAGCTGCCGCTCCCGTCCGGCCCTCTCGCCACTGGGGGACATCGACTTCTGCCCA
CCCAACCCAGGACCCGATGGCCCCCGCGCGCTGGCGCAAGCCACGAAGGCGAAACGTGATGGGCCACCCCGG
CCACGGGGGAGGCCCCGATCCGCCCCCTGGAGGTCCCGACCACTGCGGGGCGCGCTCGGCCTCCACGCCACC
GATGGCGCCAAGAAACCCGGGGCGGGCGGAGGCCGGGTGAAAGGCTGAGGAGGAGGGGGCACCCGTTG
GAGCCCTGAAGCCACTTAAGATCAAGCTGTCTGTGCCAAGGCTGGCGAGGGTCTGGGAACCTCATCGGGTAT
GCCATATCAGGCATGACCACAACAGCCTGGACTCGAGCCTGACTCGGGAGAAGATCGAGGCCAAGATTAAGGAG
GTGGAGGAGAAGCAGCCGGAGATGAAGTCGGGTTTCATGGCCTCCTTCTTGACTTCTCAAGTCAGGCAAGCGC
CACCCACCACTCTACCAGGCGGGCTGACGCTCCGCTCAGCCCTCCCAAGAGTGTGCCACCCTCTGTGCCAGCC
CGAGGCCTGCAGCCCCAGCCCCCTGCCACCCCTGCTGTGCCACATCCCCACCTTCCGGAGCCTTTGGGCTTGGG
GGCGCCCTGGAGGCTGCAGAGAGTGAAGGCTTGGGCTTGGCTGCCCTTACCCTGCAAGCGGCTTGATGAGGAG
CTGAAGCGGAACCTCGAGACGCTGCCCTCCTTCTCCTCGGATGAGGAAGACTCTGTGCGCAAGAACCAGACCTG
CAGGAGAGCATCTCCTCCGCCATCTCTGCCCTCGATGACCCACCCCTTGTGCGCCAAAAGACACTTCCACCCCA
GATGGGCCGCCCTTGGCCCCCGGGCTGCAGTTCAGGGCCACCCCTCTTCCGGGGCTCCCCAGTGCCAAACAGC
AATGGACATCCGAGCCCCGCTGCTGGAGGAGAAACCCCAACCACTCCACCTCCTGCCCGACTCCTCAGCCT
CAGCCTCCGCGCACCCCTCCGCGGCCACAGCCAGCCCTGCCCTCGCCACCCCGCTGGTGGCCCCACGCCACG
TCACCACCGCCACCGCGCTGCCGCGGCCACCTCCACCAGCCATGCCCTCGCCTCCACCACCAACCCACAGCC
GCTGCCCCACTGGCTGCTCCTCCTGAGGAGCCCGCGCCCGCTTCCCGAAGACCCGAGCTGCCGGACACCCGG
CCCCTGCATCTGGCCAAAAGCAGGAGACGGCGGAGTGTGTGGGGAGACGGACGAGGAGGCGGCGAGAGTGGC
GGAGAGGGCATCTTCCGGGAACGGGACGAGTTCTGTCATCCGTGCTGAGGACATCCCTTCCCTCAAGCTGGCGTTG
CAGACGGGGCGTGAACCCCCACCCATCTGGCGAGTCCAGAAGGCCCTTCTGCAGAAATTAAGTCCGGAGATCAAG
GACGGCCAGAGGAGTTTGTGCCACCAAGTAATTATTTGGGGTATTTGGGGATGCAAAAATCGGTACCAGCGC
CTCTATGTAAAGTTCTTGAAAATGTCAATAAGAAGGACTACGTGAGGGTCTGTGCTCGGAAACCTGGCATCGG
CCCCCAGTGCCAGTACAGCCTCTGGGCAGGCCAAGAACCCCGTATCTGCTGGGGGTAGCTCTGCACCTCCCCCT
AAGGCCCCAGCACCACCTCCCAAGCCTGAGACCCCTGAAAAGACGACATCTGAGAAGCCCCAGAGCAGACTCCT
GAGACGGCCATGCCTGAGCCCCCTGCCCCCGAGAAGCCCTCCCTCCTGCGGCCTGTTGAGAAGGAAAAGGAGAAG
GAGAAGGTGACACGTGGAGAGCGGCCATTGCGGGGTGAGCGGGCCACCAGCGGACGGCAGACAGGCCAGAGCGG
AGTCTCGCCACGGGACAACCTGCCACATCCCGGCTGCCCAAAGCCCGGCTACCAAGGTGAAGGCTGAACCGCCC
CCTAAGAAGAGGAAGAAATGGCTGAAGGAGGACGGCGCAACGCTACAGCAGGCGGGGGCCACCAGGCAGCTCC
TCGGACTCGGAGTCTCCCTGGAGCCCCAGCGAGGACGAGCGGGCAGTACCTGGGCGTCTGCTCAAACACAGG
GCGATGCGGGAGATGTACCGGAGCTACGTGGAGATGTTGGTGAGCACAGCACTTGACCCAGACATGATCCAGGCC
CTGGAGGACAGCATGACGAGCTGTACCTGCCCCCATGCGGAAGATAGACGGCCTGCTGAATGAGCACAAGAAG
AAAGTCTGAAGCGGCTGTGCTAAGCCAGCCCTGCAGGATGCTCTGCACACGTTCCACAGCTGCAAGTGGAG
CAGAGTGGGGAGGGCTCTCCGGAAGAGGGGGCTGTGCGGCTGCGGCTGCTGGGGAACCTACAACCGCAAGACG
CTCAGCAAGCTCAAGAGGAGCGTGGTCAGAGCCAGGAGTTCAAGGTTGAGCTGGAAAAGTCGGGATACTATACA
CTCTACCATTGCTCCACCACTATAAATACCACACCTTCTGCGCTGCCGGGACCAGACCTGGCCATCGAGGGC
GGCGCCGAGGACCTGGGCCAGGAGGAGGTGGTCCAGCAGTGCATGCGGAACAGCCGTGGCTGGAACAGCTCTTT

3073/5332
FIGURE 2691B

GACTCCTTCAGTGACCTGCTGGCCCAAGCACAGGCCCACAGCCGCTGCGGGTGAACCCCGCCCCAGCTTGTGAGGG
GGGCGCCTCCTCCATGAACCGAGAATTGGGACAGAACCGTGTCTCAGGAGCTAACACCTGGGCTCCATCGCCGG
GGAAAGGGGGTCATGGGTCAGGGTGTGTCTGTGCTGCCCCCTCCAGGGCAGGGTTCAAAGTCCGACTCCCCCCT
CTCCAAGCCCCCTCCACTCCCTCCCCATTCTCCCACTGTTTCGGTGTACAGAGAAATTATTTATATATATGTAT
AAATGTCTATTTAGTAACGGTTTCCCTCTCCCCTTGCCCCGACCCCCCTCCACAGCCACAGCCCCGCCCCCTC
CACCTTGACATAATGTATAGGAAAAGTCTATGTATGGCTGGGGGGGTGGGGTGGCTTCAGAGAGCTGGGGGAC
CCCTTCCCCCAAGTCCCCCTGCAGGCCAAGATCTTGTCTAAAGGCCATTCCCTCCGCAGGGCATTGGCGTCG
GGTGGGAGGGGAAAACGCATCTTGTTAATTATTTTAAATCTTATTTATTGTACATACCTGGGGCAGGGGCTTGGG
GAGGTGGAGGGGGGAGAAGGGTCCCCCTCTCTGCCCCCTCCCACTCCTTTTCTACGGCGATTGTCTGTGTCTGG
CCCCACCCACTGCCCATCCCCATTGTTGTCTGGATGTGGTTCTATTTTTATCGGTCTCCTTTCCCCCTCCTCC
CCGTTCTCGCCCCCGCCCCACCCCTGCTCCCACTACCCTTTGTCTCTTGCTCTTTCTTGGGCTTCTGTACAACT
CAACTTGTATACACTGTGTACACACAACCAGCCAAACGAAAACCAACGGCAAACACTTT

3074/5332
FIGURE 2692

GAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAATGGTGCGAT
CTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTCAGCCTCCCGAGTAGCTGGGATTAC
AGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGGACACAGCG
GCCTCGGGCTATGGGACCCAGAACATTGCACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTTGTCTCTCC
CTGCAGCCTTGCCACGATCCTGTTGTACCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGGAGTACATT
CTGCACCAGAAGAAGGAGATTGCCCCGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCGAGGAGCAG
AAGGAGCTTCAGCGGGCGGCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCGTGAGCCGG
CCCCTCAACCCTTTACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCAAGTGTTGGGT
CCTCCAAGTAAGGACAAGGACAAAGTGCTGCCAGCTTCTGGATCCCGTCGCTGACGCCCGAAGCCAAGGCCACC
AAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTGAGGGAAGCCCCCTGCGCATGTGCGACCTGACGCCC
GTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGGGGCTCATCACC CGCAGCGAGCGCTACGTGTGTGCC
GTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTACCCCTCGAA
TGCGTGGAGAAGCTGATTGCGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCGACATCATC
GTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGCCGGTGATG
CAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGC

3075/5332
FIGURE 2693

AGCGGAGCGAAGCTGGATAACAGGGGACCGATGATGTGGCGACCATCAGTTCTGCTGCTTCTGTTGCTACTGAGG
CACGGGGCCAGGGGAAGCCATCCCCAGACGCAGGCCCTCATGGCCAGGGGAGGGTGCACCAGGCGGGCCCCCTG
AGCGACGCTCCCCATGATGACGCCCACGGGAACCTCCAGTACGACCATGAGGCTTTCCTGGGACGGGAAGTGGCC
AAGGAATTGACCAACTCACCCCAGAGGAAAGCCAGGCCCGTCTGGGGCGGATCGTGGACCGCATGGACCGCGCG
GGGGACGGCGACGGCTGGGTGTGCTGGCCGAGCTTCGCGCGTGGATCGCGCACACGCAGCAGCGGCACATACGG
GACTCGGTGAGCGCGGCCTGGGACACGTACGACACGGACCGCGACGGGCGTGTGGGTTGGGAGGAGCTGCGCAAC
GCCACCTATGGCCACTACGCGCCCGGTGAAGAATTTCATGACGTGGAGGATGCAGAGACCTACAAAAAGATGCTG
GCTCGGGACGAGCGGCGTTTCCGGGTGGCCGACCAGGATGGGGACTCGATGGCCACTCGAGAGGAGCTGACAGCC
TTCCTGCACCCGAGGAGTTCCCTCACATGCGGGACATCGTGATTGCTGAAACCCTGGAGGACCTGGACAGAAAC
AAAGATGGCTATGTCCAGGTGGAGGAGTACATCGCGGATCTGTACTCAGCCGAGCCTGGGGAGGAGGAGCCGGCG
TGGGTGCAGACGGAGAGGCAGCAGTTCCGGGACTTCCGGGATCTGAACAAGGATGGGCACCTGGATGGGAGTGAG
GTGGGCCACTGGGTGCTGCCCCCTGCCAGGACCAGCCCCTGGTGGGAAGCCAACCACCTGCTGCACGAGAGCGAC
ACGGACAAGGATGGGCGGCTGAGCAAAGCGGAATCCTGGGTAATTGGAACATGTTTGTGGGCAGTCAGGCCACC
AACTATGGCGAGGACCTGACCCGGCACCACGATGAGCTGTAGCACCGCGCACCTGCCACAGCCTCAGAGGCCCCG
CACAATGACCGGAGGAGGGGCGCTGTGGTCTGGCCCCCTCCCTGTCCAGGCCCCGAGGAGGCAGATGCAGTCC
CAGGCATCCTCCTGCCCCCTGGGCTCTCAGGGACCCCCTGGGTGGGCTTCTGTCCCTGTACACCCCCAACCCAG
GGAGGGGCTGTATAGTCCCAGAGGATAAGCAATACCTATTTCTGACTGAGTCTCCCAGCCCAGACCCAGGGACC
CTTGGCCCCAAGCTCAGCTCTAAGAACCGCCCCAACCCCTCCAGCTCCAAATCTGAGCCTCCACCACATAGACTG
AACTCCCCCTGGCCCCAGCCCTCTCCTGCCTGGCCTGGCCTGGGACACCTCCTCTCTGCCAGGAGGCAATAAAAG
CCAGCGCCGGG

3076/5332
FIGURE 2694

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAATTCCCTGAGCGGCAG
ACACCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACCAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAAGTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTTCGTCCTCTCAGCATGGGGTCCCGCGGCCCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCCTGGTATTGGGAGAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAAGTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTCATGAATTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCAACAAGGAGCTCACCTTCCTGCTATTCTCCTGCCCGCACCAGCCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCCAGCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCTCCGGAGCTGCAACTTCGGTTCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCCT
AACAGTCAAAAGTGGCGATGAGCACCACTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCCCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCTTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCTGCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGCCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCTTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTTCTGGGCCTAGTTGTCCTCCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCC

3077/5332
FIGURE 2695

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTGAGCTGAGCGTGCCTACCAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCGCTCCC
CACAATGAAATAAAGTTATTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

3078/5332
FIGURE 2696

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCCTTCCCG
AGGCCCTTACCACTTCCGGGCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAAGAAAAAGCGGAT
GGTGGTTCCTGCTGCCCTCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGGCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAG

3079/5332
FIGURE 2697

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGACAGGGCCCCGCGCCCGCAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGACTGGGCGGGCTGTTT
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCCATGGGAGTAATTGGCCTCATCCTGCCACCCACATTCTCCTTCCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCGGCCTCCCCGGCGC
CCCTCCTCCTGGCCAGCTGGCGGGGAGCTGGGCCCTTCCCGGAATCCTGAATGTCCTCAGTGGCCCTGCGT
CCCTGGTGCCCATCCTGGCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCCTGGCGCTGGGGACGGAGTCGCTGCTGCTGTA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGGACGCGCCCTGGTCCGACCGCGGCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCCAGAGCCAGGGTGACAGGTGTTCCAGGCTGGTGATGTGCTTCGGAACGCCCATCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTGGTGGCCT
CCCCCTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGCGAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCCGGCTGTCTGCCTCTCCAAGAACCTGAACATGACACCTTTG
GCCTCGCTGTTCCCTCAACCTGCCCCGTGGGCCTGAAATAGGGCCCAGCCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGCCGTTTCCAGGCTCCTGGGGCCCGAAGCTCCAGGCCCATCCGGGATTCGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGGTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCTTGG
CCTCGAGGCTGGAGAGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGTGCAGGCCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCGAGACGAGTGGCCCTGCTTGCCTTCGTGTCCCTGCTGG
CTCCCGCCCTGGCCTACGGCAACACTGTGGTTCATGGTGGCCAGTGCAGGCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTCCGATCAGCCCAGGGTTCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGCCCTGGGACCAGGAGGCCGAGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTGATGCCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCCTGTGCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTGTAGACAACGCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCAACACACCTGGCTCGAGGCCATTTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTTGTCTTCTCCATCTGGTGGCTCTTGCTCTCTGGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACCTCTCTGGAATAAAATTAAAGTCCTCCT

3080/5332
FIGURE 2698

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACCTGGGGTTTCGGATCCTGGGCAAAGTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTTGACGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCGACCTCCTCTTG
CCGAAGTTGACCTCCCCAAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGCTGCCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTT

3081/5332
FIGURE 2699

CCGGCGGCAGGAGCCGCCACCAATGGAGTTCCGCCAGGAGGAGTTTCGGAAGCTAGCGGGTCGTGCTCTCGGGAAG
CTGCACCGCCTTCTGGAGAAGCGGCAGGAAGGCGCGGAGACGCTGGAGCTGAGTGCGGATGGGCGCCCGGTGACC
ACGCAGACCCGGGACCCGCCGGTGGTGGACTGCACCTGCTTCGGCCTCCCTCGCCGCTACATTATCGCCATCATG
AGTGGTCTGGGCTTCTGCATCAGCTTTGGCATCCGCTGCAACCTGGGCGTGGCCATCGTCTCCATGGTCAATAAC
AGCACGACCCACCGCGGGGGCCACGTGGTGGTGCAGAAAGCCAGTTCAGCTGGGATCCAGAGACTGTCGGCCTC
ATACACGGCTCCTTTTTCTGGGGCTACATTGTCACTCAGATTCCAGGAGGATTTATCTGTCAAAAATTTGCAGCC
AACAGAGTTTTTCGGCTTTGCTATTGTGGCAACATCCACTCTAAACATGCTGATCCCCCTCAGCTGCCC GCGTCCAC
TATGGCTGTGTCATCTTCGTGAGGATCCTGCAGGGGTGGTAGAGGGGTACATACCCCCCTGCCATGGGATC
TGGAGCAATGGGCCCCACCCTTAGAACGGAGTCGCTGGCGACGACAGCCTTTTGTGGTTCCATGCTGGGGCG
GTGGTCGCGATGCCCTCGCCGGGGTCTTTGTGCACTACTCAGGATGGAGCTCTGTTTTCTACGTCTACGGCAGC
TTCGGGATCTTCTGGTACCTGTTCTGGCTGCTCGTCTCTACGAGTCCCCCGCGCTGCACCCAGCATCTCGGAG
GAGGAGCGCAAGTACATCGAGGACGCCATCGGAGAGAGCGCAAACCTCATGAACCCCTCACGAAGTTTAGCACT
CCCTGGCGGCGCTTCTTACGTCTATGCCAGTCTATGCCATCATCGTGCCAACTTCTGCCGAGCTGGACGTTT
TACCTGCTGCTCATCTCCAGCCCGCCTACTTCGAAGAAGTGTTTCGGCTTCGAGATCAGCAAGGTAGGCCTGGTG
TCCGCGCTGCCCCACCTGGTTCATGACCATCATCGTGCCATCGGCGGCCAGATCGCGGACTTCCTGCGGAGCCGC
CGCATCATGTCCACCACCAACGTGCGCAAGTTGATGAAGTGCAGGAGCTTCGGCATGGAAGCCACGCTGCTGTTG
GTGGTTCGGCTACTCGCACTCCAAGGGCGTGGCCATCTCCTTCTGCTCCTAGCCGTGGGCTTCAGCGGCTTCGCC
ATCTCTGGGTTCAAGCTGAACACCTGGACATAGCCCCGCGCTACGCCAGCATCCTCATGGGCATCTCCAACGGC
GTGGGCACACTGTTCGGCATGGTGTGCCCATCATCGTGGGGGCCATGACTAAGCACAAAGACTCGGGAGGAGTGG
CAGTACGTGTTCTAATTGCCTCCCTGGTGCATATGGAGGTGTCATCTTCTACGGGGTCTTTGCTTCTGGAGAG
AAGCAGCCGTGGGCAGAGCCTGAGGAGATGAGCGAGGAGAAGTGTTGGCTTCGTTGGCCATGACCAGCTGGCTGGC
AGTGACGACAGCGAAATGGAGGATGAGGCTGAGCCCCCGGGGCACCCCTGCACCCCGCCCTCCTATGGGGCC
ACACACAGCACATTTAGCCCCCAGGCCCCACCCCTGTCCGGGACTACTAGACCATGTGCCTCCCACTGAATG
GCAGTTTCCAGGACCTCCATTCCACTCATCTCTGGCCTGAGTGACAGTGTCAAGGAACCCCTGCTCCTCTCTGTCC
TGCTCAGGCCTAAGAAGCACTCTCCCTTGTTCCAGTGCTGTCAAATCCTCTTTCTTCCCAATTGCCTCTCAG
GGCTAGTGAAGCTGCAGACTGACAGTTTCAAGGATACCCAAATTCCTTAAAGGTTCCCTCTCCACCCGTTCTGC
CTCAGTGGTTTTCAAATCTCTCCTTTTCAAGGGCTTTATTTGAATGGACAGTTCGACCTCTTACTCTCTTTGTGGTT
TTGAGGCACCCACACCCCCCGCTTTCTTTATCTCCAGGGACTCTCAGGCTAACCTTTGAGATCACTCAGCTCCC
ATCTCCTTTTCAAAAAATTAAGGTCCTCCTCTAGAAGTTTCAAATCTCTCCCACTCTGTTCTGCATCTTCCAG
ATTGGTTTAACCAATTACTCGTCCCCGCCATTCCAGGGATTGATTCTCACCAGCGTTTCTGATGGAAAATGGCGG
TTTCAAGTCCCCGATTCCGTGCCCACTTCACATCTCCCTACCAGCAGATTCTGCGAAAGCACCAAAATTTCTCAA
GACCTCTTCTCCCTAGCTTAGCATAATGTCTGGGGAACA

3020/5332
FIGURE 2642

CAGTATCCCTCCTGACAAAATAACAAAAATCCTGTTAGCCAAATAATCAGCCACATTCATATTTACCGTCAAAG
TTTTTATCCTCATTTTACAGCAGTGGAGAGCGATTGCCCCGGGTCCCACGTTAGGAAGAGAGAGAACTGGGATTT
GCACCCAGGCAATCTGGGGACAGAGCTGTGATCACAACTCCATGAGTCAGGGCCGAGCCAGCCCCTTCACCACCA
GCCGGCCCGCCCCGGGAAGGGAAGTTTGTGGCGGAGGAGGTTTCGTACGGGAGGAGGGGGAGGCGCCACGCATC
TGGGGCTGACTCGCTCTTTTCGCAAAACGTCTGGGAGGAGTCCCTGGGGCCACAAAACCTGCCTCCTTCCTGAGGCC
AGAAGGAGAGAAGACGTGCAGGGACCCCGCGCACAGGAGCTGCCCTCGCGACATGGGTACCCCGCCGCTGCTGCC
GCTGCTGCTGCTGCTCCACACCTGCGTCCCAGCCTCTTGGGGCTGCGGTGCATGCAGTGTAAGACCAACGGGGA
TTGCCGTGTGAAGAGTGCGCCCTGGGACAGGACCTCTGCAGGACCACGATCGTGCCTTGTGGGAAGAAGGAGA
AGAGCTGGAGCTGGTGGAGAAAAGCTGTACCCACTCAGAGAAGACCAACAGGACCCTGAGCTATCGGACTGGCTT
GAAGATCACCAGCCTTACCGAGGTTGTGTGTGGGTTAGACTTGTGCAACCAGGGCAACTCTGGCCGGGCTGTCAC
CTATTCCCGAAGCCGTTACCTCGAATGCATTTCTGTGGCTCATCAGACATGAGCTGTGAGAGGGGCCGGCACCA
GAGCCTGCAGTGCCGCAGCCCTGAAGAACAGTGCCTGGATGTGGTGACCCACTGGATCCAGGAAGGTGAAGAAGG
GCGTCCAAAGGATGACCGCCACCTCCGTGGCTGTGGCTACCTTCCCGGCTGCCCGGGCTCCAATGGTTTCCACAA
CAACGACACCTTCCACTTCTGAAATGCTGCAACACCACCAATGCAACGAGGGCCCAATCCTGGAGCTTGAAAA
TCTGCCGAGAAATGGCCGCCAGTGTACAGCTGCAAGGGGAACAGCACCCATGGATGCTCCTCTGAAGAGACTTT
CCTCATTGACTGCCGAGGCCCCATGAATCAATGTCTGGTAGCCACCGGCACTCACGAACCGAAAAACCAAGCTA
TATGGTAAGAGGCTGTGCAACCGCCTCAATGTGCCAACATGCCACCTGGGTGACGCCTTCAGCATGAACCACAT
TGATGTCTCCTGCTGTACTAAAAGTGGCTGTAACCACCCAGACCTGGATGTCCAGTACCGCAGTGGGGCTGCTCC
TCAGCCTGGCCCTGCCCATCTCAGCCTCACCATCACCTGCTAATGACTGCCAGACTGTGGGGAGGCACTCTCCT
CTGGACCTAAACCTGAAATCCCCCTCTCTGCCCTGGCTGGATCCGGGGGACCCCTTTGCCCTTCCCTCGGCTCCC
AGCCCTACAGACTTGCTGTGTGACCTCAGGCCAGTGTGCCGACCTCTCTGGGCCTCAGTTTCCCAGCTATGAAA
ACAGCTATCTCACAAAGTTGTGTGAAGCAGAAGAGAAAAGCTGGAGGAAGCCGTGGGCCAATGGGAGAGCTCTT
GTTATTATTAATATTGTTGCCGCTGTTGTGTGTTGTTATTAATTAATATTTCATATTATTTATTTATACTTACA
TAAAGATTTTGTACCACTGG

3083/5332
FIGURE 2701

CCCACCTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCAGATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGGAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGAAGACCCG
AACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCCGAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTCCAGACAATGGCAACCATGTCCTCTGCCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTACCTTGTCACTGACTCCCCATCTACTGA
CCTCCCAGGGTACGAGCCCCCCCCAAGCCCTCTCACCCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATT
TTACCAGAGGCACCTGTTCTGTCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATTCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA
TGCCTTCTCTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGTGGCAG
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCTCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGCAGATT
TGTGTACCGCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGCAACAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTCGAAAACCTTACCATCTCCAGGTGGTGACAAACAGAGACACCCAGGAACCT
GCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCCTGGT
CAGGGACTGAAGGGGGACCCCCAAACTGGCTCACCCCCAGAACACCCTCCTCCCAGGGAGGGTCTCCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCCCATTAGAGGGGGCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTTCAGCCCCGACAGGCCACCCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCCTTTACTTTTCCCAGCCACCCCTCCCCCTGAAATTTCTGCCCCCT
CTCTACCACCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCCCTTCTGTGCAGGAGCAGAGCCAG
GTGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCGCTGCACAAGCAGTGTGTTGAACTTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCCTCCCCTCTCAAAGTTTGTGTTGTGTTCTGACAGAGGATAAAGCTATTTTACC

3084/5332
FIGURE 2702

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATTGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCTTGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCTG
GGAATCCTCATCTCCACTCAGCGGGCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCTGC
TCCTGCTACAACTGTGCGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTACCTCTCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTGGCCTAC

3085/5332
FIGURE 2703A

GAGGGAGCGCCGGGGCCCTGGGCTGCAGGAGGTTGCGGCGGCCGCGGCAGCATGGTGGTGCCGGAGAAGGAGCAG
AGCTGGATCCCCAAGATCTTCAAGAAGAAGACCTGCACGACGTTTCATAGTTGACTCCACAGATCCGGGGAGCCTG
GATTGTCACTGGGGGTCTGCACACGGGCATCGGCCGGCATGTTGGTGTGGCTGTACGGGACCATCAGATGCCAG
CACTGGGGGGCACCAAGGTGGTGGCCATGGGTGTGGCCCCCTGGGGTGTGGTCCGGAATAGAGACACCCTCATCAA
CCCCAAGGGCTCGTTCCCTGCGAGGTACCGGTGGCGCGGTGACCCGGAGGACGGGGTCCAGTTTCCCTTGGACTA
CAACTACTCGGCCCTTCTTCTGGTGGACGACGGCACACACGGCTGCCTGGGGGGCGAGAACCCTTCCGCTTGCG
CCTGGAGTCCTACATCTCACAGCAGAAGACGGGCGTGGGAGGGACTGGAATTGACATCCCTGTCTGCTCCTCCT
GATTGATGGTGATGAGAAGATGTTGACGCGAATAGAGAACGCCACCCAGGCTCAGCTCCCATGTCTCCTCGTGGC
TGGCTCAGGGGGAGCTGCGGACTGCCTGGCGGAGACCCTGGAAGACACTCTGGCCCCAGGGAGTGGGGGAGCCAG
GCAAGGCGAAGCCCGAGATCGAATCAGGCGTTTCTTTCCCAAAGGGGACCTTGAGGTCTGCAGGCCAGGTGGA
GAGGATTATGACCCGGAAGGAGCTCCTGACAGTCTATTCTTCTGAGGATGGGTCTGAGGAATTCGAGACCATAGT
TTTGAAGGCCCTTGTGAAGGCCCTGTGGGAGCTCGGAGGCCTCAGCCTACCTGGATGAGCTGCGTTTGGCTGTGGC
TTGGAACCGCGTGGACATTGCCCAGAGTGAACCTTTTCGGGGGACATCCAATGGCGGTCTTCCATCTCGAAGC
TTCCTCATGGACGCCCTGCTGAATGACCGGCCTGAGTTCGTGCGCTTGCTCATTTCCACGGCCTCAGCCTGGG
CCACTTCTGACCCCGATGCGCCTGGCCCAACTCTACAGCGCGGCCCTCCAACCTCGCTCATCCGAACCTTTT
GGACCAGCGCTCCACAGCGCAGGCACCAAAGCCCCAGCCCTAAAAGGGGGAGCTGCGGAGCTCCGGCCCCCTGA
CGTGGGGCATGTGCTGAGGATGCTGCTGGGGAAGATGTGCGCGCCGAGGTACCCCTCCGGGGGCGCTGGGACCC
TCACCCAGGCCAGGGCTTCGGGGAGAGCATGTATCTGCTCTCGGACAAGGCCACCTCGCCGCTCTCGCTGGATGC
TGGCCTCGGGCAGGCCCCCTGGAGCGACCTGCTTCTTTGGGCACTGTTGCTGAACAGGGCACAGATGGCCATGTA
CTTCTGGGAGATGGGTTCGAATGCAGTTTCTCAGCTCTTGGGGCCTGTTGCTGCTCCGGGTGATGGCACGCCT
GGAGCCTGACGCTGAGGAGGCAGCACGGAGGAAAGACCTGGCGTTCAAGTTTGAGGGGATGGGCGTTGACCTCTT
TGGCGAGTGCTATCGCAGCAGTGAGGTGAGGGCTGCCCGCTCTCCTCCGTCGCTGCCGCTCTGGGGGATGC
CACTTGCCCTCCAGCTGGCCATGCAAGCTGACGCCCGTGCCTTCTTTGCCAGGATGGGGTACAGTCTCTGCTGAC
ACAGAAGTGGTGGGAGATATGGCCAGCACTACACCCATCTGGGCCCTGGTTCTCGCCTTCTTTTGGCCCTCCACT
CATCTACACCCGCTCATCACCTTCAGGAAATCAGAAGAGGAGCCACACGGGAGGAGCTAGAGTTTGACATGGA
TAGTGTCTAATATGGGAAGGGCCTGTGCGGACGGCGGACCCAGCCGAGAAGACGCCGCTGGGGTCCCGGCCA
GTCGGGGCGTCCGGGTGCTGCGGGGGCCGCTGCGGGGGCGCCGGTGCCTACGCCGCTGGTTCCACTTCTGGGG
CGCGCCGGTGACCATCTTATGGGCAACGTGGTACGTACCTGCTGTTCTGCTGCTTTTCTCGCGGGTGTGCT
CGTGGATTTCCAGCCGGCGCCGCCCGCTCCCTGGAGCTGCTGCTCTATTTCTGGGCTTTTACGCTGCTGTGCGA
GGAATGCGCCAGGGCCTGAGCGGAGGCGGGGGCAGCCTCGCCAGCGGGGGCCCCGGGCTGGCCATGCCTCACT
GAGCCAGCGCCTGCGCCTCTACCTCGCCGACAGCTGGAACCAAGTGCAGCTAGTGGCTCTCACCTGCTTCTCCT
GGGCGTGGGCTGCCGGCTGACCCCGGTTTGTACCACCTGGGCCGCACTGTCTCTGCATCGACTTCATGGTTTT
CACGGTGGCGCTGCTTACATCTTACGGTCAACAAACAGCTGGGGCCCAAGATCGTCATCGTGAGCAAGATGAT
GAAGGACGTGTTCTTCTTCTTCTTCTTCTTCTCGGCGTGTGGCTGGTAGCCTATGGCGTGGCCACGGAGGGCTCCT
GAGGCCACGGGACAGTGACTTCCCAAGTATCCTGCGCCGCGTCTTCTACCGTCCCTACCTGCAGATCTTCCGGCA
GATTCGCCAGGAGGACATGGAGCTGGCCCTCATGGAGCACAGCAACTGCTCGTCGGAGCCCGGCTTCTGGGCACA
CCCTCCTGGGGCCAGGCGGGCACCTGCGTCTCCAGTATGCCAACTGGCTGGTGGTGTGCTCCTCGTCATCTT
CCTGCTCGTGGCCAACATCCTGCTGGTCAACTTGCTCATTGCCATGTTAGTTACACATTTCGGCAAAGTACAGGG
CAACAGCGATCTCTACTGGAAGGCGCAGCGTTACCGCCTCATCCGGGAATTCCACTCTCGGCCCGCGCTGGCCCC
GCCCTTTATCGTCATCTCCACTTGCGCCTCTGCTCAGGCAATTGTGCAGGCGACCCCGGAGCCCCAGCCGTC
CTCCCCGGCCCTCGAGACATTTCCGGGTTTACCTTTCTAAGGAAGCCGAGCGGAAGCTGCTAACGTGGGAATCGGT
GCATAAGGAGAAGCTTTCTGCTGGCACGCGCTAGGGACAAGCGGGAGAGCGACTCCGAGCGTCTGAAGCGCACGTC
CCAGAAGGTGGACTTGGCACTGAAACAGCTGGGACACATCCGCGAGTACGAACAGCGCCTGAAAGTGTGGAGCG
GGAGGTCCAGCAGTGATAGCCGCGTCTGGGGTGGGTGGCCGAGGCCCTGAGCCGCTCTGCCTTGCTGCCCCAGG
TGGGCCGCCACCCCTGACCTGCCTGGGTCCAAAGACTGAGCCCTGCTGGCGGACTTCAAGGAGAAGCCCCACA
GGGGATTTTGTCTAGAGTAAGGCTCATCTGGGCCTCGGCCCCCGCACCTGGTGGCCTTGTCTTGAGGTGAGC
CCCATGTCCATCTGGGCCACTGTGAGGACCACCTTTGGGAGTGTATCTTACAAACCACAGCATGCCCGGCTCC
TCCAGAACCAGTCCAGCCTGGGAGGATCAAGGCCTGGATCCCGGGCGGTTATCCATCTGGAGGCTGCAGGGTC

3086/5332
FIGURE 2703B

CTTGGGGTAACAGGGACCACAGACCCCTCACCCTCACAGATTCCTCACACTGGGGAAATAAGCCATTTCAGAG
G

3087/5332
FIGURE 2704A

GTGGGATTGTGGGGGGCGCTGGTGGGCACCCCTGGATCTGGCGGGCTGCGGCCTCGCGGGGGGAGGCTGATCGGTGA
CAGGGGCAGGGGGCTATTTTGGGGGTAGAAGGCAGTGAGAGCGTGAGGGGGAGGGGGGTCCCCAGCGCCCAAGCC
GGAGCCAGAGACGCGGAGCCCGCGGAGCGTCCGAGACAGGGCTCCAGGGCTCCGAAGCGACAGAGCCGGGCCCC
GGCCGCTGCCAGGGGGCCCCGCGGCCCCCCCCACTCCACCCACGTCCTCTGCAGCCAGCTCCGCCCCGAGC
CGCCGCGGACCAGGACAGGCCCGCACCGCCGCCATGATGTGCGAGGTGATGCCCACCATCAGCGAGGATGGCCGGC
GGGGCTCGGCGCTGGGCCCCGACGAGGCGGGCGGGGAGCTGGAGCGCTCATGGTCAGATGCTCAGGAGCGCG
AGCGCCTGCTGGAGACGCTGCGCGAGGCACAGGACGGGTGGCTACAGCGCAGCTGCGGCTGCGCGAGCTCGGCC
ACGAGAAGGACTCGCTGCAGCGCCAGCTCAGCATCGCGCTGCCCCAGGAGTTTGAGCTCTGACGAAGGAGCTGA
ACTTATGTGCGGAGCAGCTGCTGGAGAGGGAGGAAGAGATTGCAGAGCTGAAGGCGGAACGGAACAACACGCGGC
TGCTCCTGGAACACCTGGAGTGCTGGTGTCCAGGCACGAGAGGTCACTGCGCATGACCGTGGTGAAGCGCCAGG
CCCAGTCCCCGGGTGGGGTCTCCTCGGAGGTAGAAGTGCTCAAAGCTCTAAAGTCTCTCTTCGAGCACCACAAGG
CCCTGGATGAGAAGGTCCGGGAGCGGCTGCGGATGGCGCTGGAGCGCTGGCAGTGCTCGAGGAGGAGCTGGAAC
TGAGCAATCAGGAGACTCTGAACCTTCGAGAACAGCTGTCTAGGCGGCGGTGAGGGCTGGAAGAGCCGGGAAGG
ATGGGGATGGGCAGACTCTTGCCAATGGCTGGGTCTGGCGGGGATTCCAACCGGCGCACAGCAGAGCTGGAGG
AGGCCCTGGAGCGGCAGCGCGCGAGGTGTGCCAGCTGCGGGAGCGCTGGCGGTGCTGTGCCGTGAGATGAGCC
AGCTGGAGGAGGAGTTGGGCACCGCGCACCGTGAGCTGGGCAAGGCAGAGGAAGCCAACCTCCAAGCTGCAGCGG
ACCTCAAGGAGGCGCTGGCGCAGCGGGAAGATATGGAGGAGCGGATTACAACACTGGAGAAGCGCTACCTGAGCG
CCCAGCGGGAGGCCACGTCCTGTCACGACGCCAACGACAACTGGAGAACGAGTTAGCTAGCAAGGAGTCGTTGT
ATCGGCAGAGTGAAGAGAAGAGCCGTGAGCTGGCCGAGTGGTTGGACGACGCCAAGCAGAAGCTGCAGCAGACGC
TGCAGAAAGCGGAGACCTTGCCCGAGATAGAGGCGCAGCTGGCGCAGCGCTGGCGGGCTCAACAAGGCCGAGG
AACGTCATGGGAATTTTGGAGAGCGGCTTCGGCAGCTGGAGGCCAGCTGGAAGAGAAGAATCAAGAGCTGCAGC
GGGCCCCGCGAGCGGAGAGAAGATGAACGATGACCACAATAAGCGGCTGTCCGAGACGCTGGACAAGCTGCTGAGCG
AGTCCAACGAGCGCTTACAGCTTACCTCAAGGAGCGCATGGGGGCGCTGGAGGAGAAGAACTCCCTGAGCGAGG
AGATAGCCAACATGAAGAAGCTTCAGGATGAGTTGCTGCTAAACAAGGAGCAGCTCTTGCGCGAAATGGAGCGGA
TGCAGATGGAGATCGACGCTGCGGGGGAGGCCACCATCCTCTACTCCAGGTCTCTCCCTGGCAGTGCCCTGG
AGTCCGTTACTCTCAGGCACCCACTTTACCTTCTGGTGCCACCTGGATCCCTATGTGGCTGGCAGTGGTTCGGG
CAGGCAAGAGGGGCCGCTGCTCAGGGGTCAAGGAGGAGCCCTCCAAGGATTGGGAGCGGTCTGCCCCCTGCGGGCT
CCATACCACCCCCATTCCCTGGGGAACCTGGACGGCTCCGATGAGGAGGAGGCAGAGGGGATGTTTGGGGCCGAGC
TGCTGTCCCCCAGTGGGCAGGCTGACGTGCAGACGCTGGCCATCATGCTTCAGGAGCAGCTGGAGGCCATCAACA
AGGAGATCAAGCTGATCCAAGAGGAGAAGGAGACAACAGAACAGAGGGCAGAGGAGCTGGAGAGTCCGGTGTCCA
GCTCTGGCTTGACTCGTTGGGCCGCTACCGCAGCAGCTGCTCCCTGCCCCCTCCCTCACCACCTCTACCCTTG
CCAGCCCCCTCCCTCCCAGCTTGCCCACTCAACACCCCGCTGGCACCCCTAGCCCTGCCCCTGAGGGCACCG
ACAAGGCTAATCATGTCCCTAAGGAGGAAGCTGGAGCTCCACGAGGGGAGGGGCCGCCATCCCAGGAGACACCC
CACCACCCACTCCCCGCTCTGCCGCTCTTGAGAGAATGACCCAGGCCTTGCGACTGCAGGCGGGGTCCCTGGAAG
ATGGGGGACCCCCACGGGGAAGTGAGGGCACCCAGATTCTCTGCACAAAGCCCCCAAGAAGAAGAGCATCAAGT
CATCCATAGGCCGTCTCTTTGGCAAGAAAGAGAAGGGACGAATGGGACCCCCAGGCCGGGACAGCTCTTCTCTGG
CTGGAACACCCCTCAGATGAGACACTGGCCACTGACCTCTGGGGCTAGCCAAGCTGACAGGCCAGGAGACAAGG
ACCGAAGGAACAAGAGGAAGCATGAACTCTGGAGGAGGCTGCCGCCAGGGCCTACCTTTTGTGCTGGGACG
GGCCCACCGTGGTGTCTGGCTGGAGCTGTGGTGGGCGATGCTGCTGGTATGTGGCCGCTGCGGGGCCAATG
TCAAGAGCGGTGCCATCATGGCCAACCTGTGACACGAGATCCAGCGCAGATCGGCATCAGCAACCCGCTGC
ACCGACTCAAGCTACGCTCGCCATCCAGGAGATGGTCTCGCTCACCTCGCCCTCAGCCCCCGCTCTCCCGCA
CTTCCACAGGAAACGTGTGGATGACACACGAGGAGATGGAGTCCCTTACGGCCACGACCAAGCCCCGAGACCAAGG
AGATCAGCTGGGAGCAGATCCTGGCATATGGCGACATGAACCACGAGTGGGTGGGAACGACTGGCTGCCCAGCC
TGGGGCTGCCCCAATACCGCAGCTACTTCAATGGAGTCTGCTGGTGGACGCTCGAATGTTAGATCACCTTAACAAGA
AGGAGCTCCGGGGCCAACCTCAAGATGGTGGACAGCTTTCACAGGGTGAGTCTACATTATGGGATTATGTGCTGA
AACGGCTCAACTATGACCGGAAGGACCTGGAGCGGAGGCGGGAAGAAAGTCAGACCCAGATCCGAGACGTGATGG
TGTGGTCCAATGAGCGGGTCTATGGGTGGGTGTCCGGGTGGGCTGAAGGAATTTGCCACGAACCTCACGGAGA
GCGGGGTACACGGGGCACTGCTCGCCCTGGACGAGACCTTCGACTACTCCGACCTGGCCTTGCTCCTGCAGATCC

3088/5332
FIGURE 2704B

CCACGCAGAATGCACAGGCCCGGCAGCTTCTGGAGAAGGAATTCAGCAACCTTATCTCCTTAGGCACAGACAGGC
GGCTGGACGAGGACAGCGCCAAGTCTTTCAGCCGCTCCCCATCCTGGCGGAAGATGTTCCGGGAGAAGGACCTCC
GAGGCGTAACTCCCGACTCAGCTGAGATGTTGCCCCCAACTTTCGTTTCGGCTGCAGCGGGAGCCCTGGGCTCTC
CGGGGCTCCCTCTCCGCAAGCTGCAGCCAGAAGGCCAGACTTCTGGGAGTTCCCGGGCAGACGGCGTTTCGGTCC
GGACCTATTCTCTGCTAGTGCAGGCCTCCAGGTGACCTCACTCGGACGGAAGAATCTTCCCGAGGCTGGGCTGTTT
CCTCTCCTGCCCCGACTGTGGCCTCGCCGGGGAGAGCGGGCGGGGAGCTCGCGCCGAGGACTGGACCATCTGTA
CAGACCAGCGGGAGTGC GCGCGCCCGCCTCGCACAGGGCCGGGGCCTGGACCAAACCATGAAC TGGACTGAGA
GGGGGAAGAAGCGGGGAGGAAGAAATCCCGCCCCAAACGTCCGCTTTCCTTTTCTTACTTTGTAATTTATTGAT
CAGTTTCTGTTGGGAGACGGGTGTCCTTTACCCGCGGGAAGGGGGCGGGGCTTCCCTCCCGGGCCGCATGCGGGG
AGAGGCTGCTCCCTCCCCTTTTTCCTGCCCAGTCGCGGGGCCCAAGTCTTCCTTCTTCGTCCGAAAGGAGGGGAG
GGGGGACTCGCTGCTACAAGCCTCGCCCCCTGTGCCACTCAGCTCCGCCCCGCCGCTCCGGTCGCCGTCCCCC
GGGTCACTGCGGGCGGGTTCCCTCTCCCTCCCCCGTGTCTCGTGTCCCGGGGCCTCACCGCCCCCGTGCTG
TGGCCGTGTCGTGCCCCGGGGGTAGGGGGCGCAGAATGGCGCTTCCCTTCTCCTCTGGCTCCGGGGTTTGCAT
GGGAGAATCCTCTTTCCACGATGCCGCTGGGCGACGTGGCGTGGGGGCAGGGGGACGGTGGGGGAGCCCTCGCCC
CCGACTCTCGGTGCGCCTCCCCGCCCCAGGCGTCACTCAGTGATCACGGGTAAGAGAACTGTTTC

3089/5332
FIGURE 2705

GATGTCACCTGGAGCGAGTAGCGCGCGGCGTGGAACGCGAGTCGCGACCCCGGCTCCCGGCAGTGGCGCGCACTA
GCCCTCGCGCCGCGACGGGACACGAGGGCTGGGCGGGCAGCGGGATGAGGCTAAAGGTTGGATTTC AAGCGGGGG
CTGCTTCCGGAAGACGCGCTGTGTTTGGAAGGTGGAGTGAGCGCCCGGTGGGCGAGGGCACCTCATTCTGCACC
CCTGCGCCCGCCTCGGGAAGTGCACGCGGCACCCCCACCGCGACTCCACGCAGACAGTAGTGCAGGCTGCAGG
GTTCCCCCGCGGACGAGGCTAATGGTTCGCTCCGCCCCGCCACACAGAGGCCGCCACTGGCTCCGGCTGCGT
TTCAGGACTCTGGAGGAAGGGACTTGGCCTTCGCCCTCAGACGCTCTTAAGGGTAGGCAGCGTTGTCCTCAGTTC
TGCCCCAGCACTCAGACCCAGACTGGGTCCCTGCCTCCGCCCTCCGCCCTCGGACTAGTCTCTTGGAAGCCGGCC
TGTCTCCGCCTTCAGACCTAGGGAGAGGTCTTAACCTCTGTTCTCAGACTCTGGAAGAGGCTTCTCAACGGCTTG
GCCTGACCTCAGCTCCTCGCATTCCCTCCACATCTCAAGACACCAACCCAGGGATGCAGGACAGACACAGACA
CTCAGTGAGGGTCAAATATCTTTAAATAAAGTGCCAGGAACAATAAATACTGTACAGGAAGAGAGTGC

3090/5332
FIGURE 2706

CATGGCTGCGCTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTGTCCCGGGCGGTTGAGCTCCTCGAGCGGCTCCA
GCGCAGCGGGGAGCTGCCGCCGCAGAAGCTGCAGGCCCTCCAGCGAGTTCTGCAGAGCCGCTTCTGCTCCGCTAT
CCGAGAGGTGTATGAGCAGCTTTATGACACGCTGGACATCACCGGCAGCGCCGAGATCCGAGCCCATGCCACAGC
CAAGGCCACAGTGGCTGCCTTCACAGCCAGCGAGGGCCACGCACATCCCAGGGTAGTGGAGCTACCCAAGACGGA
TGAGGGCCTAGGCTTCAACATCATGGGTGGCAAAGAGCAAACTCGCCCATCTACATCTCCCGGGTCATCCCAGG
GGGTGTGGCTGACCGCCATGGAGGCCTCAAGCGTGGGGATCAACTGTTGTTCGGTGAACGGTGTGAGCGTTGAGGG
TGAGCAGCATGAGAAGGCGGTGGAGCTGCTGAAGGCGGGCCAGGGCTCGGTGAAGCTGGTTGTCCGTTACACACC
GCGAGTGCTGGAGGAGATGGAGGCCCGGTTTCGAGAAGATGCGCTCTGCCCGCCGGCGCCAACAGCATCAGAGCTA
CTCGTCCTTGGAGTCTCGAGGTTGAAACCACAGATCTGGACGTTACGTGCACTCTCTTCCTGTACAGTATTTAT
TGTTCCCTGGCACTTTATTTAAAGATATTTGACCCTC

3091/5332
FIGURE 2707

AAGTACCTATTGGATCACCAGCTGTGTGCCGGGCTTCTAGTTGAGCAACACAGAGGCAGCCTCTGCCCTCTGAGC
CTCCTGCATTTCGGTCTCCTCATTGTCTATTGCTGTCTCAGGCAAGGTCAGTTTGGCTGCAAGTATCAGAAATAAA
CTTGAGCTTCTGAAACATAAAGGGCCCTGTTGATGTAGAATCATGGGCATCCTTTGGAGTTTCGGAGGTATGTGA
TGTCCGTGGACCTGAGAACCTGGTAGCTGACGCTGTTAAGAGCTGGGGCAACCAGGCCAGGCGTGGTGGCTCGCC
TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGTTCGAGACCAGCCTGGCCAAGAT
GTTGAAACCGCATCTCTACTAAAAATACAAAAATTAAGTGGGCGTGGTGGCGGGTGCCTGTAAATCCCATCTACTC
GGGAGGCTGAGGCAGAGAATTGCTTAAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATAGAGTCACTGCATTTC
CATCCAGCCTGGGTGCCAGAGCAAGACTCTGTCTCAAAAAAACAACAAAAAACAACAAAAAAGTGGGGCGACCCAC
CTGTGATGTGTGACAGCCACAGCTTGCTTCTGCCTCGTTTGCCTCCATGCAGCTAGGTCGGTCCCATGCCTCTT
TGCAGTGGCCCAGCGCAGCAGGCCACAGGCCACAGCTTTACACTCAGTCTGGATGAGTCTCTTGTTCGGGGTG
GGCACATTTGATTGACTCAGTGTGGGCTGGGGTCTGTGTCTCAGGCATGCTTATTGAGGACTGAATCCTGCA
AAGCTGAGTGACAGTTGTGAGAGAAGATGATGGTCCCTGGGCAGACACCCAGGCAGTAGTAGCCACTTGGGGCTC
CTGTCTGCCTCCAGCCCTGTGTCTGGCTCTGGACTCGCCTGTGCTAGGGAGACCACGCTCTCAGCTGCTGAG
CCTCGGAGCTTACCAGGCATGTTCTTACCTTACTCTGGTCTCTCTGGGGTGGAGTGGGTTCCTATAGCTCTGCTG
TTTCTGTGGGGCGGAAAATGCTAGAATCTCAGTCTTTCCAGAATCTCAGAATCTTCTAGTTCAATTGCCATT
CAAACTTTTGTTGGTGTAGCCAATAACATCTTACTCGGTGCACCCGAGAAATACTGTAACCTAAAGTTTGA
GGAAACAGTTTTTCTATGTAGTAAGTATATAGTTGTATTCTGCTGTTTTGTTTCTTAAGATGTTGGTTGCAACC
CATCAGATTGATGATGGGACTCATTCTGGGTCTAGACCTGAATATAGGAAAGGCTAGTCTAGCTGCCCTGTGCC
TGTGACATGGCAGGTGCCTGGTCCGCTGCCTGCTTCTATAAGAATGTCTCCCTGCAGCCTCTTTCTATACAGAA
CTCAGCCCTGCCTCACGGAAGCTTTTCCAGGCAGTGCGAGATAGAGGAGCGCTTGAGAAGGCAGGTTTGCAGCA
GACGGCAGTGACAGCCAGTTCTGCACCTTCTTTGCTGAGTCACTGTGGGCCAGTGACTTGATCTGAGATTGTTT
CCCCATCAGAACCATGAGGTATCATCTGTGCCTTGGGGCTGTTTATCTATCTATTCACTTGACACACACACATC
CACCTTCTATACCAGCTGCAGCGCCACCTGCTGGTACCGTGAGCAAGAGCTGGGCATGCCACGGTTCGGGTGC
CCTGCAGTCTGGTGGGAGAGGCAGGTAGGGGTGCACTCAGGTAGCAAACCTGAAACTCCAGGGGAAGGAAGCGTT
CTGCAACTGTGAGTACATAGGACTGTGAGGAGAGACTTCCCGAGAAAGGATGTTTCGGGCTAGCGTTAAGGGTGA
GCGTGAGTTCACCAGAGAAGGAAGGGGAGACCAGTCCAGGGCAAGGAGAATGCACAGACACTGGCAGGAAGGTGA
GCGTGGGGACACTGGGAAAGGCCTGGGACACGCAGCCAAGAGCCGCGGCTCAGACGCTAGCAGGGCCCGCTCTTG
CTGCCCTTACCACCAGTTGACGAGGAGTTTGGACCTTAGGCTGGGGGACGCCAGCAAAGGCTTCTAAGCAGATCA
CATTTTTGGGTGGAAGATCATTGGCTTCGGGTTTCTGTGAGGGCGAGGATGATTGGAAGGGAGGGTTTGAGGA
GGCTGTGAAGTGCGCTATGGTTAAGATGATGCGCTTTGGGGCCAGACATGGGTCCAGTAACGGCTGTTGCCTAG
CGAACGCTTGTGTGAGTTAATTAGAGAAGACGTGGCTGTCTTGTGATGGGAGTGCGCGGGATGAACTGCACGGG
GGGACCCGGCCCTGTGAACACTAAGCCAGGGGCTGCCTTCTGCCCTTTGCTCTTGGAGTCGGCTCATTTCTGCT
CCTCCGGGCCCTGTCCCTGCCAGATTACCCCTCTGTCCGCTGTGCCCTGCCCCAGGAGGAGGCTCGGTGGTACC
AGAAGAGGAGGGGCTGATGTGAACATCCGGCATTCAGGCCGCGATGACACCTCCCGCTACGATGAGAGGCCCGGC
CCCTCCCGCTTCCGCACAGGGACCGGGACCGGGACCGTGAGCGGGAGCGCAGAGAGCGGAGCCGGGAGCGAGAC
AAGGAGCGAGAACGGCGACGCTCCCGCTCCCGGGACCGGGAGGCGCTCACGGAGTCGCGACAAGGAGGAGCGG
AGGCGCTCCAGGGAGCGGAGCAAGGACAAGGACCGGGACCGGAAGCGGCGAAGCAGCCGGAGTCGGGAGCGGGCC
CGGCGGGAGCGGGAGCGCAAGGAGGAGCTGCGTGGCGGCGGTGGCGACATGCGGAGCCCTCCGAGCGGGTGAC
GCGCCCCCTGATGATGGGCTCCAGGGGAGCTCGGGCTGACGGCTTACGGTCCAGAGGAAAGGGCCGGGAT
CGTGACCGGGAGCGACGGCGGAGCCACCGGAGCGAGCGGAGCGGCGCGGACCGGGATCGTGACCGTGACCGT
GACC GCGAGCAAAACGGGGGAGCGGGGAGTGAGCGGGCAGGGATGAGGCCGAGGTGGGGGCGGTGGCCAG
GACAACGGGCTGGAGGGTCTGGGCAACGACAGCCGAGACATGTACATGGAGTCTGAGGGCGGCGACGGCTACCTG
GCTCCGGAGAATGGGTATTTGATGGAGGCTGCGCCGGAGTGAAGAGGTGCTCTCTCCATCTGCTGTGTTTGGAC
GCGTTCTGCCCCAGCCCTTGTGTCTATCCCTCCCCAACCTTGGCCACTTGAGTTTGTCTCCAAGGGTAGGT
GTCTCATTGTCTGGCCCTTGGATTAAAAATAAAATTAATTCCTGTT

3092/5332
FIGURE 2708

GCCGCGGGAGCCGAAGAGGGCGCCCCAGGTGGTTGCCCCCTCCCTCTCCTGAGATGTCAGGAAGGAGGGGGCCAC
CTGTGTCTCCACAGGGGCCCCCGAAGCCTGGGGACTCCCAGCCCCAGAGCTCCGAGGCGGAGGAGGTGCTGAC
AGGTGCTCCGAGAGATGCTCCCTCTCCCCCTCATGCTCCCTCCCCATCCTCCTCTTTCTCTCTCCCCAGTGTGC
CAATTGAGTCCCAACCCCCACCCTCAACATTGCCCCCTTTTCTGGCCCCCTGAGTGGGACCTTCTCTCCCCCGAG
TAGTCCTGTCTAGGGGTGCCCCTGCTGGGCCCCCTCTGCTCTTCTGCTGGAGGCTGGGGCCTTTCGGGAGTCAG
CAGGTGCCCCGGCCAACCGCAGCCGGCGTGGGGTGAGCGAACTGCACCAGCGAGTCGTCGGGGTGAGCTGGCTG
TGTGCGATGCAGTCAGTGGCTGGGTGACAGACCGCCGACCGCTGTGGACTTGCGTGGGCGCGAGGTGAGGTGT
TGGGCGAGGTGCCTGCAGCTGGCGGCAGTCCCCTCCGCCAGTACTTCTTTGAAACCCGCTGCAAGGCTGATAACG
CTGAGGAAGGTGGCCCGGGGCAGGTGGAGGGGGCTGCCGGGAGTGGACAGGAGGCACTGGGTATCTGAGTGCA
AGGCCAAGCAGTCCTATGTGCGGGCATTGACCGCTGATGCCCAGGGCCGTGTGGGCTGGCGATGGATTGGAATTG
ACACTGCCTGCGTCTGCACACTCCTCAGCCGGACTGGCCGGGCCTGAGACCCATGCCCAGGAAAATAACAGAGCT
GGATGCTGAGAGACCTCAGGGATGGCCAGCTGATCTAAGGACCCAGTTTGGGAACTCATCAAATAATCACAAA
ATCACAATTCTCTGATTTTGGAGCTCAATCTCTGCAGGATGGGTGAAACCACATGGGGTTTTGGAGGTTGAATAGG
AGTTCTCCTGGAGCAACTTGAGGGTAATAATGATGATGATATAATAA

3093/5332
FIGURE 2709

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGTCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACTGACCCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCCGCTCCTTCACACGCGCCCGGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCACTCACTCTCGCAGCCAGGGCTTCTTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTTGATTGGATGTCATCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

3094/5332
FIGURE 2710

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGCCCCCGCACCCTACCTGGTGCAATCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCCCTTTAAACCGCACTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTCGACCTGGAGAACGCAGTGCTCTTCGAAGTGGCCTGGGAGGTGGCTAACAAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTCTGGAGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTTCGGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGCTCCTGGACGTGGGTGCC
TCAGCTTGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGCCCCGGCGACTG
CCTGTAGCAACCATCTTCACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACTGGAGAAGTTCACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCAGCTCTTCACTACTGTGTCCAGATCACCGCCATCGAGGCACAGCACTTGCTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTCTGCCATGCATGAGTCCAGAACCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCCGCTATGAGTTCTCCAACAAGGGTGCTGACGTCTTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCTTCTTATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAAACCCCTCAAAGGCCAAGCTGTGCGCAACACGCTTTGGGACACGGCCAACACGGTG
AAGGAAAAGTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCAGCATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTGAACGCAGCGGAGTCTTCCCCCTGTGTGCACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTCCACCCGGAGTTCTCTCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACCTTGGAGTCTTCCCTCTCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGACAGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCGGCTGCTTCAATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACCTCCTTCTCTC
TACAGTTTCTGTACAGCAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGAGCGCCTCTCCGACCTTCTG
GACTGGAAATACCTAGGCCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTCTGCC
CTCGCTGTACAGACACTCCAGCCCGCACCAGAGTGGAGCAGAGGAGGATCCCCGGAACGGGCCGTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCAAGGACCGGCGCAACATCCGTGCACCAGAGTGCCCGCGCCG
AGCGTCTGCACCTCCTCCACAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCGAGCGAGCCCCCTCAGCCCCACCAGCTCCCTGGGCGAGGAGCGTAACCTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCCTCTCTGCTCCAGAGAGAGGATGCAGAGGGGTGCTGCTCCTAAACCCCCGCTCCAGATCTGCACTG
GGTGTGGCCCCGAGTGCCCCACCCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTTCTGCTG
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTTCAAGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATACAGAGCAGGCCACGCT
CAGGCCCGGCATGCGGGCCACCAAGTTCTGGAACCAAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTAGAGTTTGAAGGTAAGTGAAGAGCAGATGGTCTCTCATTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTCAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCTAT
CCCCACACTTTGGCCAAAGCAAGAGGTGGTAGAACCACTTGGCTGCTCATTCTTCTGGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCTACTCTTCTCTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCTGCAGAGGACAGAGCTGGCTGTCTTCCCCACCCCTAACCTGGCTTATTTCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAAGTGAAGTCACTGGGTTCTAGAACCCCACTTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCACTTTGGTGAAAGGGAGGGCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

3095/5332
FIGURE 2711

ACCATAAAAGAAGCCGCCCTAGCCACGTCCCCTCGCAGTTCCGGCGGTCCCGCGGGTCTGTCTCTTGCTTCAACAG
TGTTTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACCGCCCTCCGATTTCTCTCCGCTTGCAACCT
CCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAGCACCGTTTTGTGGTTAGCTCCTTCTTGCC
AACCAACCATGAGCTCCCAGATTTCGTCAGAATTATTCCACCGACGTGGAGGCAGCCGTCAACAGCCTGGTCAATT
TGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCGCGATGATGTGGCTCTGGAAGGCG
TGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCCTGAAGATGCAAAACCAGC
GTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTGGGGTAAAACCCCAGACGCCATGA
AAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGGATCTTCATGCCCTGGGTTCTGCCCGCACGG
ACCCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGGAAGTGAAGCTTATCAAGAAGATGGGTGACC
ACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGGGCGAGTATCTCTTCGAAAGGCTCACTCTCA
AGCACGACTTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGC
CTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACCTATCCTAACAAGCCTTGACCAAATGGAATAAAGCTTTTTG
ATGC

3096/5332
FIGURE 2712

ATGGACGGGTCCGGGGAGCAGCCCAGAGGCGGGGGGCCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTT
TTGCTTCAGGGTTTCATCCAGGATCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTG
CCTCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACTGGACAGTAACATGGAG
CTGCAGAGGATGATTGCCGCCGTGGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTT
TCTGACGGCAACTTCAACTGGGGCCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAAC TGGTGCTCAAGGCCCTG
TGCACCAAGGTGCCGGAAGTATCAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGC
TGGATCCAAGACCAGGGTGGTTGGGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCC
CCTGCCCCACCGTCCCTGCCCCCGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTACAGTGGTGCCCT
CTCCCCATCTTCAGATCATCAGATGTGGTCTATAATGCGTTTTCTTACGTGTCTGA

3097/5332
FIGURE 2713

ATAAGTGGGCGTGGTCTAGGGGGGAAGTCACCAAGAACGCACCGGAGGTCTTGCCCGCCCTGGAAAACGCCCTC
TGCGGTGAAGGAGAGACCACACTGCCATGCCTCCCTCTGGGCCCCGAGGAACCTCCTTCTGTTGCCGCTGCTGC
TGCTGCTCCTGCTTCGCGCCGTGCTGGCTGTCCCCCTGGAGCGAGGGGCGCCCAACAAGGAGGAGACCCCTGCGA
CTGAGAGTCCCACACAGGCCTGTACTACCACCGGTACCTCCAGGAGGTATCGATGTACTGGAGACGGATGGGC
ATTTCCGAGAGAAGCTGCAGGCTGCCAATGCGGAGGACATCAAGAGCGGGAAGCTGAGCCGAGAGCTGGACTTTG
TCAGCCACCACGTCCGCACCAAGCTGGATGAGCTCAAGCGACAGGAGGTGTACGGCTGCGGATGCTGCTCAAGG
CCAAGATGGACGCCGAGCAGGATCCCAATGTACAGGTGGATCATCTGAATCTCCTGAAACAGTTTGAACACCTGG
ACCTCAGAACAGCATACATTGAGGCCCGCGACCTGGAGCTGCTGATCCAGACGGCCACCCGGGACCTTGCCC
AGTACGACGCAGCCCATCATGAAGAGTTCAAGCGCTACGAGATGCTTAAGGAACACGAGAGACGGCGTTATCTGG
AGTCACTGGGAGAGGAGCAGAGAAAGGAGGCGGAGAGGAAGCTGGAAGAGCAACAGCGCCGGCACCAGCAGCACC
CTAAAGTCAACGTGCCCTGGCAGCCAAGCCCAGTTGAAGGAGGTGTGGGAGGAGCTGGATGGACTGGACCCCAACA
GGTTTAAACCCCAAGACCTTCTCATACTGCATGATATCAACAGTGATGGTGTCTGGATGAGCAGGAGCTGGAGG
CACTCTTACCAAGGAGCTGGAGAAAGTGTACGACCCAAAGAATGAGGAGGACGACATGCGGGAGATGGAGGAGG
AGCGACTGCGCATGCGGGAGCATGTGATGAAGAATGTGGACACCAACCAGGACCGCCTCGTGACCTGGAGGAGT
TCCTCGCATCCACTCAGAGGAAGGAGTTTGGGGACACCGGGGAGGGCTGGGAGACAGTGGAGATGCACCTGCCT
ACACCGAGGAAGAGCTGAGGCGCTTTGAAGAGGAGCTGGCTGCCCGGGAGGCAGAGCTGAATGCCAAGGCCCAGC
GCCTCAGCCAGGAGACAGAGGCTCTAGGGCGGTCCCAGGGCCGCTGGAGGCCCAGAAGAGAGAGCTGCAGCAGG
CTGTGCTGCACATGGAGCAGCGGAAGCAGCAGCAGCAGCAGCAAGGCCACAAGGCCCGGCTGCCACCCCTG
AGGGGCAGCTCAAGTTCCACCCAGACACAGACGATGTACCTGTCCAGCTCCAGCCGGTGACCAGAAGGAGGTGG
ACACTTCAGAAAAGAACTTCTCGAGCGGCTCCCTGAGGTTGAGGTGCCCCAGCATCTGTGATCCTCCGGGACCC
CAGCCCTCAGGATTCTTGATGCTCCAAGGCGACTGATGGGCGCTGGATGAAGTGGCACAGTCAGCTTCCCTGGGG
GCTGGTGTATGTTGGGCTCCTGGGGCGGGGACGGCCTGGCATTTCACGCATTGCTGCCACCCAGGTCCACC
TGTCTCCACTTTACAGCCTCCAAGTCTGTGGCTCTTCCCTTCTGTCTCCGAGGGGCTTGCTTCTCTCGTGTC
CAGTGAGGTGCTCAGTGATCGGCTTAACCTAGAGAAGCCCGCCCCCTCCCCTTCTCCGTCTGTCCCAAGAGGGTC
TGCTCTGAGCCTGCGTTCTAGGTGGCTCGGCCTCAGCTGCCTGGGTTGTGGCCGCCCTAGCATCCTGTATGCC
ACAGCTACTGGAATCCCCGCTGCTGCTCCGGGCCAAGCTTCTGGTTGATTAATGAGGGCATGGGGTGGTCCCTCA
AGACCTTCCCCTACCTTTTGTGGAACCAGTGATGCCTCAAAGACAGTGTCCTCCACAGCTGGGTGCCAGGGGC
AGGGGATCCTCAGTATAGCCGGTGAACCCTGATACCAGGAGCCTGGGCCTCCCTGAACCCCTGGCTTCCAGCCAT
CTCATCGCCAGCCTCCTCCTGGACCTCTTGGCCCCCAGCCCCTTCCCCACACAGCCCCAGAAGGGTCCCAGAGCT
GACCCCACTCCAGGACCTAGGCCCAGCCCCCTCAGCCTCATCTGGAGCCCCTGAAGACCAGTCCCACCCACCTTTC
TGGCCTCATCTGACACTGCTCCGCATCCTGCTGTGTGTCCTGTTCCATGTTCCGGTTCCATCCAAATACACTTTC
TGGAAC

3098/5332
FIGURE 2714

CCCAGTTGTTGATCTTATGCAAGACGCTGCACGACCCCGCGCCGCTTGTGCGCCACGGCACTTGAGGCAGCCGGA
GATACTCTGAGTTACTCGGAGCCCGACGCCTGAGGGTGAGATGAACGCGCTGGCCTCCCTAACCGTCCGGACCTG
TGATCGCTTCTGGCAGACCGAACCGCGCTCCTGCCCCGGGGTGACGCGCAGCTCCCAGCCGCCAGACACATG

GCCCCAGGCCAAGCACCCCATCAGGCTACCCCGTGGAGGGATGCCCCACCCTTTCTTCTCCTGTCCCCAGTGATG
GGCCTCCTCAGCCGCGCCTGGAGCCGCTGAGGGGCTGGGACCTCTAGAGCCCTGGCTGGTGGAAGCAGTAAAA
GGAGCAGCTCTGGTAGAAGCTGGCCTGGAGGGAGAAGCTAGGACTCCTCTGGCAATCCCCATACCCCTTGGGGC
AGACGCCCTGAAGAGGAGGCTGAAGACAGTGGAGGCCCTGGAGAGGACAGAGAAACACTGGGGCTGAAAACCAGC
AGTTCCCTTCTGAAGCCTGGGGACTTTTGGATGATGATGATGGCATGTATGGTGAGCGAGAGGCCAACCAAGTGTC
CCTAGAGGGCAGGGAAGTCAATTTGCAGATGGCCAGCGTGCTCCCCTGTCTCCCAGCCTTCTGATAAGGACACTG
CAAGGTTCTGATAAGAACCAGGGGAGGAGAAAGCCGAGGAAGAGGGAGTTGCTGAAGAGGAGGGAGTTAAACAAG
TTCTCTTATCCACCATCACACCGGGAGTGTTGTCCAGCCGTGGAGGAGGAGGACGATGAAGAAGCTGTAAAGAAA
GAAGCTCACAGAACCTCTACTTCTGCCTTGTCTCCAGGATCCAAGCCAGCACTTGGGTGTCTTGCCCAGGGGAG
GAAGAGAATCAAGCCACGGAGGATAAAAGAACAGAAAGAAGTAAAGGAGCCAGGAAGACCTCCGTGTCCCCCGA
TCTTCAGGCTCCGACCCAGGTCTGGGAGTATCGTTTCAGGAGAGGCGTCCGAGGAGAAGGAGGAAAAGGCACAC
AAAGAACTGGGAAAGGAGAAGCTGCCCCAGGGCCGCAATCCTCAGCCCCAGCCAGAGGCCCCAGCTCAAGTCC
TGGTGGTGCCAACCCAGTGATGAAGAGGAGGGTGAGGTCAAGGCTTTGGGGGCAGCTGAGAAGGATGGAGAAGCT
GAGTGTCTCCTGCATCCCCCACCAGTGCTTCTTGAAGGCCTGGGTGTATTGGCCAGGAGAGGACACAGAG
GAAGAGGAAGATGAGGAAGAAGATGAGGACAGTGACTCTGGATCAGATGAGGAAGAGGGAGAAGCTGAGGCTTCC
TCTTCCACTCCTGCTACAGGTGTCTTCTTGAAGTCTTGGGTCTATCAGCCAGGAGAGGACACAGAGGAGGAGGAA
GATGAGGACAGTGATACAGGATCAGCCGAGGATGAAAGAGAAGCTGAGACTTCTGCTTCCACACCCCTGCAAGT
GCTTTCTTGAAGGCCTGGGTGTATCGGCCAGGAGAGGACACGGAGGAGGAGGAAGATGAGGATGTGGATAGTGAG
GATAAGGAAGATGATTGAGAAGCAGCCTTGGGAGAAGCTGAGTCAGACCCACATCCCTCCCACCCGACCCAGAGG
GCCCCTTTCAGGGGCTGGGGATATCGACCTGGAAGAGAGACAGAGGAAGAGGAAGCTGCTGAGGACTGGGGAGAA
GCTGAGCCCTGCCCTTCCGAGTGGCCATCTATGTACCTGGAGAGAAGCCACCGCCTCCCTGGGCTCCTCCTAGG
CTGCCCCCTCCGACTGCAAAGGCGGCTCAAGCGCCAGAAACCCCTACTCATGATCCGGACCTGAGACTCCCTTA
AAGGCCAGAAAGGTGCGCTTCTCCGAGAAGGTCACTGTCCATTTTCTGGCTGTCTGGGCAGGGCCGCCCCAGGCC
GCCCCGAGGGCCCCCTGGGAGCAGCTTGCTCGGGATCGCAGCCGCTTCGCACGCCGCATACCCAGGCCAGGAG
GAGCTGAGCCCTGCCTCACCCCTGCTGCCCCGGCCAGAGCCTGGGCACGCCCTCAGGAACCCACCTTTAGCCCCC
ATCCCTGCCCTCACCCAGACCTTGCTTCTCCTCTGTCCCTTCGTCCCCAGTCCAGACCACGCCCTTGAGCCAA
GCTGTGGCCACACCTTCCCGCTCGTCTGCTGCTGCAGCGGCTGCCCTGGACCTCAGTGGGAGGCGTGGCTGAGAC
CAACTGGTTTGCTATAATTTATTAAGTATTTATTTTCTAAGTGTGGTTTATATAAGGAATAAAGCCTTTTG
ATTTGT

3099/5332
FIGURE 2715

AAACTGGGAGAGGGAGGAAGGGAGAAAGTGAGAAGGGAAATCGGAAAGAGAAAAGGGAGGAAACGGCAGAGCCAG
AGAGAAAGAGGAAGAGACTGAGTGTGAAGGAGAGAGGACACAGGGGATGACTGAGAGACAGAGAGAGAGAGAG
AGAGAATGAGACAGAGACTTAAGGAAGAGACCCCTGTGAGTCTGACAATAAAAGATTTGGACAGAAACAGAAAGAT
TGGAGAGAGAGAGAGAGGGGAGAGAAATGAGTGAGAGAGAGACTGGAAGAGACAGAGATCAGAGGGAGACACAGAAA
GTGAGAGTGGGGAGAGAGGTAGTGTAAAAGGAAGAGAGAGAGAGAGACCGTAAGAGACAGGAGACAAAGAGAC
AAAAAGTGTGAGTGAGCAGGTGAGGAGAGAGATTGAGAACTATGAGAGACAGCAGCTAAGAGACAAAGGAGGCGG
GAGACTGCCTAGGTGCCGACGCCACACCGTCTCTTGCCCCCGTCACTGGGACCCAGAGCTGGCCCTTG
ATGGAGGGGAGCCGACCTCGCAGCAGCCTGAGCCTGGCCAGCAGCGCCTCCACCATCTCTCGCTCAGCAGCCTG
AGCCCCAAGAAGCCCACCCGGGCAGTAAACAAGATCCACGCCTTTGGGAAGAGAGGCAATGCGCTCAGGAGGGAT
CCCAACCTTCCCGTGACATCCGAGGCTGGCTTCATAAGCAGGACAGCTCGGGGCTCCGTCTCTGAAACGCCGC
TGGTTCGTCTCTCCGGCCATTGCCTCTTTTATTACAAGGACAGCCGCGAGGAGAGTGTCTTAGGCAGCGTCTCTG
CTCCCCAGCTACAATATTAGACCAGATGGGCCGGGAGCCCCCGAGGGCGGCGCTTCACTTACCCGAGAGCAC
CCGGGCATGAGGACCTACGTTTGGCCGCTGACACCTTAGAAGACCTGCGGGGCTGGCTACGGGCGCTGGGCCGG
GCCTCCCGTGCGGAGGGGGAGCACTATGGGCAACCCAGGTACCTGCACGACCCAGCCCGGGGAGGGCCCCGGC
GGCCCCGGTGGTCCCCCGGAGGTGAGCAGAGGGGAAGAGGGGCGCATCTCAGAATACCCGGAAGTGACTCGACTC
TCCAGAGGTGCTGGTAGACCCAGGCTGCTCACTCCCAGCCCCACAACCGACCTCCACTCTGGACTCCAGATGCGG
AGGGCGAGGAGCCCCGACCTGTTACCCCCCTCTCTCGCCCTCCCTCGCCTCTGAGCCTCCCCCGTCCCGTTCT
GCCCCGTGCGCGGACCCCCCTGCCCCCTCAGGAGACACAGCACCCTCGCCGACCTCACACCCCGTTGAGTCGC
ATTGATGTCGACCTCTCTGGATTGGGGCCCCAACGCCAGACCTCTCCCGACCCCTACTCCCGCCGAGGA
CCTCCCTCTGAGGCTGGGGGAGGAAAGCCCCCAGGAGTCCCCAGCACTGAGTCAGGAGCCCAACAGCAAGCA
CACTCTGGCTCCCCACTTATCTCCAGCTCCCCCGCGCCCCCTGGGACCCGGGCTCCATGGTTTATTGCGG
GGTCTTCCCTGGAGTCACTTTCACCAAGCTTGGAGACAGATACGCTGCTGACCAAGTTGTGCGGGCAGGAC
CGCCTTCTGCGGAGGCTGCAGGAGGAGATAGACCAGAAGCAGGAGGAGAAGGAGCAACTAGAAGCAGCTCTGGAG
TTGACCCGGCAACAGCTGGGCCAAGCCACCAGGGAGGCTGGGGCTCCCGGAGGGCCTGGGGTCCGACGCGCTC
TTGACGAGCCGGCTGGTCAGTGTGAGGGCCACCCTCTGTCACTTGACTCAGGAGCGAGAGAGGGTTTGGGACACG
TACAGTGGCCTGGAGCAGGAGCTGGGCACCTTAAGAGAGACGCTGGAGTACCTGCTGCACCTTGGTTCTCCCCAG
GACAGAGTGTCTGCTCAGCAGCAGCTGTGGATGGTGGAGACACGCTGGCAGGTCTGGGTGGCCCCAGAAACCG
CCCCACACACTGAGCCTGACTCCCCATCTCCCGTGTCTCAGGGCGAGGAGTCTCAGAGAGGGAGAGCCTGCCA
GAGTCTTGGAACTGAGCTCCCCTAGGTCCCCCGAGACTGACTGGGGCGGCGCTCTGAGGGCGACAAAGACCTC
GCCAGCCCTCACTTAGGTCTTGGGTCTCCGAGGGTCTCCCGGGCTTCCAGCCCTGAGGGTCCGCCACCTCCCTTCC
CCACAGCTAGGAACCAAGGCCCGGTGGCCCGGCCCGGATGAGTGCCAGGAGCAGCTGGAGCGGATGCGCAGA
AACCAGGAATGTGGACGGCCCTTCCTCGCCCGACCTCCCCCGGCTTCTCACCTGGGAAGGACACTGTCCCCA
GCCAGACGCCAGCCTGACGTGGAGCAAAGGCCTGTCTGATAGGACACTCGGGAGCCCAGAAATGGCTCAGAAGCTCT
GGGTCTTGGAGTAGTCCAAGGAACACCACCCCTTACTTGCCGACTTCCGAAGGTACCGGGAGCGGGTTCTCAGC
CTCTCCCAAGCCCTGGCTACTGAGGCGTCGAGTGGCACAGAATGATGACAGGTGGAAATTTGGACTCCAGGGA
GACCCTCTTCCCGGTGTGCCGTGCCTCCTTCGGACCCACGCGCCAGGAGACCCCTCCCCCAGATCTCCCCG
GTGGCTAATTCGGGTTCACGGGGTCTCTCGCCGAGGGAGTGGGCGTGGAGGAGGTCCACCCCTGGGGGCC
GCGTGGGATGCCGGGATCGCCCTCCGGTCTGCCACAAGACGAGGGGGCATGGCCTCTGCGAGTCACTCTGCTA
CAATCCAGCTTCTAAATCCGCCCAAAGCGGCAGCCAATCGAGCGCGAGGACGTGGTCTGGAGGTACCGCCGGAG
ATCTGGGACCACTCAGGGCATCAGGGGCGTGGTCTGGTCCCCATTGCGGGCCGGGAGGGGAATGGTTTCTATG
GCCAAAGTTTGGTTTTCTCAACACTGTCTAAATTTGGATTAAACTTTGAACTTTT

3100/5332
FIGURE 2716

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCTGGTGTGTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCACGCGCGCGCTCCTGTTCTGTCATTCTCTGCCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCGACCACCAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCGGGGTGGTGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCCTGGAGGAGGGCCGCGTGCAGGAAGTCTTTGGCTCGGGCACCCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCACATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTG**TGA**AGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCCTCGTCGCGGGTTCAGGTCCGCCCCATTACTCCTTGTCGTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTCTC
TGCTTTTGCTGCAATTTTGAATAAAATGCCAAAGAACACA

3101/5332
FIGURE 2717

AGCCGCCGGCTCGGGAGACCTGCCGCCCTCGGGCCCGCCACGCTGCTGGCGCTGTGCGTGACGATTCCGCCCC
TGAGCTGGAGCTGGGCCACCTGCCACGACTGCTGGGCCGCTGGCCCGGCTCATCAAGGAGGCCGTCTGGGAAAA
GATTAAGGAAATTGGAGACCGTCAGCCAGAAAACCAACCTGAGGGGGTCCCCGAGGTGCCCCTGAATCTGAAGC
TGTGTCTGTGGAGCTGCGGCCACTCATGCTGTGGATGGCCAACACCACGGAGCTGCTTAGCTTTGTGCAGGAGAA
GGTGCTGGAAATGGAGAAGGAGGCTGACCAAGAGGACCCACAGCTCTGCAATGACTTGGAAATTATGTGATGAGGC
CATGGCCCTCCTGGATGAGGTCATCATGTGTACCTTCCAGCAGTCTGTCTACTACCTACCAAGACTCTCTATT
AACGCTGCCTGCTCTCCTGGATAGTAACCCCTTTCACAGCTGGTGCAGAGCTGCCGGGGCCTGGCGCGGAGCTGGG
GGCCATGCCTCCAGGATTGAGACCTACCCTGGGCGTGTTCAGGCAGCCTTGGAGCTGACCAGCCAGTGCAGAGCT
GCACCTTGACCTCGTGTCTCAGACTTTTGGCTACTTGTCTTCTTCTCCAACGCATCCCTTCTCAACTCGCTGAT
GGAACGAGGTCAAGGCCGCGCTTTCTATCAATGGTCCCGAGCTGTTCAAATCCGAACCAACCTGGACCTCGTCTT
GGACTGGCTACAGGGAGCTGGGCTGGGCGACATTGCCACTGAGTTCTTCCGAAACTCTCCATGGCTGTGAACCT
GCTCTGTGTGCCCCGCACTTCCCTGCTCAAGGCTTCATGGAGCAGCCTAAGAACCGACCACCCACCTTGACCCC
CGCCAGCTGCACCATCTGCTCAGCCACTATCAGCTGGGCCCTGGCCGCGGGCCGCGAGCCGCTGGGACCCCTCC
CCCTGCAGAGCGGGAGGCTGTGGACACAGGGGACATCTTCGAAAGCTTCTCCTCGCACCCGCCCTCATCTCCC
CCTGGGGAGCTCGCGCTGCGCTCACTGGTCCAGTGACGGACGATGCCTTGACCGTGAATCCGTAGGCTCCG
CCGCTCCTCTGGGATCTTGAGCAGCAGGAGCTGCCAGCCAATTATCGCCATGGGCCTCCCGTGGCCACGTCTCC
TTGAAGAACCAATACCAAACGAGCGCGCAACCTTGAAATGTACGGGCTTCTACGGACAGGAGCCCGCTGAGCG
CAAAGCTTTCTGGGAGTTGTAGTTCTTATCCCGCTGGAATGTTGGGAGATTGAGTTTTCGGGAAGTAGCGGATG
GGACGGTGGGAGCATGGGCTTAGGATGTGAATGCCAGGGAGCAATAAAGGTATCCGTGGTATCGGC

3102/5332
FIGURE 2718

ATGTCCTCTCTCTCCCCACAGCCGTCAAGGGATTCTGGGCCACCCGCCCTTCCTTCTCCACCTTCTACTTCGTC
TTTGCCATTTTGTGGTGTCCACCATCTTTCAGTCCACCAGCACCTGGCTCTGGTGCCTGCGCCCTGGGCATAC
TCAGCCCGTGTGGTCCTGGCCCCCAGACACCTGCCCCGGGAGGACCTGTTCACTATCAACTCCAAGGGCCGCCTG
GGGAACCAGATGGGCGAGTACGCCACACTGTACGCCCTGGCCAAGATGAACGGGCGGCCCGCCTTCATCCCGGCC
CAGATGCACAGCACCTGGCCCCCATCTTCAGAATCACCTGCCGGTGCTGCACAGCGCCACGGCCAGCAGGATC
CCCTGGCAGAACTACCACCTGAACGACTGGATGGAGGAGGAATACCGCCACATCCCGGGGGAGTACGTCCGCTTC
ACCGGCTACCCCTGCTCCTGGACCTTCTACCACCACCTCCGCCAGGAGATCCTCCAGGAGTTCACCCCTGCACGAC
CACGTGCGGGAGGAGGCCCAGAAGTTCCTGCGGGGCCTGCAGGTGAACGGGAGCCGGCCGGGCACCTTTGTAGGG
GTCCATGTTGCGCCAGGGGACTATGTCCATGTTCATGCCAAAAGTGTGGAAGGGGGTGGTGGCCGACCGGCGATAC
CTACAGCAGGCCCTGGACTGGTTCGAGCTCGCTACAGCTCCCTCATCTTCGTGGTCACCAGTAATGGCATGGCC
TGGTGTGCGGAGAACATTGACACCTCCCACGGTGATGTGGTGTTCGTGGCGATGGCATTGAGGGCTCACCTGCC
AAAGATTTGCTCTACTCACACAGTGTAAACCACACCATCATGACCATTGGGACGTTTCGGGATCTGGCCCGCATAC
CTCACGGGCGGAGACACCATCTACCTGGCCAATTACACCTCCCCGACTCCCTTTCTCAAAATCTTTAAGCCA
GAGGCAGCCTTCTGCCGGAGTGGACAGGGATTGCCGCAGACCTGTCCCCCTTACTCAAGCACTTAA

3103/5332
FIGURE 2719

ATCCCACTCCACCCCTGCCCACTGGCTCAGCCCCGCTTGTGGTGGCCGCCATCGCGATCGGGCAGGGGCTGACC
TTTGGGAGACAATCGCTGTTGGAACTTTGCTCAGCCCCGCTTGGCTGCGTGACCCCAAGCCAGCCCCCTCCT
CCTCCTCTCTGGAACCTTTTGTGAGCTGTGGGTTACCGAGCCTTAAGCCGTCAAGGGATTCTGGGCCACCCGCC
CTTCCTTCTCCACCTTCTACTTCGTCTTTGCCATTTTGTGGTGTCCACCATCTTCACTGCCACCAGCACCTGG
CTCTGGTGCCTGCGCCCTGGGCATACTCAGCCCGTGTGGTCCTGGCCCCCAGACACCTGCCCCGGGAGGACCTGT
TCACTATCAACTCCAAGGGCCGCTGGGGAACCAGATGGGCGAGTACGCCACGCTGTACGCCCTGGCCAAGATGA
ACGGGCGGGCCCGCCTTCATCCCGGCCCAGATGCACAGCACCTTGGCCCCCATCTTCAGAATCACCCCTGCCGGTGC
TGCACAGCGCCACGGCCAGCAGGATCCCCTGGCAGAACTACCACCTGAACGACTGGATGGAGGAGGAGTACCGCC
ACATCCCGGGGCGCTGTGTCCGCCTACGGGCTACCCCTGCTCCTGGACCTTCTACCACCACCTCCGCCAGGAGA
TCCTCCAGGAGTTACCCCTGCACGACCACGTGCGCGAGGAGGCCCAGAAGTTCTGCGGGGCTGCAGGCCAAGT
GGGCAGGGCAGGCGACCTTCGTGGGGGTCCACGTGCGCGGGGGGACTATGTCCGTGTCATGCCGCGGTATGGA
AGGGGGTGCTGGCCGACCGGCTACCTGCAGCGGGCCCTGGACTGGTTCGGGGCTGCTGCCGCTCCCGGTCTTT
GTGGTCACCAGCGATGACATGGCCTGGTGGCGGAGAGCATCAACAGTCCCTTGGGGACGTGGTGTTCGCTGGC
AATGGCCTCCAGGGCTCACCTGCCAAGGACTTCGCACTGCTCACACAGTGCAACCACACCATCATCACCGTGGGC
ACCTTCGGGGTCTGGGCCGCGTACCTCGCGGGCGGGACACTGTCTACCTGGCCAACCTCACCCCTGCCCAACTCC
CCTTTCAACGTGGTCTTTAGGCCGTAAGCGGCCTTCCTGCCAGAGTGGGTGGGCCTTGCGGCTGACCTTGGACAG
GCTGGACAGAACGGCCTCTAGCCAGCCCTGCATGTGCCTGGTCTCATCCTGTGACCCGAGGGGAGTGAGTGGG
GCGTGCGGGGCATGGACTCACGGTCCCTCATGCAGTTTGGATCCAGGCTTATCTACTTCATAGCTGAGTGAGTTT
GGACAACTGACTCAACCTCTGTGCCTTAGTATGTCAACCACAAAATGCACAAACCACAGAACTAAACACCAGTAG
CAGCTGGTGGGAGCTGAGCAAATTCGCTTAGAGCCAGTGCCCTGTGACCGTGTGGGAGGTGTCGGCTGCTCACAT
GTATGCAGCACGTGAGGAACACTGGCATTGCTTTCCAATGGAAACGCAGTTTGGCCCTCTCCTTCCTGGCAGCAC
TGGTAGCACAGAGCCAGATATTTGCACTCACGTCCCAGGACGAAGCCATCCCTGCCCTGAAGGATAGGGGAAC
TCGATTTTCTGGGCAACTAGGAATTTGGCTTTGGAGTTAGTGGGCCTTATCACAAAAGAATGTGAGGGAAGGGC
CGGGTGCGGTGGCAGCCTGTAAATCCCAGCCCTTTGGGAAGCCAAGGCTGGTGGATCACTTGAGGTGAGGAGTTC
GAGACCAGCCTGGCCAACATGGCGAAACCCAGTCTCTACTAAAAATACAAAAAGCCAGGCACGGTGGTGCCTGCC
CCTAATCCCAGCTACTCCGGAGGCTGAAGCAGGAGGATAGCTTGAATTGGGAAGCAGAGGTTGCAGTAAACCGAG
ATCATACCACTGCACTCCAGCCTGGGCCACAGAGCGAGACTCCATCGCAA

3104/5332
FIGURE 2720

CCATCTTTAGGACCGCGGCCCTTTAAGCGGCGCCCTTTTCCCCCATCACCCCCCTCGCCATCAGGCAGCACG
AGCAGAGCCATGTGCTTCCCCCTCCCGCCTGCCTCATTTGGCCCAAACCTGGGTACGGTCCCGCCCCCAGTACCG
CCTCCCATTTGGGCAAATGTAGGTACGTGTCCCGCCTCCACCGAAAGGCAAGGCAACTTCACGCGCTGAGCCCCCT
CACGCGCCCTCCTGGGCCCTGGCGGACCCAGAGGCCCATTTGGCTGTGCGTCTCAAGGTGTGGAGACGATTGGT
CCGTGTTTGCAGCCGGAGGGAGGCACGCGGCTGGGTTGCATGCCCATAGAGGCTGGCGGGGCTGGACGCGCCGGG
CGGGGACCCGGAGGAGGGGCGCGCTGTGGCGTCGGGTGTTTTGGTTTGGATTTTTTTTCCGCGAAAGAAGTT
TGCTTTGGCCACGCCTCAAGGCGGCCGCTCTCTCTGCCCTCCTCCGCCCCCTCCGCGCACACCTCTCGGTGCA
GATTGCAAAGCGCCTTCCGTTGCGAGAGCTGCAGATTTTGCAAGAGCCAGGCTCGCCACCTTGTAGAAGGAGCG
CCTTGAGTCCCCCTCTCACCTCGGTTGCAAAGAGCCGACCGCTTGATCTGGACACCCCTCGCCAGATTGCATG
ATCTCCCGGACCCCTCTTGAGTTGCACGTTTCTGCACCGAGGACCTCAAATCCCGTCGCTCCTAGGATTTGCAG
CGTTCTGGATACTGGAGGTTGCAGGCTACACTCGCCCGCCCTGGGCAGACACTCGTCCAAACCACTGGAGTGT
GCTGGTGACTGGCAGGCCAGCCCTTCGCTCTCCATGAACCCGTGAGCCTGGGGGAGGTGCCAGGCGATCGCGC
GGCCTGTGAGCGACAGGACCCCGGCCCTCTGCTGCTGGGCGGCCCGGCCGGACACCCCTGGCGGGGAGCGC
TGCTTTGGGTTGCGGAGCCTTCTGCAGGGGACCAGCAAGCCCAAAGAGCCGCCAGCTGTCTCTGAAGGAAAAGG
AGCGCAAGGCGGCCCTGCCTGCAGCCACAACCCCTGGGCCAGGCCTGGAGACTGCGGGCCCGCGGATGCCCGG
CTGGGGCAGTGGTGGGCGGAGGTTCCCCGCGGGGGCGCCCGGGGCCGCTGCCCGCCCCGGGTCTGTTGGCGCCAC
TGCTGTGGGAGCGCACGCTGCCGTTCCGCGATGTGGAGTACGTAGACCTGGACGCTTCTCTGCTGGAGCACGGGC
TCCCGCCAGCCCCGCGCCCGCCCGGTGGCCCGTCGCCGAGCCGTCGCCCGCGCGGACGCCCGCACCCCTCCCCAG
GGCCGGGTTCTGTGCGGCTCGGCTTCCCCCGCTCCTCTCTCTGGGCACGCCCCCGCCGGGCTGCCCTCGGGACCG
CCAGCGGCCACCGCGCAGGCTGACCTCTCGGGACACACCCAGCCCTGTGGACCAGACACCGTGGAGGTGTGA
TGACCTTTGAACCCGACCCAGCTGATCTTGCCCTATCAAGCATTCCTGGCCACGAGACCTTTGACCTCGAAGAC
ATCGCTTCTCAGAAGAGGAACCTAAGCCCCAGCCAATCATGAAGAAGGCAAGAAAAATCCAGGTGCCGAGGAGC
AGAAGGATGAGAAATACTGGAGCCGGCGGTACAAGAACAACGAGGCAGCCAAGCGGTCCCGTGACGCCCGCGGC
TCAAGGAGAACCAGATATCGGTGCGGGCGGCCCTTCTGGAGAAGGAGAACGCCCTGCTGCGGCAGGAAGTTGTGG
CCGTGCGCCAGGAGCTGTCCCACTACCGCGCCGCTGTGTCCCGATACCAGGCCACGACGGGGCCCTGTGAGGCT
GCCCCACATCCCCACCTGGCGGAGCTCTCTCTCGCCTTGCTGAGACTTACGCCCTGTTCCCTTCTGCTGCTGG
CCCACGGGCGGCCAGCTGGGTGCCCCAGGGACGTGATAATGCAGATAAATACATTTATATTTTAAAGAAAAAGC
GAGCCTCCCCCTCCCTTGGGGGGCGGGGAGGGTTCTCTGTGTGTGTCCCGGCACGTACAGGGACCTATCCTC
CCACCGCTCCGTTAACACGATCTGAATAAATCTTGAGAACCCAGAGCCAGCTGTTGTGGAAGAAGAGGGCAG
CTCCCTGGCATACTGGCTGCAGCCCGTGGGCAGCTCCGGGCTGTCTCCATAGAGGGCAGGCGCTGCTGGAAGT
CTGGAGTCTGAGTCTCCCGCGGGCTGTGGATGGAGGAAGGGCAGAAGTCTGAGAGGAATGAAGCGACTGCCT
TTATTGCATAGACCTTTTCAATTGCTTTTGTAGATTGGGGACGAGGACGCGCATGAGACGAACAGGGGATATGAA
TTTCCCCGCCCCACCCGCGGGGAGAGGAACATTAGTGAAATCCTAGCGCCGGCCCCGGGGAACCTGCCCTCC
TGGGCTGATTGGCCAGCTAAATGGAGGCACCGGAGTGGATGGGCGGAGGCTGCGGGCCCTGACCGGCCGACTCAC
TGAGGCCTACCCAGCCAGTACATTCCAGGTCTGTGATTGGGCGACGCGTAAATAGACTCCGCCCTCAGCCAT
CCTGGCCGGTAGGAGCAGGTGGCAAGCGTCAGGACTGAGCCCTGCCCGTAA

3043/5332
FIGURE 2664

CCGGGTGGGCTCCAGGCGGCCGGTCCCCGGCCTCCCCCATGGCCACCGCCCCCTCTTATCCCGCGGGGCTCCCT
GGCTCTCCCGGGGCCGGGTCTCCTCCGCCCCCGGGCGGCCTAGAGCTGCAGTCGCCGCCACCGCTACTGCCCCAG
ATCCCGGCCCGGGTTCGGGGTCTCCTTTACATCCAGATCGGGCTGACCCGCGAGTTCGTGCTGTTGCCCGCC
GCCTCCGAGCTGGCTCATGTGAAGCAGCTGGCCTGTTCCATCGTGGACCAGAAGTTCCTGAGTGTGGCTTCTAC
GGCCTTTACGACAAGATCCTGCTTTTCAAACATGACCCACGTCGGCCAACCTCCTGCAGCTGGTGGCTCGTCC
GGAGACATCCAGGAGGGCGACCTGGTGGAGGTGGTGTGTCGGCCTCGGCCACCTTCGAGGACTTCCAGATCCGC
CCGCACGCCCTCACGGTGCACTCCTATCGGGCGCCTGCCTTCTGTGATCACTGCGGGGAGATGCTCTTCGGCCTA
GTGCGCCAGGGCCTCAAGTGCGATGGCTGCGGGCTGAACACCACAAGCGCTGTGCCTTCAGCATCCCCAACAAAC
TGAGTGGGGCCCCGCAACCGGCGCCTGTCTATCCACGTCTCTGGCCAGTGGCCACTCGGTGCGCCTCGGCACCTCC
GAGTCCCTGCCCTGCACGGCTGAAGAGCTGAGCCGTAGCACCACCGAACTCCTGCCTCGCCGTCCCCCGTATCC
TCTTCCTCCTCTTCTGCCTCATCGTATACGGGCCGCCCATTTAGCTGGACAAGATGCTGCTCTCCAAGGTCAAAG
GTGCCGCACACCTTCCCTCATCCACAGCTATACACGGCCCACCGTTTGCCAGGCTTGCAAGAACTCCTCAAGGGC
CTCTTCCGGCAGGGCCTGCAATGCAAAGACTGCAAGTTTAACTGTCAAAACGCTGCGCCACCCGCGTCCCTAAT
GACTGCCTGGGGGAGGGCCTTATCAATGGAGATGTGCCGATGGAGGAGGCCACCGATTCAGCGAGGCTGACAAG
AGCGCCCTCATGGATGAGTCAGAGGACTCCGGTGTCTATCCCTGGCTCCCACTCAGAGAATGCGCTCCACGCCAGT
GAGGAGGAGGACAGGCGAGGAGGCAAGGCCAGAGCTCCCTGGGGTACATCCCCCTAATGAGGGTGGTGCAATCG
GTGCGACACACGACGCGGAAATCCAGCACCACGCTGCGGGAGGGTTGGGTGGTTTATTACAGCAACAAGGACACG
CTGAGAAAAGCGGCACTATTGGCGCCTGGACTGCAAGTGTATCACGCTCTTCCAGAACAACAGACCAACAGATAC
TATAAGGAAATTCCGCTGTGAGAAATCCTCACGGTGGAGTCCGCCAGAACTTCAGCCTTGTCGCCCGGGCACC
AACCACACTGCTTTGAGATCGTCACTGCCAATGCCACCTACTTCTGTTGGCGAGATGCCTGGCGGGACTCCGGGT
GGGCCAAGTGGGCAGGGGGCTGAGGCCGCCCGGGGCTGGGAGACAGCCATCCGCCAGGCCCTGATGCCCGTCACT
CTTCAGGACGCACCCAGCGCCCCAGGCCACGCGCCCCACAGACAAGCTTCTTGAGCATCTCTGTGTCCAACAGT
CAGATCCAAGAGAATGTGGACATTGCCACTGTCTACCAGATCTTCCCTGACGAAGTGTGGGCTCAGGGCAGTTT
GGAGTGGTCTATGGAGGAAAACACCGGAAGACAGGCCGGGACGTGGCAGTTAAGGTCAATTGACAACTGCGCTTC
CCTACCAAGCAGGAGAGCCAGCTCCGGAATGAAGTGGCCATTCTGCAGAGCCTGCGGCATCCCGGGATCGTGAAC
CTGGAGTGCATGTTTCGAGACGCTGAGAAAGTGTTTGTGGTGATGGAGAAGCTGCATGGGGACATGTTGGAGATG
ATCCTGTCCAGTGAGAAGGGCCGGCTGCCTGAGCGCTCACCAAGTTCCTCATCACCCAGATCCTGGTGGCTTTG
AGACACCTTCACTTCAAGAACATTGTCCACTGTGACTTGAAACCAGAAAACGTGTTGCTGGCATCAGCAGACCCA
TTTCTCAGGTGAAGCTGTGTGACTTTGGCTTTGCTCGCATCATCGGCCGAGAAGTCGTTCCGCCGCTCAGTGGTG
GGCAGCGCGGCTACCTGGCACCCGAGGTGCTGCTCAACCAGGGCTACAACCGCTCGCTGGACATGTGGTCAGTG
GGCGTGATCATGTACGTCAGCCTCAGCGGCACCTTCCCTTTCAACGAGGATGAGGACATCAATGACCAGATCCAG
AACGCCGCTTTCATGTACCCGGCCAGCCCCTGGAGCCACATCTCAGCTGGAGCCATTGACCTCATCAACAACCTG
CTGCAGGTGAAGATGCGCAAACGCTACAGCGTGGACAAATCTCTCAGCCACCCCTGGTTACAGGAGTACCAGACG
TGGCTGGACCTCCGAGAGCTGGAGGGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGACGTGCGCTGG
GAGCAGTTTGCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCACGGACAGGGATCTCGGTGGGGCCTGTCCA
CCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTTCTCTGAGGTCTGTGCCCTCGTCCAGCTGC
TGCCCTCCACACGCGTTCTTACAGGATCCAGCAATGAAGTGTCTAGGGAAAGTGGCTTCCGCCCCAACTGG
ATGGGACACGTGGGGAGTGGGGTGGGGGAGCTATTTCAAAGGCCCTCCCTGTTTCCCCAGCAATAAACGGA
CTCATCTCTGCCCCATGGCCTTGATCTCAGCACAGGCACTCTCGAATCATTACTCTGTTGTACCAACATGGAG
TTCATCTGGAAGGAGGACTGCCTGAAAAGAGGAAGGATGG

3106/5332
FIGURE 2722

CTTTCCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTCCGGCAAGGCCCCAGGAACCCGACAGCCACACAAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAAACTAA
CCCTGGATCCTACTCTCTATTATAAAAAGATTTTGTGCTGAC

3107/5332
FIGURE 2723

TGTCAGAACAGTGTGGCAGGGGCTGCTGCAGGGAGCCATTTGGACATCTGCAGGGCCCCGCCGGAGGCCTCGGAT
GGCCACGTAGGGTCTGCCTATCAGGAGAACCCCCAGATGATCACAGTCCCCAGAGACAGCCAGACCCCCGGGGAC
CCAGCCTCTCACAGTCAGTCCTCCACCCGAGTGACCCCATGCGGGCCTCCAGCTGGCGGCGCTGGAAGGAGT
GGAATCCGGTCCCAGGGTGCCCGGGGCCAGCCCCGGCTTTCTATATTCCGAGGGCCAGCGGCTGGCACTGGAGGC
TCTGTTGAGCAAGGGCGCGGAGGCGTTCCAGACCTGCGTGACGCGGAGGAGCTGTGGCCCTTCTCAGTGCGGA
TGAGGTTGAGGGCTTGGCAGCGGCAGCTGAAGACTGGACAGTGGCCAAGCAGGAGCCAGCGGGATGGCAGAGGG
AGCCACCACCACCGATGTGGACGCGGGCAGCCTGAGCTACTGGCCTGGGCAGTCGGAGCAGCCGGCGCCCGTCCT
GCGGCTGGGCTGGCCAGTGGACTCTGCGTGGAAGGCATACCCGGGCGCAGCTGTACACCCAGCCTCCTGGAGA
GGGTGAGCCGCCCCCTCAAGGAGCTGGTGCGGCTGGAGATCCAGGCTGCCACAAGCTGGTGGCCGTGGTCATGGA
CGTCTTCACTGACCCAGACCTGCTTTTGGACTTGGTGGATGCTGCCACGCGCCGCTGGGTACCTGTCTACCTGCT
CCTGGACCGCCAGCAGCTGCCTGCCTTCTGGAAGTGGCCAGCAGCTGGGGGTGAACCCCTGGAACACGGAGAA
CGTGGATGTCCGTGTGCTGCGGGGCTGCAGCTTCCAGAGCCGCTGGCGACGGCAGGTGAGCGGCACCGTGGCGGA
GAAGTTTGTGCTGCTGGACGGCGAGAGGGTCATCTCAGGATCTACAGCTTACGTGGAGTGACGCACGCTGCA
CCGAGGCCCTGGTGACCTGCTGACTGGTGAAATTGTTGACGCCTTCAGCCTTGAGTTCCGGACGCTGTACGCGGC
CTCCTGCCCCGCTCCACCTGCGCCCCCCCCAGAAACCCTCGGTGATAGGTGGCCTGCAGCGGGGCCGAGCCCGCA
CCGCGTGTCCCGCCGCGCTCCGTGGCCCCCGCGTGCCTCCGCGCCTGACGCGCCGCTGGCCCCACGCGCTGGC
CGCCTGCCGCGTCTCCCTGCTACCCCGGGGCCGGCACTCAGTGACATTCTAAGGAGTGTGCAGCGCGCCCGGAC
CCCCAGCGGCCCCCGGCCCCGGCCAGCCGCTCCATGTGGGACCTAAGCCGCTGTCCCAGCTGTCTGGCTCCAG
TGATGGGGACAACGAGCTCAAGAAATCCTGGGGCTCCAAGGACACTCCAGCCAAGGCTCTGATGAGGCAGCGGGG
CACTGGAGGAGGCCCCCTGGGGGGAAGTGGACTCCCGACCTCCGTGGGGCGGTGCCCTGCCCCCTGCCCCCGCCA
CCGCCTCCGCTATCTGTCCCCAGCCCGAAGGCGGTTCCGTGGGGATGCTACATTCAAATTCAGAGCCAGAGG
CGTCAGGCCGTCAGACTGGGCCCCCGGGCAGGACTTGGGGGGCAACCCTGAACAGGAGCCCAAGCCAAATCTGC
TGGCCACCCAAGGAGCAGTGCCGGACAAGTGTGGCTCAGAGCCCTCTGCCTCAATGCCCTGCCCTGGACAAGG
CTTCTGGCCTCGGCGTCTGTCAAGCAGAAGGGATGTTTGTCACTTGTTCTGCAACTTGGGCCGGGAGTGGTGGCT
CATGCCTGTAATCCCTGCACCTTGGGAGGCTAAGGTGGGAGGGTTGCTTAAGGCCAGGAGTTGGAGACCAGCCTG
GGCAACATAGTGAGACCCCATCTCTACAATTAATAAAACAAATTAGTTGGG

3046/5332
FIGURE 2667

CATCCGCTTGAACACCAAGAAGACAAAAATGGTGTCCCCGACTTAGTGGCCCTGCTGGCTGTGAGAGACACCCC
GGACGAGGAGCCGGTGGACAGCGACACTTCGGAGAGCGACTCGCAGGAAAGTGGGGACCAAGAAACAGAGGAGTT
GGATAATCCTGAGTTCTGTGGCCATTGTGGCCTATACCGACCCGTCGGACCCCTGGGGCCCGGGAGGAGATGTTGAA
AATCGCTTCTGTTATCGAGTCGCTGGGCTGGAGCGACGAGAAAGACAAGCGAGACCCCTCCGACAGGTCTTGTC
CGTCATGTCCAAGGACACTAACGGGACCCGCGTGAAGGTGGAAGAGCGGGCCGCGAGGTGGACGCCGTGGTCCT
GCGCAAGGCCGGGGATGACGGGGACCTCCGGGAGTGCATTTCCACCTTGGCGCAGCCGGATCTCCCTCCCCAGGC
GAAGAAGGCTGGGCGTGGCCTCTTCGGGGGCTGGAGCGAGCACCGTGAGGACGAAGGGGGTCTTCTGGAGCTGGT
GGCGCTCCTGGCTGCCCAGGACATGGCGGAGGTGATGAAGGAGGAAAAAGAAAACGCCTGGGAAGGCGGGAAAGTA
CAAATACCCCAAAGGCAAACCTGGGGGAGGTATTGGCGCTCCTGGCCGCCCGGGAGAACATGGGGTCCAACGAGGG
GTCGGAGGAGGCTTCGGACGAACAGTCCGAGGAGGAGTCGGAGGACACCGAGAGCGAGGCGTCGGAGCCGGAGGA
CAGGGCATCCAGGAAGCCCCGGGCCAAGAGGGCGCGCACGGCCCCCAGGGGCCTGACTCCGGCCGGCGCGCCTCC
CACCGCTTCGGGGGCCCGAAAACCCGCGCGGGCGGCCGAGGCCGAGGCCGGGGCGTCACTCCCGAGAAGAAAGC
CGGGAGCCGGGGCTCGGCCCAGGACGACGCCGAGGAAGCAGGAAGAAGAAGGGGAGCGCGGGCGCGGGGGCCCA
TGCCAGGGCAGGCGAGGCCAAGGGCCAGGCGCCCACTGGATCCAAGGCCGCGCGCGGGAAGAAGGCCCGTCGGGG
CCGGAGGCTGCCCCCTAAATGCCGCTAGTGGCCCCCAAGAAGCCGCCAGGCTGCGAGCAGGCCCGCAGGGCA
CCCGCCCGCCTGTGGCCCCCGCCCTCCCTCCCTCTTCTGTCTCCGACAGCGCAATCTCTCGCTTACACAG
GCGCCCGGGCCGCTTTTGGCAGCGTCACGTTCCCTCTCGGGCCCTCGCAGGCCGGGGGCCAGCGATCCCGA
CGGAGGAAGCCCGATGGGAGGAGGAAAGAGAAGTGGGCGCCCGAGGCAGCAGCGAGGGCCGAGATGGGGACGC
GCCAAGTGGACAGGATTGGGGGCCCGGGTTGCCCGCGAGGGGGTGTGTGTGTGGACGCCGGGCACCTGCAGAG
GCGAGCAGGGCTCTTCTGTGGCGCTCTCGGGGCTGCGCCTGGCAGGTGCTGTAGGCCGCTGTGCCCCCTACCCCA
GTCTGACTGGGGCCCTGGGTCTGTGGTGGAGGCTCAGTCACCAGCCGCGCAGCGCTGTAGGGCGCAACTCTCAG
CCAGGGGAGGCCCCAGCTCCAGCCAGGGGAAGAGATGATTCCAGAAAGGAAAGTCTGAGAGATAGAAGGCGGTT
GGGAAGGGGAGGAGGAGGAAAGGGGAGAGGAACGGTGGGAGAAGGGAAAGAGGAGGAGGGGGAGGGGGGAGC
AGAGGGAAGACACATGCCAGCCCTGCCTACTGGGGCGCCCTGATAACAAAGGAACAGCCCCAGGCCAAGGCCA
CCTGCCCCCTGACCACAAGTTGAATTTGTCACTCAGACTGCAGTGTTCACCAACATTCTAATTATTGCAGAGGTG
TTCAATTTGGGGTAATTCACCTAAAATCCAGTTTTGGTTCTTCTGGGCTGAGTGGGCCCTGGCCCTCCCATAGG
CTGTGGCTCCCCCTGGGTGCCCCCTCTCCAGTGGAGCTGACCCACCGCTCAGCGCTGGCCTTGACGCCCTTACTAA
AAGACTTGAAAGTCCCTGGGTTACCCCCCTGAGTGAATTAAAGGCCAGAGGGGCCCGAAGGGCACTGTGAGGGA
CAGAGGCTCACCTGGGCAGTGCAGAAGCCGGCCGCGTGTCCCTCCTTACAGGGGATGAAATGACCTGGGGAGGAA
ACCCAGCCCTGCCCTGGAGGTTCCAGAGTAGGCGGGCCGGTGCTGTGAGGCTTCACAACCTGCTGTCCCAAGCA
CGCTTGAGTTGTATGTGAGTCTGTGCCGTGCCGTGCCGTATGCTTCAGCTCCTGCAACCCCGGCTGAGCTCGATT
TTTACCTAAATATCAGTCTCCACGGGACCCACCTTCATTATGCCTTCTTGTCCCTGGGGCAATGTGTGTGCTT
CCTCGTCCCAATTTCCATTCCTGGCAGTGAGGAGCCCATCGTGCCAGGGGGCCCTGCCCCACTTGTCCCTGGGA
AGGAATAGGAGGGTTTGGGTGTGACCTCACAGTCCAGACCAGACTGTCCAGTCCTATGTGAGGGACACCCAGAT
GTAGAAGCTGACTGAGACCTGCTGCAGGGCGTGGGTGCTCCCTCTGCTTGGAGGCTGTCCCTGGACAGTGACCC
ACCCACTGAGGACCAGGCTGGGTGTACCTTGAGCTGGGCACAGCAGCCTGTGGTGTTCCTGTGGGTGGGGAGGG
CCCCAGGTGTGCTTCTCCCGTAGCAGTCTAGGCTTCTCTCCCTGTGCCCTGTGTACCTGGATCCTCCAGTAA
GTGAAATTCAGCACTGT

3109/5332
FIGURE 2725

GCAGAGGTGGCTGTACCGCGTGGCTCCGCCTCCGCGCGACACTTTTCCGGGGCTTCTCATTGGAGAGCAAGCCTG
TCAAGTGCTTTCTGTTGTTTCGGAGGCGGGGCTGCTGCCCTGCCCTGCACTCCGATTGGCCCCGCGGGCCGTCTA
CCTCTGGCCGGACATACCTACACCGGCTTTTGTACGACTGTTGGCCCTGGAGAACGATCCTTTGGTGGCGAGGG
CGGGGAGGACGAAAGCGCCCACTGTGGATTGGACAGTGTCAAAAAGAGGGGCGGTCCCTACTGAAGGGGCGGTTG
GGCGACGAAGGGAAGAGTCTTTTCAGCGCTGAGGACTGGCGCTGAGGAGGCGGCGGTGGCTCCCGGGGCGTTGA
GCGGGCTCACCCGAGCCCGCGGGCCAACGCGGATCCAGGCCGACTGGCGGGACCGCCCCGATTCCCCGCGGGC
CTTCCTAGCCGCCATGGAGGACGGCGTCTATGAACCCCAAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAA
CATCCGGCGGCGGAAGCAGGAGCTGCTGGTGGAGATTGAGCGCCTGCGGGAGGAGCTCAGTGAAGCCATGAGCGA
GGTGGAGGGGCTGGAGGCCAATGAGGGCAGTAAGACCTTGCAACGGAACCGGAAGATGGCAATGGGCAGGAAGAA
GTTCAACATGGACCCCAAGAAGGGGATCCAGTTCTTGGTGGAGAATGAACTGCTGCAGAACACACCCGAGGAGAT
CGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATCGGGGACTACCTGGGGGAGAGGGAAGAAT
GAACCTGGCAGTGCTCCATGCTTTTGTGGATCTGCATGAGTTACCGACCTCAATCTGGTGCAGGCCCTCAGGCA
GTTTCTATGGAGCTTTTCGCTACCCGGAGAGGCCCAGAAAATTGACCGGATGATGGAGGCCTTCGCCCAGCGATA
CTGCCTGTGCAACCCTGGGGTTTTCCAGTCCACAGACACGTGCTATGTGCTGTCTTCGCCGTCATCATGCTCAA
CACCAGTCTCCACAATCCCAATGTCCGGGACAAGCCGGGCTGGAGCGCTTTGTGGCCATGAACCGGGGCATCAA
CGAGGGCGGGGACCTGCCCTGAGGAGCTGCTCAGGAACCTGTACGACAGCATCCGAAATGAGCCCTTCAAGATTCC
TGAGGATGACGGGAATGACCTGACCCACACCTTCTTCAACCCGGACCGGGAGGGCTGGCTCCTGAAGCTGGGAGG
GGCCCGGGTGAAGACGTGGAAGCGGCGCTGGTTTATCCTCACAGACAACTGCCTCTACTACTTTGAGTACACCAC
GGACAAGGAGCCCCGAGGAATCATCCCCCTGGAGAATCTGAGCATCCGAGAGGTGGACGACCCCGGAAACCGAA
CTGCTTTGAACTTTACATCCCCAACAAAGGGGCGAGTCTATCAAGCCTGCAAACTGAGGCGGACGGCCGAGT
GGTGGAGGGAACCATGGTGTACCGGATCTCGCCCCCACGCAGGAGGAGAAGGACGAGTGGATCAAGTCCAT
CCAGGCGGCTGTGAGTGTGGACCCCTTCTATGAGATGCTGGCAGCGAGAAAGAAGCGGATTTCAGTCAAGAAGAA
GCAGGAGCAGCCCTGACCCCCTGCCCCCACTCCATTATTTATTACGGAGCTGCCCGCCTGGGTGGCCGGACCC
CTGGGCCTTGGGGCTGTGGATCCTGGTTCCCTGTTTGGAAAATTACACCTCTAGCTCCTCACTGTTCTTTGTA
ATTAACACGCTGTTGGTAATCTTATTAATTATTAACCACTTGG

3110/5332
FIGURE 2726

GAGGGTTCTGAAGATGGCGGCGCGCAAGGGTCGGCGGCGCACGTGTGAAACCGGGGAACCCATGGAAGCCGAGTCC
GGCGACACAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCGGCCGGGGCCGCGCTACGCGAAGGGGAGGAG
CTGGTCATGGACGAGGAGGCCATGTGCTCTACCAACGAGGCGAGACTGGCGCCCCCTGTCTCAGCTTTGACATA
GTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCTCTTACACTTTACTTGTGTGCTGGGACCCAGGCTGAG
AGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCCACCCTCAGAGGGC
AGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCATGGTG
CCCCACTATGGTGGCATCAACCGAGTTCGGGTGTCATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGTCAGAG
AAGGGCCAGGTGGAGGTGTTTTCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAGCCTTC
CTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCCCTTGAC
TGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAAGAACATCCACCTCTGGACACCTACGGAC
GGCGGCTCCTGGCACGTGGACAGCGGCCATTCTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGTCACCG
ACTGAGAACACGGTGTGTTGCCCTCTGCTCAGCTGACGCTCCATCCGCATCTGGGACATCCGGGAGCCCCCAGC
AAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGGAGCCC
TTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCCCAGTG
GCCACCTTCAAGCAGCACGTGGCCCCGTGACCTCCGTGAGTGGCAGCCCCAGGACAGCGGGGTCTTTGCAGCC
TCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCTGAGGCGGGCGACGTGGAGGCC
GACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACCAGGGCGAGACCGAGCTGAAGGAGCTGCAC
TGGCACCCCGCAGTGGCCAGGGCTCCTGGTCAGCACGGCGCTGTTCAGGCTTACCATCTTCCGCACCATCAGCGTC
TGAGGCGTCCCACTGGCTCTGATCTTGCTTCTGCTTGGAACTGAAGTCGAATTGGGCTCCCTTGAAGGGGT
CATTCAAGGTCTGTTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTTCTCTA
GAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACCAGAAAGAACTCGGTTTAACCAGGGCTCTGTAAGACCACTCCC
ACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCCTGTCAGCTGTGACCCATTTGACCTGT
GTCCCCAGAACCAGTTTTTTGTTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCGCCAGGCTGGAGTGCAGTAG
CACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTAAAGTGATTCTCTCAGCTCAGTCTCCAGGTAGCTGG
GGCTGGTCTCAAATTCTTGATCTCAAGTGATCTGTCCGCCCCGGCCTCCAGAGTGCTGGGTTGGGATTACAGGC
GTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTTGGCTGCTGGTTCCAGCAGGGGACTCGGGGGATATACAGTG
GCTGCACCAAATTGGAGGTGTGGGTTCTCCAACACAATTTGCTTCTGCCCGTTGTCTTCTGCCAGCTGGGTTT
GGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCTCTCCCTCCTCCCTGACTTTAGAGGCTGGTGTGTGT
CGGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTA

3111/5332
FIGURE 2727

GTCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTTACAGACCAGCA
GCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTCCCCAGCCATGAATCTC
TCCGATTCTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCCGCTCG
TGCGCCGGAATTTAGGGAAGAGCCAGGTCCTGTTGCTGTGGTGTTCAGTCCCGATATCTGGACCTCTTCACC
AACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGTTGATT
TATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTACAGAGTGGAGTTCCTGGTCGTTCCACAGCC
ATTCTGGCGTTTCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGGAGTCA
GTGGCCATCTTGCCGCAGCTGTTTATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACAGCCACTACTTGTTT
GCGCTAGGCGTTTACCGCACGCTCTATCTTCAACTGGATCTGGCGCTACCATTTGAGGGCTTCTTCGACCTC
ATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAGTCCTA
AAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAGGCAGA
GGAAGGCGGCAGAAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCACCTCTGTGCTCCCCAT
CCCGCTCTGCGGGGTTTACGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGTTTGTA
GTTTTTGCCTTTTAGACAAGAAAAAAATCTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTTTCTTC
TACTCTGTGGCCCAATTTTATAAAGTG

3050/5332
FIGURE 2671A

GGGAAATAGAGTCTCTGGCGCTGCCGCGGAGGATCCTGGGTGCAGCCGCTCAGAGAAGCTTCTCGCGCACAGGAAG
TCGCTGCGAGGAGGCGCGTGTGCGGGGAGTTGAATCTCCCGCTCCCTTGAGGCTGGGGTTGCGTCTGTTGACGCG
GCCGACTACAATCCCAGCCCTGCCAGCCGGGAACACGGAGGGGAAGGAGGAGGAGCTTAAAAGAGGCTACTGAA
CCCCAGTTGGCCATGCGTGAGGAATTTGTGACCCTCAAGGATGTCGGCATGGACTTCACCTTGGGAGACTGGGAG
CAGCTCGGGCTGGAACAGGGGGACACGTTCTGGGACACAGCGTTGGACAATTGCCAGGACCTCTTCCTGCTGGAC
CCCCAAGACCCAACTGACCTCCCACCCAGATGGCAGTGAAGATCTGGAGCCTCTGGCAGGAGGAAGCCCAGAA
GCAACAAGCCCTGATGTGACTGAGACCAAGAACTCTCTCTGATGGAGGATTTCTTCGAAGAAGGATTCTCCAG
GAGATTATAGAGATGTTATCCAAGGATGGCTTCTGGAATCCAATTTCCGAGAAGCCTGTATAGAGGACACCTGG
TTAGATAGTTTGTAGGCGATCCAGAAAGTCTTCTGAGGTCTGATATTGCCACCAACGGGGAAAGTCCCACGGAA
TGCAAGAGTCATGAATTAAGAGAGGACTCAGTCCTGTGTCCACCGTTTCCACGGGAGAAGATTCCATGGTGCAT
AATGTTTCTGAAAAGACCCTCACACCAGCTAAGTCTAAGGAATATAGGGGTGAGTTTTTCTCTACTCCGACCAC
AGCCAGCAGGATTCTGTTTCAGGAAGGGGAGAAACCATATCAATGTAGTGAATGTGGGAAAAGCTTCAGTGGGAGT
TACCGTCTTACCCAGCACTGGATCACTCATACTAGGGAGAAACCCACTGTCCATCAAGAGTGTGAGCAAGGTTTT
GACCGGAATGCTTCCCTTTCTGTGTATCCGAAAACCTCACACGGGCTACAAATCTATGTGTGTAATGAATATGGG
ACAACTTTTAGTCAGAGTACATACCTGTGGCATCAGAAAACCTCACACTGGAGAAAAACCATGTAAGAGTCAAGAT
AGTGACCAACCCAGCCAGTCATGACACACAGCCTGGTGAGCATCAGAAAACCTCACACAGATAGTAAGTCTTACAAC
GTAAACGAATGCGGCAAGGCTTTTACCCGGATCTTCCACCTTACTCGGCACCAGAAGATCCACACTCGGAAACGC
TATGAGTGTTTCCAAGTGCCAGGCGACCTTCAACTTGAGAAAACACCTCATCAACATCAGAAAACCTCAGCTGCA
AAAACCTACCTCTGAGTGTGAGGAGTGTGGGAAGATTTTAGGCACAGTTTCGCTGCTCATTGAACACCAAGGCTCTT
CATGCTGGAGAGGAGCCTTATAAGTGTAACGAACGTGGGAAATCCTTCAGGCATAACTCTACCCTAAAGATCCAT
CAGAGGGTTACAGTGGAGAGAAGCCTTACAAATGCAGTGAGTGTGGGAAGGCCTTCCACCGGCACACTCACCTT
AATGAACATCGGCGAATTCATACAGGCTACAGACCCACAAATGTGAGGAATGCGTCAGGAGTTTCAGCCGGCCC
TCACATCTGATGCGACATCAGGCCATTACACCCGAGAAAAGCCCTATAGCTGTGCTGAATGCAAGGAGACTTTC
AGCGATAACAATCGCCTTGTGCAACACCAGAAAATGCACACTGTCAAAAACCCCATATGAATGTCAGGAGTGCAGG
GAACGCTTCATTTGCGGCTCAACCTGAAGTGCCACGAGAGTGTTCACGCCAGAGAAAAACAAGGATTTTTTGTG
AGTGGGAAGATCTTGGATCAGAACCCAGAACAGAAAGAGAAGTGCTTTAAGTGTAACAAATGTGAGAAAACCTTT
AGCTGCAGCAAAATACCTAACTCAGCACGAGAGGATTACACCCAGGGGAGTGAAGCCCTTTGAATGTGACCAGTGT
GGGAAAGCCTTTGGCCAAAGTACTCGGCTCATTACCATCAAAGAATCCACTCTAGAGTGAGGCTGTATAAATGG
GGTGAGCAAGGGAAAGCCATCAGCAGTGCCTCCCTTATCAAACCTCAGTCCTTCCACACAAAGGAGCACCCTTTT
AAATGTAACGAATGCGGAAAGACCTTCAGCCACAGTGACACCTCTCAAAACATCAGTTAATTCACGCTGGAGAG
AATCCCTTTAAATGTAGTAAGTGTGACAGAGTCTTACCCAGAGAACTACCTTGTTTCAGCATGAGCGAATCAT
GCCAGAAAGAAGCCGTGGTGTGTAACGAATGCGGGAAAACGTTCCGTCAGAGCTCATGCCCTTTCTAAGCATCAG
AGAATTCACCTCAGGTGAGAAGCCCTATGTATGTGATTACTGCGGGAAGGCCTTCGGCCTGAGTGCTGAGCTTGT
CGCCACCAGAGAATTCACACTGGAGAAAAGCCTTATGTTTGTGAGGAATGCGGGAAGGCCTTCACCCAGAGCTCA
TGCCCTTTCTATTACCCGAGAGTTACACTGGGGAGAAAGCCCTACAGATGTGGTGAATGTGGGAAAGCCTTTGCC
CAGAAAGCAAATCTAACACAGCACCAGAGAATTACACAGGGGAGAGCCTTACTCTGTAAATGTGTGTGGCAAA
GCTTTTGTCTCAGTGCCCATCTCAACCAGCACCTGAGAGTTACACCCAGGAGACACTTATCAGTGTCAACGT
TGCCAGAAAGCCTTTCCGTGCCACTCGAGCCTCAGCCGCCATCAGCGTGTACACAACAAGCAGCAATACTGCCTG
TAGCCATTGGGTGGCAGCAGAGTCCCAGAATATGAGACCGTTACTCGGATGTTGAAAGTTGGAAACTATCCCAT
GCAAGTTTCTCTCCAAATAAATGCATCTAAAGATTGATTAGAAAGTTTGTGCGCATGTTTTTCATTATAACAATG
AAAACACAAAAGTGGAAGCTGTACAACGTCAGGATTACAGAGTAGGCTCTGGAGCCAGTCTACCTTGAGTTAA
ATCCCACCTCTGCCATCTACTACCTAAGTGACCTTGGGAAGGTCAGAAAAATCTCTCAGGGCCTCGGTGTCCTTA
TCTGTAAATGGGCATCACCTACCTCAGAGGGCTTTTCTGAGGATTAAATAAATAAATGTGAAGCACTTAGAACT
GATGGCCAGCATGAGGGCTCACCAAGTGTAGCCACAAATACACATCAGCTATAGCACAAATATACTTGTGTT
ACAAGAAAGGAATTAGTAATCTGTGTTTACTGTAGTTAATGTTCTTACAATGTATCGCTTTAATTTAAGTTTTT
CTTTTTTACAGTTTTTCTCCAGCACTTACTCTTCTTAAGTGCCCTGGCCTTTTTTGTCCCTTTATCTCTCCTGGT
TTTTTTCTTAAGCCCCAGAAAGCCAAAAGAACATGTAACTCTTACCTCAACTAGCTACAACCTTCCACTCCT
AACCTCCCAAGCTTCTCACTTAAAGAGGACTCCCTATCCACAAACACATGCTCCCTCTTCTATGACCTTCCTC

3113/5332
FIGURE 2729

GAAGGAGGCCAGACAGTGAGGGCAGGAGGGAGAGAAGAGACGCAGAAGGAGAGCGAGCGAGAGAGAAAGGGTTC
TGGATTGGAGGGGAGAGCAAGGGAGGGAGGAAGGCCGTGAGAGAGGCGGGGGCCTCGGGAGGGTGAAAGGAGGGA
GGAGAAGGGCGGGGCACGGAGGCCCGAGCGAGGGACAAGACTCCGACTCCAGCTCTGACTTTTTTCGCGGCTCTC
GGCTTCCACTGCAGCCATGCTCACTCCTCTTGCTGGTGGTCTCAGCCCTTCACATCCTCATTCTTATACTGCTTTT
CGTGGCCACTTTGGACAAGTCCTGGTGGACTCTCCCTGGGAAAGAGTCCCTGAATCTCTGGTACGACTGCACGTG
GAACAACGACACCAAAACATGGGCCTGCAGTAATGTCAGCGAGAATGGCTGGCTGAAGGCGGTGCAGGTCTCAT
GGTGCTCTCCCTCATTCTCTGCTGTCTCTCCTTCATCCTGTTTCATGTTCCAGCTCTACACCATGCGACGAGGAGG
TCTCTTCTATGCCACCGGCCTCTGCCAGCTTTGCACCAGCGTGGCGGTGTTTACTGGCGCCTTGATCTATGCCAT
TCACGCCGAGGAGATCCTGGAGAAGCACCCGCGAGGGGGCAGCTTCGGATACTGCTTCGCCCTGGCCTGGGTGGC
CTTCCCCCTCGCCCTGGTCAGCGGCATCATCTACATCCACCTACGGAAGCGGGAGTGAGCGCCCCGCCTCGCTCG
GCTGCCCCCGCCCTTCCCGCCCCCCTCGCCGCGCGTCTCCAAAAAATAAAACCTTAACCGCGG

10/531147

3114/5332
FIGURE 2730

GTGAGAGGTGGGAGGGCTGGAGAGGTGTGGGAGAGGCCTGAGAGAGGTCCCCCTCCAACCCCTCTTGGAGGAATG
AGGCCAGCGTGGTTCTAGGGTCACCCCTTTCAATTCCCAGTCCCTCGCAGTTTCATTGTCCACCCCTCTCTGGGGC
CTGGCCCGCCTGCTGTCTGAAGGGTCTTATATGTCCATCCCTACAGGAGCCCCACCCGTGTTGGCCAGGATGCCT
TTGGGACGCTTGGCAGGGAGCGCCCGCTCCGAGGAGGGAAGCGAGGCATTTCTGGAGGGAATGGTGGATTGGGAG
CTGAGTAGGCTGCAGCGACAATGCAAAGTGATGGAAGGGGAGAGGCGGGCCTACAGCAAGGAAGTCCACCAGCGC
ATCAACAAGCAACTTGAGGAGATCCGGCGCTTGGAGGAGGTACGGGGCGATCTCCAGGTGCAGATCAGCGCAGCC
CAGAACCAGGTCAAGCGGCTTCGGGACAGTCAGCGGCTGGAGAACATGGACCGCCTGCTGAAGGGCCGGGCCAG
GTGCAGGCGGAGATCAGGAGCTGCAGGAGCAGACAGGGCCCTGGACAAGCAGCCAGGAGTGGGAGACGCGGAT
CTTTACCCACAGTAAGAATGTCAGGTCCCCGGGATTCATCCTGGATCAGAAGGTCAAGATCAGGCGAAGGATCAG
GATCCTAGAAAACCACTTGGACAGGGTCACTGTCACTTTGACAACCACTGGTACGGAATGCGGGCCTGCGGGA
GGAGCTGGATCTGCTGCGGATCGACAGGAACCGCTATCTGAACGTGGACCGCAAGCTGAAGAAGGAGATCCACCA
CCTGCATCACCTGGTCAGCACCTTATCCTCTCCTCCACCTCTGCCTACGCCGTGAGGAGGAGGCGAAGGCCAA
GATGGGCTTGTGCGGGAGCGCGCGGAGAAAAGGAGGGCCAGAGCGAGATGAGGCGCAGGTCTGCAGCGGCA
GATCTTGACCTGGAGCAGCTGCACCACTTCTCAAGCTCAAGAACAACGACCGGCAGCCGGATCCCGATGTCTT
GGAGAAGCGTGAAGAAGCAGGCCGGGGAGGTGGCCGAGGGCGTCTGGAAGACCTCCCAGGAGAGGCTGGTGTCTT
CTACGAGGACGCCCTGAATAAACTGTCCAGCTGATGGGGGAGAGTGACCCTGACCTGTTGGTGCAGAAGTATCT
GGAGATCAGGAGCGCAACTTTGCTGAGTTCAACTTCATCAACGAGCAGAACTTGGAGCTGGAGCATGTGCAGGA
AGAGATCAAGGAGATGCAGGAGGCTTTGGTGAGCGCACGTGCCAGCAAGGATGACCAGCATTTGCTGCAGGAGCA
GCAGCAGAAGGTGTTGCAGCAGCGCATGGACAAGGTGCACTCGGAGGCTGAGCGCCTTGAGGCCCGCTTCCAGGA
TGTGCGGGGACAGCTGGAGAAGCTCAAGGCTGATATCCAGCTCCTTTCACCAAGGCCCATTGCGACAGCAGCAT
GATCGATGACCTCCTTGGGGTCAAGACCAGCATGGGAGACGGGACATGGGCCTCTTCTGAGCCTCATTGAGAA
GCGGCTGGTGGAGCTCCTGACAGTGCAGGCCCTTCTACATGCCAGAGCTTCACCTCCCTGGCCGACGCTGCCCT
CCTAGTGCTGGGCCAGAGCCTGGAGGACCTTCCGAAGAAGATGGCCCCACTTCAGCCCCCTGACACTCTAGAAGA
CCCCCGGGTTTTGAGGCCAGCGATGACTACCCCATGAGCAGGGAGGAGCTGCTGAGCCAAGTGGAGAAGCTGGT
GGAGCTCCAGGAGCAGGCGGAGGCGCAGCGCCAGAAGGACCTGGCCGCCGCCGCGAAGCTGGACGGCACCCCT
GAGCGTGGACCTGGCCAGCACCCAGAGGGCCGGCTCCAGTACCGTCCCTGGTGCCACCAGGCACCCCCATGCCAT
CCCCGGGTCCATTTTGAAGCCACAAGACTAGCAGAGACCGTGGCTCTCTTGGCCACGTCACTTTTGGCGGCCCTCAG
CTCCAGCACTGGGCATTTGCCAGCCACATCACGCACGGTGACCCCAACTGGCCACGTGACCTTCGGCTCCAC
CAGTGCTCGAGTGGGGGCCACGTGACCTTCAGACCCGTGACGCCAGCAGCTACCTGGGCTCCACTGGATACGT
GGGGTCCAGCAGGGGCGGAGAAAACACAGAGGGTGGTGTGGAGAGCGGAGGCACAGCGTCTGATTGAGCGGAGG
CCTCGGGTCCAGCAGAGACCACGTCTCCAGCACCGGCCCTGCCTCCAGCACTGGCCCGGGCTCCTCCACCAGCAA
AGACTCCCGGGGCTAACACGAGGGGCACGCAGCCCCCACCCTGCCCTGGCTCTCTGTGGGGTCTTTTTTTGTGTC
TCTACTTCCCCTGTTTGCCTTGTGGGTCTCTGTCTTTTTCTCCAGTGGCAGGCCTCTGTCTTTTTGCCCTTCA
ACTGTTTTTCATCTGCCCTTCATCACCGCCTACCTGTGTCTCCCGTTCTTTCTCTCTGCTCCTGACACTGCTT
TTCCCTCTGACTCCTGATCTCCTGTTCTCTGGGCTTCTGGTCACTGTCTGTCCGTCTTGTCTCCATATCTGCC
CTTCCCTGTCTGCTGAGCCCTGGCCCCCTGTGGATCCCCACCTCCTGTTTCCGGCTCTCTCTCCTCATCTCCAT
CTCCAGGCTCTCCACGCATCCTGTGTCCCTGTCTGTAGCTCCTTACTCCCCAAGAGCCCCCAGTGCTGACA
GGTGTGGGAAAAGTCAGGGCGAAGACGCCAGGTTACAGCATGGGAAAATGGGACTGTGGAATAAAGTATATGTGT
GG

3115/5332
FIGURE 2731A

GTTCCTCAACTTCTTTTGAATAATGTTTCATAGAGAAGGAGGGCTGTCTGAGATTGAGGGGAAACAAGCTCTCAGG
ACTTCCGGTCGCCATGATGGCTGTGGGCGGTAAACGCGGTTAGTGCAAGCATCTGGGCCATCTTCAATGGTAAAA
AAGATACAGTAAAGACATAAATACCACATTTGACAAATGGAAAAAAGGAGTGTCAGAAAAGAGTAGCAGCAGT
GAGGAAGAGCTGCCGAGACGGGTATACAGGGAGCTACCCGTGTGTTTCTGAGACCCTTTGTGACATCTCACATTTT
TTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCTGAGTGTCAACTATCTGGGGGG
GACATTTCCAGGAGACATTTGCTCAGAAGAGAATCAAATAGTTTCCTCTTATGCTTCTAAAGTCTGTTTTGAGAT
CGAAGAAGATTATAAAAAATCGTCAGTTTCTGGGGCCTGAAGGAAATGTGGATGTTGAGTTGATTGATAAGAGCAC
AAACAGATACAGCGTTTGGTTCCTGCTGGTATCTGTGGTCAGCCACAGGCCTCGGCTTCTGGTAAG
GGATGAGGTCACAGTGACGATTGCGTTTGGTTCCTGGAGTCAGCACCTGGCCCTGGACCTGCAGCACCATGAACA
GTGGCTGGTGGGCGGCCCTTGTGTTGATGTCACTGCAGAGCCAGAGGAGGCTGTGCGCCGAAATCCACCTCCCCCA
CTTCATCTCCCTCCAAGGTGAGGTGGACGTCTCTGGTTTCTCGTTGCCCATTTTAAGAATGAAGGGATGGTCCT
GGAGCATCCAGCCCGGTGGAGCCTTCTATGCTGTCTGGAAAGCCCCAGCTTCTCTGATGGGCATCTGTCT
GCGGATCGCCAGTGGGACTCGCCTCTCCATCCCCATCACTTCCAACACATTGATCTATTATCACCCTACCCCGA
AGATATTAAGTTCACCTTGACCTTGTCCTCCAGCGACGCTTGCTAACAAAGGCGATAGATGATGAGGAAGATCG
CTTCCATGGTGTGCGCTGCAGACTTCGCCCCAATGGAACCCCTGAACCTTGGTTCAGTTATATTGTGTCTAA
TTCTGCTAACCTGAAAGTAATGCCAAGGAGTTGAAATTGTCTACAGGAGCCCTGGAGAAATTCAGCACTTCTC
AAAATTCTATGCTGGGCAGATGAAGGAACCCATTCAACTTGAGATTACTGAAAAAGACATGGGACTTTGGTGTG
GGATACTGAGGTGAAGCCAGTGGATCTCCAGCTTGTAGCTGCATCAGCCCCCTCTCTCTTCTCAGGTGCAGCCTT
TGTGAAGGAGAACCACCGGCAACTCCAAGCCAGGATGGGGGACCTGAAAGGGGTGCTCGATGATCTCCAAGACAA
TGAGGTTCTTACTGAGAATGAGAAGGAGCTGGTGGAGCAGGAAAAGACACGGCAGAGCAAGAATGAGGCCTTGCT
GAGCATGGTGGAGAAGAAAGGGGACCTGGCCCTGGACGTGCTCTTCAGAAGCATTAGTGAAAGGGACCTTACCT
CGTGTCTTATCTTAGACAGCAGAAATTTGTAATGAGTCAGTTAGGTAGTCTGGAAGAGAGAATCCAGCGTTCTC
ATTGGAATGGATAAACAGAAATGTGATCATTGATTTCACTGTTCAAGACAGAAGAAGACTGGGTAACATCTATC
ACACAGGCTTTCAGGACAGACTTGTAACTGGCAGTACCTATTGACTGTATCTCATGCATTTTCTCAAGAAT
GTCTGAAGAAGGTAGTAAATATCTTTTAAATTTTTCACCACTTGCTTGATATATCACTATTTTATCCATTGA
CATGATTCTTGAAGACCCAGGATAAAGGACATCCGGATAGGTGTGTTTATGAAGGATGGGGCCTGGAAGGCAAC
TTTTCTGATTAATGTGAAAAATAATTCCTATGGACACTCCGTTTGAAGTATCACCTTCTCATACTAAAAGCAG
AAAAGCTAACAAAAGCTTCTCAGCTGAGGACACTCAAGGCATACATGATGACAGTCTTTTTTTTTTTTGTATGTT
AGGACTTTAACACTTTATCTATGGCTACTGTTATTAGAACAATGTAAATGTATTTGCTGAAAGAGAGCACAAAAA
TGGGAGAAAATGCAACATGAGCAGAAAAATTTTTCCCACTGGTGTGTAGCCTGCTACAAGGAGTTGTTGGGTTA
AATGTTTCATGGTCAACTCCAAGGAATACTGAGATGAAATGTGGTAAATCACTCCACAGAACCACCAAAAAGAAA
ATGAGGGTAATTCAGCTTATTCTGAGACAGACATTCTGGCAATGTACCATACAAAAAATAAGCCAACCTCTGACA
TTTGATTCTACCATAGACTCTGTCAATTTGTAGCCATTTAGCTGTCTTTTGATTAATGTTTTCTGTCACACA
TATTTCCATCCTTTTATGTTTAACTGTGTTTAAACAAGTTCTAGTAGACACCATCTGGTTGAGTCAGTTTTTTT
TATGGTGTATTTGAACCCATTCTGATAGTCTCTTTTAACTGGAAGATTTCAATTACTTACGTTAATGTAATTAT
TAATATGTTAGGATTTATCCTCAGTCAGCCAGTTTGTTATGTCTTTTCTATTCTACTGTTATCACATTTGTACCA
CTTAAAGTGGAATCTAGGCATTTATCACCATTTAGATCCTATTACCTTTTCTCATCTAGGATATAGTTATCTTC
TACATAATCTTTCTGTATCTTAAACCCATCAATAAATTATTATATATTTTCTACTTTTAACTCACTCAGAAGATT
TAAAAAATCATGAGAAGAGTAATCTGTATGTTTTTCCAGATATTTACCATTTCTGTTGCTCTTCCCTCATTAT
TTTCCAAATTCGTTCTGCAAATTTCCACTTCTCTGATAGACGTTTTTTAGTCTTTTAGAGTGGTTCTGATAG
GTACAGATTCTCTATTTTTTGGCTTCTCTGAGGACATTTTTCTCACCTTCATCTCAGTGATGTTTTTGTCT
TGATGATTTTTTAGTTGACATTGTTTTCTGTTGAGCAGTTTCTTTAGCTTCCGTAATTTCTGATGAGAAATCT
GCAGTCATTCAAATGTTGTTTCCCTGTATGTAGTGTGATTTTTCTGTGAGATTCAAGGTATTTATCTTTAG
TTTTTAGCCATTTCATTATGTTGGGGATGAGTTTCTGTTTATTTCCCTTTGGAATTTGCTCCAATTCATAAAT
TTGCAGTTTTATGTCTTTTACCAACTTAGAGGTTTTTACGCTAATTTCTAAAAATACTTTTTATTAGCCTGATT
TTCATCTTTATAGGAAATAGTTTTAAGTGATGACAAGTTCCAATAGCTTATATGCCAGAGGCCTTCAAATAAG
AATTTTGAAGAATACAGAAAACAACTTTTATATCCTTCTCATGTCTTCTACTGTAAAATTCATATGCTTTGCT
ACTCTAAACCTAGTTTGAATCAACAGTCTTGAGAATAGATGAAAATTTTGATGAATAGTGGAATCTTTTAAAT

3116/5332
FIGURE 2731B

GGAAACCTCTTACATGTGATTTTCCTTGCCATCTAGAAATAAACCATAGTATTTATGTTGAATCAATCAATATTA
TATTTTGTTTTTTCCTCCTCTTCTGAGACTCTTATTGTGGAAATGTTAGACTTTTATGTTTTCTAAATGTCCC
TGATATTCTACTTATTTAGAACATCTTTTCATTTTTTCCATTATTCTGATTGGGTAATTTAATTTGCTATTTT
CAAATTTGCTGGAGTGTTACCTGTTGTTATCTGTGTCGTCCCACTGAGTGCATTACCCACCTTTTAAATTTTG
TCACTGTATGTATCAGTTCTAAAATTTCCATTTTGTCTCTATATTTTAAATTTCTTGCCTTATATTCTATTTT
CTGCAATGTGTCAGCATTTGCTTGTGTTGAGCTTTTTTTTTTTCAAGACAGGGTCTCAACTCTGTTACCCAGGCT
GGAGTGCAGTGGTGCGATCTCAGCTCACTGCAACCTCTGCCTCCTGGTTCAAGCGATTATTGTGCCTCAGCCTCC
AGAGTAGCTGGGATTACAGGCATGCACCACCACAGCCAGCTAATTTTTTGTATTTTATAGTAGAGACAGAGTTTT
GCTATGTTGGCCAGGCTGGTTTTGAACTCCTGGCCTCAAGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGA
TTACAGGCCACTACACCTGGCACATTTGAGTATTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCTCT
GTCATCTAGGCTGGAGTGCACTGGTGTGATCTCAGCTCACTGCAGCCTCTGTCTCCCGGGCTCAAGCGATTCTCT
TGCCTCAGCCTCTTGAGTAGCTAGGACTACAGGTGCATGCCAACACGCCCCGGCTAATTTTTTTTTTAAAAATATTT
TTAGTAGAGACAGGGTTTACCATTGTTGGCCAGGATGGTCTTGATCTCCTGACCTCATGATCCACCCGCCTCGGC
CTTCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCTGGCCTCATTGAGTATTTTATAATGTCTCTTTT
AAAGTCTTTGTGAGATAATTTCACTGTACATGTTATTTCAGTGTGTTGGTGTCCACTGAGTTGTCATTGCCAGACA
AGTGGAGATTTTTGCAGCTCATCCTTGTATTCTCAGTAGTTCGATATGTACCCTCGAAATGTGAATGTTATCTT
ATGAGACTCTGTTTTATTGTATCCAACAGAAGATGTTTATTATTTATTGGCTTTCTGTGAACGAGGTCTTAA
TATCAGCTCATTTTTAAAAGTCTTTGCAGTGGTATTCGGATCTATCCTGTGTGTGCCTATGAGATTGGGTGCAGTG
TATCCTGTTAGCTCCATTCTCAGGGCGTTTGAATGTGAATTAGGACCAGCGCAATGAATGCTCAAGTTGGGGTTG
GGCGTTAGAATTCATAAAAGTCTTTATATGCTCAG

3117/5332
FIGURE 2732

GACGCTCTGCGCGCGAATGCCGTGGCGCGAACTTGGGACTGCAGAGGCGCGCCTGGCGGATCTGAGTGTGTTGCCC
GGGAGCGGGCGCGGGGACCAACGCAAGGAGCAGCTGACAGACGAAGAAAAGTGCTGGACAGGAAGGGAGAATTC
TGACGCCAACATGCAGCGAAGTATCATGTTCATTTTCCACCCCAAGAAAGAGGGTAAAGCAAAGAAGCCTGAGAA
GGAGGCATCCAATAGCAGCAGAGAGACGGAGCCCCCTCCAAAGCGGCACTGAAGGAGTGGAATGGAGTGGTGTG
CGAGAGTGACTCTCCGGTGAAGAGGCCAGGGAGGAAGGCGGCGCGGTCTTGGGCAGCGAAGGGGAAGAGGAGGA
TGAAGCCCTTAGCCCTGTCTAAAGGCCAGAAGCCTGCCCTGGACTGCTCACAGGTCTCCCCGCCCCGTCTGCCAC
ATCTCCTGAGAACAAATGCTTCCCTCTCTGACACCTCTCCCATGGACAGTTCCCCATCAGGGATTCCGAAGCCTCG
CACAGCTCGGAAGCAGCTCCCGAAACGGACCATTCAGGAAGTCCGGAAGAGCAGAGTGAGGACGAGGACAGAGA
AGCCAAGAGGAAGAAGGAGGAGGAAGAAGAGGAGACCCCCGAAAGAAAGCCTCACAGAGGCTGAAGTGGCCACAGA
GAAGGAAGGAGAAGACGGGGACAGCCACCACGCCTCCCAAGCCCTAAAGACCTCCAAAGCAGAGACCCCGAC
GGAAAGCGTTTCAGAGCCTGAGGTGGCCACGAAGCAGGAAGTGCAGGAGGAGGAAGAGCAGACCAAGCCTCCCCG
CAGAGCTCCCAAGACGCTCAGCAGCTTCTTACCCCCCGGAAGCCAGCAGTCAAAAAAGAGTGAAGGAAGAGGA
GCCAGGGGCTCCAGGAAAGGAGGGAGCTGCTGAGGGACCCCTGGATCCATCTGGTTACAATCCTGCCAAGAACAA
CTATCATCCCGTGAAGATGCCTGCTGGAACCGGGCCAGAAGTTCTTACCTGGCTGTGCCCCGGACGTTTGA
GAAGATCGAGGAGGTGTCTGCTCGGCTCCGGATGGTGGAGACGCTGAGCAACTTGCTGCGCTCCGTGGTGGCCCT
GTCGCTCCAGACCTCTCCCTGTCTCTACCTCAGCCTCAACCACCTTGGGCCACCCAGCAGGGCCTGGAGCT
TGGCGTGGGTGATGGTGTCTTCTCAAGGCAGTGGCCAGGCCACAGGTGGCAGCTGGAGTCCGTCCGGGCTGA
GGCAGCCGAGAAAGGCGACGTGGGGCTGGTGGCCGAGAACAGCCGAGCACCCAGAGGCTCATGCTGCCACCACC
TCCGCTCACTGCCTCCGGGGTCTTCAGCAAGTCCGCGACATCGCCAGGCTCACTGGCAGTGCTTCCACAGCCAA
GAAGATAGACATCATCAAAGGCCTCTTTGTGGCCTGCGGCCACTCAGAAGCCCGGTTTCATCGCTAGGTCCCTGAG
CGGACGGCTGCGCCTTGGGCTGGCAGAGCAGTCGGTGTGGCTGCCCTCTCCAGGCAGTGAGCCTCACGCCCCC
GGGCCAAGAATTCCCAACAGCCATGGTGGATGCTGGGAAGGGCAAGACAGCAGAGGCCAGAAAGACGTGGCTGGA
GGAGCAAGGCATGATCCTGAAGCAGACGTTCTGCGAGGTTCCCGACCTGGACCGAATTATCCCGGTGCTGTGGA
GCACGGCTTGAACGTCTCCCGGAGCACTGCAAGCTGAGCCAGGGATTCCCTGAAACCAATGTTGGCCCATCC
CACCCGGGGCATCAGCAGGTCCTGAAACGCTTTCAGGAGGCGAGCTTTCACCTGCGAATACAAATATGACGGGCA
GAGGGACAGATCCACGCCCTGGAAGGCGGGGAGGTGAAGATCTTCAGCAGGAATCAGGAAGACAACACTGGGAA
GTACCCGGACATCATCAGCCGCATCCCCAAGATTAAACTCCCATCGGTACATCCTTCATCCTGGACACCGAAGC
CGTGGCTTGGGACCGGGAAAAAGAGCAGATCCAGCCATTCCAAGTGCTCACCACCCGCAAACGCAAGGAGGTGGA
TGCGTCTGAGATCCAGGTGCAGGTGTGTTTGTACGCCTTCGACCTCATCTACCTCAATGGAGAGTCCCTGGTACG
TGAGCCCCCTTTCCCGCGCGCGGAGCTGCTCCGGGAGAACTTTGTGGAGACAGAGGGCGAGTTGTCTTCGCCAC
CTCCCTGGACACCAAGGACATCGAGCAGATCGCCGAGTTCCTGGAGCAGTCAGTGAAAGACTCCTGCGAGGGGCT
GATGGTGAAGACCCTGGATGTTGATGCCACCTACGAGATCGCCAAGAGATCGCACAACTGGCTCAAGCTGAAGAA
GGACTACCTTGATGGCGTGGGTGACACCCTGGACCTGGTGGTATCGGCGCTACCTGGGCGGGGGAAGCGGGC
CGGCCGGTACGGGGGCTTCCTGCTGGCCTCCTACGACGAGGACAGTGAGGAGCTGCAGGCCATATGCAAGCTTGG
AACTGGCTTCAGTGACGAGGAGCTGGAGGAGCATCACCAGAGCCTCAAGGCCCTGGTGTGCTGCCAGCCCACGCC
TTACGTGCGGATAGATGGCGCTGTGATTCCCGACCACTGGCTGGACCCAGCGCTGTGTGGGAGGTGAAGTGGCG
TGACCTCTCCCTCTCTCCCATCTACCTGTGCGCGGGGCTGGTGGATAGTGACAAGGGCATCTCCCTTCGCTT
CCCTCGGTTTATTTCGAGTCCGTGAAGACAAGCAGCCGGAGCAGGCCACCACAGTGCTCAGGTGGCCTGTTTGT
CCGGAAGCAAAGTCAGATTGAGAACCAACAAGGCGAGGACTCAGGCTCTGACCCTGAAGATACCTACTAAGCCCT
CGCCCTCCTAGGGCTGGGTACAGGGCATGAGTTGGACGGACCCAGGGTTATTATTGCCTTTGCTTTTATGCAA
ATCTGCTGTGGCAGGCTGTGGATTTTGAAGTCAAGGGAGGGGTGTGTGTGAGGGGGTGGCTTACTCCGGAGT
CTGGGATTTCATCCCGTCATTCTTTCAATAAATAATTATCGGATAGCT

3118/5332
FIGURE 2733

GTGATGGTGACAGCAGCAGTGACCGTAGCAGCCTAGAGGTGGCCGAATGCTTACTCTAATGGGCTGGCCCATCC
CTGAGTGTCTAGAGTTCCAGCCCGCTTAAGGAAGGAAGGAAAACACAGGCAGCTCTAAGTGTACGACGAGGGAG
GTCTCATCGGCGGTGAGGAAGCCCAGGCGGGTCCCCTTCCCAGCTGAAAGGGGTTTCGGAATTTCACTCTGTCCGC
AGGCTGGAATGCAGTAGGGCAATCTCGGCTCACTGCAACCTCCACCTCCCGAGTTCAAGTGATGCTCCTGCTTCG
GCCTCCTGAGTAGCTGGGACTACAGGGACTATGTACCCGGTGGGGCTTGCCCCAGCAAGGCCACCATCCCTGGGA
AGACGGTCATCGTGACGGGTGCCAACACAGGCATCGGGAAGCAGACCGCCTTGGAAGTGGCCAGGAGAGGAGGCA
ACATCATCCTGGCCTGCCGAGACATGGAGAAAGTGTGAGCGGCCAGCAAAGGACATCCGCGGGGAGACCCCTCAATC
ACCATGTCAACGCCCGGCACCTGGACTTGGCTTCCCTCAAGTCTATCCGAGAGTTTGCAGCAAAGATCATTGAAG
AGGAGGAGCGAGTGGACATTCTAATCAACAACGCGGGTGTGATGCGGTGCCCCCACTGGACCACCGAGGACGGCT
TCGAGATGCAGTTTGGCGTTAACACCTGGGTCACTTTCTCTTGACAAACTTGCTGCTGGACAAGCTGAAAGCCT
CAGCCCCCTTCGCGGATCATCAACCTCTCGTCCCTGGCCCATGTTGCTGGGCACATAGACTTTGACGACTTGAAGT
GGCAGACGAGGAAGTATAACACCAAAGCCGCTACTGCCAGAGCAAGCTCGCCATCGTCTCTTACCAAGGAGC
TGAGCCGGCGGCTGCAAGGCTCTGGTGTGACTGTCAACGCCCTGCACCCCGGCGTGGCCAGGACAGAGCTGGGCA
GACACACGGGCATCCATGGCTCCACCTTCTCCAGCACCACACTCGGGCCCATCTTCTGGCTGCTGGTCAAGAGCC
CCGAGCTGGCCGCCAGCCAGCACATACCTGGCCGTGGCGGAGGAACTGGCGGATGTTTCCGAAAGTACTTCG
ATGGACTCAAACAGAAGCCCCCGGCCCCGAGGCTGAGGATGAGGAGGTGGCCCGGAGGCTTTGGGCTGAAAGTG
CCCGCTGGTGGGCTTAGAGGCTCCCTCTGTGAGGGAGCAGCCCTCCCCAGATAACCTCTGGAGCAGATTTGAA
AGCCAGGATGGCGCCTCCAGACCGAGGACAGCTGTCCGCCATGCCCGCAGCTTCCTGGCACTACCTGAGCCGGGA
GACCCAGGACTGGCGGCCGCCATGCCCGCAGTAGGTTCTAGGGGGCGGTGCTGGCCGCAGTGGACTGGCCTGCAG
GTGAGCACTGCCCTGGGCTCTGGCTGGTTCGCTCTGCTGCTGCCAGCAGGGGAGAGGGGCCATCTGATGCTTC
CCCTGGGAATCTAACTGGGAATGGCCGAGGAGGAAGGGGCTCCGTGCACTTGCAAGGCCACGTCAGGAGAGCCAG
CGGTGCCTGTGGGGAGGGTTCCAAGTGCTCCGTGAAGAGCATGGGCAAGTTGTCTGACACTTGGTGGATTCTT
GGGTCCCTGTGGGACCTTGTGCATGCATGGTCTCTGAGCCTTGGTTTCTTCAGCAGTGAGATGCTCAGAATA
ACTGCTGTCTCCCATGATGGTGTGGTACAGCGAGCTGTTGTCTGGCTATGGCATGGCTGTGCCGGGGGTGTTTGC
TGAGGGCTTCTGTGCCAGAGCCAGCCAGAGAGCAGGTGCAGGTGTCATCCTGAGTTCAGGCTCTGCACGGCAT
GGAGTGGGAACCCACAGCTGCTGCTACAGGACCTGGGATTGCTGGGACTCCACCTTCCTATCAATTCTCAT
GGTAGTCCAACTGCAGACTCTCAAACTTGCTCATT

3119/5332
FIGURE 2734

GATCTCTTCCAAATGTCCCCGCTCTCCCCAGGCTCTCCCCTCCCGCCACTTGCCAGGGCTGACCTCACCGCCATC
TTAACCGGGTGTCCACCTCTCTCTGCCTGCCTGGTGCTGGCCCCGCGTCCCCATCGCCGCGCCCGTCTGCTCCCC
TCAGAGGGCTTGCTGACGCTGCGGGCCAAGCCGCCCTCGGAGGCCGAGTACACCGACGTGCTGCAGAAGATCAAG
TACGCCTTCAGCCTGCTGGCCCGGCTGCGCGGCAACATCGCCGACCCCTCCTCTCCGGAGCTGTTGCACTTCCTT
TTCGGGCCTCTGCAGATGATTGTGAACACGTCGGGGGGGCGGAGTTGCGGAGCAGTGTGCGGCGGCCGCATCTG
ACATCGGATGCCGTGGCGCTGCTGCGGGACAACGTCACTCCACGTGAAAACGAGCTCTGGACCTCGCTGGGGGAC
TCGTGGACCCGCCCGGGCTGGAGCTGTCCCGGAGGAGGGACCCCATACAGACCCGAGTTCTTCAGCGGCTGG
GAGCCGCCGGTCACTGACCCGACAGCCGCGCCTGGGAGGAGCCAGTTGAGAAACAGCTACAGCAGCAGCGGAGG
CGCCGGCAGGTGACCCAAGCGACACAGCAGGGCCGAGGCTGGGAAGTCCGGGGGCGCGGCCGGTCCGCCTGGCCC
CGCCTGACCCGACTGTCTTACTTCTTACAGCAAAGCGCCCCCAGGTCGCTGTCAATGGTCACCGAGACTTGGAG
CCAGAATCTGAGCCTCAGCTGGAGTCAGAGACAGCAGGAAAATGGGTCTGTGTAATTATGACTTCCAGGCCCGC
AACAGCAGTGAGCTGTGGTCAAGCAGCGGGACGTACTGGAGGTCCTGGATGACAGTCGTAAGTGGTGGAAGGTT
CGGGACCCAGCGGGGACAGGAGGATATGTGCCCTACAACATCTTGACACCCCTACCCCGGACCCCGGCTGCACCAC
AGCCAAAGCCCTGCCCGCAGCCTGAACAGCACTCCTCCTCCACCACCAGCCCCAGCCCCGGCCCCACCTCCAGCT
CTGGCTCGGCCCCGCTGGGACAGGCCCCGCTGGGACAGCTGCGATAGCTCAACGGCTTGGACCCACGCGAGAAGGA
GAAATTCTCCAGATGCTCATCGTCAACGAGGAACTGCAGGCGCGCCTGGCCAGGGCCGCTCGGGACCGAGCCG
CGCAGTCCCAGGGCCCCGCGCCCCGGAACCGCAGCTCAGCCCGGGCTCGGACGCCTCCGAGGTCCGCGCCTGGCT
GCAGGCCAAGGGCTTTAGCTCCGGGACCGTGGACGCGCTGGGTGTGCTGACCGGGGCGCAGCTTTCTCGCTGCA
GAGGGAGGAGCTGCGGGCGGTGAGCCCCGAGGAGGGGGCACGTGTGTACAGCCAGGTCACCGTGCAGCGCTCGCT
GCTGGAGGACAAAGAGAAAGTGTGAGAGCTGGAGGCAGTGATGGAGAAGCAAAAGAAGGTGGAAGGCGAGGT
GGAAATGGAGGTCAATTTGACCTGCCAGGCGCCCTTCGCAAAGAGTGACGAGGCCCCGTGGGAGAACGGACTCCTC
AGACTCTCCCCAATAGCGGAAGTCGATCTTCTGAAGGATGGCCAATCTGCTCCGGCCCTGGTCTTCCCCATCCC
GGTGGACAGACTTAACGATCCTTGCTGCAGATCCTCCGGAGAGGATCTGGACTGGCTGGGAGTGGGGAGGGCGTG
GAGACAGTCTACGGAAAGCGCTAGCAGACCCCCGAGAGGGTGCAGTGGAGCCCTGAGCATTGTAATATGCGGCC
AGCCTATAAACAGCCTCCGTGCTTAGC

3120/5332
FIGURE 2735

GCGGGCGGGCGGTGCGATGTCCGGAGAGGATGGCCCGGGCGGCTGGCCCGGGGGCGGGCGGGCGGGCTGCCCGGG
AGCGGCGACGGGAGCAGCTGCGGCAGTGGGGGGCGGGCGGGCGGGCGAGCCTGGCCCCGGAGAGCGCCGCGCCC
GCACCGTCCGCTTCGAGCGCGCCGCGGAGTTCTTGGCGGCGCTGTGCGGGCGGGCGACCTGGACGAGGGCGCGTCTGA
TGCTGCGCGCCGCGGACCCCTGGCCCCGGCGCGGAGCTCGACCTCCGCGCGCGCGCCGCGCCGCGCGCGCTGCTG
GACTCCACCAACGCCGACGGTATCAGCGCCCTGCACCAGGCTGCATTGATGAGAACCTGGAGGTGGTGGCGCTTC
TTGGTGGAGCAGGGCGCCACTGTGAACCAGGCAGACAACGAGGGCTGGACGCCACTGCACGTGGCCGCTCCTGT
GGCTACCTAGATATCGCCAGGTACCTCCTGAGCCACGGGGCCAAACATCGCCGCGCTAACAGTGACGGGGACCTG
CCCCCTGGACCTGGCCGAGTCGGACGCCATGGAGGGGCTGCTGAAGGCGGAGATCGCCCGCGAGGTGTGGATGTG
GAGGCAGCCAAGCGGGCAGAAGAGGAATTGCTCCTTCATGACACGAGGTGCTGGCTGAATGGGGGCGCCATGCCA
GAGGCCCGGCACCCCCGCACAGGCGCCTCTGCCCTGCACGTGGCTGCTGCCAAGGGCTACATTGAGGTGATGAGG
TTGCTCCTTCAGGCTGGCTACGACCCAGAGCTCCGGGACGGGGACGGCTGGACTCCCCCTGCACGCAGCGGCACAC
TGGGGCGTGGAGGATGCTGCGCCTGCTGGCCGAGCATGGCGGGGGCATGGACTCACTGACCCATGCGGGGCGAG
CGTCCCTGTGACCTGGCCGATGAGGAAGTACTGAGCCTGTTGGAGGAACTGGCCCGGAAACAGGAGGACCTTCGG
AACC AAAAAGAAGCTTCCAGAGCCGGGGCCAGGAGCCCCAAGCGCCCTCTAGCAGCAAACACAGAAGGAGCTCT
GTGTGTCTGTGAGCAGTCGCGAGAAGATTCCCTCCAGGACTTGTCCAAGGAGCGCCGCGCTGGTGGGGCTGGG
GGGCCCCCATCCAGGACGAGGATGAGGGGGAAGAAGGTCCCACCGAACCACCCCTGCAGAACCCAGAACCCTCA
ATGGCGTCTCCTCCCCGCGCACCCACAGCCCTAAGAGTCCCGTGCAGCTTGAAGAGGGCCCCCTTCTCCAGGCGCT
TTGGCCCTCCTGAAGACAGGGAGTTCTGGTGCCCTGGGTCCCCCTGAAAGGCGGACAGCGGAGGGAGCCCCCTGGGG
CTGGGCTGCAGCGCTCGGCTTCTCCTCTCTGGCTGGAAGGGACCTCCACTCAGGCCAAGGAGCTCCGTCTTGCCA
GAATTACCCCGACCCCTCCCCGAAGCTGCCGGAGCCCTCTGTCTGTCTGAGGTCACCAAGCCTCCTCCTTGCT
TGGAGAACTCCTCGCTCCCTCCAGGATTCGGGAGCCTGAATCCCCAGCGAAGCCAAACGTCCCCACAGCCTCCA
CGGCGCCCCCAGCGGACTCCCGGGACCGACGGAGGTCTTACCAGATGCCTGTGCGGGATGAGGAGTCGGAATCCC
AGAGAAAAGCTCGTCTCCGTCTCATGCGCCAGTCTCGGAGGTCCACACAGGGTGTGACTCTTACAGACCTGAAGG
AGGCAGAGAAGGCTGCAGGGAAGGCCCCAGAGTCAGAGAAGCCGGCGCAGAGCCTGGACCCCTTCCCGAAGGCCCC
GCGTCCCTGGAGTGGAGAACTCTGACAGCCCTGCCAGAGAGCAGAGGCGCCGACGGGCAGGGTCCGGGACCGC
AGGCGGCCAGGGAGACCGCAAGGTCTGAAAGGAGTGGAGGGGGCCTGCGGAGGGGGAGGAGGCGGAGCCGCTG
ACCGCAGCCAGGAGTCCAGCACCCCTGGAGGGCGGCCCTCGGCCGAGGCAGCGGTGGCAGCGGGACCTCAACCC
AGAACCTGAGCCAGAATCGGAAGAGCCAGACGGAGGCTTTAGGACGCTGTATGCAGAGCTGCGCAGGGAGAACGA
GCGGCTTCGCGAGGCCCTGACCGAGACCACGCTGCGGCTGGCGCAGCTCAAGGTGGAGCTGGAGCGGGCCACGCA
GAGGCAAGAACGCTTCGCTGAGAGGCCAGCCCTCCTGGAAGTGGAGAGATTGAGCGCAGGGCCCTGGAACGCAA
GGCCGCGAGAGCTGGAGGAGGAGCTGAAGGCCCTGTCTGACCTCCGCGCTGACAACCAGCGCCTCAAGGATGAGAA
TGCAGCGTTGATCCGCGTCATCAGCAAACCTCTCAAGTGACCCGGAGGGACTTTCCCGCACCCGTATTTATACAG
CTGCTTCTGCCACACGCACCCCTTCCCCCGTGTGAACACGAGTGACAGGGCTCCGGGGGAAGTCTCAGAGAAGCC
ATAGCCCCCCTGGGACCTCCGGACTGGGAGGGGAGCAGAGTCCCCAGGAGCCGAGGGGGCCACCCGAGGCCAGGA
TGGAGGTGGGAGGCCGAGCCAAGCAGGGGGACGTTGCCAGAGGGGACCAGGGCCAGAGACGGGACCAGGAAGGAA
CTGAGGACCAAGAAGTGCAAGGATCAGTAGCCAGGACCAGAGTGGCCGCTGGAGGTCCCCATCTCACGTGTGAT
GCCACCCCGTCACCCCTCCCCTCCTGAGCAGGGATCCAAGAATGTGCCAAGAGTCCCGCCAGCCTCAGCCAGGTG
GGCCTGTATATAGGGTCCATGTGCAATAGGGAGGGACGTCTTCTATTTTGTCTGCCCCCTCCCCGCGCACTGTG
TGGGGCAGGGGGAGAAGGTATTTTCGAGATAAAGCACAGGCACCACAAATAAAAGTCGTGAAGTTGCCACTC

3121/5332
FIGURE 2736A

GTTCCTCAGTGGCCACCCTGCGCTACCCCTCTCCCAGAACCTGAGCTGCTCTGACGCGGCTGTCTGGTGCGTTTCAC
TGATCCTGGTGCTGCAGCTTCCTTACACTTCCCAAGAGGAGAAGCAGTTTGGAAAAACAAAATCAGAATAAGTTG
GTCCTGAGTTCTAACTTTGGCTCTTACACCTTTCTAGTCCCAATTTATATTGTTCCCTCCGTGCGTCAGTTTTACC
TGTGAGATAAGGCCAGTAGCCAGCCCCGTCTGGCAGGGCTGTGGTGAGGAGGGGGGTGTCCGTGTGGAAACTC
CCTTTGTGAGAAATGGTGCGTCTAGGTGTTACACAGGTCGTGGCCGCTCTACTCCCTTTCTCTTTCTCCATCCT
TCTTTCTTAAAGAGTCCCCAGTGCTATCTGGGACATATTCCTCCGCCCAGAGCAGGGTCCCGCTTCCCTAAGGC
CCTGCTCTGGGCTTCTGGGTTTGAGTCCTTGGCAAGCCCAGGAGAGGCGCTCAGGCTTCCCTGTCCCCCTCCTC
GTCCACCATCTCATGCCCCGTGGCTCTCCTGCCCCCTTCCCTACAGGGGTTCCCTGGCTCTGCTCTTCAGACTGAGCC
CCGTTCCCTGCATCCCCGTTCCCTGATCCCCCTTCCCTGTCATCCCCCAGAGCCCCAGGCCACCTACTTGG
CCTGGACCCACAGAGAGGCCACCCAGCCCTGTCTACCAGGCTGCCTTTTGGGTGGATTCTCCTCCAACCTGTGGG
GTGACTGCTTGGCAAACTCACTCTTCGGGGTATCCAGGAGGCTGGAGCATTGGGGTGGGCTGGGGTTTCAGAGA
GGAGGGATTCCCTTCTCAGGTTACGTGGCCAAGAAGCAGGGGAGCTGGGTTTGGGTGAGGCTGGGTGTGGGGTG
ACCAGCTTATGCTGTTTGGCCAGGACAGCCTAGTTTTAGCGCTGAAACCCTCAGTCCTAGGAAAACAGGGATGGT
TGGTCACTGTCTCTGGGTGACTCTTGATTCCCGGCCAGTTTCTCCACCTGGGGCTGTGTTTCTCGTCTGCATCC
TTCTCCAGGCAGGTCCCCAAGCATCGCCCCCTGCTGTGGCTGTTCCTCAAGTTCTTAGGGTACCCACGTGGGTT
TATCAACCACTTGGTGAGGCTGGTACCCTGCCCCATTCTGCACCCCAATTGCCTTAGTGCTAGGGGGTTGGG
GGCTAGAGTAGGAGGGGCTGGAGCCAGGATTCTTAGGGCTGAACAGAGAAGAGCTGGGGGCTGGGCTCTGGGT
TTGAGAGAGGAGGGGCTGGGGCCTGGACTCCTGGGTCCGAGGAGGAGGGGCTGGGGCCTGGACTCCTGGGTCTG
AGGGTGGAGGGACTGGGGGCTGGACTCCTGGGTCCGAGGAGGAGGGGCTGGGGCCTGGACTCGTGGGTCTGAG
GGAGGAGGGGCTGGGGGCTGGACTTCTGGGTCTTAGGGAGCGGGGCTGGGGCCTGGACCCCTGGGTCTGAATGG
GGAGAGGCTGGGGGCTGGACTCCTTCATCTGAGGGCGGAAGGGCTGGGGCCTGGCTCCTGGGTGAATGGGGA
GGGTTTGGGCTGGACTCTGGAGTCCCTGGTGCCAGGCTCAGGCATCTTTCACAGGGATGCCTGTACTGGGCA
GGTCTTGAAAGGGAAAGGCCCATTTGCTCTCCTTGCCCCCTCCCTATCGCCATGACAACTGGGTGGAAATAAA
CGAGCCGAGTTTCATCCCGTTCCAGGGCAGTGCGGCCCTTTCACAGCCGAGTTTCATGACCTCATGCTCTTG
GCCCTCGTAGCTCCCTCCCGCTCTCCAGATGGGAGCTTTGGAGAGGTGAGGGACTTGGGGGTAATTTATCC
CGTGGATAGGAGTTAGCTTCACTCCTTCCCTCAGTCCAGTTTCCAGTCCCGGAGCCCCAGTGTCCACAAG
GCCTGGGGCAAGTCCCTCCTCCGACCCCTGGACTTCGGCTTTTGTCCCCCAAGTTTGGACCCCTAAGGGAAG
AATGAGAAACGGTGGCCCGTGTGAGCCCTGGCTGCAGGGCCCCGTGCAGAGGGGCTCAGTGAACCTGGAGTGT
GACAGCCTGGGGCCAGGCACACAGGTGTGAGCTGTCTACCCCTCTGGGAGTCCCGCCAGGCCCTGAGTCT
GTCCAGCACAGGTGGCCTTCTCCACCCTGCATAGCCCTGGGGCCACGGCTTCGTTCTGCAGAGTATCTGCT
GGGGTGGTTTCCGAGCTTGACCTTGGAAAGGACCTGGCTGGGTTTAAAGGCAGGAGGGGCTGGGGGCCAGGACTCC
TGGCTCTGAAGGAGGAGGGGCTGGAACCTCTTCCCTAGTCTGAGCACTGGAAGCGCCACCTGTGGGTGGTGACGG
GGGTTTGGCGTGTCTAACAGGTACCATGTGGGGTTCCCGCACCAGATGAGAAGCCCCCTCCCTTCCCCGTCA
CTTCTGTTTGCAGATAGCCAGGAGTCTTTCGTGGTTTCCACTGAGCACTGAAGGCTGGCCGGCCTGACCACT
GGGCAACCAGGCGTATCTTAAACAGCCAGTGCCAGAGGCTGTTGGGTCAATTTCCCACTGTCTTAGCACCGTG
TCCCTGGATCTGTTTTCTGTGGCTCCCTCTGGAGTCCCGACTTGTGGGACACCGTGGCTGGGGTAGGTGCGGCTG
ACGGCTGTTTTCCACCCCCAGGCCTGCATTGATGAGAACCTGGAGGTGGTGCGCTTCTTGGTGGAGCAGGGCGCC
ACTGTGAACCAGGCAGACAACGAGGGCTGGACGCCACTGCACGTGGCCGCTCCTGTGGCTACCTAGATATCGCC
AGGTGAGGCAAGGGAGGGCCGGGACAGGCTGGTGGGGTGGGGGCTGGACCTCAGCCCTGACCAGCCCCAC
CCCCAGGTACCTCCTGAGCCACGGGGCCAACATCGCCGCGTCAACAGTGACGGGACCTGCCCTGGACCTGGC
CGAGTCGGACGCCATCGAGGGGCTGCTGAAGGCGGAGATCGCCGCGGAGGTGGGCTCTGGTGTGCTGTGTGG
GGTGGGGGACACCTCCTCACCCTGGTCTCAGGCTGAGAGCTTTAGAGGCGGCTGGGCACCGAGGCTGACCT
GCTTCTTAGGATTGCTTTCTTTGTGCTCAGTTTCTCACCCTGTGAAATGGGGGTGTAGGGGCTGCCTCCAGG
ATTGCTGGAGGCCAGCACACGACAGGATGAGAACTCAAACCCCTACCAACTGGGACTGTCAATCCCCCTGAGT
AAGTAGGGGATTGGAATGCCGGGGCGGGTGGGTGGGTGGAGGACTCACCCAGGAGTGCGTTAGGTAGGATTG
CTGGAACCCTGCCGAGGTCTTTCTGGGAGGGGATGCGTTTACTTGGGGGGGAGTAGGGGCATGCAGGGGTGCC
AGGGACTGGTCTCCCTGTCTCTGAGACTCATCGTACCCAGGAGCCTTCATATGGGGTCCAGGAGCCCCTGAAA
CTGTGTCTGGCCAGGTTCAATTTTTCTAGGGAAGGGGTGTTGCTTCTAGCAGGTGTGTGATGGCCACACAGGATCC

3122/5332
FIGURE 2736B

CTGGGTCCCCAGCATGTCTTCTAAAGTCCTGGGCTTGCCTCCCAGCTCTGCCTGTGACTGGTGACTCCAGGCACG
TCCCTGAAGCTTGCTTCCCTGATTTCCTAAAACAGGACCACTGGTGCCGCTTCATGGGGTGGTTGTCAGGGTCTG
GCTGGGTGGAGTGGAAGGGGTGTGAGCATGGTTCCCGGCAGACTCCAGGGGACCGTGTGGAAGGAAAGGGAGACT
GACGAGGAAATGAGATACCGGCAGCCTCCGAGACTTCTGACGCGGCTGTCCTGACGGGGCCGCTGGCCAGGCTGA
AAGGATAGGATTCCGCGTGGGTTCAGGGGTCCACGAGAGCCATGCGGGAGGACTAGCTAGTGGGACACGTGACGG
CGGAGATCTGAGGTTCCGGAGCCCCCTCTTTGGTTGAAATGGGGAGTGGGTCAAATCAGCCCTGGACCTGGATTCT
GTCTCCTTCCTCCTCCAACTTTTATTTTGGGAAAGCTTCAGATTACAGAAAAGTTGAAGCAATAGCATGTGAC
TACCCATATGACTTTC

3123/5332
FIGURE 2737

AAGATTACAGCATCTCAGACACAGCCTAGGCCGCACCAGGATGTCGGACACCGAGGAGCAGGAATATGAGGAGG
AGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGAGGAACGCCCCAAACCAAGCCGCCCCGTGGTGC
CTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGACTTCGATGACATCCACCGCAAGCGCATGGAGA
AAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTCGAGCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTG
CCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGAGCAACAGCGCTTCAGAACTGAGAAGGAACGCG
AACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGAGGAAGAGGCCAAGAAGCGGGCAGAGGATGATG
CCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCATTTTGGCGGCTACCTGGTCAAGGCAGAACAGAAGCGTG
GTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTCCGAGCGTAAGAAGCCTCTGGACATTGACTACA
TGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGACTGGATCCACCAGCTGGAGTCTGAGAAGTTTCG
ACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGTGCTGTACAACCGCATCAGCCACGCCCAGAAGT
TCCGTAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAAGTCAGGATGCCGCCCCGGACAGTGGCACCTGG
GAAGCCTGGGAGTGTGTTGTCCCATCGGTAGCTTGAAATAAACGCTCCCCTCAGACA

3124/5332
FIGURE 2738A

CTAGGCCTGGGACTCCTGGGTCCCCGGCAGTGTCTGGAGGCATGGCTGGGGCTGGCGGGGGCCTCGGGGTCTGGG
GGAACCTGGTGTCTGTGGGCCTGTGCAGCTGGACAGGGGCCAGGGCGCCTGCCCCCAACCCAGGGAGGAACCTGA
CAGTGGAGACTCAGACCACCAGCTCCATCTCCCTGAGCTGGGAGGTCCCCGATGGCCTAGACTCACAAGAACTCCA
ACTACTGGGTTCAGTGTACTGGAGACGGCGGCACAACAGAGACTCGAAACACAACAGCCACCAACGTCACCGTGG
ATGGCCTTGGACCCGGGTCAATTGTATACGTGTTCTGTGTGGGTGGAGAAAGACGGAGTAAATAGCTCTGTGGGA
CTGTCACTACTGCCACAGCTCCCAACCCAGTGAGGAACCTGAGAGTGGAGGCTCAGACCAACAGCTCCATCGCC
TGACCTGGGAGGTCCCCGACGGCCAGACCCACAGAACTCCACCTACGGGGTTGAGTACACTGGAGATGGTGGCA
GAGCAGGGACTCGAAGCACAGCACACACTAACATCACCGTGGATGGACTTGAACCCGGGTGTTGTATGCGTTTT
CCATGTGGGTGGGAAAGAAATGGAATCAACAGCTCCCGGGAGACTCGAAATGCCACCACAGCTCACAACCCAGTGA
GGAACCTGAGAGTGGAGGCTCAGACCACCAGCTCCATCTCCCTGAGCTGGGAGGTCCCCGATGGCACAGACCCAC
AGAAGCTGACCTACTGCGTTCAGTGCACTGGAGATGGTGGCAGAACAGAGACTCGAAACACAACAGACACCAGAG
TCACCGTGGATGGCCTTGGACCCGGGTCAATTGTATACGTGTTCTGTGTGGGTGGAGAAAGACGGAGTAAATAGCT
CTGTGGAGATTGTCACTAGTGCCACAGCTCCCAACCCAGTGAGAACTGACAGTGGAGGCTCAGACCAACAGCT
CCATCGCCCTGACCTGGGAGGTCCCCGATGGCCAGACCCACAGAACTCCACCTACGGGGTTGAGTACACTGGAG
ATGGTGGCAGAGCAGGACTCGAAGCACAGCACACCAACATCACCGTGGATAGACTTGAACCCGGGTGTTTGT
ATGTGTTTTCCGTGTGGGTGGGGAAGAATGGAATCAACAGCTCCCGGGAGACTCGAAATGCCACCACAGCCCCA
ACCCAGTGAGAACTCCATATGGAGACTCAGACCAACAGCTCCATCGCCCTATGCTGGGAAGTCCCCGATGGCC
CATACCTCAGGACTACACCTACTGGGTAGAGTACACTGGAGACGGTGGTGGCACAGAGACCCGAAACACAACAA
ATACAGTGTGACAGCTGAGAGACTTGAGCCCGGAACCTTGTACACATTCTCTGTATGGGCAGAAAAAATGGAG
CACGTGGCTCCAGGCAGAATGTGAGCATCTCCACAGTCCCAACGCAGTGACAAGCCTCAGCAAGCAGGACTGGA
CCAACAGCACCATTGCTTTGCGCTGGACAGCTCCCCAGGGGCCAGGCCAGTCTTCTACAGCTACTGGGTCTCAT
GGGTGAGGGAAGGCATGACTGACCCAGGACCCAAAGCACCTCAGGTACTGACATCACCTAAAGGAAGTGGAG
CTGGCAGCCTGTACCACTCACCGTCTGGGCCGAGAGGAATGAGGTGAGGCTATAACAGCACCCTCAGTCGAG
CCCTGTCTCCCAATGAGGTACAGATCTCCAGAAATGAACTCAGACTAAGAACTCAGTCATGCTGTGGTGGAGG
CCCTGGGAGCCCACTCTCAGTTGTACGTATCTGGGTCCAGTGGGCCAGCAAGGGACATCCCCGGAGGGGGC
AAGATCCCCAAGCGAATTGGGTCAACCAGACCTCAGGACCAATGAGAGCTGGTACAAAGTGGAGGCCCTGGAAC
CCGGGACGTTGTACAATTTACCGTGTGGGCAGAGAGGAATGAGTAGCCAGTTCCACGCAGAGCCTCTGTGCGT
CCACATACCCAGACACAGTCACCATCACTTCTGTGTGACACCTCAGCGGGCTATGGAGTCAACTTGATCTGGT
CCTGCCCCCAGGGAGGCTACGAGGCCTTTGAGTTGGAGGTGGGAGGACAGCGGGCTCCCAGGACAGATCTTCAT
GTGGGGAGGCTGTGTCTGTGTTGGGTCTCGGGCCGGCTCGGTCTTACCCAGCCACCATCAGACCATCTGGGACG
GAATGAAGGTCTGTCTCACTCTGTGGTCTGCCACACCGAGAGTGCAGGGGTCAATTGCCGGAGCCTTTGTGGGCA
TCTCTCTGTTTCTCATCTCTGTGGCCTGCTGATTTTCTTCTTGAAGAGGAGGAATAAGAAGAAGCAGCAGAAAC
CAGAACTCAGGGATCTGGTCTTTAGCTCCCCAGGGGACATCCCAGCTGAAGACTTCGCTGACCACGTCAGGAAGA
ATGAGAGGGACAGCAACTGTGGTTTTGTCAGACAAGTACCAGCAACTCTCCCTGGTGGGCCACAGCCAGTCTCAGA
TGGTGGCTTCGGCTTCAGAGAACAACGCCAAGAACCCTACAGAAATGTGCTGCCCTATGACTGGTCCCGGGTGC
CCCTGAAGCCCATCCATGAGGAGCCAGGCTCTGACTACATCAATGCCAGCTTCATGCCCGGTCTCTGGAGCCCC
AGGAGTTTCAATTGAACCCAGGGTCCCCTGCCACAGACAGTGGGTGACTTCTGGCGCCTGGTGTGGGAACAGCAGA
GCCACACCCTGGTCATGCTGACCAACTGCATGGAGGCCGGCCGGGTGAAGTGTGAGCATTACTGGCCTCTGGACT
CGCAGCCCTGCACCCATGGGCACCTGCGGGTAACCCTGGTAGGTGAGGAAGTGATGGAGAACTGGACGGTGCAGG
AACTGCTGCTCCTCCAGGTGGAGGAGCAGAAGACACTGTCTGTGCGCAATTCCACTACCAGGCCTGGCCGGATC
ACGGCGTTTCCCTCTCCAGACACCTTGTGGCTTCTGGAGGATGCTTCGGCAGTGGCTGGATCAGACCATGG
AGGGAGGCCCACCCATTGTGCACTGCAGTGTGGCTGGGTGCGACAGGAACCCCTCATTGCCCTGGACGCTCTGC
TCCGGCAGCTGCAGTCCGAGGGTCTCCTTGGGCCCTTCAGCTTTGTAAGGAAGATGAGAGAGAGTCGGCCGTTGA
TGGTGCAGACTGAGGCTCAGTACGTATTCTGTCATCAGTGCATCCTGCGGTTCTCTCAACAGTCAGCCAGGCC
CAGCCGAGAAGGAAGTCCCGTATGAGGATGTGAAAACCTCATCTACGAGAAGCTGGCCGCCATCCAGGCCACCA
AGTTGGAGGTCTAAGTGACGAGGGGGCTGGGTGCGCAGCCAGGCATCCTCAAGCTCTGGACACCCACTTGAGCC
CAGATTCTGGAAGAGCAGAGGGCTGGGCTCCAGACTCCTGGGTGCTGTGGGAGGAGGGGGCTGGTATCCCAA
CTCTGGTTTCCCAGGAGAGAGTGGTCTGGTGGGCTTCAGATGAGTCCTATGGGAGCTGGGGATCTGGATTCTG

3125/5332

FIGURE 2738B

GTTCCCTGAAGGAGGAGAGGGATGATAGCTTGGATTCCCTAGGTCTTTCCAGGATGCAGAAAGAAACAGGCTGGG
GCCTGGATTCTGAGGCAGGAAGGAATTTGGGTCTGGAGTTCTGGCTACTTGAGGACCAAAGGCAGGAAGGATCCT
GCCTTGATTTTACTTCAGAAACCAAATCAGTCTTCTATAATCTGGGGTCGGAGGGAGTCCCTGTGCCCCAAGGTCT
CTCTGCACCCACCATCCACATGTATTTTCCTTCTATCCCATATTTATTAAATCACTGTTCTCCCCAG

3126/5332
FIGURE 2739A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAACCTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCAGCTGGTGGGGCAGCTCTTGTCTTGGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTAGCTGCTGGGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCTTGGTGTGGGCC
CTTGTTCTGCGTCACCCCTGTCTCTGCCCTTTCCCTTCCCTGGACAGGGGTCTCTGCAGTTCCCAAGAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCTTCCCGGGCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCTCCCAAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGTGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGCAGAGCACCAGGAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCAATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCTGCTCACC
TGTGTGGAGCGGCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTGAGGGGGAGCAGAGCCAGTCTGTTCATCGTCAGTGGGATCCAGGTG
CTGCTGACCTGCTGGAGCCAGGAGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGAGCTGGAGCTCCTGGCCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCACGC
CCGCGGCTCAGCTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAAACCTGTTGTGAAACATCTGCTGCAGCAGTCCGCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAAGCAGCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCGAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAAGAACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGGCCCTCTGGGCCAGCCACCTGGTGTCCGAGTGGAGGCAGCACAGACAGTGA
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTTACCCAGCCCTGGCCCTCAGCCTCCAGGCCAGCTGGACAGCCACCTTTGACCCAGTGCCTACA
GATGCCCCGACCCAGCCCCGAGTCTCCGGGGAGGAAGAGTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCCGTGACGCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCCCTGGCAG
GCCTTGGTTAGCATCGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCAGCCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCTGCATCCCCAGGCTCCCAATAGCTGCTGGTGGCGCAGCGGCGGCAATCTTCCGTCTCCCG
TGGATCTCCCGGGGTGGGGGCAGGGCGGGTCCCACGATGGCCCCCATTGCCCTCATCACCTGACACCCCCACAT
TCTCTCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCCATTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGAATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCAGCGGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCCGTGCCTTTGCCAGACCCTGCACCTTCAACCAGGCCAGTCCGG

3127/5332
FIGURE 2739B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

3128/5332
FIGURE 2740

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCATGTCAGACGAAGGCTCAAGGGGAGCCGCTGCCCCTGCGCGTGCCCCGGCCTCCAG
GGTTGCTCTTCAGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACGCGGGCTCTGAAGAGCCAGACCTCCTCCAGAACCGATG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTGCGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCTGCGACACGGTGCGCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCCTCCGCTGGACGGCTTCTGTGTGTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAGCTCAAGGTCAAATCAGCATTCCTGCTGCAGAACCTGCTGGTGGGCCACCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGCGGACAGAGCACAGCCCCTCCACGAGCACGTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTCCGAGGGTGTGCGCGAGTGTGCGGAGCCGGAAGTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTGAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCAGGCCTCTTGCTCCCTCCCCACCTACAAGGCCCTCTCCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGTGTGCCAGCCCGTCTCTGTGAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCCGTCTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCTCCTTCTC

GCTACACGCTGTAATCCACGCACTTTGGGAAGCTGAGGTGGGCAAATACAAGGTCAAGGATTTGAGACCAGCCT
 GACCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCGGAAGGGTTAACTTT
 GGGGAAGGGCCCGGAGTCCCCGGATGGTGATGTCAGCGTGCCGGAGAGAAAGGACGAGGTGGCGGGGGAGGCGG
 AGAGGAGGAGGAGGCGGAGGAGAGAGGGGCCACGCCAATATGTGGGCCCTATCGGCTGGAGAAGACGCTGGG
 CAAAGGACAGACAGGGCTGGTTAAACTCGGGGTCCACTGCATCACGGGTCAAGAGTGCCTATCAAGATCGTGAA
 CCGGAGAAGCTGTTCGGAGTCGGTGCTGATGAAGGTGGAGCGGGAGATCGCCATCCTGAAGCTCATCGAACCCC
 ACATGTCTCTAAGCTCCACGACGCTACAGAGAACAAGAAATATTTGTACCTGGTTCTGGAGCACGCTCTCGGGGG
 TGAGCTATTTCGACTACCTGGTAAAGAAGGGGAGACTGACGCCCAAGGAGGCCGAAAGTTCTTCCGCCAGATTG
 GTCTGCGCTGGACTTCTGCCACAGCTACTCCATCTGCCACAGACCTAAAGCCCGAGAACCTGCTTTTGGATGA
 GAAAAACAACATCCGCATTGCAGACTTCGGCATGGCGTCCCTGCAGGTGGGGGACAGCCTCCTGGAGACCAGCTG
 CGGGTCCCCCATTATGCGTGTCCAGAGGTGATTAAGGGGGAAAAATATGATGGCCGCCGGGCAGACATGTGGAG
 CTGTGGAGTCATCCTCTTCGCCCTGCTCGTGGGGGCTCTGCCCTTTGATGACGACAACCTCCGCCAGCTGCTGGA
 GAAGGTGAAACGGGGCGTCTTCCACATGCCCACTTCATTCTCCAGATTGCCAGAGCCTCCTGAGGGGAATGAT
 CGAAGTGGAGCCCGAAAAAAGGCTCAGTCTGGAGCAAATTAGAAAATCTTGGTACCTAGGCGGAAACAGCA
 GCCAGACCCGTGCTTGGAGCCAGCCCTTGCCGCCGGGTAGCCATGCGGAGCTTGCCATCCAACGGGAGAGCTGGA
 CCCCAGACCTCCTAGAGAGCATGGCATCACTGGGCTGCTTCAGGACCGCGAGAGGCTGCATCGCGAGCTGCGCAG
 TGAGGAGGAGAACCAGAAGAAAGATGATATATTATCTGCTTTTGGATCGGAAGGAGCGGTATCCCAGCTGTGAGGA
 CCAGGACCTGCCTCCCCGGAATGATGTTGACCCCCCCCCGGAAGCGTGTGGATTCTCCCATGCTGAGCCGTACGG
 GAAGCGGCGACCAGAGCGGAAGTCCATGGAAGTCTTGAGCATACCGATGCCGGGGGTGGTGGCTCCCCGTGACC
 CACCCGACGGGCCTTGAGATGGCCAGCACAGCCAGAGATCCCGTAGCGTCAGTGGAGCCTCCACGGGTCTGTCT
 CTCCAGCCCTCTAAGCAGCCCAAGGAGTCCGGTCTTTTCTTTTACC GGAGCCGGGGGCTGGAGATGAGGCTCG
 AGGCGGGGGCTCCCCGACTTCCAAAACGCAGACGCTGCCCTTCTCGGGGCCAGGGGTGGGGGCGCCGGGGAGCA
 GCCCCGCCCCCAGTGCCCGCTCCACACCCCTGCCCGCCCCCAGGCTCCCCGCGCTCCTCTGGCGGGACCCC
 CTTGCACTCGCTCTGCACACGCCCGGGCCAGTCCACCGGGACCCCGGGGACAACACCACCCCCAGCCCCGG
 CGGTGGCGTGGGGGAGCCGCTGGAGGAGTCGTCTCAACTCCATCCGCAACAGCTTCTTGGGCTCCCTCGCTT
 TCACCGGCGCAAGATGCAGGTCCCTACCCTGAGGAGATGTCCAGCTTGACGCCAGAGTCTCCCCGGAGCTGGC
 AAAACGCTCCTGGTTCGGGAACCTTATCTCCTTGGACAAAGAAGAACAAATATCTCTGTGCTAAAGGACAAACC
 TCTACGAGCATCAAAGCAGACATCGTCCATGCCTTTCTGTGATCCCCAGCCTGAGTCACAGTGTGCTGTACA
 GACCAGCTTACAGGGCCGAGTACAAGGCCAGTGGCGGGCCCCCTCCGTCTTCCAAAAGCCCGTCCGCTTCCAGGTGGA
 CATCAGCTCCTCTGAGGGTCCAGAGCCCTCCCCGCGACGGGACGGCAGCGGAGGTGGTGGCATCTACTCCGTAC
 CTTCACTCTCATCTCGGGTCCCAGCCGTCCGGTTCAAGCGAGTGGTGGAGACCATCCAGGCACAGCTCCTGAGCAC
 TCATGACCAGCCCTCCGTGCAGGCCCTGGCAGACGAGAAGAACGGGGCCAGACCCGGCCTGCTGGTGGCCCCACC
 CGGAAGCTGCAGCCCCACCCGGCCGCCAGACCCAGAGCTGAGCAGCTCTCCCCGCGGAGGCCCCCCCAAGGA
 CAAGAAGCTCCTGGCCACCAACGGGACCCCTCTGCCCTGACCCCCACGGGGCCGGGAGGGGAGGGGACCCCCCTCC
 ACCCCCCCTTCCGTGCCCCCAACTGTGAATCTGTAATAAGGCCCAAGGAACATGTGCGGAGGGGGGTGGACACA
 AAAACCGGCCTTGCCCTGCAGGGATGGGGCTCCACAGGCCGTGCCCACTGGGGTGTTCTAGGGGAACAGGGG
 GCGGGGGAGCTGTTTCTATTATTTAGTAATTATTTATTTATTTATTTAGTCAATCTCTCGCGGGTGG
 GTGGGGGAGGGACGGGAGCTGTTTGGGTGGCTTATGAGATTCGGACAGGGCCCTCTGTCCCTGTGTCTGCC
 AACCCCTCTTCCCGGGGCCCTCCTCCCTTGGTCTCCCCCAGACCTTCTGTACGGATTGTCTCCGGAAGG
 AATTCTGGTTTCGCGTGATCCTGCCTGCGTCCGTGTCTCTGATTCCGCGGGCGGC

3130/5332
FIGURE 2742

GCCGAAGGAGGCTGTGGGAGGTGTTGGCGGCGGCGGCGGCGGCGCCTGAGGAGGAGGAGGAGAAGCGGGATGAGA
TCGTGGGGCTCACCAGCGTCCCCCATGGCTTCTGAGTAGCGTGGGAGTGGAGTCAGCACCAAGCCAGGCTCCCCG
CGCCTGCCTTGCCCTCACCTGCTCCTGCTCTCTGCCAGAGGCAGCATGGTCCGCAGGGCACCATGGGGCCCGACA
GAGTGACAGCACGAGAACTGTGCGAGAACGACGACCTGGCCACCAGCCTCGTCTGGACCCCTACCTCGGTTTCC
GCACCCATAAGATGAACGTCAAGTCTATCGCTACCTCCGTGCCTTCCCTGCCGAAAGTGGCTTACCATCCTGCC
CTGCACGCGCTACTCCATGAGACCAACGGGGCCAAGATCGTGTCCACTCGTGCTTGGAAAAAGAAATGAGAAGCT
GGAGCTGCTGGTGGGCTGCATTGCAGAGCTGCGGGAGGCAGATGAGGGGCTGCTGAGGGCCGGTGAGAATGACTT
CAGCATCATGTACTCAACCCGCAAGCGGAGTGTCTAGCTGTGGCTGGGCCAGCCGCTTCATCAACCATGACTG
CAAACCCAACTGCAAGTTTGTGCTGCAGATGGGAACGCAGCCTGCGTGAAGGTGCTCCGGGACATTGAGCCTGG
GGACGAGGTGACATGCTTCTACGGCGAGGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCCACACCTGTGA
GAGGAAAGGTGAAGGAGCTTTCGAACACAGGCCTAGGGAGCCCGCGTTGCCACCACGGCCCCCTGGACAAGTACCA
GCTGCGTGAGACCAAGCGGCGGCTGCAGCAAGGCCTGGACAGTGGCAGCCGACAGGGCCTGCTGGGCCCTCGGGC
CTGCGTGACCCATCCCCGCTGCGCCGGGACCCATTCTGCGCCGCTGCCAGCCCCCTGCGCCTGCCAGCCTGCAG
CGCCCGCCAGACACCTCACCCCTCTGGCTCCAGTGGCTGCCTCAGCCCCAGCCCCGAGTGCGGCCCCGGAAGCG
CCGACGCCCCCGGCCCGGAGGGCCCCAGTGTCTCCACCCACCACGCTGCCCGCGTCTCCCTGCACCGATGGGG
AGGCTGTGGCCCCCACTGCCGCTGCGAGGAGAGGCCCTGGTGGCCCTGGGCCAGCCCCCCCCACGCCGCTGGGC
CCCTCAGCAGGACTGGCACTGGGCCCGGCGCTATGGGCTGCCTTACGTGGTGGTGTGGACCTTCGTCGCTGGC
CCCAGCCCCACCAGCTACCCAGCCCCCTGCTGGGACCCAGGCCCATCCTGATCCCAGAGGCCCTCGCCTT
CGCCCCCTTCTCCCCACCAAGCGCTACGGCTGGTGGTTCAGCCACGGCTCCATCGACCTGGATGTGGCGGTGA
AGAGCTGTGACAGGCCGGACGGGGAGGCCAGCAGGGAGAGAGGGTCTCTCTCCTAGCTGCTACCCAGGACCTCC
AGAAGGAGCCCTTGACCTCTGGGAGGGAGCTGACCCTTGACTCCAGCATAGCTCTGACCTGGAATGGGGTTGG
TTTGACACCCCCAGGGATCTGAGCCCTGACCCCTTGACTGCTGACCCCTGAGCCACCCCACTCCACAGGG
AGCCCCGGCCATTTGCTGCCCTCCCCACCCCTGCCCCAGCCTCAGGACTGCAGGAGCCATCCGCCCCCTCAGCC
CCTTCTCCCCAGGGAGCAAAGCCATAAGGGGCGAGGGGCCACCCACGGCATCTCCCCAGAAGTACAGGCCTCAG
GAGGAGGTGGAAGTGTAGGGGGTGGCACTCCCCAGAGACTGCCCTCACGAGGGGACTGGGTTGCTCTCAGC
TCTGCAGCTGTCTGCGGTGGGGGAAGGTTGGGGGTGTCTGGAGGCATGTTCCCTCACCACCCCCGTGGGTC
TCAGGGAGGCCGGGTGTGACCTCATCTTCTCATGGTGTATCCTGGTGTATTGGGGTGGGGAGCTCCCTCCCC
TCCCCACACCAGAAAGGGGTATGTTGGGGCTTGGGAAGCACTTGAACTTTTTATTTATTTAAAACCTTGTTATA
AGCAGC

3131/5332
FIGURE 2743

GAAGGGTTAAAGGCCCCGGCTCCCTGCCCCCTGCCCTGGGGAAACCCCTGGCCCTGTGGGGACATGAAGTGTGTT
TGCCGCCTGGTTCCTGGTTCGTGCTGAGCCTGTGGCCAGATACAGCTGTGCCCCCTGGGCCACACCTGGCCCCCT
CGAGTTTCCCCAGACCCCTCGGGCCGAGCTGGACAGCACCGTGCTCCTGACCCGCTCTCTCCTGGCGGACACGCGG
CAGCTGGCTGCACAGCTGAGGGACAAATTCCCAGCTGACGGGGACCACAACCTGGATTCCCTGCCACCCCTGGCC
ATGAGTGCGGGGGCACTGGGAGCTCTACAGCTCCCAGGTGTGCTGACAAGGCTGCGAGCGGACCTACTGTCTTAC
CTGCGGCACGTGCAGTGGCTGCGCCGGGCAGGTGGCTCTTCCCTGAAGACCCCTGGAGCCCCGAGCTGGGCACCCCTG
CAGGCCCGACTGGACCGGCTGCTGCGCCGGCTGCAGCTCCTGATGTCCCGCCTGGCCCTGCCCCAGCCACCCCGG
GACCCGCGCGGCCCGCTGGCGCCCCCTCCTCAGCCTGGGGGGGCATCAGGGCCGCCACGCCATCCTGGGG
GGGCTGCACCTGACACTTGACTGGGCCGTGAGGGGACTGCTGCTGCTGAAGACTCGGCTGTGACCCGGGGCCCAA
AGCCACCACCGTCCTTCCAAAGCCAGATCTTATTTATTTATTTATTTTCACTACTGGGGGCGAAACAGCCAGGTGA
TCCCCCGCCATTATCTCCCCCTAGTTAGAGACAGTCTTCCGTGAGGCCTGGGGGGCATCTGTGCCTTATTTAT
ACTTATTTATTTTCAAGGAGCAGGGGTGGGAGGCAGGTGGACTCCTGGGTCCCCGAGGAGGAGGGGACTGGGGTCCC
GGATTCTTGGGTCTCCAAGAAGTCTGTCCACAGACTTCTGCCCTGGCTCTTCCCCATCTAGGCCTGGGCAGGAAC
ATATATTATTTATTTAAGCAATTACTTTTCATGTTGGGGTGGGGACGGAGGGGAAAGGGAAGCCTGGGTTTTGT
ACAAAAATGTGAGAAACCTTTGTGAGACAGAGAACAGGGAATTAATGTGTCATACATATCCACTTGAGGGCGAT
TTGTCTGAGAGCTGGGGCTGGATGCTTGGGTAACCTGGGGCAGGGCAGGTGGAGGGGAGACCTCCATTACAGTGGA
GGTCCCAGTGGGCGGGGCAGCGACTGGGAGATGGGTGGTCAACCCAGACAGCTCTGTGGAGGCAGGGTCTGAGC
CTTGCCCTGGGGCCCCGCACTGCATAGGGCCTTTTGTGTTGTTTTTGTGAGATGGAGTCTCGCTCTGTGCTTAGGCT
GGAGTGCAGTGAGGCAATCTGAGGTCACTGCAACCTCCACCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTC
CCGATTAGCTGGGATCACAGGTGTGCACCACCATGCCAGCTAATTATTTATTTCTTTTGTATTTTGTAGTAGAGA
CAGGGTTTCACCATGTTGGCCAGGCTGGTTTCGAACCTCCTGACCTCAGGTGATCCTCCTGCCTCGGCCTCCCAA
GTGCTGGGATTACAGGTGTGAGCCACCACACCTGACCCATAGGTCTTCAATAAATATTTAATGGAAGGTCCACA
AGTCACCTGTGATCAACAGTACCCGTATGGGACAAAGCTGCAAGGTCAAGATGGTTCATTATGGCTGTGTTTAC
CATAGCAAACCTGGAAACAATCTAGATATCCAACAGTGAGGGTTAAGCAACATGGTGCATCTGTGGATAGAAGGCC
ACCCAGCCGCCCGAGCAGGGACTGTCATTACAGGGAGGCTAAGGAGAGAGGCTTGCTTGGGATATAGAAAGATAT
CCTGACATTGGCCAGGCATGGTGGCTCACGCCTGTAATCCTGGCACTTTGGGAGGACGAAGCGAGTGGATCACTG
AAGTCCAAGAGTTCGAGACCGGCCTGCGAGACATGGCAAAACCCCTGTCTCAAAAAAGAAAGAATGATGTCTGAC
ATGAAACAGCAGGCTACAAAACCACTGCATGCTGTGATCCCAATTTTGTGTTTTTCTTTCTATATATGGATTAAA
ACAAAAATCCTAAAGGGAAATACGCCAAAATGTTGACAATGACTGTCTCCAGGTCAAAGGAGAGAGGTGGGATTG
TGGGTGACTTTTAAATGTGTATGATTGTCTGTATTTTACAGAATTTCTGCCATGACTGTGTATTTTGCATGACACA
TTTTAAAAATAATAAACACTATTTTGTAGAAT

3132/5332
FIGURE 2744

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT
TCCTTCCGCTACAACGGACTGATTCACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTGAGCCCCCTGCCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCA

3133/5332
FIGURE 2745

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGCGCAGCC**ATGA**ACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTCGGGCCCTGGCCAGTGGCACTGAAGCTTCTCCACCG
ACCTTGGGGCCCCAGGGGGCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGCGGCTG**TACT**TGGGCTCTCTTCTCCTTCCAC
CGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

3134/5332
FIGURE 2746

AATTCCTTTCATTTTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTTTTCTGGGCCTCTTCTTCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTGCAAACTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTGTGTACATCATCTCTTCACTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTGAAAAAGGTAATGTCCCTCTTGTGCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTTAGGTTCCCTTATCTCTCTGAGCCTTGGGCTTCCGCTATCTTGGGACGCTCTGGTCTTCT
GGCTTCCCCGGTTCTTCTGCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGAGCCTTCGTCGGGAGTCG
CCCCATCTCTCCACGCATCGGGGCCCTGTGCCCTTGTGCTGTCAGCCGGGCACCATGTCGACCTCGTCTTGTAG
GCGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTCGAGAGGCCACGAGCAATGACCC
CTGGGGCCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCAT
GAGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACTTTACAAGGCCATGACGCTGATGGA
GTACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAACATGTACGCCGTGCAGACGCTGAA
GGACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGC
CCTGTGCGCGACGAGGACCGGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGAC
CGCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGAGAGCAGCGG
GGAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCCCGCTCTGCGGCC
CGAGGACGACGCCCAGCTCCAGCTGGCCCTTAGTTTGTAGCCGAGAAGAGCATGATAAGGAGGAGCGGATCCGTCG
CGGGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCTGTCCT
CATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCCGACCACAGACCCCTGGGGGGGCCAGCACCCAT
GGCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAGCTGCTGATCC
CTGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGACCCCTGGAGGCCTGTGCCCCCTGCAGGACCCCTCAGTTGA
CCCTTGGGGTGGGACCCACGCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGG
GGTCCCGGTCAGTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCGGCCCTTCTCAGATCCCTGGGGAGGGTC
ACCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGGATTGACACGGAGCCCAGCAGTTCTCTGACTT
TGACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCC
GGCCCGAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACC
TGCAGCCACACCAACTCCCACGCCCCCACC CGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCTCGT
CGACCTGGACTCGCTGGTGAGCCGGCCGGGGCCCCACGCCCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGG
CGGAGGCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCCGCGCCTCCCGCAGCCTCACCTGAACCA
GCTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGG
CCTGCCCCCATGATGCCCCGGGGCCCCCGGGCCCCAACACTAATCCCTTCTCTCTATTAATCCAGGGCGGAAGG
GGGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTGTGAGTGCATGTGAAATGG

3135/5332
FIGURE 2747

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCCTCAGC**ATGT**CGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAAATAACAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTTCTTCAACGCCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTGGCAACCCAGTGTT
GGCTGTGCAGATTAAACCAGGACAAGAATTTTGCCTTTGGAGTTCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCTGG
CATGTCAGAGAACCCCTCCGCTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCCCACAAGCTGTT
CATCGGGGGCTTACCCAACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGACGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTTAC
CTCTGTGTTTACTGCCAGAAAGCCATGCAGGGCCTGACGGGCCGCAAGTTCGCCAACAGAGTGGTTGTCACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGT**TAG**AGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCAG
ACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGGGCGGGGGTTGGGGGGTTGGGGGGTTA
GGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCACACAGACAACACGCAC

3136/5332
FIGURE 2748

GGGCGGCGGGAGGGGCTGGACCGCGTGGAGGGCCTCAGCCAGCCCTCCGGATGCTGGTGCTGCCATCCCCCTGCC
CTCAGCCTCTGGCATTTCCTCCGTTGAGACCATGGAGGGCCCTCCCCGTCGGACTTGCCGCTCCCCAGAACCTG
GACCTTCCTCCTCCATCGGATCTCCCCAGGCTTCATCTCTCCAAGGCCCAACCACTACCTGCTTATTGACACTC
AGGGTGTCCTTACACAGTGCTGGTGGACGAGGAGTCACAGAGGGAGCCAGGGGCCAGTGGGGCTCCAGGCCAGA
AAAAGTGCTACAGCTGCCCCGTGTGCTCAAGGGTCTTCGAGTACATGTCCTACCTTCAGCGACACAGCATCACCC
ACTCGGAGGTAAAGCCCTTCGAGTGTGACATCTGTGGGAAGGCATTCAAGCGCGCCAGCCACTTGGCACGGCACC
ATTCCATTACCTGGCGGGTGGTGGGCGGCCCCACGGCTGCCCCGCTCTGCCCTCGCCGCTTCCGGGATGCGGGTG
AGCTGGCCCAGCACAGCCGGGTGCACTCTGGGGAACGCCCGTTTCAGTGTCCACACTGCCCTCGCCGCTTTATGG
AGCAGAACACACTGCAGAAACACACGCGGTGGAAGCATCCATTGAGCCGGGCTGCCGGGTGCCCCAGGTACCACAG
GACTTTGCAGGGAGCCTGGACTCCTGTCCAGA

3137/5332
FIGURE 2749

GCGCCGGCCCCGTTGCCCCCGCGCGCGGCACACTCGCGAGCCCCGGCGACATGCAAATGAGCTGGCTCCAGTGC
CCAGACCCAAGCCCCCACTGCTCAATGGACACCCCCAGCCCAGACCCGTTGCCTTCGCCTTTGCCCGGGGAGGA
AGAGAAACCTCTGGCCTTATCTCCTCCTGTTCCCCGGGGCCGCCGAGGCCGTCGTCCTGGGGGAGCCACCTCCTC
AAATCGGACACTCAAGGCCTCCCTCCCTCGCAAGCGGGGCCGCCCCCAAGTCAGGGCAGGAGCCCCCACTGGT
GCAGGTGCAGGGGGTGACAGCCCCAGTAGGCAGCAGTGGCGGGAGCGACCTCCTCCTGATCGATTGATCAGGGTGT
GCCCCTATACGGTCTCTGAAGGTTCAAGCGCTGGGCCTGAGGGCTCTGGCCCCAGGAAGGCCCCACACTTCTGCCC
GGTGTGCCTGCGGGCCTTCCCCTACCTCTCCGACCTGGAGCGCCACAGCATCTCGCACTCAGAGCTGAAGCCGCA
CCAGTGCAAGGTTTGCGGCAAGACCTTCAAGCGCTCCAGCCACCTGCGGCGGCACTGCAACATCCATGCCGGCCT
GCGGCCCTTCCGCTGCCCGCTGTGCCCCCGCCGCTTCCGCGAGGCGGGCGAGCTGGCGCACCACCACCGCGTGCA
CTCGGGGGAGCGCCCGTACCAGTGCCCCATCTGCCGGCTGCGCTTTACAGAGGCCAACACGCTCCGGCGCCATGC
GAAGCGCAAGCACCCGGAGGCCATGGGGGTACCCCTGTGTGCACCAGATCCAGGGTCTGAACCGCCGTGGGACGA
GGAGGGCATCCCCGC

3138/5332
FIGURE 2750

GTGGAAGTGACGCTGCCCCGCTGCCCAAAATGTGGCGCCAGAGGGAGGTAGAGAGCCCCACATACCACTGT
ATCCCCCGCCACCATGGATGACGTCCCCGCCCAACCCCTGCACCAGCACCGCCCGCCGCTGCCGCCCCAGGGT
CCCGTTTTACTGCAGTGAATGTGGCAAGAGCTTCCGCTACCGCTCAGACCTGCGGCGCCACTTTGCCCGGCACAC
AGCGCTCAAGCCCCACGCATGTCCGCGCTGCGGCAAGGGTTTCAAGCACAGCTTCAACCTAGCCAACCACCTGCG
CTCGCACACCGGGGAGCGGCCCTACCGCTGCTCTGCCTGCCCAAGGGGTTCGCGGACTCCACCGGCCTGCTGCA
CCACCAGGTTCGTCCACACTGGTGAGAAACCCTACTGCTGCCTGGTCTGCGAGCTCCGCTTCTCCTACGCTCCAG
CCTGGGCGCCACCTCAAGCGCCAGCACCGTGGGGTTCTCCCTCTCCCTGCGAGCCCGGCCCTGGCCTGCCCGC
CTTGAGTGCGCCCTGCTCCGCTCTGCTGCAATGTGGGGCCCTGCTCGGTGTGCGGGGGCTCAGGGGCCGCGGCGG
AGAGGGCCCCGAGGGGGCAGCGCGGGTCTGGGCAGCTGGGGGCTGGCAGAGGCGGCAGCTGCGGCCGCGGCCCTC
CTTGCCCCCATTTGCGTGCGGCGCCTGCGCGCGCGCTTCGACCACGGCCGCGAGCTGGCGGCCCACTGGGCGGC
GCACACCGACGTGAAGCCCTTCAAGTGCCCGCGCTGCGAGCGCGACTTCAACGCGCCCGCGCTGCTGGAGCGGCA
CAAGCTGACGCACGACCTGCAGGGCCCGGGCGCGCCCCAGCGCAGGCCTGGGCGCGGGGGCAGGCGCAGGGCC
CGAGACGGCGGGCGAAGGCACCGCTGCGGAGGCGGGCGACGCTCCTCTGGCTTCGGACCGCAGGCTGCTCCTGGG
CCCCGCGGGGGCGGCGTGCCCAAGCTCGGGGGGTGCTCCCCGAGGGCGGTGGGGAGGCGCTGCACCTGCGGC
GGCCGCCGAGCCCTCGGAAGACACCCTGTACCAGTGCAGCTGCGGGACCTTCTTTGCGTGGCCGCGGCCCTGGC
CAGTCACCTGGAGGCCCACTCGGGCCCGGCCACCTACGGCTGCGGCCACTGCGGGGCTCTGTACGCGGCGCTGGC
CGCCTTGAGAGGACACCGCGGGTCAGCCACGGTGAGGGCGCGGGGAGGAGGCGGCGACCGCCGCCCGGAAAG
GGAACCGGCGTCCGGGAACCCCCGTCTGGCTCCGGCCGCGGCAAGAAGATCTTCGGCTGCTCCGAGTGCGAGAA
GCTGTTCCGCTCACCGCGAGACCTGGAGCGGCACGTGCTGGTGCACACTGGCGAGAAGCCGTTCCCGTGCTGGA
GTGCGGCAAGTTCTTCCGCCACGAGTGCTACCTCAAGCGCCACCGGTGCTGCACGGCACCGAGCGGCCCTTCCC
TTGCCACATCTGCGGCAAGGGCTTCATCACGCTCAGCAACCTCTCCAGGCACCTGAAGCTGCACCGGGGCATGGA
CTGACTGCCAGGCTGCGTGCGCCCTGCCCTCCACCCAGCCTCCTGGACTCGGCCTGGACCAGGGGACCTCGGGAC
TGCGCGTGAGGCCCCGGCCCTCAAATCCAAATCCAGACGCAGGCCCTGAAATGAGGGGACCTGACTGGAGAGG
TGGGGGCCACAAAAACCAAAAGGCCCCGGAGCTGGGGGACCACAAACAAACAGGGTCTTAGCTGGGGCAGG
GGAGCCCAAATCTAGGGAGAGACTCCTGAGCCTGAGGTCCCTGGAATGAGTGTGGGTAGCCGTAAGTCCCCAAGA
CATGGGGACTTTGCAGTGAGCAATGGGTCTCCACAAGTACCTCTCATCTTGAGAGCCCTAATACTAAAAGATGGG
CACCCACCCCAACCAAGGAAGACTGCCCCATTCCCTGAGAGCCATCATTCCTAACGACCTTGATCTGGAGAATG
TGGAGGGAGCATGTCCCTGAATTTTCTAGATCCCTCAAATGCCACCCACCAGAGTCACTGGTGACCCAGAAA
ATGGATATAGCCGAAATCTGCCTTTCCCTTTTTTCATTCCCTGTGCTGAAAGAGGGACCAGGGTAGATGCCCCCT
GCCCTCGAATCCCCCTCCCCGACTGTGGAATGGATCGACCCTAACGATCTTCCCCGCCCAACACTAGAATAG
ACTGGCCTGAAATCCCTTGCCAGTAGAATGGACTGATCTATGTGCACACACCCCATCACATGGAATGGGCTG
GTCTAGGCTGTGGCTGCCACCTTCCTTAGAGTGAATAGGGCGGACACTCCTCTCTTTTCTGTAGCGTGTGGAC
CGGTCCACGCAATTCTTTATCCTGTGAATCATCTGAGTGGGAGGTGGTGGACACTGGGGTTTCTTCCCTCTCT
CCGTAGCATCCGTTGGTCTTTCTCTCCATCTCTGTTGGTTTGTCTGTCTCTGCTTCTCCTCCCAATCCCTAGGGGA
AGGGGGCATTTGGCTAGGGGGTGCCCTGTGAGCCTCGACCTTGCCCCCTCGTCCCTCTCCCCAGTGTTCAGG
ACCCCAATAAACCTTGTCCTGTC

3139/5332
FIGURE 2751

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCC**ATG**GGCCCCAGCCACCTGTCAAGTGCAGGAGATGAGGGAAGATGAGAAGCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAAAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCGCGCTTTGTCTTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTACCCGCGCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGCGATGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGT**GCA**AGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTGAGCAGTGTGAAGTCTGTTGTGTTGAGCT
TCTCAGAGTGGAATGACTCCTTTTCCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCGACTCCGCCTCCCTG
GGACCTGGATTGGGTCAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

3140/5332
FIGURE 2752

ACCAGCGCGTGACACGGGCGAGCGGCCCTTCCGCTGCCCCTCTGCCCCAAGACCTTCACCCACTTCTCCAACC
TGCTGCTGCGCGGGCCCCCGCCAGCCACCCAAGATGTCCACGTCCTGCCCCACCTCCAGGCCACGCTCTCCCTCGA
GGTGGCGGGGGGACGGCCAGGCCCCGAGCTTGGGGCCAGCAGCGCCCAACTCTCAGACGTTCCCTCCTGGTGCA
AACTGCCCCAGGGCCTCCAGCTGATCCCCAGCAGCGTGAGCCCCCTACACCTCCGCCCCCTCCCGCACCTCCCAA
GCTCATCCTGCTGCCCTCCTCCAGTGCTGGGGCTGGGGGCGGCCGTGCAAGGCAGGGCCCGGGGCAGTGGGGAA
AGCGGGCCAGGGGGCGGGAGTGGTCTGGCTGCCAGGCCCTGGGGGTCTAGGGGTGCAGGGAGCGGCCAGCGCTGG
GGCCAGCGGGACAGGGCAGAGCCTCATCGTTCTGCAGAATGTGGGGGTGGGGAGGCAGGGCCACAGGAAATGAG
TGGGGTGACAGTCCAGCCCCCTCCGACCAGCCCCAGAAAGTAACCACGGTCCAGCTCCAGCCAGCGCAGGAGGTGAC
CACAGTCCAGCTCCAGCCAGCACAGGAAGTAACCACGGTCCAGCTCCAGCCAGCACAGGAGGTGACCACGGTCCA
GCTCCAGCCCCGTGGCCGGCCAGCTCTCCAATTCCAGTGGGGGAGCTGTGGCTACTGAGGCACCCAACTGCTGGT
TGTTCCAGAGCGGGGACAGTGAAGAGTTGCTCACTGGCCCCGGCCCCGGGGAGGCGGGGGATGGCGAGGCCAGCAC
TGGTGTGGTCCAGGATGTCTCTTTGAGACACTCCAGACGGACGAGGGCTTGCAGAGCGTGCTGGTGCTGAGCGG
GGCCGATGGCGAACAGACTCGACTCTGCGTACAGGAGGTAGAAACACTTCCTCCTGGGCTGACGGAGCCGCCTGC
CACCGGCCACCCGGACAGAACTCCTCATCATCCGACGCGCCCCAGCCACTGAGCTGCTGGACAGCAGCAACAC
TGGAGGAGGCACCGCCACGCTGCAGCTCCTGGCCCCACGCCGTAGGCCAGCCTCGGGCCCCGCGGGGCTCCC
CGGGGCTCCAGCCTCCCAGATGGTGCAAGTGGTCCCCGAGGAGCTGGGCCCTGGTGTTATGACCCCTCAGGGCCT
GCCCTCCATCCAGATTGTCCAGACTCTACCCGAGTCCAGCTGGTGCACACGTTTTGAGGAGAGGCAGTGATTCC
CCTCCCGCCCCGCACAGAGACCCCGACTCACTGCCAGCCGGGGCGGGGCAGGGTGCCGCAGGCTGGGCTTGCTAA
TAAAGACCCGAGTCTCCCCGCC

3141/5332
FIGURE 2753

CCTAACGAAACGGTAACCAGCCCTGGGAAGCCCGCAAGAGGCCTCAGCGGTGGCCGTCCGAGAGCCGAGAGGTGA
GGGTGCCCCCGCCTCACCTGCAGAGGGGCCGTTCCGGGCTCGAACCCGGCACCTTCCGGAAATGGCGGCTGCCA
GGCCCAGCCTGGGCCGAGTCCTCCCAGGATCCTCTGTCTGTTCCTGTGTGACATGCAGGAGAAGTTCCGCCACA
ACATCGCCTACTTCCCACAGATCGTCTCAGTGGCTGCCCCGATGCTCAAGGTGGCCCGGCTGCTTGAGGTGCCAG
TCATGCTGACGGAGCAGTACCCACAAGGCCTGGGCCCCACGGTGCCCGAGCTGGGGACTGAGGGCCTTCGGCCGC
TGGCCAAGACCTGCTTCAGCATGGTGCCTGCCCTGCAGCAGGAGCTGGACAGTCGGCCCCAGCTGCGCTCTGTGC
TGCTCTGTGGCATTGAGGCACAGGCCTGCATCTTGGACCCCGTTCTTATCCGGGGTTGGCCCTGACCTCTCTCT
ACCCACAGAACACGACCCCTGGACCTCCTAGACCGGGGGCTGCAGGTCCATGTGGTGGTGGACGCCTGCTCCTCAC
GCAGCCAGGTGGACCGGCTGGTGGCTCTGGCCCGCATGAGACAGAGTGGTGCCTTCTCTCCACCAGCGAAGGGC
TCATTCTGCAGCTTGTGGGCGATGCCGTCCACCCCAAGTTCAAGGAGATCCAGAACTCATCAAGGAGCCCGCCC
CAGACAGCGGACTGCTGGGCCTCTTCCAAGGCCAGAACTCCCTCCTCCACTGAACTCCAACCCTGCCTTGAGGGGA
AGACCACCTCCTGTACCCGGACCTCAGTGGAAGCCCGTTCCCCCATCCCTGGATCCCAAGAGTGGTGGCATC
CACCAGGAGTGCCGCCCCCTTGTGGGGGGGGCAGGGTGCTGCCTTCCCATTGGACAGCTGCTCCCGGAAATGCA
AATGAGACTCCTGGAACTGGGTGGGAATTGGCTGAGCCAAGATGGAGGCGGGGCTCGGCCCCGGGCCACTTCAC
GGGCGGGGAAGGGGAGGGGAAGAAGAGTCTCAGACTGTGGGACACGGACTCGCAGAATAACATATATGTGGC

3142/5332
FIGURE 2754

CTTCGCGGCCGAGATGGACCCTGGGCTCGGCGTCCTCCGAAAACTGCACTGTGAGGCGGGGCGATGGGGAAGGG
CCGAAGCCCCGCCAGCCAGCTAAAGCAGACGGCTCGCACTGCGACCCGAAGCGCGAGTCATGGCTGGGGCCTTA
GTGGCAACAAGTGCTGAGATCAGCGGGCTCAGTAGCAGGAACACAAGCACCCCTTGCGGTGTCTGGAGGAAGCG
GCGCGGACAGTCTCCCGCTCCACCGTGTGCGGCCCTGAAGAGGCCGCTGAACGCTCGCGATTACTGAGGCATCTGG
TAGGATCGCAAGGCCATCAACCTACAGGTGAAGCTCGAGGCGCTGTGGCGCTTTGAAGCCGGAGAGAAGCTCAGT
AGAATCGGGAAGGCGCTGGGGCTGTCCAACCTCCACCTTGCCACCATTCTGTGACAACAAGGAAAAGATCTGGGCG
AGTTCCCAGGAGGCCACACTGCAGGCGGCCACCAAGTTGACGCGTGGCCGAGCCTGGTGATGGAGAACATGGAG
CAGCTGCTGAGCATGCGGATGGAGGACCAGAGCCAGCGCAACATGCCCCCTCAGTGTGGTGCTCATTTCGGGAGAAA
GCCACAGCCCGTTTCGAGAACCGCAAGCAGGAGCAGGGCGAGGGCGCCTAGCCCCGAGAGCTTCGGGGCCGGTCTGA
GGGTGATTTCGCTGGCTTTAAGGCGCGCCACAGCTTGAGCAGCATCGGGGCCAGCGGCCCAAGAACGCAGCGTGCA
AGAATCCAGCGTTAATGCGCAGGGTGATCCCGAGGGCGGCTACACACTCTGGCTGGTGTTACCATGAATAAGC
TCTGGCTGGTGTTACCATGAATAAGCCAGGTTCTCTGTAAAGCGCCTGCCGAGAGGACGTTTCAATTTCTGTG
GAAGATGAGTCGGCCCCCTGGGTCAAAGCCGCCGAGACCTCCTGACCCTATTGCTCGGTGGCAACGCAGCCGGCG
ACTTCAAGCTGAAGGCCCTGCTGGGGTACCCCTCGGAGAACCCGTGTTTCTCAAGGGCTCCTTCAAGCCCAACC
TGCCCTTGGTGTGGTGCTCGCACAAGAAAGCCTGGGTACAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAAAA
AAAAAAAAAAGCCTGGGTAACCATGAGCCTCTTCCAGGAGTGGTTCTGCACTTCTGCTCTACAGTGGAGGGCGC
TGACCCAGTACGACCTTCCCTACAAGGGGCTGCCATCCTGGACAGCACTCCCGGCCACCCTGGGTGTTGAGAC
AGAGTCTGGCTCTGTGCGCAGGCTGGAGTGCGGTGGCGGATCTCGGCTCACTGCAACCTCCGCTCCCGGGTT
CACGCCATTCTCCTGCCTCAGCCTCCAGGTAGCTGGGACTACAGGCGCCCGCCACCACGCCCCGGCTAATTTTTT
TGTATTTTTAGTAGAGACGGGGTTTACCGTGTTAGCCAGAATGGTCTCGGTCTCCTGACCCCATGATCCACCCG
CCTTGCGCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATGGTGCTGGCCCTTAATTCCCCAATATTTTTT
TATCTGCATTAATTTATTATTCAAGTGAACCTCCATCTCAAATACATGGTTCTCAGACGCTTC

3143/5332
FIGURE 2755

CAATACATAGGAACACTTGGGTCCCTGCAGTCAGGGTGTGGAAATGGCAGATGAGTTCAGCCCTAAGGTGCATTT
TTCTTACTAGGAGGAGATGGAGTGTATTTTATGGGATATAAGCATTAGCTACATTTCTGTCTGTTTACATCCT
TTGCCCATGTGTCTATGAGGTTATTGATCTTTCTTACTGATTTATTGTAGCTCTTACTTAGGAGGTTAATTAGC
CTTTTGCTGTGGAGAGTTTTTGGTTTGCCATTTGTCCTTTTTTAATTTTTTTGTTTTTGGCCATTTGTCTT
TTGACTCTGATGTGGTTTTTGTGCTGATTTCTTTGATGTATTCTAGTTTATCTGACTTTTCTTTGGCGACTTATGG
ACTTTCTCTCACCCTAAAAGCCCTCACTGCTCTCTCAGTCTTCTTGATTTAACCTCCTCCAGGCTTCCGCCTTC
TCCAGGCCCTGATTTCTCAGTTGGAGTTGCTGGTGCCCTCCTTCACCCAGCGCTGACGCTGGAGTGTCTACAG
TGTGGCTGGGACCCACTTCTCTCCTCTGTAGATACCCACCCCTGTGTTGATCACTTGCAGGCCCGGGTCTGTGT
GCCATGTGTATGCCCTAGAGCCCTTGCTCACGTTTCCCCACAGCCTTCATGAAGTCTGTGTTCTCTCAGATGCCCC
ACAGACATCACAAAGCAAGGCACATCCAAACCCAGACCCTATCCAGGAGCCTGCACCCTCTTTCTGTTGGCTCC
ACCTCCAGCCTCCGAGACCCACCCACTTCCCTGCATTTGCTGAGACCATCATTTCCACCTAGACAATGCCCCCA
CGCTTGCCCTACAGCCCTTCCAAAACGATTTTTTCCAACTAAATCAGACCTAGAAAGCTTTTTTACATAGCCC
AGTCTTCTCTCTTGTGCTGGGTCTGTCTCATTATCACCTCATCAGGGAAGTCTGTACAGATAGAATCCCTACCC
CTGCATTTGTGCGCTCCGTCTGCCCTTTGGTCAGTTTCAGGTCCCTGTAGTTCACACTGTGTCCCAGGGATGA
AGTGGGTCCCGGCACGGTGGGCATTCTGTCTGATGAATGAATGGTCCCTTGTGTATGCAGGGTTTCGCGCTGCAGCT
AGGCAGCATCTCCGCAGGTCCAGGTAGTGTAAAGCCCTCACCTCCACGTCCCTGGGACCTCGGCATGGCTGGCCT
TTCTGGCCAGATCCAATCACCCCTCCCGCAAGGTGGCTTTGCGCATGCGCTTCTGCTCCCCAGCGATCTGAGGAG
TGAACAGGACCCACGGACGAGGATCCCTGCCGGGGTGTGGGCCCTGCTCTGATCACCACCCGCTGGCGCTCCCC
CAGGGGCCGGAGCCGGGGCCGCCCCAGCACTGGGGGCCGGGTGGTTAGGGGCCGGCGTTGCGATGTATGTGGCAA
GGTGTTCAGCCAACGCAGCAACCTGCTGAGGCACCAGAAGATCCACACGGGTGAGCGACCATTCGTGTGCAGCGA
GTGCGGCCGCACTGTGGCCAGGGCTTCGTGCGCAGCGCGCGCTGGAAGAGCATCGGAGAGTGCACACGGGCGAACA
GCCTTTCCGTTGCGCTGAGTGCGGCCAGAGCTTCCGGCAGCGCTCCAATCTGCTGCAGCACAGCGCATCCACGG
CGATCCCCGGGCCCTGGCGCTAAGCCCCGGGCCCTCCTGGTGCGCCGAGCCTCCCGGCCCTTTCCGTGCGAG
CGAGTGC CGGAGAGCTTCGCGCGCGCGCCGTGCTGCTGGAGCACAGGCGGTACACACGGGCGACAAGTCCTT
TGGCTGCGTTCGAGTGC GGCGAGCGCTTCGGCCGCGGCTCAGTGCTGCTGCAGCACCGGCGCGTGCACAGTGGCGA
GCGGCCCTTCGCCTGTGCCGAGTGC GGCCAGAGCTTCCGGCAGCGCTCCAACCTGACGCAGCACCGGCGCATCCA
CACCGGGGAGCGGCCCTTCGCCTGCGCCGAGTGTGGCAAGGCCTTCCGCCAGCGGCTACGCTCACGCAGCATCT
CCGCGTACACACGGGCGAGAAACCTTTGCCTGCCCGAGTGTGGCCAGCGCTTCAGCCAGCGCCTCAAGCTCAC
GCGTATCAGAGGACACACACCGGCGAAAAGCCCTACCACTGCGGTGAGTGC GGCTGGGCTTCACGCAGGTCTC
GCGGCTCACCGAGCACAGCGCATCCACACGGGCGAACGGCCCTTCGCTGCCCGAGTGC GGCCAGAGCTTTCG
GCAGCACGCCAACCTCACCCAGCACCGGCGCATCCACACGGGTGAACGGCCCTACGCATGCCCTGAGTGTGGCAA
GGCCTTCCGCCAGCGGCCACGCTCACGCAGCATCTGCGCACCCACCGACGAGAGAAGCCCTTCGCCTGCCAGGA
CTGTGGCCGCCGCTTCCACCAGAGACCAAGCTCATTACGACCCAGCGCTCCACAGCGCCGAGTACCTCCAGCC
GGGACGCATGTGTCCGCCATGGTCAGAACACCTACCTCCCTGGTTATTGTGAGGCTGGCGATTACATAAGTAT
AAGCAGGTCCGCCAGGGCTTGGCTACTGTAGGTGTCCAATAAACAGTAGATGGAAAC

3144/5332
FIGURE 2756

AGGATGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGAGTCGGCGGGCGGCACCAAGGGCAGCAGC
AAGAAGGCGTCGGCGGCGCAGCTGCGGATCCAGAAGGACATAAACGAGCTGAACCTGCCCAGACGTGTGATATC
AGCTTCTCAGATCCAGACGACCTCCTCAACTTCAAGCTGGTCATCTGTCCTGATGAGGGCTTCTACAAGAGTGGG
AAGTTTGTGTTCAGTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGTC
TATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCCTTACG
ATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGGAGCCCAACCCCGAGGACCCACTGAACAAGGAGGCC
GCAGAGGTCCTGCAGAACAACCGGCGGCTGTTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATCGGC
TCCACCTACTTTGAGCGCTGCCTGAAATAGGGTTGGCGCATACCCACCCCGCCACGGCCACAAGCCCTGGCATC
CCCTGCAAATATTTATTGGGGGCCATGGGTAGGGGTTTGGGGGGCGGCCGGTGGGGGAATCCCTGCCTTGGCCT
TGCCCTCCCCTTCCTGCCACGTGCCCTAGTTATTTTTTTTTTGGGGAATGTTACTGC

3145/5332
FIGURE 2757

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTGGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTGCGATCATGGCAAAAGACTTGGTGCGCACCCGGCGCTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTCAAC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTGGAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAGCAGAGGCCGCAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCCTGCCACTCCGAGATAACCAG
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTGACACT

3146/5332
FIGURE 2758

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGGTGGTGGGGTTTCGGCGGGGCTGAGGAAGAAGCGC
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGGCGAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGGCGGGCGGGCGGCAGCGGCCAGCAGTTGGCGGCGAGCGCG
TCTGCGCCTGCGCGGGCGGGCCCCGCGCCCCCTCCTCCCCCCTGGGCGCCCCGGCGGGCGTGTGAATGCGGGCCTC
CGCGGCGGCAGCCTCGGCAGCAGCGGCCTCGGCCGCTCTGGCAGCCCCGGGCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTTCGGCCGAGCCTCGGCCTCTGCCTCAGCCGCGGCGTCTGCCCCGGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CTGTCTGCCCTGTTTGCACCTCGGCCTGTAGTGCTGTCTAGGGCCCCGCGGCCCGCCGCCAACAGCTCGGG
GGACGGCGGGGCGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCAGGATGCGAACCAAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAAGGAGTTTCGAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCGGTGTGCTGGTCAATGATGCCAGAGGTGACTGAGGGGCGAGCAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGTCTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCAGTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCACTAACTCAACAGGCCCTGCACCCATGGCCCCCTCCAAGAGCCCC
AGGGCCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTGAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCTGGACCTGGACCTCACAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCAGGCAGTACCAGTGGAGTACAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCTACTGCCACTGAGGGCCCTGAGACCAACCTGTGCTTAT
GGCTCTTGGCGAGGGTCTTGGTGTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCGGAACCCCTGGATGACAGTGCCACCATTGCGG
TGTCTGCCAGAAGCCAGGCGATCTGGTTATGTGCAACCAGTGTGAGTTTTGTTTCCACCTGGACTGTCACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACCAGCCGGTGGCACCTGGATCTGACCTGATCCGTGCCCGCTCCAGGAGAAGTTGTACCTCC
CTACAGCTCCCCACAGGAGTTTGGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCCAGGAGCTGTCTGG
TGGCCCTGGTGATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCAGCCTGGCTCTGTTCTCTGTCTGTCAACC
CCATCCCCACTCCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCAGTTCCTCACGATATGGTTTT
TACTTCTGTGGATTTAATAAAAACTTCACCAAGT

3147/5332
FIGURE 2759

GTGAGGGGGCTTGGGGGGCCTCGCCTGAGAGAGTGAGGACAGGCTGCGGGAGGAGCTGCAGGACTGAGGTACAGA
GGCCAGGGGGCCAGGGCAGGACCCAGCCTGGACTTGACTCCCTGGGATCCCAGGAAGGGCACACCCCTTTCTCAC
CACCCGAGTGAGCGCTGCCCCCTCACAGAGACCTCTTTGCCCCCTGGGCCAGGCAGAGCAGGCGCTGCGGTCCGG
GAGGCCCCATGAGGTGGCGGTGCCCCGTGAAGCAGGAGGCCGAGGGCCTGGCGCTGGACTCCCCGTGGCACCGCT
TCCGCCGCTTCCACCTGGGCGACGCGCCGGGCCCCGCGGGAGGCGCTGGGGCTGCTCCGCGCCCTGTGCCGGGACT
GGCTGCGGGCCGAGGTGCACACCAAGGAGCAGATGTTGGAGCTGCTGGTGCTGGAACAGTTCTTGAGCGCGCTGC
CCGCCGACACGCAGGCCTGGGTGTGCAGCCGGCAGCCGAGAGCGGGAGGAGGCGGTGGCCCTGCTGGAGGAGC
TCTGGGGGCCAGCAGCCTCCCCGATGGGTGCTCAGCAACGAGGGTGCCCTCAGGATGTGACGCAGGGCCCTGGGG
CCACAGGTGGAAGGAGGACAGTGGGATGATTCCCTTAGGCACCGCCCCCTGGGGCTGAGGGGCCGGCGCCTGGGG
ACTCCAGGCTGTGCGCCCTACAAGCAGGAGCCAGCAGCCCCCGCTGGCGCCTGGCCTGCCCCCTTCTAG
CGGCCCCGGGCACACGTCCTGCCCCGAGTGCGGCAAAACGTCCCTGAAACCAGCTCACCTGCTGCGCCACCGGC
AGAGCCACTCGGGCGAGAAGCCGCACGCCTGCCCTGAGTGCGGGAAGGCCTTTCGGCGCAAGGAGCACCTGCGGC
GCCACCGCGACACGCACCCCGGCAGCCCCGGCAGCCCCGGGCCCCGCGCTGCGCCCTCTGCCCCCGCTGAGAAGC
CCCACGCGTGCTGCGAGTGTGGCAAGACCTTCTACTGGCGCGAGCACCTGGTGCGCCACCGCAAGACGCACTCGG
GAGCGCGGCCCTTTGCCTGCTGGGAGTGTGGCAAGGGCTTCGGGCGCCGCGAGCACGTGCTGCGCCACCAGCGCA
TCCACGGCCGGGCAGCGGCCAGCGCGCAGGGGGCGGTAGCTCCGGGCCCGGATGGTGGAGGCCCTTCCCGCCCT
GGCCCTTGGGTTAGCGCCTCCCGGCCAGCGCCATCTCCCGCCCTTGGTGCTGCCCCGGGCGGTACCTGCTCTC
TCCCAGCGCCACTTGGCCTCTTCTCTCTCTCTCCCTCCCATCGTCCCTCCACCTGCGCCTCCCTTGTCTGA
ACTTCCCAACGCCTTCTATTCCTTTCCAACCTCTTTCCCCCAAATTTCACTTTCTCTCAGGTCTCACCTCA
GCCCCCCCCCTTCTCCCTGATTTCTCGGCCTCTCTCTCTGTGTGAAGGGGCCTCTCCCTAATGTCTCCTCCTTCCC
CCCTTCTCTCTCTCTGCGGCCAGCCTCCCTCTCCCTCCTCCATTCTCTCTCCTTCTTCTGCTGAA
GAGCAGAGGTGAGGACCTGGGACCCCTGAGGGGCAGGCCAGGAGAGCTCGGGGCGCAGGCCAGGCCCCCTTGGTG
AAGCAGAGGCTGAAGGAAAGGGGTCTGGGTCTTGTCCCTAGGAATTCTCTCCCTCAGGAGATTGGGGGTGGGG
GAGGCAGCGGGTGATGGCTCTGAAGCTGAACCCAGGGCCTGGCTGTGGTCTTCTTGGTCTTGTGCCCCCTGTGA
CCCAAAGGCATGGGATGGACAGAGATGCCTGCCCCGTGAAGCTGGTTGGGGAGGGCAGTTACCAGCATCCATA
GAGTAATAAAGTCACTGTGTGTAGACCCGGA

3148/5332
FIGURE 2760

CTCCAGGGCTAGTGAGCTGGACCGGAAGTAGGTTTCTACCCGACCGCATTTTACGTGGTGCTGCATTTCCGGTAG
CGGCGGCGGGAAATCGGCTGTGGGAGAGAGGCTAGGCCTCTGAGGAGGCGAATCCGGCGGGTATCAGAGCCATCA
GAACCGCCACCAATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGC
AGGACGGCCGGATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATG
AGTTCAGAAAGATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGC
TGCGAGGGGAGAATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCAC
TTGCTGGAGCTGCCGGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCC
AGGCTCCTGCAGGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCCAAGGAA
GAGGTACTGTTGCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCC
GTGGGGTCTCTCCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCACCTCCTGGTATGAGAC
CTCCTATGGGTCCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGC
CTCCTCCCCCTGGGATGCGAGGCCTTCTTTGAACCTTGCCACAGAGTATGGAAGTAGCTCCGCAGAGGCGTGGG
CTCGATTCTCAGGGCCACGTTACCACAGACCTGTTTGTTCCTTATGCTGTTGTTTCGTGGAGTCTCATGGGATTG
TCTGGTTTCCCTTACAGGGCCCCCTCCCCGGGAATGCGCCACCAAGGCCCTAGACTCATCTGGCCCTCCTCA
GCTCCCTGCCTGTTTCCCGTAAGGCTGTACATAGTCCTTTTATCTCCTTGTCCTATGAACTGGTTTATAATA
AACTCTTAAG

3149/5332
FIGURE 2761

GCATATCCAGGCTCTCCAGGGTCACCAGCTGTGCTCCACACACAGGGAAGATTGATGGTGGCTTGCTATACATTA
ATTTACTGGTTGTTTGTAGGTACCAGTTACATTACAGGGATGTGACTGTGATCTTCACAGAAGCAGAATGGAAGAG
ACTGAGTCCAGAGCAGAGGAATCTATACAAAGAAGTGATGCTGGAGAATTACAGGAATCTTCTCTCATTGGCAGA
ACCAAAGCCAGAAATCTACACTTGTTCCTCCTGCCTTCTGGCCTTCTCCTGTCAGCAGTTCTCTCAGTCAACATGT
ACTTCAGATCTTCTGGGCTTATGTGCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCAGGGCATTGGAAACA
GCAGGGGCAGCAGTATTCCCATGTAAAGCTGTTGGTTTGAATAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAA
ACCCTGGTCTGCAAGGACAGAGGAGAGAGAAAACCTCAAGGGCATTCCCCAGCCCACTCCAAAGACAGTCAGCAAG
TCCTAGAAAAGGCAACATGGTGGTAGAAAACAGAGCCCACTCAGCCCAAAGACCAAACCTGTGCAGCTAGACAA
AGGCTTGAAGGAATTAGAAACCTTGAGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGA
ATCAAACCTTTATTACAAACCCGAGGACCTCTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTT
TAAAGATAGATCAACCCCTCATCAGACACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCGG
GCGAGGTTTTAGCCAGAAGTCCAACCTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGCAG
GGAGTGTGGGCAAAGCTTTAGAAGTAAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTA
TGTTTGCAGCGAGTGTGGGCGAGGCTTAGCGAGAAGTCATCTCATCAGACACCAGAGGACACACTCCGGTGA
GAAACCCTATGTGTGCCTGGAGTGTGGACGAAGCTTTTGTGATAAGTCAACCCTCAGAAAACACCAGAGGATACA
CTCAGGGGAGAAGCCTTATGTTTGCAGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCA
GAGGACACACTTGGATGAGAAGCCTTATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCTCAT
CATACACGAGCGGACGCACTCTGGAGAGAAGCCTTATGTGTGTGGTGAGTGTGGGCGAGGCTTTAGTCGGAAATC
ACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAG
CCAGAAGTCAAACTCATCAGACACCAGAGGACGCACTCAATGAGAAGCCTTATATTGTCAGGGAATGTGGGCG
AGGCTTTTGTGACAAGTCAACCCTCATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGA
GTGTGGCCGAGGCTTTAGCCGGAATCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGT
TTGTAGGGAGTGTGGGCGAGGCTTTAGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAA
ACCTGTGTATGCAGGGGTATGAACAAGACCTGAGTGACCAGTCAAGCCTCATGTTACCCCAAGAGACACATGG
GGAGTAGACCCTGTGTACACAGATTGTGAGTGAAGTTCCAGAGATGTGTGAGCCCTTATCAGGCATGGGAGGGAC
ACGTTTCAGGAGAGGAGCCTTATGAGTATAGAGTACGGGCAACTGTAGCCATCAGTCAGCCTTGAGCATGCACAAA
AGGACACACTTAGGAGAGAAGTTTTATGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACA
TCCAATGACAGCCTCAGGGGAAAGCACCTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAATGGACACTCA
GGCAGAGAGTGGCCCTCAGGAAGGAGGTCTTTGTTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCAC
AGGGAGAATCTGCATGTGGGGACACTGTGGAGCTCTGCCCAGATGACCTTTTCAGGGGTAACACCCCAAGCTGCTT
GAGAGAACAGTGTGTGCTGGCAGAGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTACTCTCAGCCACAG
GGAGCTGCATGCACACAGGGGCAATGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCCTTGACTCAACGGGGA
CAACTCCAGAAGGTCATTCCAGATCCAGAGATCCCCATCGAAGTGAAGGATCACTGGGTTCGAGACACATTGCAG
GTCAGCTTCTTCTCTGCCCAGTCCCTGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCA
GATAATTGATTCTAAGACATGTTAGGTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCGCAGTAA
GCCCCAGAGTATATTGAATAGAAATCTGCATGTGTGGGGAGAATGGACAAGGACTTAGGAAAAAGTCCTCATCA
AAGAACAGCTTTTTTGGGACAAGCTTTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAAC
CTCATCTTGTACTAAAGGAGGACACACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCC
CGATGTCACTCCTCAACTGACTTAGGAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGAT
TTTCAGGAAATGTCTTGAATCAGATGAAATAAAAAAGCAGGCTTTATTTAAGTAATC

3150/5332
FIGURE 2762

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCCACGGATCTACCCACCTGCGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCCCAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCGAAACCCCCACCGTTCGCGTTCGCCCCGCGCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTGCGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGCCGGGACGACACCATCTCCGGCCTTTGGAG
GGGCGCCCAGGGTGGTATCGCCCCGAGCGCGGGCTGGGTGGTGGCGAGCGGGCGAGCGGGCCTTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGGTGGTTGCCGGGGACGCGCGGGCCCCCGGTGCGGCACTGCAGGCGGCGAAACGAC
TTGGGAAGGCCCTTTCCGGGTAATAGTCCGGTTCCGTGATGTTCTTGTCAATAGATTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGCGGCGCGGGCTCCATCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCCTGCGCCCCACGTCCCGGGACCCAGGCGTTCCCGTCCCCTACTCGG
GGACGAGCCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTGTTT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACTGCGAAAGAAAGACGCTCCAGCGTCTCTAGGCC
AGTTTCTTGTGTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCTGGTATGTTTTAAAGAGTCATTCGAAGGGGATTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATGTATTTTTGTTAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATTCTGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTAAATTATTTTAAACCGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTAAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCGCTCTTACCAAAAAATAAAAAAATTAGCTGGACGTGGTGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

3151/5332
FIGURE 2763

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGTAGCACGCGGTCGGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTCGTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAAAAATGCCAACGCCGTGTCTG
AAGGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTGAGCTTGTAAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTGAGGGAGTGGTACG
GGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA
ACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTA
TTCTGGATGCCCTACGGTCTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCACGAGTGATTTCG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGAAAAACCCAAAAAGAAAAAGCAAAAGCCCCAGGAGGTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCAAGAAAAAGAAATCTTTTCCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCAAGGAGGAAACAG
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAAGAGGAAATCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAGAAGAAAAAGTTCCATAAAGCATCCAGGAAG
ATTAGAAATGCAAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTTCCACCCCTGTGCCG
TGTTCCCAATAAAAACAAATTCACAAG

3152/5332
FIGURE 2764

CATGGCGGCATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCCTGGGGCATGGAGAGG
TCTGAGTACCTCGGCCGCGGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTTTCC
CGTGACCATGCTTCCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGCCGC
TGTCCCAGTGGAGTTCAGGAGCACCACCTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCAGGT
GCTGAGTTCCATGAAGGAGAACAAGTGGCCATCATTGAAAAGATTATACCCCGATGGAGTATAAGGGGGAGCT
AGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCCTGG
GTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTTCGAGAGCAGACAGAAGGGGAGTACAGCTCTCTGGA
ACATGAGGTGAGGCCCCAGAACTGGGGGAGGGCAAGGATGAAGATGGGAGAGAGGTGGAGCTCCTTGTTTCCCT
TCCCAGTGTCACCTAGCTGCTGCTTTCTTCTTACCCAGAGTGCAAGGGGTGTGATTGAGTGTTGAAGATTGTCA
CACGAGCCAAGTCTCAGCGGATTGCAAAGTTCGCCCTTTGACTATGCCACCAAGAAGGGGCGGGGCAAGGTCACTG
CTGTCCACAAGGCCAACATCATGAACTTGGGGATGGGTTGTTCCCTGCAGTGCTGTGAGGAAGTTGCTGAACTGT
ACCCAAAATCAAATTTGAGACAATGATCATAGACAACCTGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTTG
ATGTGCTTGTGATGCCCAATCTCTATGGGAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTG
TGGTCCCTGGTGAGAGCTATAGTGCAGAATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTTGCCAGGCAG
TGGGCAGGAATATAGCCAATCCCACGGCCATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGT
ATCACTCCAGCATGATCGCAGATGCGGTGAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCG
GCTACAGCACCACAACCGACTTCATCAAGTCTGTATCGGTCACCTGCAGACTAAAGGGAGCTAGAGCCCTTTAT
TTCTTCCAACCTTGCAAGGACCACACTCCCCATACCCCTTCAGTGCAAGTGTACCAGGGAAGAGACCTTGTGCCTCT
AAGCAGTGGACCATGGTCACCTTGCTGGGTAGAGCCTAGGTTGTCTTGGGCCGGCTTCCTTAGGGGACAGACTG
TTGGGTGGTGATGGGGATTGTTAGGATGGAGCCAGGCCACATGGATGATGATTCTCCCCACAGGTTGCAA
CCTCTGACATGGGTGGCTATGCTACTTGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGG
CCCTGTCCATACCCATGTAAGGTGTTCAATAAAGAACATGAACC

3153/5332
FIGURE 2765

GATCCCGCCCCCTCGGAGCGCCCCTGTGGTCTGACTTCAGCAGCACTTTCGGCAGGAGACTGGGCACTCGCTG
TCACCCGCGAGCTGCCCTCCCTCAGCGAGATCTGAGCATCTTTCGGAGGCTAACAGACCTGGGCTTCGGGGTGAC
CACTGTGCTTGCCCTCAGTTTCCTTTTCTGGAGCAGGGGAAGGCCCGGCTCCCTGCCCAAAGGCGGCTGTGCGCTA
AGTGGCAGACGCTCGGGGAGAGCCGGCGCGGGGCGGACCCAGCGCCAGTAGTGACAGGGGCGAACGCCGCCGGG
AGACTCCAGCCGGCGGGCGAGCAGGCCTGTCGTGCTGGTGGCGGCATGGTCTTCTGTCTGTGCGAGCGAGGAGCC
GCGCCGCCCGCTGCGAAGCGACATGGTCCACTTCAGGCCTCGGAAGTCCAGCAGCTGTACACAACAAGTTCGT
GGTCATCTTGGGGGACTCCATTCAGAGGGCTGTGTACAAGGACCTGGTGTCTTGTCTCCAGAAAGACTCACTGCT
CACAGCTGCCCAGCTGAAAGCCAAGTACCTTGAGGATGTTCTGGAAGAGCTGACATATGGACCTGCCCGGACCT
GGTGATCATCAACTCCTGCCTCTGGGATCTCTCCAGATATGGTCGCTGCTCAATGGAGAGCTACCGGGAGAACCT
GGAGCGGGTGTTTGTGCGCATGGACCAAGTATTGCCAGACTCCTGCCTGCTGGTGTGGAACATGGCGATGCCCCCT
CGGGGAACGTATCACTGGGGGTTTCTCCTGCCAGAGCTCCAGCCCCTGGCAGGCTCCCTGCGGCGGGATGTGGT
TGAAGGGAACTTCTACAGTGCTACGCTGGCCGGGGACCACTGCTTTGATGTCCTAGACCTCCACTTTCACTTCCG
GCATGCAGTACAGCACCGTCATCGGGATGGTGTCCACTGGGACCAGCATGCACACCGCCACCTCTCACACCTGCT
TCTGACCCATGTGGCTGACGCCTGGGGCGTGGAGCTGCCCAAGCGTGGCTATCCCCCTGACCCGTGGATTGAGGA
CTGGGCAGAGATGAATCATCCATTCCAGGGAAGCCATAGGCAGACCCAGACTTCGGGGAGCACCTGGCCTTGCT
CCCACCCCCACCTTCTTCTTGCCTCCTCCCATGCCTTTTCCCTACCCGCTTCTCAGCCCTCGCCACCTCCCCT
CTTCCCACCCCTGCCCCAGGATACCCCTTTTTTCCCAGGCCAGCCCTTCCCACCCCATGAATTCCTTCAACTATAA
TCCAGTGGAGGACTTCTCGATGCCACCCCACTTAGGATGTGGCCCTGGAGTGAACCTTTGTGCCTGGCCCTCTGCC
ACCTCCAATCCCTGGCCCTAATCCCCATGGTCAGCACTGGGGCCCAGTGGTCCACCGGGGGATGCCACGCTATGT
TCCTAACAGCCCCTACCATGTGCGGAGAAATGGGGGGGCCCTGCAGGCAGCGGCTCAGACACTCAGAGAGACTGAT
CCACACATACAAACCTGGACAGACGGCCTCCTGCCCATTCGGGGACATGGCCTGGGTAGACTGGATCTTGGGCTGG
GACTGGATGTGCCAATGGCCCTTCAGGGCCTGCCTGGCACCTCAGGTACTGGGCTAGGGTGTCTGCTATGCCTGG
TATTGTTCTTGTCCATTGCTGTACCAATAAAGGCATGGAAGAACAGAGTGACAAA

3154/5332
FIGURE 2766A

GGAGTATGAGCCACGCTCAGGGGAGCAGGTACCCCTTCTCCTAAAGATGAAGAGGAGCAAACCTGGCACTAAGCAA
GGCCATCGAGAGCGGGGACACTGACCTGGTGTTCACGGTGTGTGCTGCACCTGAAGAACGAGCTGAACCGAGGAGA
TTTTTTCATGACCTTTCGGAATCAGCCCATGGCCCTCAGTTTGTACCGACAGTTCTGTAAGCATCAGGAGCTAGA
GACGCTGAAGGACCTTTACAATCAGGATGACAATCACCAGGAATTGGGCAGCTTCCACATCCGAGCCAGCTATGC
TGCAGAAGAGCGTATTGAGGGGCGAGTAGCAGCTCTGCAGACAGCCGCCGATGCCTTCTACAAGGCCAAGAATGA
GTTTGCAGCCAAGGCTACAGAGGATCAAATGCGGCTCCTACGGCTGCAGCGGCGCCTAGAAGACGAGCTGGGGGG
CCAGTTCCCTAGACCTGTCTCTACATGACACAGTTACCACCTCATTCTTGGCGGTCAACAACGCGTGCAGAGCA
GCTGGCACGTGACTTCCGCATCCCTGACAAGAGGTGACACAACCTAAAAAACAAGGTATTTATGGAATTCCA
CTGAGTGGTAATGGATGATGCAGTTCAAATAACTAAGGACACATGTTCAAAGAGCATAATTAACCTTTTAAAAAGA
AGCTAATAAGCAATGGATTCTCGGTTCTTCTGTTCTGCTCGGCAGTGGTCTGATATGTGTGCTGCTGCAACAATG
CTACCACAGTTGCACCTTCTGTAGGAATTACAAGATTAACTCATCAACGGCAGAACCAGTTAAAGAAGAGG
CCAAAACCTCAAATCCAACCTTCTTCACTAATCTCTTTCTGTGGCACCACATTACAGCCCAATATACTCTGG
GACCCACCTATTTAACCCTGTCAATTCTTCAGACTCTGACAATGGGACCACAAGAACAGCAAGCACCATTCTA
TAGGCATTACAATTTACCAAATGGAACGTGGCTTCCAGATAACCAGTTACGGATGCCAGAACAGAACCCCTGGG
AGGGGAATTCAGCACCGCAGCAACCCTCCAGAACTTCCCTCCTCAGGTAATTCTGACTCGAAGGACAGAA
GAGATGAGACCAATTATTGCGGTGATGGTGGCCCTGTCTCTCTGCTAGTGATCGTGTATTATCATAGTTT
TGTACATGTTAAGGTTTAAAGAAATACAAGCAAGCTGGGAGCCATTCCAATTCTTTCCGCTTATCCAACGGCCGCA
CTGAGGATGTGGAGCCCCAGAGTGTGCCACTTCTGGCCAGATCCCCAAGCACCAACAGGAAATACCCACCCCTGC
CCGTGGACAAGCTGGAAGAGGAAATTAACCGGAGAATGGCAGACGACAATAAGCTCTTCAGGGAGGAATTCAACG
CTCTCCCTGCATGTCTATCCAGGCCACCTGTGAGGCTGCTTCCAAGGAGGAAAAACAAGGAAAAAATCGATATG
TAAACATCTTGCCCTATGACCACTCTAGAGTCCACCTGACACCGGTTGAAGGGGTTCAGATTCTGATTACATCA
ATGCTTCATTATCAACGGCTACCAAGAAAAGAACAAATTCATTGCTGCACAAGGACCACAAAGAAAGAACGGTGA
ATGATTTCTGGCGGATGATCTGGGAACAAAACACAGCCACCATCGTCATGGTTACCAACCTGAAGGAGAGAAAG
AGTGCAAGTGCGCCAGTACTGGCCAGACCAAGGCTGCTGGACCTATGGGAATATTTCGGGTGCTGTAGAGATG
TGACTTCTCTGGTGACATACAGTACGGAAGTTCTGCATCCAGCAGGTGGGCGACATGACCAACAGAAAGCCAC
AGCGCCTCATCACTCAGTTCCACTTTACCAGCTGGCCAGACTTTGGGGTGCCTTTTACCCCGATCGGCATGCTCA
AGTTCCCTCAAGAAGGTGAAGGCCTGTAACCCTCAGTATGCAGGGGCCATCGTGGTCCACTGCAGTGCAGGTGTAG
GGCGTACAGGTACCTTTGTCGTCATTGATGCCATGCTGGACATGATGCATACAGAACGGAAGGTGGACGTGTATG
GCTTTGTGAGCCGGATCCGGGCACAGCGCTGCCAGATGGTGCAACCGATATGCAGTATGTCTTCATATACCAAG
CCCTTCTGGAGCATTATCTCTATGGAGATACAGAACTGGAAGTGACCTCTCTAGAAACCCACCTGCAGAAAATTT
ACAACAAAATCCCAGGGACCAGCAACAATGGATTAGAGGAGGAGTTTAAAGAGTTAACATCAATCAAATCCAGA
ATGACAAGATGCGGACTGGAAACCTTCCAGCCAACATGAAGAAGAACCGTGTTTACAGATCATTCCATATGAAT
TCAACAGAGTGATCATTCCAGTTAAGCGGGGCGAAGAGAATACAGACTATGTGAACGCATCCTTTATTGATGGCT
ACCGGCAGAAAGGACTCCTATATCGCCAGCCAGGGCCCTCTTCTCCACACAATTGAGGACTTCTGGCGAATGATCT
GGGAGTGGAAATCCTGCTCTATCGTGATGCTAACAGAATGGAGGAGAGAGGCCAGGAGAAGTGTGCCAGTACT
GGCCATCTGATGGACTGGTGTCTATGGAGATATTACAGTGGAACTGAAGAAGGAGGAGGAATGTGAGAGCTACA
CCGTCCGAGACCTCCTGGTCACCAACACCAGGGAGAATAAGAGCCGGCAGATCCGGCAGTTCCACTTCCATGGCT
GGCCTGAAGTGGGCATCCCCAGTGACGGAAGGGCATGATCAGCATCATCGCCGCCGTGCAGAAGCAGCAGCAGC
AGTCAGGGAACCAACCCATCACCCTGCACTGCAGCGCCGGGCGAGGAAGGACGGGGACCTTCTGTGCCCTGAGCA
CCGTCTGGAGCGTGTGAAAGCAGAGGGGATTTGGATGTCTTCCAGACTGTCAAGAGCCTGCGGCTACAGAGGC
CACACATGGTCCAGACACTGGAACAGTATGAGTTCTGCTACAAGGTGGTGACGAGTATATTGATGCATTCTCAG
ATTATGCCAACTTCAAGTAAGCGGCAACAAGGGTCCGTGGACCAGGAGGATTGCCTTTAATATTTTGTAAATATTC
CTATTAGGTGGAAATTTTATATGTAATGTGTTAGCACTGATAGTCTTTTCCAATGTTTTATTGGGGAATTAA
ATAGTGTGATGTTTGGATTGATATCGTGAAATCCTCAGCCGAGAAATTGGGCTGGATTGTGCTTTGGTTAATACA
TCTTTCCCTAAAAGAAGATAAACACAAAATCCATTCCAGGTAGCTCGGCACCAACTAAGAAAAAAGCACAAAGTT
CTCAGAGCTCTCGAGGAAAGTGGTTGTCCCGTACCACCATGCACTGTAAATATCCCTCCCTCTCTCCCTGGTC
CCCTCCCCCATCCCCACCACTGATATCATGGGGAGTAATAGGACCAGAGCGGTATCTCTGGCACCACACTAGGGA

3155/5332
FIGURE 2766B

CTATCAGGTAATAAAAGCTTTGACTCCCTG

3156/5332
FIGURE 2767

GAGACTCGGCCATGCTACGCGCGCTGAGCCGCCTGGGCGCGGGGACCCCGTGACAGGCCCCGGGCCCCCTCTGGTGC
TGCCAGCGCGCGGGCCGAAGACCCGCCACGACCCGCTGGCCAAATCCAAGATCGAGCGAGTGAACATGCCGCCCCG
CGGTGGACCCTGCGGAGTTCTTCGTGCTGATGGAGCGTTACCAGCACTACCGCCAGACCGTGCGCGCCCTCAGGA
TGGAGTTCGTGTCCGAGGTGCAGAGGAAGGTGCACGAGGCCGAGCCGGGGTTCTGGCGGAGCGCAAGGCCCTGA
AGGACGCCGCCGAGCACC GCGAGCTGATGGCCTGGAACCAGGCGGAGAACC GCGGGCTGCACGAGCTGCGGATAG
CGAGGCTGCGGCAGGAGGAGCGGGAGCAGGAGCAGCGGCAGGCGTTGGAGCAGGCCCGCAAGGCCGAAGAGGTGC
AGGCCTGGGCGCAGCGCAAGGAGCGGGAAGTGCTGCAGCTGCAGGAAGAGGTGAAAACTTCATCACCCGAGAGA
ACCTGGAGGCACGGGTGGAAGCAGCATTGGACTCCCGGAAGAATACTGAGGCTGAGGAGAGGGGCTGG
TGCTCAGGCCACAACGCAGGGACTCCTAGGGGCCCAAGTAAGGACAGTGCCCGCCAGGGACCATGTATGTATCATG
GCGGAAGAGTTGGCCCTGACCTGGAATAAAGCAGTTGGTGTTGCTTATGAGGAAGGTTTACGCTTATCCAGCACA
GCCTTCACGTTTTTGCCCTCTGCTGTCACCACTTGGTCAGAACTTCCAAACGCAGTGCCCTGTTCTGCCGGTGTG
TACAGCCTCAGCGCACCAGGAGACCCTAGAGTGGTTTCCATCTCACAGAGAATCAGACAGGGCCACAGCCCCCTC
AGGCAGCCAGGTCATCTGAGTATCATTAAAGAGTAGTGATGGGAAGATTACAGTCTGAGGGCCAAACGTGCCTGCT
TCCTGTTTTTGTAAATAAAGTTTTGTTGGAACAC

3157/5332
FIGURE 2768

GCTGTGAGGCTCGGAGTCGCCGGAGGAGCCAGTATCTGTGTCGCCGCCGCCGCCGGCGTCCCCGGTTTGGTGTG
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTGTGATCCCTGGCTCTTGTA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAAATGCGAGCTA
CTCTCAAGTCATTAAACTTTGTAAGATACCGAGCATTTCGAGTCCTTCTGCCTTTGGTGCAGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCACCCAGGTTTGG
AATTCAGCAAGACTTCTTCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTGTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTCACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTCAGAAGGTGAACATAATTTTGACAAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTGCCTGCAGAGCAGCATC
CTGTCTTGCTGGGCAGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTTGATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTTAGGAATCCCTCACTCCCATTCAATGCTAGATGTGTATG
AGACCAAGTGTGGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTTCTAGTTATCTTAATTTGCACTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACCTAATTTATGTTATAGGTGAAAAATCGTCAGGTATCCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTGATCAATTTGGAGGAGTTGGTACCATCTGTTTGGGGTCTTTAAATCAA
GTACTAATCTCTCTGAATTTGTATGCGGAAAATGGAGACTTGGCTTGTGCTAACATTACAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCTTAC
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCTAGAGTGGCACACTGTGCAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTTGGAACCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC
TGATAAGTGAGATTACAGAAAAGATGCCTGAATTCAACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTTTTGGAGTACTTCCAGTAGAGTTAATTGATTTCGCTCTCAGTCCAGGGTTTGTGAGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAATATATACCCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCCTTAGAACTGTCTTTTTTACTGGAGACCATGCTGGGGGGGGCCCCAGTACGTCAAGCACC
ATATGATTTTGCCTCATACCCGATCTTCTGACTTAGAGGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAATTACAAACA
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTCATGAGAAAGTATTCACCTCTGCTCTCTGAAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAAT
ACTGCAAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGCTCTACGGTC

3158/5332
FIGURE 2769A

CCCTTGTGGGCCGGCCTTGGGGGAGGGGACGCGCACCCACAGAAAGGACTCAGAGGGCTTCACGGTAAGCTGAGC
AGGGTCAAGGTCCACAGGGAGCGGGAGAGGGTAGTAATCCGGGAAGTCTTCTGTTGGCAGTGAATTTCTTGCGG
GGTTCGGCAGGCGCAGGATCCTTGGGGCCGCGCACCTGCAGCGGCCCTCCCTCCCTCCCCCTCCACCTG
TGGGAAACGCAGGCCCTGAGAGAGGCTCCGTAGTGCCAGCAGCTGGCGCCACTGCGTCCCCTGCCCCGGCCTCA
GCCAGCCCTGGGACCTCTGCGGAGGACTGATCCCGGAAGGGGGCCCTGTCTTCCAGGGCCCCGGTGGCGCCGA
GCTGGGAAGACCTTGGGGAGGGCAGGCCTGCCACCTACTGCAGCCGCGGCCCCCGTCCATCCGGGAGGGACAGGC
TGTGCCCTTGGCGGCGCCACCCGCGACCCAGATGTGCGTTCGCTACCCACCTCCCCCAGACCCCGTTTCTCTC
AGGCGCTCGCCGCTCGGGGCGCCTGGCACGCGGCAGCCCCGCAAGGTAGGTCTTATTCTCTCCATTTCGCGAG
AGGAGAAAACCTGCAGTCCGGGATGGCTCAGTCGGGCCCTCAAAGTCGCGCAGCTGGTTCGGGGCCAGCCCCGAG
TGCGAGAGTGAGGCACATGGCCCCCTGCAGACCGGGCCTCGGAGGGTCCAGGCTTGAGGACCCGTGCGGCCCTCA
ACCCCTTGGAAGGCAAGGAGAGAAGCCTGCGCTGGTAGTGAGCTTCCACTTCTGCCCCTGACTGCAACACTTAGG
TTAGGGGGCTGGGAAGGACCCCCACCCCTCAATTTTGGATAGGGGTGATTTCTCTCCCTCCCTCAATTTCTGAG
GTTGGTTCCTGTTGGATTACGGTACTGCTCTCCCTTCCAACCCCATTTCCCAAGCCCATGAGGTTGGGATATT
AGGAGTCCCAAGCTCAAGATAAAGAACCCTCAAAATTTCTGGGGTTGCAGCAAAGAGTTGAGAGGGTCACTGAGCCTG
GGAAGCTCATGGCGGAGGTGGGGCTAAGGCAGAAGTTTAGGAATGGAACGCTGAGCTGAGCTGAGCTGAGCTGAG
CTGAGCAACGCTGGGGGCTATGTGCATGGAGCCCTGGGGGTGGGCTTTATCAGGTGGGCAACAGGCAGCCCCCA
TTCCCAAGTTCTCTCTTTTATCCAGCCTTATTCTTACCTTGGATGCTGGGAACCTTTTGTACCCATTGTAG
GGAAGGGGACACTGAGGGGCAGAGCGGTGCCGGGTGACTTGGCTGGGGTGGTGGGAATAGGAGTAGGGTCTTAC
CTATCTCTGCCTTCCACCTGTGCCACAGTGCCCCCTGGCTTAGTCAATGGCGAAGCTGGAGACGCTGCCTGTG
CGCGCTGACCCAGGGCGGGATCCTCTCTGGCCTTTGCCCCACGGCCCTCCGAGCTTGACCCCCGGACCCCCGC
CTGGCCATGGGCAGCGTGGGCAGTGGGGTGGCCCATGCCAGGAGTTTGCCATGAAGAGCGTGGGTACCCGCACA
GGGGGTGGGGGCAGCCAGGGCAGTTTCCCTGGCCCCCAGGCAGTGGCAGTGGGGCCAGCAGGGAGAGGCCGGGC
CGCTACCCCTCAGAGGACAAGGGTCTCGCCAACCTCCCTCTACCTCAATGGTGAGCTGCGGGGCAGTGACCACACC
GATGTCGTGGCAACGTGGTTGGCAGCAGCGGAGGCAGCAGCAGCAGTGGTGGCAGTGACAAAGCCCCACCGCAG
TATCGTGAGCCCAGCCACCCACCCAAGCTCCTGGCCACCTCTGGCAAGCTAGACCAGTGCTCAGAACCACTAGTT
CGGCCGTGCGCCTTCAAGCCTGTCTGTAACCAAGAATTTCCACTCCATGCAGAATTTGTGCCCCCGCAGACCAAT
GGGACTCCTGAGGGACGGCAGGGCCCTGGTGGCTCAAAGGCGGACTGGACAAGTCTCGGACCATGACTCCAGCG
GGTGGGAGTGGGAGTGGCTCTCAGACTCAGGCGGGAATCCCTCACAAGCTGCCACCTACAGCTCAGCTCAGCTAC
AGCCAGCACCTGACACCCCTCAGTGCCCTACCACGACACATTAACCGCATTTGGCATGCTGCCAGCTATGGTAGTGT
AGTGGCGGACGAGCGGTGGGGGTGCGGCTACCAGGACTTGGGGACCTCCGATAGTGGACGGGCCTCCAGCAAG
AGTGGGTGCTGCTCATCTATGGGGCGGCCAGGCCACCTGGGCTCTGGGGAGGGCGGAGGTGGAGGCCTGCCTTTC
GCGGCCTGCTCACCGCCCTCCCCCAGTGCACTCATCCAGGAGCTGGAGGAGCGGCTGTGGGAGAAGGAGCAGGAG
GTGGCAGCTCTGCGGCGCAGCCTGGAGCAGAGCGAGGCGGCTGTGGCCAGGTACTGGAGGAGCGGCAGAAGGCC
TGGGAGCGGGAGCTGGCCGAGCTGCGGCAGGGCTGCAGCGGGAAGCTACAGCAGGTGGCCCCAGCTGCCAGCGC
GCCCAGCAGGGCCTACAGCTGCAGGTGTTGCGGCTGCAGCAGGACAAGAAGCAGCTGCAGGAGGAGCGGCCCGG
CTGATGCGGCAGCGGGAAGAGCTGGAGGACAAGGTGGCCGCTGCCAGAAGGAGCAGGCCGACTTCTGCCCCGG
ATAGAGGAACTAAGTGGGAGGTGTGCCAGAAGGCTGGCGAGATCTCCCTCCTGAAGCAGCAGCTGAAGGACTCG
CAGGCGGATGTGTCGAGAAGTTGAGTGAGATCGTGGGACTGCGCTCGCAGCTGCGGGAGGGCCGGGCTTCGCTG
CGGGAGAAGGAGGAGCAGCTGCTACGCTGCGGGACTCCTTACGAGCAAGCAGGCCAGCCTGGAGCTGGGCGAA
GGCGAGCTGCCTGCCGCTGCCTCAAGCCGGCGCTGACCCCGTGGACCCGGCCGAGCCACAGGATGCTCTGGCC
ACCTGCGAGAGCGACGAGGCTAAGATGCGCCGTGAGGCCGGGGTGGCCGCTGCCGCTCCTTGGTTTCCGTGGAC
GGGGAGGCGGAGGCTGGCGGGGAGAGCGGGACGCGGGCCCTGCGGCGGGAGGTGGGGCGGCTGCAGGCCGAGCTG
GCGGCTGAGCGGCGGGCCCGGAGCGCCAGGGTGCCAGCTTCGCCGAGGAGCGCCGCGTGTGGCTGGAGGAGAAG
GAGAAGGTGATCGAGTACCAGAAGCAGCTGCAGCTGAGCTACGTGAGATGTACCAGCGCAACCAAGCAGCTGGAG
CGCAGGCTCTCGGAGCGCGGGGCGCAGGGGGTGAAGGATGCCACTCCCAAGCATGGCGAGGAGAAGAAGGCC
TGGACCCCTCCCGCCTCGAGGCGATTGAGTCCACAGAATCTCAATCGACCTGGGCACTCGGCATTTTGACACAT
GTCTGTCAAAGGCCAGAGTCCCCAGTGTCCCTCCCTCCATCTCTCTTCCCCATAGACCCCATAAACCCAGA
CCAAAGAGGTTCTCTAAGCAGCTGTGACCAGGTTTCTCCCTCCCCACCTGCCCTCCTAGCTCCAGCACTGCCCC

3159/5332
FIGURE 2769B

GTGGCAGCCCACTTGGACCCCCCTAAAAGGAGGGGAATAGGAGGAGGGCAGGGTGAGTGGGGGCAATCCTAGGTGG
TGGGGGAGTCATGCTCCCTTTCTCGGCACCCCCCTTGTGGAGATGGAGGCAGCAGACGTGCAGTGCCATAAGGTG
CCCCAGTCCTTCTGGAGGCCTGGGCTGCTACTGTTGGCCACCCTGTGTCTAGTGATGCTCTCTGTGCTCACCTCC
TAGGCCATGGAGCCTGAGGGGGCCTGCACCAGGTTTGCTGAAACTGACAGAGCCTGGGCTCCAGACCTCTCTCCC
TCCTACAGTGCTCTCCCTCCCTGGGCAGATTGGCAGGACAAGTGGGAGCAGATGGCCTGCCCTTGGCTGAGAGGG
CTACCTGCCCAGCCCCCCCCAACAAAGATCTCTTGGACTCAGGCCTCAGAGCCTGGCCTGGTTGTGAGTGTGTG
TCCCTGTGTGTGTGTTGCGGGAGGGGAGGACTGGGGCTGGAAGTCCAGCACCCAGGGAAGATCTGTCTCCTGTT
CTTGGGAAGCGTTGCCTGACGGCTTCTCGGCTCTACCCTCACCCCTTCTGGCCAGGATCCCGCAGGGCAACAGCCC
CATCTGCTTGGCTGACCCACACCCAGGACCCTGTCCGGCTCTAACACAGCTATTAAGTGCTACCTGCCTCTCA
GGCACTCTCCTCGCCAGTTTCTGAGGTCAGACGAGTGTCTGCGATGTCTTCCCGCACTCTATTCCCCCAGCCTC
TTTCTGCTTTTCATGCTCAGCACATCATCTTCCCTAGGCAGTCTCTTCCCCAAAGTCTCACCTTTTCTTCCAATAGA
AAATTCCGCTTGACCTTTGGTGCACTGCCCCTTCCCAGCTCCACTGGCCCAAGTCTGAGCCGGAGGCCCTTGTT
TTGGGGGCGGGGGAGAGTTGGATGTGATTGCCCTGAAGAACAAGGCTGACCTGAGAGGTTCTGGCGCCCTGA
GGTGGCTCAGCACCTGCCCAGGGTAGGCCTGGCATGAGGGGTAGGTCAGCCAATGTCAGCTGCTTCTTTGGGG
CCCTCTCAGAGTCTATCTCCCCAAGACAGGAAGGGAAAAGCAAATTTCTAATTCACCAGCAATAAAAATTGGAGG
AGGCTTGGCCCTCAGCCCTTATATCTCTCTCTTTTTTCACTCTCTTCTCCACCCCCAAGACTGAGTTTTGGGGG
GCAAGGTGGAGAGAGCTGGCAACTACTGTGAGCAAGTCCCCTAGCCCCTGACCAGCCTCCTCCCATGACTGGTGA
CTGTTTAATGAGCTGTGCATCCCCCACAAAACATGAGTGCCCCCTCTGTGTGGCCTCTAACCCCTCTGCACAGCCC
TTCTGGGTGGTCTCACCAGGTCTCTGAGCTGGGTGGGAGGCCATCCTGGCGACCACTGCCCATTCCATTACCC
CTCACTGTACCTGCCCTAGAACCTGGGCCTAGGCCACAGGGCAGGGAGAAGAGAAGGCATTAGTAAGAAAAAAA
TAGAAAAAAATATGAACAGACTCAGCTTTGGGACGTCCAACCACAAAAGAAATTATATATAAATATATATAAATA
TATATCTCTACCATATGTGATGGAAAGACTTTTTGTTTCTTTCCCAAAGAAATAAAACGGAAAAAGCC

3160/5332
FIGURE 2770

GTTCCTGCACTGAGGCCCTCGTCAATGGTGGCGCCTGTGTGGTACTTGGTAGCGGCGGCTCIGCTAGTCGGCTTTAT
CCTCTTCCTGACTCGCAGCCGGGGCCGGGCGGCATCAGCCGGCCAAGAGCCACTGCACAATGAGGAGCTGGCAGG
AGCAGGCCGGGTGGCCAGCCTGGGCCCCCTGGAGCCTGAGGAGCCGAGAGCTGGAGGCAGGCCTCGGCGCCGGAG
GGACCTGGGCAGCCGCCTACAGGCCAGCGTCGAGCCCAGCGGTGGCCTGGGCAGAAGCAGATGAGAACGAGGA
GGAAGCTGTATCCTAGCCCAGGAGGAGGAAGGTGTGAGAAGCCAGCGGAACTCACCTGTGGGGAAAATTGG
AGCTAAGAACTGCGGAAGCTGGAGGAGAAACAAGCGCGAAAGGCCAGCGTGAGGCAGAGGAGGCTGAACGTGA
GGAGCGGAAACGACTCGAGTCCCAGCGCGAAGCTGAGTGGAAGAAGGAGGAGGAGCGGCTTCGCCTGGAGGAGGA
GCAGAAGGAGGAGGAGGAGAGGAAGGCCCGCGAGGAGCAGGCCAGCGGGAGCATGAGGAGTACCTGAAACTGAA
GGAGGCCCTTTGTGGTGGAGGAGGAAGGCGTAGGAGAGACCATGACTGAGGAACAGTCCCAGAGCTTCCTGACAGA
GTTTCATCAACTACATCAAGCAGTCCAAGGTTGTGCTCTTGGAAGACCTGGCTTCCCAGGTGGGCCTACGCACTCA
GGACACCATAAATCGCATCCAGGACCTGCTGGCTGAGGGGACTATAACAGGTGTGATTGACGACCGGGGCAAGTT
CATCTACATAACCCCAGAGGAACTGGCCGCCGTGGCCAACCTTCATCCGACAGCGGGGCCGGGTGTCCATCGCCGA
GCTTGCCCAAGCCAGCAACTCCCTCATCGCCTGGGGCCGGGAGTCCCCTGCCCAAGCCCCAGCCTGAACCCCCAGTC
CTTCCCTCTTGGACTCAGAGTTGGTGTGGCCTACCTGGCTATACATCTTCATCCCTCCCCACCATCCTGGGGAAG
TGATGGTGTGGCCAGGCAGTTATAGATTAAAGGCCTGTGAGTACTGCTGAGCTTGGTGTGGCTTGGTGTGGCAGA
AGGCCTGGCCTAGGATCCTAGATAAGCAGGTGAAATTTAGGCTTCAGAATATATCCGAGAGGTGGGGAGGGTCCC
TTGGAAGCTGGTGAAGTCCTGTTCTTATTATGAATCCATTTCATTCAAGAAAATA

3161/5332
FIGURE 2771

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAGATTCTAGGAGATAAGTTTCCATGCACTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCTACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCCTCAGCACCGGGGACCCAAGCCAGCCCGTGCGCCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCCAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCTTCAGGGTTTCCCCTTTGTGAGGGTGTCGAGTAGCCTCACC
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCCTTAGGATT
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGCTTTTAAATGCAGTAAATAACATTTCTGGATGAGA
CTTGTTTCCAAAATAAACAGCTATATCTGTTTTG

3162/5332
FIGURE 2772

GCAAGATGGCAGCCACCACAGGCTCAGTAGTAAAAGTCCCTTGCAATTTCCAAGTGTGGAAGAACTCGAAGAAA
GCCAGAAAGGAGTAGGAGATGACACAGTTAGCTGGGGTCTAGAAGATTACGAAGACATGACACTTACAAGATGGA
CAGGGATGATAATTGGGCTCCAGGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATATGGACCTA
AATACTCAGAAGCACCCCCCTTTGTAATATTTGTAACAAAAAATTAATATGAATGGAGTTAATAGTTCTAATGGA
GTGGTGGACCCAAGAGCCATACCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAG
TTTCGGCGCCTAATGATGTCTAAAGAAAAATATGAAACTCCCTCTGAGATTGGCCTTTGGTGAGGAATTCAGAGCT
TTCCCATATCTTCTCTCCCCACCTTTATCGAGGGGTGCTGCTTTTATTCCTCCTCAAGATCCTTTTGCAC
CATCACCACCAACACCTTCCATGAGACTTCCTTGCTTTGGCCAGAAGACATCAGGTAAGGTTGGAAGAGTCTT
TGACTCCCTTGTTTAATTTGTAACCATACTTATTCACCTCTCCACC

3163/5332
FIGURE 2773A

ATGTGTGGCTGCAGCGGCGGCAACTGAGGCAAGGCTGAGGAGGAGGACGGCGGCGACGGCAGCGCTCGCGGGCAGG
AGCGGCGGGCCGCACTGGGACTGGGACGTGACCAGGGCTGGGAGGCCGGGGCTGGGGGCCGGGCTGCGCCTCCCG
CGGCTGCTGTCTCCACCGCTGCGGCCACGGCTGCTGCTGCTGTTGTTGCTCTCGCCGCCGCTGCTGCTGCTG
CTGCTGCCCTGTGAGGCCGAGGCCGCGGCGGCGGCGGCGGGTGTGCGGCTCAGCCGACGCCGAGGCCAAGGAA
TGTGACCGGCCCTGTGTCAACGGCGGTGCTGCAACCCTGGCACC GGCCAGTGCGTCTGCCCGCCGGCTGGGTG
GGCGAGCAATGCCAGCACTGCGGGGGCCGCTTCAGACTAACTGGATCTTCTGGGTTTGTGACAGATGGACCTGGA
AATTATAAATACAAAACGAAGTGACGCTGGCTCATTGAAGGACAGCCAAATAGAATAATGAGACTTCGTTTCAAT
CATTTTGTACAGAGTGTAGTTGGGACCATTTATATGTTTATGATGGGACTCAATTTATGCACCGCTAGTTGCT
GCATTTAGTGGCCTCATTTGTTCTGAGAGAGATGGCAATGAGACTGTCCCTGAGGTTGTTGCCACATCAGGTTAT
GCCTTGCTGCATTTTTTTAGTGATGCTGCTTATAATTTGACTGGATTTAATATTACTTACAGTTTGTATGTGT
CCAAATAACTGCTCAGGCCGAGGAGAGTGTAAGATCAGTAATAGCAGCGATACTGTTGAATGTGAATGTTCTGAA
AACTGGAAGGTGAAGCATGTGACATTCCTCACTGTACAGACAACCTGTGGTTTTCTCATCGAGGCATCTGCAAT
TCAAGTGATGTGAGAGGATGCTCCTGCTTCTCAGACTGGCAGGGTCTGGATGTTCAAGTTCCTGTACCAGCTAAC
CAGTCATTTTGGACTCGAGAGGAATATTCTAACTTAAAGCTCCCCAGAGCATCTCATAAAGCTGTGGTCAATGGA
AACATTATGTGGGTTGTTGGAGGATATATGTTCAACCACTCAGATTATAACATGGTTCTAGCGTATGACCTTGCT
TCTAGGGAGTGGCTTCCACTAAACCGTTCTGTGAACAATGTGGTTGTTAGATATGGTCATTCTTTGGCATTATAC
AAGGATAAAATTTACATGTATGGAGGAAAATTGATTCAACTGGGAATGTGACCAATGAGTTGAGAGTTTTTCAC
ATTCTAATAGATCATGGGTGTTGTTGACCCCTAAGGCAAAGGAGCAGTATGCAGTGGTTGGGCACTCTGCACAC
ATTGTTACACTGAAGAATGGCCGAGTGGTCATGCTGGTCATCTTTGGTCACTGCCCTCTCTATGGATATATAAGC
AATGTGCAGGAATATGATTTGGATAAGAACACATGGAGTATATTACACACCCAGGGTGCCCTTGTGCAAGGGGGT
TACGGCCATAGCAGTGTTTACGACCATAGGACCAGGGCCCTATACGTTTATGGTGGCTACAAGGCTTTCAGTGCC
AATAAGTACCGGCTTGCAGATGATCTCTACCGATATGATGTGGATACCCAGATGTGGACCATTCTTAAGGACAGC
CGATTTTTCCGTTACTTGCACACAGCTGTGATAGTGAGTGGAACCATGCTGGTGTGTTGGAGGAAACACACAAT
GACACATCTATGAGCCATGGCGCCAAATGCTTCTCTTCAGATTTTATGGCCTATGACATTGCCCTGTGACCGCTGG
TCAGTGCTTCCCAGACCTGATCTCCACCATGATGTCAACAGATTTGGCCATTCAGCAGTCTTACACAACAGCACC
ATGTATGTGTTCCGGTGGTTTCAATAGTCTCCTCCTCAGCGACATCCTGGTATTCACCTCGGAACAGTGTGATGCG
CATCGGAGTGAAGCCGCTTGTGTTAGCAGCAGGACCTGGTATTCGGTGTGTGTTGGAACACAGGGTCCGTCTCAGTGT
ATCTCGTGGGCGCTGGCAACTGATGAACAAGAAGAAAAGTTAAATCAGAATGTTTTTCCAAAAGAACTCTTGAC
CATGACAGATGTGACCAGCACACAGATTGTTACAGCTGCACAGCCAACACCAATGACTGCCACTGGTGCAATGAC
CATTGTGTCCCCAGGAACACAGCTGCTCAGAAGGCCAGATCTCCATTTTATGGTATGAGAATTGCCCAAGGAT
AACCCCATGTACTACTGTAACAAGAAGACCAGCTGCAGGAGCTGTGCCCTGGACCAGAACTGCCAGTGGGAGCCC
CGGAATCAGGAGTGCATTGCCCTGCCGAAAATATCTGTGGCATTGGCTGGCATTGTTGGTGGAACTCATGTTTG
AAAATTACTACTGCCAAGGAGAATTATGACAATGCTAAATTGTTCTGTAGGAACCAATGCCCTTTTGGCTTCT
CTTACAACCCAGAAGAAGGTAGAATTTGTCCTTAAGCAGCTGCGAATAATGCAGTCATCTCAGAGCATGTCCAAG
CTCACCTTAACCCCATGGGTGCGCCTTCGGAAGATCAATGTGTCTTACTGGTGTGGGAAGATATGTCCCCATTT
ACAAATAGTTTACTACAGTGGATGCCGTCTGAGCCCAGTGATGCTGGATTCTGTGGAATTTTATCAGAACCCAGT
ACTCGGGGACTGAAGGCTGCACCTGCATCAACCCACTCAATGGTAGTGTCTGTGAAAGGCCTGCAACCCACAGT
GCTAAGCAGTGCCGGACACCATGTGCCTTGAGGACAGCATGTGGAGATTGCACCAGCGGCAGCTCTGAGTGCATG
TGGTGCAGCAACATGAAGCAGTGTGTGGACTCCAATGCCCTACGTGGCCTCCTTCCCTTTTGGCCAGTGTATGGAA
TGGTATACGATGAGCACCTGCCCCCTGAAAATTGTTACAGGCTACTGTACCTGTAGTCATTGCTTGGAGCAACCA
GGCTGTGGCTGGTGTACTGATCCCAGCAATACTGGCAAGGGGAAATGCATAGAGGGTTCCTATAAAGGACCAAGT
AAGATGCCCTTCGAAGCCCCCTACAGGAAATTTCTATCCACAGCCCCCTGCTCAATTCAGCATGTGTCTAGAGGAC
AGCAGATACAACCTGGTCTTTTCACTGTCCAGCTTGCCAATGCAACGGCCACAGTAAATGCATCAATCAGAGC
ATCTGTGAGAAGTGTGAGAACCTGACCACAGGCAAGCACTGCGAGACCTGCATATCTGGCTTCTACGGTGTATCCC
ACCAATGGAGGGAAATGTGACCATGCAAGTGCAATGGGCACGCGTCTCTGTGCAACACCAACACGGGCAAGTGC
TTCTGCACCACCAAGGGCGTCAAGGGGGACGAGTGCCAGCTATGTGAGGTAGAAAATCGATACCAAGGAAACCTT
CTCAGAGGAACATGTTATTATACTCTTCTTATTGACTATCAGTTTACCTTTAGTCTATCCCAGGAAGATGATCGC
TATTACACAGCTATCAATTTTGTGGCTACTCTGACGAACAAAACAGGGATTGGACATGTTTATCAATGCCTCC

3164/5332
FIGURE 2773B

AAGAATTTCAACCTCAACATCACCTGGGCTGCCAGTTTCTCAGCTGGAACCCAGGCTGGAGAAGAGATGCCTGTT
GTTTCAAAAACCAACATTAAGGAGTACAAAGATAGTTTCTCTAATGAGAAGTTTGATTTTCGCAACCAACCCAAAT
ATCACTTTCTTTGTTTATGTACGTAATTTACCTGGCCCATCAAAATTCAGATTGCCTTCTCTCAGCACAGCAAT
TTTATGGACCTGGTACAGTTCTTCGTGACTTTCTTCAGTTGTTTCCTCTCTTTGCTCCTGGTGGCTGCTGTGGTT
TGGAAGATCAAAACAAAGTTGTTGGGCCTCCAGACGTAGAGAGCAACTTCTCGAGAGATGCAACAGATGGCCAGC
CGTCCCTTTGCCTCTGTAAATGTCGCCTTGGAACAGATGAGGAGCCTCCTGATCTTATTGGGGGGAGTATAAAG
ACTGTTCCCAAACCCATTGCACTGGAGCCGTGTTTGGCAACAAAGCCGCTGTCTCTCTGTGTTTGTGAGGCTC
CCTCGAGGCCTGGGTGGCATCCCTCCTCCTGGGCAGTCAGGTCTTGCTGTGGCCAGCGCCCTGGTGGACATTTCT
CAGCAGATGCCGATAGTGTACAAGGAGAAGTCAGGAGCCGTGAGAAACCGGAAGCAGCAGCCCTGTCACAGCCT
GGGACCTGCATCTGATGCTGGGGCCAGGGACTCTCCACGCACGAGCTAGTGAGTGGCACACCAGGCCATCTGC
AGGGAAGGGCGTGGCGGGGAAATGGCTGTGCGGTGCGGGACGGAAGACTGGAAACCCTCAAAGCATCTGACTCAC
CTGCATGATCACAAGCTTTCTTTGACGGTTTCTCCCATCCGTGTTCCAGCATCTAACCTTTTACTTTTGCATAGG
AAATACTTGATTTAATTACAGGTCCAGGGATGAGCTGATGGTTGCTGGAGGAGGCCAGTGTAGAGCCAGTGAGAG
AACTAGGAATGACACTCAGGTTCACTGTGGAACCTGTTCTTGGGACTGTCTCAACTGTGCAAAAAACAAAAGAT
GGAGTGTTTACAAGTAGACATTGTCATCAGTTGTTCTTGAACATGGTCTTTAAAACTAGTCAGATGAATTGT
TTTCATCTGAAGCCTGCTATCTTTTTTAAAGATGTGCTATTTATTCTTGACGATTTAGGCAATTATCTCTCTT
CCAGGGAGTACCTTTTTTTCTAGTTGAGAATTAATAATGGTCCATCTCTTTTGATCATATCAAGCTAGGATAGAA
GGGGGGCTATTTTAAATGTCAAGGTGAGCAGTGTACTTTGAATGTAACTGGTATAATAGGTAGTTTCTATAG
TAACTTGATTAATTTAGTCTTAATCCATTTGAACTCTCTCTTCTCTCTGCTGTCCTCTCCTTCTCCA
TCTCACCTTCCCTCTCTCACACATACACACACAAACATACACACAACTAAGTGCCTAGACTTTAAATAGAT
CTAGCAATTGGAAAGTTAGTAAGCCTAAGTTTTTACATAATTGCATTCTTGTAAAATTTAAATAGCT
ACCATTGGCAATCTGCTTTTTTTCTAAAATCTGATTTGCAGCCAGGAAAGAAATTTCTCACCAAGGAACATTTG
ATCTAGCAGCAGGGATGAGAGGAAAGCAGAAATGAATGAAGTGTGAAAGCTCCTGTTTTTATTATCAAAAAGGAC
ACTGTCAAGAAGGCGCCCCCTGCCCCACCCCGTGTCAACCTAGGCCTGATAAGCGATCAGAGGAAAGGACTCA
TTCATGTACGCTTCTTTGAGCAGAAAAGAGCACTGAGAGCACTTGGGACCCCTGGATCAGAGAGCATCTGTGTG
TCTGTCAGCCTCCTCTGAACCTGTGTTTCACTTCTCAGGCTGGGGTGGACTCAGATGCCAGGAAAGGACAGCCTC
CCATTGTCAGGCAGAAGCTGCCCAAAGCCTGGAGAAGGACTTGTTTGCCCTCTTTCCCCCAGGAGGGGCTCGACC
CACCCACCTTCCCTCTCAGACCAAGGTGGTGGCTGTGAGGAGGGCAGCAAATGCTGACAAGGATGAAAAGCACAT
GGAAAAAATGATGAGGAGGGGAAACTCTGCCAATGGAATGACCAAATTTAAGAGGGTGGGACAGTCCCCT
GCTCTCTCCCAGAGGGCACTGCTTGAAATTGTGTTTTCCCATTTATGGTGCTCTGTATTCTGGCATTATGCA
GCAGCCTCCAGAAAGCTCTCTGCTTCAAAACCTGGGATCTCTGGCATTACCCTATTGGGATGGACCGCTGGA
CAGCAATGCTCGAGTTTGTGAATTTGGAGAGATACTCAAAAGAGCTAAAACCTGCAGCATTTTACCTTTAAATGCA
GTGCCTAGAGAGAGAGTATTGTCTCTTCCCCAACCTAACCCCACTCCCATGAAGAATTGCCTGGAAAGATGTTT
TCAAGGAATTTGAACCATAAAACACTATCTGATGCACAGAACACCTCTACTTTGAGACTCACCTCTCATAAAGCT
TCTTTTTACATTACTGTTAAAGACCAGACGTTCTAGAAAAGACCCCTCCTCTCATGAGCTCCCCCATCCCTGCT
ACAGAACACAGCACCCATGGCGCTGCAGTGGACTGGCCCCCTTAATCCACAGGCCCCCCCCAGCAAGGCCAAAG
GGAGGCCCCCTGGGTATTGTCTCTTACAAGGAAGATCCTCTTTGTTTGTTCAAAGGACCAGTTTTCTAGGCCAA
AGAAGTCTCTTCCCCATGTTAGTCCTATGCCTTGAATATCATGCACCATGACCCACAGCCATCTGGTTATGTCT
TATTTTTTCTTAAAGATAATGTTTATTTTTTAAAGGAAGGAAGGAGCAAGTGAAGTTTCATTCTGCTCCAGC
GGTGGGGAAGCCGCTGAATCCACCTGCTTCTCCTTTGCAACCGACAGCAACAGCTTTCTCCGGCCTCAGGGCAG
AAAAAGGGAATGGCAGGGAGTAAGAGGCGCTGGGCTCGGAGCCTGTTTCCAAGAAGGAATTGGTTGTCATCTGGC
AGTGTGCGCGTCACAAGAGAGCCTGTATATAAATTTAAATAGTCAAGACAACACTGACCTTGCACTTGACATA
ACTATACAGTAGTGTCCAGAAATGTTTCAGACATTGAGAGTGTACATAAAACAGAAAAAATCTTCATGTATTTTAT
TAAATATAACAATGTCTGAGTTTACCTAAGATGTTTTTGTGCCATATGCTGGATATCCAGGTTCTCGCCAGGCC
CCGATACATGAATAACAAACCCAAAGAAACGCATCCCCATTGTGTGATGTGTTTCAAGATGCATCTGGCACCAATTAG
GTATTTCTTAAACAGGACTCATCTGTGAGAGTGCACATGAAAAATCAGGCAGGGAATCGAAACGACAGTGTGG
AGGAGACTCAGGAAGCAGAGGCGTCCCTGCCGCTGCCCTTGCCCTGCAAGCACATCATGACCTTTCTGGCAGC
CTCTTGGTGCTCTGGGTAGTGAGGGATGACCAGTCTGTCTGAGAAATGTTTCTTCTTAGTCTTTAAGTTCAAAG

3165/5332
FIGURE 2773C

ACTAACCTGTAGCAATCAGACTTTCCAAAAGGGGGTCTCCATTTTTGTAGTTTTGTCTAAATTTTAATGACC
ATTTCTTGGAAATCAGTTTTATTATACTGAAAACCTGGGGGTGGGAGTAGGGAGCTAGTTTTGTTGATAAATAGTTCCC
ATTTCCCATGGAGAATTTGACATACCCTGGACTCCTGTGTGCCTCCTGCCATCCCTGCACACAGCCTGGGGAGA
AGCCTGTGCCTCCCCGTGTGGAGAGAAGGCAACCCAGATCCCCTGAGCTAACCCGGAGGAAAGGCAGTCCTGGA
CAGAAGACTGTCAGCAGAAGGAAAGTACTGGACTACCCGTGGGTAAAGTCCTGCCATTCAAGACTGGAGACACCTG
GGAAATAAAAAGAGCAGGGCACTGCTGGTGGGAAGAGGCATTTTACCTTCCAGTGCAAATCCTGCTCCTTTGATT
TAATGGGGTGTACTGGGGCCAGGGGCTGATTCACTTCCTTGGGAGATGGTGGTGTTCATGAACATCTTTGATC
CTTCCATTTCAATTTATTCATCCATCCATTCAACAAGTATTTGCTAAACACTAACTTAAGCTAATGCTAGGGTAGT
GACTGAGATGTAAAAATAGATTTTAGAATTAACAAAATCCAAGTCCTCACACCCCTGTCATCCCAGGAGATCT
TTCCCTTGTGGTGGTTTTCTGTGAGAATTGGCCATCCTGAGGACACAGCCAGGACGGCAGAGGCCTCCTGGCCTCAG
GGCATGCCCTGCCTACCTTCTGAAATGTTTACCCCATTGACCAAACCTTGGCTCCAGCCATTGCGGTGGTTTTCTAG
ATAGCCAGGCCCCACCAAGAGATATTGCCCTTGATGAGAGTCAAACACCCCTGCCTACAAGGAGATGTTTTGAAAT
GGAGAGGAAAATTGGCACCTCATCTTTTAAAGGCAGTAATGGAATTGATTTTCAGTAACTGAATTTGTGCACAAA
ACATTTCTAAACACTAGTGAAGCCTGTTTCGTTGAACTAATTCTGGCTCTGGAAATGTTTTGTGTTTATAGTTATT
TACGATTTTCGTTTGTGTTGGATTCAAGCTTAGTTTGTAAATATGTATAATTTAGCATCTATTACACTCATGTAAAT
ATGGAGTAAGTATTGTAACTATTTTCATCGCGGGGATTGTGGGTGTTATACATACATTTAGGACTGCAATTTTTT
GGTATTTTTTGTATTGTAAATAACAGCTAATTTAAGCAGGAACAAGAGAACTAAGGGAGGICTGTGCATTTTAA
ACACAAATGTGAAGAATTGTATATAAACAAGTAAATACTATAATACAACTTCCTTCTGAAATAAAGTAGA
TCTGGT

3166/5332
FIGURE 2774

CTAAAGGAAGATGGAGACAATACTGGAGCAGCAGCGCGCTATCATGAGGAGAAGGAAAGGCTCATGGACGTCAT
GGCCAAAGAGATGCTCACTAAGAAGTCCACGCTCAATTCTGATCACCGCACTCAGGCCATGCAAGATATCTGTGT
GCCAATGTCAGTGAAATTTGAGGAGCTCCTGAAGGCTCAGAGAATCCAAGTGAAGAGGCACAAAACCTGGTGGAG
TTCACAGATGAAGAGGGATATGGTCGTTACCTCGATCTCCGTGACTGTTACCTCAAGTACATTAACGTGAAGGCA
TCTGAGAAGCTGGATTATATCACATACCTGTCCATCTCTGACCAATTATTTGACATTCCTAAAGAAAGGAAGAAT
GCAGAGTATAAGAGATACCTAGAGATGCTGCTTGAGTAACTTCAGGATTACACAGATAGAGTAAAGCCTCTCCAA
GATCAGAATGAACTTTTTGGGAAGATTCAGGCTGAGTTTGAGAAGAAATGGGAGAATGTGACCTTCCTGGATGGG
CGAAAGAGACAAGCAGCGCTCTGACCCATGCTGGAGCCCATCTTGACCTCTCCGCCTTCTCCTCCTGGGAGGAGT
TGGCCTCTCTGGGTTTGGACAGATTGAAATCTGCTCTCTTAGCTTTAGGCTTGAAATGTGGCGGACCGTAGAAGA
GCAAGCCCAGAGACTATTCAGTACCAAAGGAAAGTCCCTGGAGTCACTTGATAACTCTTTGTTTGCCAAAAATCC
CAAATCAAAGGGCACCAAGCGAGACATTGAGAGAACAAAGACATTGCTTTTCTAGAAGCCCAGATCTATGAATA

3167/5332
FIGURE 2775

AACGAGCTGCGGGCCCGGATCGCGCGGCTGGACGGGGCTGGAGCTGTGCGGAGGGCGGAGCTACAGGGCCTGC
AAGGATGTTGGCTGTCCCGAGATGGGCCTGCAGGGGCTGTACATCGGCTCCAGCCCGGAGCGGTCCCCAGTGCC
TAGCCACCCCGGCTCCCCGAGGACCCAGGAAAGCTGCGGCATTGCCCCCTCACACCCTCGCAGTCTCCAAAACC
CGAGGTCGAGCCCCCAGCAGGCCTCCTTCTCTGTGGTGGTGGCCATTGACTTCGGCACCACGTCTAGTGGCTA
TGCTTTACGCTTTGCCAGTGACCCTGAGGCCATCCACATGATGAGGAAATGGGAGGGCGGAGACCCGGGCGTGCC
CCACCAGAAGACCCCGACCTGCCTGTCTGCTGACTCCGGAGGGCGCCTTCCACAGCTTTGGCTACACCGCCCGCA
TTACTACCATGACCTGGACCCCGAAGAGGCGCGGACTGGCTCTACTTCGAGAAGTTCAAGATGAAGATCCACAG
CGCCACGGATCTCACCTTGAAGACCCAGCTAGAGGCAGTAAATGGAAAGACGATGCCCGCCCTGGAGGTGTTCCG
CCATGCCCTGCGCTTCTTCAGGGAGCACGCCCTTCAGGAGCTGAGGGAGCAGAGCCCATCGCTGCCAGAGAAGGA
CACTGTGCGCTGGGTGTTGACGGTGCCTGCCATCTGGAAACAGCCAGCCAAGCAGTTTCATGCGGGAGGCTGCCTA
CCTGGCTGGACTAGTGTCCCGAGAGAATGCAGAGCAGCTACTCATCGCCCTGGAGCCCGAGGCGGCTCGGTATA
CTGCCGCAAGCTGCGCTGCACCAGCTCCTGGACCTGAGTGGCCGGGCCCCAGGTGGTGGGCGCTGGGTGAGCG
CCGCTCCATCGACTCCAGCTTCCGTGAGGCTCGGGAGCAGCTGCGAAGGTCCCGCCACAGCCGCACGTTCTGGT
GGAGTCAGGCGTAGGAGAGCTGTGGGCAGAGATGCAAGCAGGAGACCGCTACGTGGTGGCCGACTGCGGCGGAGG
CACCGTGGACCTGACGGTGCACCAGCTGGAGCAGCCCATGGCACCCTCAAGGAGCTCTACAAGGCATCTGGGGG
CCCTTATGGCGCGGTGGGCGTGGACCTGGCCTTCGAGCAGCTGCTGTGCCGCATCTTCGGCGAGGACTTCATCGC
CACCTTCAAAGGCAACGGCCGGCAGCCTGGGTAGATCTGACCATCGCCTTCGAGGCTCGCAAGCGCACTGCTGG
CCCACACCGTGCGAGGGGCGCTCAACATCTCGCTGCCCTTCTCCTTCATTGACTTCTACCGCAAGCAGCGGGGCCA
CAACGTGGAGACCGCTCTGCGCAGGAGCAGCGTGAATTCGTGAAGTGGTCCCTACAGGGGATGTCCGAATGTC
TTGTGAAGCCATGAACGAGCTCTTTCAGCCACCGTCAGCGGGATCATCCAGCACATAGAGGCCCTGCTGGCACG
GCCGGAGGTGCAGGGTGTGAAGCTGCTGTTCTAGTGGGCGGCTTCGCCGAGTCAGCGGTGCTGCAGCACGCGGT
GCAGGCGGCGCTGGGCGCCCGCGGTCTGCGTGTCTGGTCCCGCACGACGTGGGCTCACCATCTCAAAGGCGC
GGTGTGTTTCGGCCAGGCGCCGGGCGTGGTGGGGTCCGCCGCTCGCCGCTACCTATGGCGTGGGCGTGTCAA
CCGCTTTGTGCTGGGCGCCACCCGCCGAAAGCTGCTGGTTCGCGACGGCCGCGCTGGTGCACCGACGTCTT
CGAGCGCTTCGTGGCGCCGAGCAGTCCGTGGCCCTGGGCGAGGAGGTGCGGCGCAGCTACTGCCCGCGCGCTCC
CGGCCAGCGGCGCTACTCATCAACCTGTACTGTGCGCGGCAGAGGATGCGCGCTTCATCACCAGCCCGGCGT
GCGCAAATGCGGCGCGCTCAGCCTCGAGCTTGAGCCCGCGACTGCGGCCAGGACACCGCCGGCGCGCTCCCGG
CCGCCGCGAGATCCGCGCCGCCATGCAGTTTGGCGACACCGAAATTAAGGTACCGCCGTCGACGTCAGCACCAA
TCGCTCCGTGCGCGCGTCCATCGACTTTCTTTCCAACCTGAGGGCGCGCCGGCGCGGTGCCAGCGCGTCTGCCCG
GCCCCGCCCTCTTTTCGGTTTCAGGGGCTGCGGAGCGGGTTGGGGCGGGGAAACGATAGTTCTGCAGTCTGCGCC
TTTCCACGCCCTCCAGCCCCGGGGGAGATAAGGTCATGGGAGAGTGGGTGGGGACACACCCAGAGACTGGCTTTG
GGATTGGGCACTGGTCCGCTGACTGCCAGGCTGAAGGACCCGCCAAGGACTGAACGGGTAAGAGAAGAGGTTTG
CAAGACAGAGCGCGCAGCCCGCAAGGGGCATGTGACCCCGAAGGAAGAACGCAACAGAAGAGTCTGGTCTGAA
CTTGGCCGAGTAGGGGTGGGGTGGGATGGCAGGAGGAGCCGAGGAGGAAGGAGGTTGTGCAGGGTCTGGACCT
GCAGGGCTGAAGTTCACTCATCGACCGACTCAGCCCCAACCGGGAGCCAGGCAGAAAAACCCTGTGCCGTAGGAA
AGTGAAGTGAAGTGGACTCCAGAGGGACAGGTGTGGTGGCACAGTCTGGTGTGGTGTGACCACCCAAATATGA
CTGTGAATTGTGGAAGGGCAGTAGATCTCTAATGTGGAGGTGGGAACATTATTGTGGTGGAGGCAATTATGAGG
GTAGCATTTCTTTTCGAGACAAAACACCCGCTCTGGGAAGGCCCAAGGTCAGCTTATGAAGGACCCCACTTGACC
CCACCCAGCCATGGAAGAGCAGCTGGAGGGTGGATGGGGAGGCCAGAGGGAGCAATGAGGGGTGGTCCCAGCTC
TGCTATTGACTCGGTATGCCTTTAGGACATTCTTTACCGCTCATGGGCTCAGTTTCTTAAAGTGTGAAATGTC
AGGCACTTCCCTCTAACTGGCATGCAACAGCCCCACCTGCCTGAGAGCCCTGAGGTGACAATAAAACATTTATGC
TCAAGGGG

3168/5332
FIGURE 2776

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCCGCTGCAGTGGTTCGTCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCCATGGCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGAGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGGCCGTCCTTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGCTTTGACTGAGGCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCCACGC
CTCTCACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCTCCCTCGTCTCCTCTCCCCTTCTCTCTCTGTG
TGCTCAGTCTCCTGCCGGAAGAAATGGGTTGAGCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCACCAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAATTCCAGTGGAT

3169/5332
FIGURE 2777

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGGCGCTTCAACATCCCGCGCTCCACGCTGAGCACGATCCTGAAGAAACAAGCGCGCCATCCTGGCGTCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCTGCCGGTCAAGGGCATCATCCTCAAGGAGAAGGGCGTG
CGCATAGCCGAGGAGCTGGGCATGACGACTTACCCGCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTGACAGCGGCGTGGCCCGCGCCCGCGCGGAAACGCTGCCCCCGCACCCCGGGCGGCGCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCCTCGCAGGACGTGTTACGCGCCACCGAGACCACTATGGTACGACTTCTGCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCTGAGCGCTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCCAACCTCAAGGGTGGTGTACCACCCAGGCCCTGGCCAAGTACTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGGTCTGCTGTTGGCCGGCGCTTGGCTGCCAGTCTTTGGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTACGGAGGCCCTGCACTTGTGGCTGCCGCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCTGCTTTCTGTAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCACTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTGGAA
GGTGGGGAGGACTCTGATTCAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCGTGACCCAGCTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGACAGGCCACATCCTCCACTTGGAACACGATCTGGTTTAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACCCCCAGGGCAGAGGACTCTTGCGGCACCCGCTGTGCATGGAGCCAG
AGTGACAGAGCCCCAGATCCTTTAGTAATGCTTCCCTGGTCCTGCAACAGGCCCGGTACCTCGGCCGGGCCGG
GGCTGAGGTGAGCCTCACTGCCTGCTTATTGCTCTTTCTCAGAATCCTCTTTTCTCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCCCGGCCGGAGAGTGCTCTCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCACCCCCACCCCCAGGCCGCTTGAGAAGCACAGTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTCCACCTCCCCAGTCCCTTTCTTGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTCCAGATTGGAG
GTTTCCAAGAGGCCCCCCACCGTGGAAGTAACCAAGGGCGCTTCTTGTGGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTCCCAGTTTGATTTCAATAAATCTGTCCACTCCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

3170/5332
FIGURE 2778

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCCCTCCCTCCCTCCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG

GAGGTGCCCCAGCCGGAGCCCCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCCGGGCTCCTGCTGGGATCTCATGGCTCCTGGGGTCCCCGGTGCGGGCGGCCGCTTCTCGCCG
GTCACCACCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCTGTGCTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTCCA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCCGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCTCCTCTCCCATCTTGGCTGCAGGATGGATTTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTCATTAGTGGCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGAGAAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCTCCTCCGCTCAAAATCACTGTGTACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTACAGACAGTA
GACGGAAGCACCAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGGCCCTGGAACCGCAGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCAGGACTACCGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAAGGGCCTGCGCCAGTCTGCTACCTCCCTTGCCTTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCGG
GCTGAGGGCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCTGCCTGTCTGCCCCAGC
CCAGATTCCTCTGTGTATCCCATCATTTTCCATATCCTGGTGCCCCCACCCTGGAAGAGCCAGTCTGTGA
GTTAGTTAAGTTGGGTAAATACCAGCTTAAAGGCAGTATTTGTGTCTCCTCAGGAGCTTCTTGTTCCTTGTAG
GGTTAACCTTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAACTCCTTCTGGCTGAGAGTCAAGCTCTGTGCCCTGTGTACTTCCCGGGC
CAGGGCTGCCCTAATCTCTGTAGGAACCGTGGTATGTGTGCCATGTTGCCCTTCTCTTTTCCCTTTCTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCTTATTTCAAGTGTACCTGTGTGCTTGGT
CTGTTTGACTTTACGCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCAGTTTTGTTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCCAGCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTTGCTGCTGTC
TTGTTGGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCTTGCAT
ACCCAAACCAGGTGGGAGCGTTTTGTTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGGA
CAAAAATATTTACACTTAGGTTTGGAGCTATTCAAGAGGAAATGTCACAGAAGCAGCTAAACCAAGGACTGAGC
ACCTCTGGATTCTGAATCTAAGATGGGGGCGAGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGCGCT
TGTTCAATAAAGCACTGAGCAAGTTGAG

3171/5332
FIGURE 2779

GTATGAACGCAGCGGCGGACCTGTGAGGGGATCCGACTTGCCGGGCAGAACTTACGCTGCGGGACCCCGGGCACTG
TTGCTGCTGCGGGAGACTGTGGGCTGTTTAGTGCCATGCACCCTTTACAGTGTGTCTCCAAGTGCAGAGGTCTC
TGGGGTGGGGACCATTTGGCCTCTGTGTCTTGGCTGTGCTGAGGATGTGCAGGGCACACAGCAGTCTCTCTAGTA
CCATGTGTCCCAGTCCAGAGAGGCAGGAGGATGGAGCTCGGAAGGATTCAGCTCCAGGCTGGCTGCTGGACCGA
CTTTTCAACATTTTTTAAAAAGTGCTCAGCTCCTCAGGAGAAGCTGTCTTCAGAAGTGGAAAGACCCACCTCCCT
ATCTCATGATGGATGAACTTCTTGAAGGCAGAGAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGA
ATGACACAGAGATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATG
TGATTCTCCTTGTACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTAAAG
CCTTGAAGACAAGGCGGCCCCGCTCCCGGGTTCCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGAGAGGTTGA
AGGAGGAGATTCTCAACAGAGAGAAAATGGTAGATATTTGGCTGGTCTGATGCCTACCGGGACCTTCCCCGGC
TGCTGGCTGTTGCTGAGTCGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTGACGAGACCTATGCTGATGTCA
TGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCCTTGTGTCAATCATGCGAGGCTGTGACAACATGTGTAGCT
ACTGCATTGTTCCTTTACCCGGGGCAGGGAGAGGAGTGGCCTATTGCCTCCATTCTAGAGGAAGTGAAGAAGC
TTTCTGAGCAGGGGCTGAAAGAAGTGACACTTCTTGGTCAGAATGTTAATAGTTTTCGGGACAATTCGGAGGTCC
AGTTCAACAGTGCAGTGCCTACCAATCTCAGTCGTGGCTTTACCACCAACTATAAAACCAAGCAAGGAGGACTTC
GTTTGTCTCATCTTCTGGATCAGGTCTCCAGAGTAGATCCTGAAATGAGGATCCGTTTTACCTCTCCCCACCCCA
AGGATTTTCTGATGAGGTTCTGCAGCTGATTCATGAGAGAGATAACATCTGTAAACAGATCCACCTGCCAGCCC
AGAGTGGAAAGCAGCCGTGTGTTGGAGGCCATGCGGAGGGGATATTCAAGAGAAGCTTATGTGGAGTTAGTTCACC
ATATTAGAGAATCTATTCCAGGTGTGAGCCTCAGCAGCGATTTTATTGCTGGCTTTTGTGGTGAGACGGAGGAAG
ATCACGTCCAGACAGTCTCTTTGCTCCGGGAAGTTCAGTACAACATGGGCTTCCTCTTTGCTACAGCATGAGAC
AGAAGACACGGGCATATCATAGGCTGAAGGATGATGTCCCGGAAGAGGTAAAATTAAGGCGTTTGGAGGAACCTCA
TCACTATCTTCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGCTAGTGGAAG
GGCTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGGAACCTTAAGGTGATCTTCCCTGATGCAG
AGATGGAGGATGTCAATAACCCTGGGCTCAGGGTCAGAGCCCAGCCTGGGGACTATGTGCTGGTGAAGATCACCT
CAGCCAGTTCTCAGACACTTAGGGGACATGTTCTCTGCAGGACCCTCTGAGGGACTCTTCTGCATATTGCTGAC
CTGAGAGGATGGCCTCAGAGCTGACTTGGGCAATCCTCCCCAACAGGAAGGGGAGACATTGCCTGCCACTGAGGA
AACAGGTGATGAAGGTGGAGATAAGCTGCAAGGGGCGAAGCAACTTTATGTCAGTGGAACCGTGTCTCTTTAAA
GCTGCTATGTGAACAGCTTTTACAGTCATTAAATTTACCTAAACTAAGGTT

3172/5332
FIGURE 2780

CCCTTCTGACCCACCCCGCTAGGTAGTCCCACACGGCGGCCCTCGGCTCCCGGGCCCCGCCCCGGCCTCCTGCAT
TTGCCCCGAGGCCCCCTCCCCAGCACTGGCCACACCCAGGGTAGCCCCGCCCCCAGAGCTCCTCCCCAGCGGCC
GGGGTAGGGTGGCGGCTGGCCCCAGCCGGGCCCCCGCTGCCCTCTGCCCTGGGCGCTTGGTCGGAGCGGGCTGGGC
AAAGCGGGACAGGGCGAGCGCGGGCGGCCCGGGGGCTCGGAGGCGAAGATGCGCTCCGGCAGGCGCGCCCCGCGCA
CCGGGCTGCTGGAGCTGCGCGCCGGGGCGGGCTCGGGGGCCGGCGGCGAGCGATGGCAGCGGGTGTCTGAGTC
TGGCGGAGGACGTGCTGACCGTGAGCCCCGCCGACGGCGACCTGGTCCCAGACCCGGCGCTCCGCGGGAGCAGG
AGCCCGCGCAGCTCAACGGCGCCGCGGAGCCGGGCGCCGGGCCCCCGCAGCTGCCAGAGGCGCTACTGTCTCCAGC
GGCGCCGCGTGACGGTGCGCAAGGCCGACCGCGGTGGGTGGGCATCAGCATCAAAGGCGGGGAGAACAGA
TGCCTATTCTCATTTCGAAGATCTTCAAGGATTGGCAGCTGACCAGACAGAGGCCCTTTTGTGGGGATGCCA
TCCTGTCTGTGAATGGGGAAGACTTGTCTCTGCTACCCATGATGAGGCGGTGCAGGTCTCAAGAAGACAGGCA
AGGAGGTGGTGCTGGAGGTCAAGTATATGAAGGACGTCTCACCGTATTTCAAGAACTCTACTGGTGGGACCTCGG
TCGGCTGGGACTCACCTCCTGCCTCACCCCTTCAGCGGCAGCCTTCCTCCCCTGCCCCACACCCCGGAACCTCA
GCGAGGCCAAACACATGTCTTGAAGATGGCATATGTCTCGAAGAGGTGCACCCCCAATGACCCGGAGCCAGGT
ATCTGGAGATCTGCTCGGCAGATGGTCAAGACACCCCTCTTCTGAGGGCCAAGGATGAGGCTAGTGCAGGTCTGT
GGGCGACTGCCATCCAAGCCCAGGTCAATACTCTGACGCCGCGGGTCAAGGATGAGCTGCAGGCACTGTGGCAG
CCACCAGCACAGCTGGGAGCCAGGACATCAAGCAGATTGGCTGGCTAACTGAGCAGCTGCCAGTGGGGGCACAG
CCCCACCCCTGGCCCTGCTAACTGAAAAGGAAGTGTCTCTACTTGTCTCTCCCGAGACCCGCGAGGCCCTGA
GCCGGCCAGCCCGTACTGCCCCACTCATCGCCACCAGACTGGTGCAGTCAAGGCCCTCCAAGGGCTCAGTGCCT
ACGATGCAGAGCTCTCTTTTGCCCTGCGCACGGGCACGCGTACGGTGTGGACACTCACCTGTTACGCTGGAGT
CACCGCAGGAGCTGGCTGCCTGGACCCGCCAGCTTGTGGATGGCTGTACCGGGCCGCGAGGGTGTGCAGGAGG
TGTCTACAGCCTGCACGTGGAATGGGCGTCCCTGCAGCCTGTCTGTGCACATCGACAAGGGCTTCACACTGTGGG
CGGCTGAGCCAGGTGCAGCCCGAGCTGTGCTCCTGCGACAGCCCTTCGAGAAGCTGCAGATGTCTTCAGATGACG
GTGCCAGTCTCCTTTTCTGGATTTTGGAGGTGCTGAAGGCGAGATCCAGCTGGACCTGCACTCGTGTCCAAAA
CCATAGTCTTCATCATCCACTCCTTCCTGTGCGCCAAAGTCAACCGCCTCGGGCTGTTGGCCTTAGAAGTCGCCGG
ATGCACTAGCCCTGAAGAGGGGTGCCATGACATGGCCTGAGCTGGGCCTCCACCGACTGCCTGCTCACCCCTGG
GCTGAGGGAAGGGAGAGGAGAGGAACAAGGGCCTCCGAAACCCCAACCTGAGGGAGACTGGATTGGTCTTGGGG
CCCAGGACCCAGACGCAGGACAGAGTGGACTCTGCCTGTGATGGGGTGGCCTTCCTGCTGCCCCCTCCACCAGT
GCCTTTTGAGAGAGATATTTTGTGTACACAGAAGCCATTCCGAGTCTGGGACCTGCCCTGTGCGGATCCTGAC
CCCAGCCAACAGCTGAGCTGCCGGGCTCCTCGAGGCCCTAAGCCACCCCCAGAGGTCCCATCTGAAGCTGGAG
TACCCTGGGGTCAGCAGCAAGAGAAAAGAGGAGATTTCTGTTTGTTCCTCAGCCCTGCCACCGTGGG
GAGTCTGGTTTTTCTCTTCATCCTGTCTCTCTCCTTACTCTTGATAAAATAAACAGCCTGTGAGCACACAGG
CAGCCCCGCCCCAGTG

3173/5332
FIGURE 2781A

GGAAGGGTAGTGGAGAGAGAGGAAGCAGGAGGGAGGGAGAAAAAGAGAGAGACTGACTGTATCTGGGGATTCTGG
CAAGGTGAAGAGCTGGTCTGTTTGGCAGGACCTTCCCATCTGGGATCCATCTGTGTTTTCCCTGGAATGGGACAGG
CAGCTCTAGTCAGTGAGAAATCGCAGATGTGAGAGAGCTGACACATGTCCAGCTAATGAAAGGAGGAGGAAGGCT
GGTCTCCGATTGAGCTTTGAAGATTAGGAGGAGAAAAAGAGGAGCTTTGGAATATCTATTTCAAATAAATTTGGT
GTATTTAAGAATCTGGATTGTTTATAATTTGGGCATTTGGGTTGGTCTCGAGAAAAGGGTGCCAGCGATGCTGG
ATCGCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCCACCATGCCACCCCTCCCACCAATAAATCCTGG
AGGACCGAGGCCAGTGTCTTCACTCCTACTGCATTAAGCAATGGCATCAACCATTCTCCTCCTACCCCTGAATGG
TGCCCATCACCGCCACAGAGATTGAGCAATGGTCTGCTCCTCCACATCATCTGCACTCACAATCAGCAATT
GCCAGCCACTTGTGGTGTCTGACAACCTCAGCAAGTTGAAACGCTTTCTTACCACTCTGCAACAGTTTGGCAATGA
CATCTCCCTGAGATTGGGAGAAAGGTGCGGACTCTTGTCTTGCAGTGGTGAACCTCAACAGTGACAATTGAGGA
ATTCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCTTTCGTCTTTTGTGATTCCATTTCTCAAGGCCAACCT
GCCCCGTCTGCAGCGGGAAGTCTGCTGCACTGCGCTCGGGCGGCCAAGCAGACCCCATCCCAGTACCTGGCTCAGCA
CGAACACCTTCTGCTCAACACAAGCATTGCATCGCTGCTGACTCGTCAGAGTTGCTCATGGAGGTGCACGGAAA
TGGGAAGAGGCCAGTCCAGAGAGGAGAGAAGAGAATAGTTTGTAGAGACACAATTGCTCCTGAGCCTCCTGC
CAAGAGAGTATGTACCATCAGCCCTGCTCCTCGGCACAGTCTGCTCTCACTGTGCCCTCATGAATCCCGGGG
CCAATTCATCCTACCCCTCCACCTCTTCAGCATTACACCTTAGAGGATATTGCAACTTCTCACCTGTATCGGGA
ACCAACAAGATGCTAGAGCATCGAGAAGTTCTGTATAGACACCACAGTCTTGGTCTAAATGGAGGCTATCAAGA
TGAGTTGGTAGATCATCGTTTGACAGAAAGGGAATGGGCTGATGAATGGAACATCTTGACCATGCGCTGAATTG
CATTATGGAATGGTAGAGAAAACAAGGCGCTCTATGGCAGTTCTGCGGCGCTGTGAGGAATCAGATCGTGAAGA
ACTCAACTACTGGAAGACGGTACAATGAAAACACAGAGCTGAGGAAAACGGGGACCGAGTTGGTCTCCAGGCA
GCACAGCCCTGGGAGTGCAGATTCTCTCAGCAATGATTCTCAGAGAGAGTTCAACAGCAGGCCAGGTACAGGATA
CGTACCTGTGGAGTTTGGAAAAAACAGAAGAAGCTGTGAATAAGGTGAAAATTAGGCCATGTGAGAAGTACA
GAAGGCCGTGCTGAGGCAGAGCAGAAAGCCTTTGAAGTGATTGCAACAGAGAGACGACGAATGGAGCAAACCAT
AGCGGATGTCAAGCGGCAGGCCGAGAGGATGCTTTCCTCGTCATCAATGAGCAAGAGGAGTCCACGGAGAATG
CTGGAAGTGTGGCCGCAAGCCAGCGAGCATGCACTGGCTGCAATATCGCGCGATACTGTGGCTCTTTCTGCCA
GCCAAGGACTGGGAGCGGCACACCGCCTCTGTGGTCAAGAACCTGCATGGCCAGAGCCCCACGGCCAGGGCCG
GCCGTGCTTCTGTAGGACGGGGCTCCTCTGCCAGGTCCGCGACTGCAGCGTGCCAGCCAGCCCTCGACAA
GACCTCGCAACACATCGGTTTCTCAACACCTGCTTCTGTGACAGCTATCGACACCAACGGACTCTGAGCCCC
GGACTCTGCTTACCCTGATGGCTGCTCAGCACCACAGAGTGCTTGGGCTGAGGGACTGACTGTTGGAACCCGTGC
ATGTAGCTGCCGGTCTATCAGCAAGAAATGAATTGGAGGCAGGAAGAGTCCAAGCCTGAATAATAACCCCCACA
GCCTCTCTGTGCACTTGTCTGTGCGGAGCCAGTGTGCCATTCTCTGCACATGGGCAGCCAGCCTGAGCTGCCTC
CTCCATGGCTTTCTGTTTGTCTCTCTCCACTGAAGCTGACTTAGCCGGCCCCCTTTTCAGTGTAGACCACCA
GCTCCCCCTCCCATCTCCTTGAGTCAGCAGACTGTCCAATGTGCTCAGCCAGGCTGGAGGCGGCAGGCGGCAGGC
AGCAGGCTGTGGAGGAGGCCCTCGGTGAGGAGCGGCTGCCTCACCCCTGAATAGCTCCTTCGGCCCCATCTC
CATCCTCAGCAGATGACACTGATTGGCCTCACGGGACTTGGGTAAGCAACAGGCGGCATTACAGACTCTTCTCA
ACCCGTGCTGTTGAGACTTGATAAGATCTCAGAGTCCACAGGAAAGAAGTCACTGTTGCAATAAAGCACCCGTAG
TAGCAAAAACATAAAACAAATAAACTTCCCCACATCAGATGATTTTGGACAAGATTTTCCAACCTTGCTGG
CTACTTTAGTTTGGGACCTGTTTTTTTTCTCATTTGATTTTGTCTGTGAGAAAATAGTTTCCAGCACATGGATT
GATCTGAGAGAGAATGAGGCTCAGTTGTGGATAGTCTGTTTTCTCTGAGCATGTTGGCCAACTAGTATCGTCAA
TTATTGAGTGGATCATCTCTTGGAAATGCAGAACTTCTGCCACCACTTGGCTATTGACAGTCATCTTGTCTG
TGTCCTTTTATCTCTCAGACCACACATCTGGAACGCTGTGGGCATCTTCTGCCATGGGCTCCATTTGGCACC
TGCTGAGCCACAGTTGTCTGTGATGTGCTGTGCAAGTTGGTAGGACTTGCCCCACTGTCAAGGCCTGGTCT
CATCTGAAAAGCCCTCCTGGACCTCAAAGAATTCTTCAGACCTCATAGTTACAGGTCATTATATCTACTATGTTG
ATTTATCATCAGGCACACAACCTCTGTTTCTCTTCTGTGTTATCTGATAGCGTCCCTCCTTGAGCTCATCAGA
AAGGTTTTATGAAATGTGAACCATTTTGGGAAAAGCTGATCAATTTTTCTTCTAGCTTCCCATTTTCAAATGGG
ACATCACTCATATCCCTTTTCAAGTGTAGGAAGTGCCTCCACATTCTTCCCTGTCTTTTGGGTTTTGTTTTT
TGTTGTTGTGGTGGTTTTTTTAAACAAAACCTGGGCAACAGAGCAAACTCTGTCTCAAAAAAAAAAAAAAAAAAGG
CAAAATTAAGAATTTCAAGTCCCTAATTTACTCTAACCAAGCATTTTCAGTCTTACAAAGAAATCTAGTGACG

T

3175/5332
FIGURE 2782

GGCGCCGGCGCCAAGGGGCGGCCTCTAGCCACACCGAGTCCGCCGCGGCGTCCAGGGTCCGGCAGCAACCGCAGCC
GAGCCCGAGCGGGTGGCGCGGCCATGCGGTGCGCGGGGCTGCTCACCGTGTGCCTGCTCCGGCCGCCCGCGCCCC
AGCCCCAGCCCCAGACCCCGCGGCACCCCCAGCTCGCGCCCCGACCCGGGGCCCGCGGACACACGCTCTTCCAGG
ACGTTTTCCGCAGAGCAGACAAGAATGATGATGGGAAGCTCTCATTGAGGAATTCCAGAATTACTTTGCCGATG
GGGTCTCAGCCTGGGGGAGCTGCAGGAAGTGTTCAGCGGCATTGATGGGCATCTCACCGACAATTTAGAAACAG
AAAACTGTGTGACTACTTCTCAGAGCACCTGGGTGTCTACCGGCCGGTGTGGCTGCATTGGAATCGCTGAACC
GTGCAGTGCTCGCTGCCATGGATGCCACCAAGCTGGAGTACGAGAGGGCCTCCAAAGTGGACCAGTTTGTGACGC
GCTTCCTGCTGCGGGAGACGGTGAGCCAGCTGCAAGCCCTTCAGAGCTCGCTGGAGGGGGCGTCAGATACCCTGG
AGGCCCAGGCCCCATGGCTGGCGGTGAGATGCAGAGAGCGTGGAGGCGCAGAGCAGGCTCTGCGGCAGCCGGCGGG
CAGGACGCCGAGCCCTGAGGAGTGTGAGCCGGTTCATCCACTGGTCCCCCGGCTCTTCTGACACAGGGCGCAGCT
CAGAGGCCGAGATGCAGTGGCGGCTCCAGGTGAACCGCCTCCAGGAGCTCATCGACCAGCTCGAGTGCAAGGCCC
CCCGGCTGGAACCCCTGCGTGAAGAGGACCTGGCCAAGGGGCTGACTTGACATCCTCATGGCCCAGAGGCAGG
TCCAGGTGGCAGAGGAAGGCTGCAGGACTTCCACCGAGCCCTGCGCTGCTATGTGGACTTCACAGGGGGCCAGA
GCCATTGTCTGCAGTGAAGTCCGCCCAGAAGATGCTGGACGGTGCCTCCTTCACCCTGTATGAGTTCTGGCAGGAT
GAGGCCTCCTGGAGAAGGCACACAGCAGTCGCCTGGCAGCAAGGCCTTCAGCGCATCCTCATCGACCACCTGCGG
GCCCCGGACACCCTCACCCTGTGTTCTTCCAGCCTCCTGGTGGATAATGAATAACAACCTGAGCCAGACCTGCA
CACGCCGAGGGCCCCGGGACCCTGCCTGCCTCCCTCTGGAGCCTTCTGGACTGGCCAGCCAGCGCAAAGACCAG
GACTTGTCTCCTCCTGGACTTGGGCCTGGTGGAAAGGGCTCTCAGCCCAGGGATCAGGGACTGGGCTGCTTGCTTT
CTATTTATTATTGATTTATTTATCCCTGTATTTATTGTTTGTCACTTCAGCCTCCAAGCTACTTTGGCTTCTGC
CTGGCTCAGGAGACCTGGATTCTGGTCCCTGCTGTCCCTGCCTGGCTGAGCGACCCAGGGCAGGTCCCGTCCCTG
TCTGGGTGGGCCTCAGGCCATCTGGCCGCCTAGCGAGGGTCTGCTTCTTCTGCTGTCTTGGGACCAGGCTTC
TGCTCCTCCTCAGCCAGCGGCAGAGCAGGGCTGATGCTCAGGGACCCCCAACCTCAAACCTTGCTTCCGAGG
CTGGGCCTGAGCTGGGTGCCCCGTCGCCCTCCAGGCCACTAGGCTCTGACTCTTCCAGCACCCATGGATGTGCC
AGAGGCCTCTGGGTGGTTTGCATGTCAATTTGCATATCGTTTGCATGCCCTCATCCACCCATTCTCAGGGCAGT
ATGGGAAGCCCCAAGGTGACCTGGCCAAGTAGCAATAATTTGGGTCCAGGGTCACCTATTGCCCCCAGAGGCCTC
TGAACCCAGGCTGGGACCCAGCACAGAGGCAATAAAGGCAGTGGTCCCTTCC

3176/5332
FIGURE 2783

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGCTCTCCCCAGAACCCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGACGAGGACCGCCTGTCCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTCTGACAGGGCT
TGGAGGGACAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTCGGCCCTTTTGCTCTGGGGGTCCACAAAGGCCAGGGCAGTGCCCTGCTCCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAAGTGAAGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCCATTTCTCCACTTC
CCTTCTCCCTGTCCGTGCCCCGATTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCTCGCTGTTTTGGT
CCTAACTCAAAGCAGATCCAGTAAAGGTTTTTGTGT

3177/5332
FIGURE 2784

GTGCGCTTACAGTTCCTAACCCCGACCCTGCGCGCAGCCCGCACTATGGCAGCCCCGCCGCAGCTAAGGGCTCTG
CTCGTAGTCGTCAACGCACTGCTGCGCAAGCGCCGCTACCACGCTGCGTTGGCCGTGCTTAAGGGCTTCCGGAAC
GGGGCTGTCTATGGAGCCAAAATCCGGGGCCCTCACGCGCTGGTCATGACCTTTCTCTTCCGGAATGGCAGCCTC
CAGGAGAAGCTGTGGGCCATACTGCAGGCCACATATATCCACTCCTGGAACCTGGCAGGTTTGTGTTCACCTAC
AAGGGTCTCCGTGCCCTGCAGTCTACATACAAGGCAAGACCTACCCAGCACACGCATTCTGGCGGCCTTCCTC
GGGGGTATCCTGGTGTGGAGAAAACAATAACATCAACAGCCAGATCAACATGTACCTGTTGTCACGCGTCCTG
TTTGCCCTGAGCCGCCCTGGCTGTAGAGAAGGGCTACATCCCTGAACCCAGGTGGGACCCGTTCCCGCTGCTCACT
GCGGTGGTGTGGGGCTGGTGTGTGGCTCTTTGAGTATCACCGATCCACCCTGCAGCCCTCGCTGCAGTCTCTCC
ATGACCTACCTCTATGAGGACAGCAATGTATGGCACGACATCTCAGACTTCCTCGTCTATAACAAGAGCCGTCCC
TCCAATTAATGCAGCCCTGAGGTGTCTGGCTGTGGCTCAAGATTTGGCCCCATGCAGACCCTCCCAAAGGATACT
GCCTTCTCAAGATCATAGGCCTCAGACTCCAACCTGGTGTTATCCCAGGGTTCCGTTTGCTGAAGTAAAAAACTG
ATTTTAAAAATCCAGTGGGTACCTTTGTATGGTGGCACAAGTGGCCGAATCAGGCTGAGGAATCTACGGCTTGGT
TCCAGCTGTGCAGCTGACTTCTGTGAGACTGGGGCCAGCCACACTACTCTCTAGGCCTCAGGGGTCAAGGAGCTC
AGAGGAGGGCCCTGAGGTCTCTTTCCGGTGGGTATGTTTATTCTTCAACTGTTCTTATGTCACAGAGGGCTCCTT
GCTGGTGGGCAGTGGGTTGTAAATACTTTTTAAAAAACACTAAGTTCCTTATCTCAGATGCTGTTCTACTGGAGA
AGTTCTAGATTCCCACTGTCCAATAGAAACACGTGAGCCATATATGTAATAAAATGTTTCTAGTAGCTGCATTA
CAAAAAAGAAGCCTGGGCACTGTGGCTCACTCCTGTAATCTCAGAAGTTTGGGAGGCTGAGGCAGGTGGATCACT
TGAGCTCAGGAGCTTGAGACCAGCCTGGGCAACATGGTGAAACCCAGTTTCTAC

3178/5332
FIGURE 2785

GAATGGACAATCAGACCGTTCTGGCTGTCCAGTCATTATTGGATGGCCAAGGAGCAGTCCCTGATCCGACAGGCC
AGAGTGTCAATGCGCCCCCTGCTATCCAGCCATTGGATGACGAGGATGTATTTCTCTGCGGGAAAGTGTAAAGAAGC
AATTCAACTCGCTGCCAGCGTTTATGACCCACAAGCGGGAACAGTGCCAGGGGAATGCCCCCGCCCTGGCCACAG
TCTCACTGGCCACCAACAGCATCTACCCACCTTCGGCAGCACCCACAGCGGTCCAGCAGGCCCCAACTCCTGCCA
ATCGCCAGATCTCCACATACATCACAGTGCCCCCGTCCCCACTGATCCAGACCCTGGTGCAGGGGAACATCTTGG
TGAGCGATGATGTGCTCATGTCTGCCATGTACAGCCTTCACATCCCTGGACCAGCCCATGCCCCAGGGCCCCCAC
CTGTGCAGGTGCCAAACCAGTGTGTGGAGCCTCCAGTATATCCACCCCCACAGTGTACAGCCCTGGCAAACAGG
GATTCAAACCCAAAGGACCAACCCCGCGCCCCCATGACCAGCGCCACCGGGGGCACGGTGGCCACCTTTGACT
CTCCAGCAACGCTGAAGACCCGACGAGCTAAAGGTGCCAGGGGACTCCCGGAAGCTGCAGGGAAGCCAAAGGCTC
AGAAACTCAAGTGCTCATACTGTGACAAGTCATTACCAAAAACTTTGACCTGCAGCAGCACATCCGAAGGTACA
CATGCGTGGAGGGCACTGACAAGCTTGTCTTCCACAGCCACACCGGTGAGAAGCCCTTCCAGTGCATTGCATGTG
GCCGTGCCTTTGCCCAGAAGTCTAATGTTAAGAAACACATGCAGACCCACAAGGTGTGGCCTCCAGGACACAGTG
GTGGCACCGTGTCTCGAAACTCTGTGACCGTACAGGTCTATGGCCCTGAACCCAGCAGGCAGGAGGACGAGGAAA
GCACAGGGTTGGGGCAGCCCCCTGCCGGGTGCCACAGCCCCAGGCCTGTCCACAGCTGGTGAGGAAGAGGGGG
ACAAGCCGGAGTCCAAGCAGGTGGTCTCATCGACAGCTCCTACCTGTGCCAATTCTGCCCCAGCAAATTCAGCA
CCTACTTCCAGCTCAAGTCTCACATGACCCAGCATAAGAATGAGCAGGTGTACAAGTGTGTGGTCAAAAGCTGTG
CCCAGACGTTCCCAAAGCTCGACACATTTCTGGAGCACATCAAGAGCCACCAGGAGGAGCTGAGCTACCGCTGCC
ACCTCTGCGGCAAGGACTTCCCCTCGCTGTACGACCTGGGCGTGCACCAGTACTCCACAGCCTCCTGCCACAGC
ACAGCCCCAAGAAGGACAATGCCGTCTACAAGTGTGTCAAATGTGTCAAACAAATACTCCACCCCTGAGGCCCTGG
AGCACCACTGCAGACCGCCACTCACAACTTCCCCTGCCACACTGCCAGAAGGTGTTTCTTGTGAACGCTACC
TGCGGCGTCACTGCCCCACCCACGGCAGCGGGGGCAGGTTCAAGTGCCAAGTGTGCAAGAAGTTCTTCCGGCGGG
AGCATTATCTCAAATGCATGCTCACATCCACTCGGGTGAGAAGCCCTACAAATGCTCAGTGTGCGAGTCTGCGT
TCAACCGCAAGGACAACTGAAGAGACACATGTTGATCCACGAGCCCTTCAAGAAATACAAATGCCCTTTCTCGA
CGCACACAGGCTGCAGTAAGGAGTTCAACCGGCCGACAAAGCTGAAGGCCACATCCTCTCCCACTCTGGCATGA
AGTCCACAAATGCGCCCTGTGCAGCAAGTCCTTCAGCCGCGTGCCACCTCGCCGAGCATCAGCGCGCCACA
CGGGCAACTACAAGTTCCGCTGTGCTGGCTGCGCAAGGGCTTTTCCCGCCACAAATACCTCAAAGATCACCGCT
GTCGTCTCGGCCCCCAAAGGACAAGGACCTGCAAACCCGGCGGCCCCCAGAGGAGGGCAGCCCCCGCAGTT
GCGGCAGTGGTGGGCGCAAGGTGCTGACCCCTTGCCCTGACCCGCTGGGGCTGGAGGAGCTGAAGGACACAGGGG
CTGGGCTGGTGCCGAGGCTGTCCCCGGCAAGCCGCCCTTCGAGAGCCGGACGCGGTGCTGTCCATCGTTGTGG
GTGGTGGGTGGGCGCGGAAACTGAGCTGGTGGTACCTGGACACGCTGAGGGGCTGGGCTCCAACCTGGCTCTGG
CGGAGCTGCAGGCTGGGGCCGAGGGCCCATGTGCCATGCTCGCTGTGCCCGTCTACATCCAGGCCTCCGAGTGA

3179/5332
FIGURE 2786

CAGCTGCGGGGCGGAGGCGGAGGCGGAGGAGAGGCCTGCGGCGGCAGGGAGCGGCGGGACTGGGAGCGGGCGCCG
GAGCCGACCCGAGCCGAGCCGAGCCGAGCCGAGCCGAGCGGGCGGCGGAAGGCCGCGCGGCGAGCAGCAACCA**T**
GTCGGTGTTTCGGGAAGCTGTTCGGGGCTGGAGGGGGTAAGGCCGCAAGGGCGGCCGACCCCCAGGAGGCCAT
CCAGCGGCTGCGGGACACGGAAGAGATGTTAAGCAAGAAACAGGAGTTCTTGAGAAGAAAATCGAGCAGGAGCT
GACGGCGCCCAAGAAGCACGGCACCAAAAACAAGCGCGCGGCCCTCCAGGCACTGAAGCGTAAGAAGAGGTATGA
GAAGCAGCTGGCGCAGATCGACGGCACATTATCAACCATCGAGTTCCAGCGGGAGGCCCTGGAGAATGCCAACAC
CAACACCGAGGTGCTCAAGAACATGGGCTATGCCGCCAAGGCCATGAAGGCGGCCCATGACAACATGGACATCGA
TAAAGTTGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAACTTGACAGAGGAGATTTCAACAGCAATTTCGAA
ACCTGTAGGGTTTGGAGAAGAGTTTGACGAGGATGAGCTCATGGCGGAATTAGAAGAACTAGAACAGGAGGAACT
AGACAAGAATTTGCTGGAAATCAGTGGACCCGAAACAGTCCCTCTACCAAATGTTCCCTCTATAGCCCTACCATC
AAAACCCGCCAAGAAGAAAGAAGAGGAGGACGACGACATGAAGGAATTGGAGAACTGGGCTGGATCCAT**GTAATG**
GGGTCCAGCGCTGGCTGGGCCAGACAGACTGTGGTGGCCTGCGCAGCGAGCAGGCGTGTGCGTGTGTGGGCGAG
GCAGGATGTGGTGCAGGCAGGTTCCATCGCTTTTCGACTCTCACTCCAAAGCAGTAGGGCCGCGTTGCTGCTCACT
CTCTGCATAGCATGGTCTGCACCTGGGAGATGGGCGGGGGGAGGGGGGCGGGCGGGTGGGAAGTGCCTGCTGTT
TATAATGTTGAATTTCTGTAAAATAAACTGTATTTGCAAATCCAACATTGAGCTTCTGGACTACGCTGACTCCAC
TGCTGAATCCTCAATGGAAAGGGTCGACTGGTTGCAGTTGAAATGACCTGAAATGTAGCCTCTGTCTTGTAAAGT
CAGTTGACTTGCCGCACATCTCTTTGTGTACTTGTACGGTACTGGCAGAAAAGTCATTTTTCAAAGCCATAGGC
TTTTCTTGCCCTTAGCTGTAATAATGCATCTGATTTTGATTTCCCTCCAGAGCTGTGTTTCTGTCCATCACCTGT
GTATTGGCCCTGTGTTTACCACCTCTGGCCCACTCCTCACCCCTTGCTCCCCTGGTCTTCTGGAGTTTGTGACAT
TGATTTGAAATGGATGGTGTCTCTTGAGAGCAAGTGAGATTGTTAGAATTAAGTTCCAACATATACAGTTTCTA
ACATAGCTATAAGGTCCTTGTTGCTGTTTGTGATAACTGATAGATAACTCATTGGAAACGTGCATACATTTATAT
TCAGATGAAATTATGGTTTGCAGTGTCTATTAAATATCTCGATTAAATTTTC

3180/5332
FIGURE 2787

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGCGAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCGTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTCACTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCGCTGTGTCGCCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCAACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGAGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGCGGCGGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCATAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCTGGATGCCACCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGCTGCACTGCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCATACTACCTCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGTTTGGCGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCC

3181/5332
FIGURE 2788

GGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCTGGGGCTGACCCGTCTGACTTCCCGTCCGT
GCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAG
AAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCAGCCTTCAGAAACAAA
GAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCT
GATGATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGAT
GAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTT
GACATTATGCTTGGCAATAAAAAAGAAGAAAAAGAAGTGTAAAGTTCCCAGATGAGGATGAAATACTAGAGAAA
GATGAAGCTCTAGAAGATGAAGACAACAAAAAAGATGATGGTATCTCATTCAAGTAATCAGACAGGCCCTGCTTGG
GCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCA
GATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACT
TCTTTTGTCAACTTTACAGATATCTGTAAACTATTACATCGTCAGCCCAAACATCTCCTTGCAATTTTGTGGCT
GAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATA
GAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTCACACATGCCGATCACCGGACACAATCCTGCAG
AAGGACACACGACTCTATTTCTACAGTGCGAAACTTGTCATTCTAGATGTTCTGTTGCCAGTATCAAAACCGGC
TTCCAGGCTGTCACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAA
GCTTGTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTATTAAAAACAAGATAAAAA
AGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTC
ATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATCGTTCATAGACT
TCTGTAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

3182/5332
FIGURE 2789

AGATGTTTATAAATCTTCTGTGGGATCAGAGGGCAAGCCTATTATAACCAGAAAACCTCCAAGTATAGCAGCAAG
GATGGATAAACAGGCTCTATTAGGGCTAAATCCAAATGCTGATTACAGACTTTAGACTAAGGGCCCTGGCCTATTT
TGAGCAGTTAAAGATTTCCTCCAGATGCCTGGCAGGTGTGTGCAGAAGCTCTAGCCCAGAGGACATATAGTGATGA
TCATGTAAGATTTTTCTGCTTTCAAGTACTGGAACATCAAGTTAAATACAAATATTCAGAACTAACCAGTGTTC
ACAACAATAATTAGGGAGACGCTCATATCATGGCTGCAAGCTCAGATGCTGAATCCCCAACCAGAGAAGACCTT
TATACCAATAAAGCCGCCCAAGTCCTCGCCTTGCTTTTGTGTCAGAATACTCTCACTAAGTGGCCCAAGTTTTT
TTTTTGACATTCTCTCAGTAGTGACCTAAATCCAAGGGGAGTAGATCTGTACCTGCGAATCCTCATGGCTATCA
ACTCAGAGTTGGTGGATCGTGATGTGGTGCATACATCAGAGGAGGCTCACAGGAATACTCTCATAAAAGATACCA
TGAGGGAACAGTGCATTCCAAATCTGGTGGAAATCATGGTACCAATATCACAAAATTATCAGTATACTAATTCTG
AAGTGATGTGTGAGTGCCTTGAAGTAGTTGGGGCTTATGTCTCTTGGATTGACTTATCCCTTTTAGCCAATGATA
GGTTTATAAATATGCTGCTAGGTCATATGTCAATAGAAGTTCTACGGGAAGAAGCATGTGACTGTTTATTTGAAG
TTGTAATAAAGGAATGGACCTGTGATAAAATGAACTAGTAGAATCTTGTGTCAAGTATTACAGTCTGCTG
GCTTTTTTACGATTGACCAGGAAGAAGATGTTGACTTCTTTTACGATTGACCAGGAAGAAGATGTTGGCCAGAT
TTTCTAAGCCGGTAAACGGAATGGGACAGTCATGGATAGTTAGTTGGAGTAAATTAAGTAAGAATGGGAATATTA
AGAATGCTCAAGAGGCACTACAAGCTATTGAAACAAAAGTGGCACTGATGTTGCAGCTACTAATTCATGAGGATG
ATGATATTTCTTCTAATATTGGATTTTGTATGATTATCTTCATATTTTGAACAGCTTACAGTGTCTCTCGGATC
AGCAAAAAGCTAATGTGGAGGCAATCATGTTGGCCGTATGAAAAAATTGACTTATGATGAAGAATATACTTTG
AAAATGAGGGTCAAGATAAAGCCATGTTTGTAGAATATAGAAAAACAACCTGAAGTTAGTGTTGGACAGGCTTGCTC
AAGTTTCACGAGAGTTACTACTGGCCCTCTGTTTCGAGAGTTTTTAGTTCTACACTGCAGAATTGGCAGACTACAC
GGTTCATGGAAGTTGAAGTAGCAATAAGATTGCTGTATATGTTGGCAGAAGCTCTTCCAGTATCTATCTCATGGT
GCTCACTTCTCAGGTGATGTTTCAAAAGCTAGTGCTTTGCAGGGTATGATGCGAACTCTGGTAACATCAGGAGTC
AGTTCCTATCAGCATACATCTGTGACGTTGGAGTTCTTCGAACTGTTGTTAGATATGAAAAGTTTTTCACAGTT
GAACCTCAGCACGTTCCATGTGTACTAATGGCTTTCTTAGATCACAGAGGCTGCGTCATTCCAGTGCAAAAGTT
CAGAGCAAGATGGCTTACCTGTTTTCTAGATTTGTCAAATCTCTCAATAAGCAAATGAATCCTTTTCATTGAGGAT
ATTTTGAATAGAAATACAAGATTTATTAAGCTTTCTCCACCTGAGAATGGCCACCAGTCCTTCTGAGCAGCGAT
GATCAAATTTTATTTATGAGACAGTTGGAGTGATGATTGTTAATAATGAATACCCGGCAGAAAGGAAAGAGCCT
TAATGAGGAATCTGTTGACTCCACTAATGGAGAAGTTTAAATTTCTGTTAGAAAATTTGATGCTGGCACAAGATG
AAGAAAGGCAAGCCTCTCTAGCAGACTGTCTCAACCATGCTGTTGGATTGCAAGTCGAACTAGTAAAGCTTTCA
GCAACAAGCAGACTGTGAAACAGTGTGGCTGTTCCGAAGTTTATCTGGACTGTTTACAGACATTCTTGCTGGCCC
TCAGTTGTCCTTACAAAAGGGTATTCTCAGAAGTGGAGTCTGTACTTTCTTCATCGAATGATTATTTGCCTGG
AGGAAGAAGTTTTTCCGTTTCATCCCATCTGCTTCAGAACATATACTCAAAGATTGTGAAGCAAAAGACCTCCAGG
AGTTCATTCTCTTATCAACCAGATTACGGCCAAATTCAAGGTACAAGTATCCCGTTTTTACAACAGATGTTCA
TGCCCTGCTTCATGCAATTTTTGAAGTGCTACTCTGGCCCGCAGAAGAAAATGACCAGTCTGCTGCTTTAGAGA

3183/5332
FIGURE 2790

CTGAGGCCAGCCCCCTTCGCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCCCTCGTCACCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCGCGTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTGAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCTTGGCC
GGTAGGTGCCAGATGGGGGTCCCGGGGAGTGAGGGAGGAGGGCAGAGTTGGGACAGCTTTCTGTCCCTGACAA
CTCCCACGGTCTTGGGCTGCCTGACAGGCACCTTGTAGCAGATGAAGGATGATGCCATTGTGTGAACATTGGACA
CTTTGACGTGGAGATCGATGTCAAGTGGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGA
CCGGTATCGGTTGAAGAATGGGCGCCGCATCATCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCAT
GGGCCACCCAGCTTCGTGATGAGTAACTCCTTACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCC
AGACAAGTACCCCGTTGGGGTTCATTTCTGCCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCCACCTGGGCAA
GCTGAATGTGAAGTTGACCAAGCTAACTGAGAAGCAAGCCCAGTACCTGGGCATGTCTGTGATGGCCCCCTTCAA
GCCGGATCACTACCGCTACTGAGAGCCAGGTCTGCGTTTACCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCT
CTCCTCCCTAAGAGCTAATGGCACCAACTTTGTGATTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGAT
CACTTAGTTTTTGGCCTCTGCTGCAGCCGTCTACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCTCTTCAA
GCCCCGGTCATGATGGAGGTCCCAGCCACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGT
CCTTCCTTAGCCTGGAAGTCAGTAGTGGAGTCACAAAGCCCATGTGTTTGGCATCTAGGCCTTACCTGGTCTG
TGGACTTATACCTGTGTGCTTGGTTTACAGGTCCAGTGGTTCTTACAGCCATGACAGATGAGAAGGGGCTATATT
GAAGGGCAAAGAGGAACCTGTTGTTGAATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCAT
TACAATGAGGTTAGTACTTTTAGTCCCTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAA
CAGAGAAGTGACAGCTAGGGGTTGAGAGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTAAATCTGCCACC
ACTTTATAACCAGATGGTTCCTTTACAACCCTGGGTCAAAAAGAGAATAATTGGCCTATAATGTTAAAGAAA
GCAGGAAGGTGGGTAAATAAAAAATCTTGGTGCCTGG

3184/5332
FIGURE 2791

AGTAGCTGTGGTCGGGGCTCGGGACCGGCTGCCATCTTAGTCTAGGGACTGAGGAGTCGCCGCCGCCCGAGTCC
CGGTACCATGCATTTACGGTGGCCTTGTGGAGACAACGCCTTAACCCAAGGAAGTGAAGTCAAACTGTGAGAAGT
TCAGGTTTTCCAACCTATTGGTGGTATGCTCTGACAGTGGATCACAAGTGGTTCAATGGGTAGCCTCACCATGAA
ATCACAGCTTCAGATCACTGTCTATCTCAGCAAACTTAAGGAAAAATAAGAAGAATTGGTTTGGACCAAGTCCCTTA
CGTAGAGGTACAGTAGATGGACAGTCAAAGAAGACAGAAAAATGCAACAACACAAACAGTCCCAAGTGGGAAGCA
ACCCCTTACAGTTATCGTTACCCCTGTGAGTAAATTACATTTTCGTGTGTGGAGTCACCAGACACTGAAATCTGA
TGTTTTGTGGGAAGTGTGCTGATTAGATATTTATGAAACATTAAAGTCAAACAATATGAAACTTGAAGAAGTAGT
TGTGACTTTGCAGCTTGGAGGTGACAAAGAGCCAACAGAGACAATAGGAGACTTGTCAATTTGTCTTGATGGGCT
ACAGTTAGAGTCTGAAGTTGTTACCAATGGTGAAGTACATGTTGAGAAAGTGTCTCAGAATGATGATGGCTC
CAGATCCAAGGATGAAACAAGAGTGAACAAATGGATCAGATGACCTGAAGATGCAGGAGCTGGTGAAGATAG
GAGAGTCAGTGGGAATAATTCTCCATCACTCTCAAATGGTGGTTTTAAACCTTCTAGACCTCCAAGACCTTCACG
ACCACCACCACCCACCCACGTCAGTACAGCATCTGTCAATGGTTCACCATCTGCCACTTCTGAAAGTGTGGGTC
TAGTACAGGCTCTCTGCCGCCGACAAATACAAATACAAATACATCTGAAGGAGCAACATCTGGATTAATAATTCC
TCTTACTATATCTGGAGGCTCAGGCCCTAGGCCATTAAATCCTGTAAGTCAAGCTCCCTTGCCACCTGGTTGGGA
GCAGAGAGTGGACCAGCACGGGCGAGTTTACTATGTAGATCATGTTGAGAAAAGAACACATGGGATAGACCAGA
ACCTCTACCTCCTGGCTGGGAACGGCGGGTTGACAACATGGGACGTATTTATTATGTTGACCATTTTACAAGAAGC
AACACGTGGCAGAGGCCAACACTGGAATCCGTCGGGAACATGAACAATGGCAGCTACAGCGTAGTCAGCTTCA
AGGAGCAATGCAGCAGTTTAAACCAGAGATTCATTTATGGGAATCAAGATTTATTTGCTACATCACAAAGTAAAGA
ATTGATCCTCTTGGTCCATTGCCACCTGGATGGGAGAGAGAACAGACAGCAATGGCAGAGTATATTTTCGTCAA
CCACAACACACGAATTACACAATGGGAAGACCCAGAGTCAAGGTCAATTAATGAAAAGCCCTTACCTGAAGG
TTGGGAATGAGATTACAGTGGATGGATTCCATATTTGTGGACCACAATAGAAGAACTACCACCTATATAGA
TCCCCGCACAGGAAATCTGCCCTAGACAATGGACCTCAGATAGCCTATGTTGCGGACTTCAAAGCAAAGGTTGT
GTATTTCCGGTTCTGGTGTGAGCAACTGGCCATGCCACAGCACATAAAGATTACAGTGACAAGAAAACATTTGTT
TGAGGATTCCTTTCAACAGATAATGAGCTTCAGTCCCCAAGATCTGCGAAGACGTTTGTGGGTGATTTTCCAGG
AGAAGAAGGTTTAGATTATGGAGGTGTAGCAAGTATGATAATATGAATACTCAGAACTTAGTTCCTTTCTCC
AAAGAGAATGGTTCTTTCTTTTGTACATGAAGTGTGAACCCAATGTATTGCCTGTTTGAATATGCAGGGAAGG
ATAACTACTGCTTGCAGATAAACCCCGCTTCTTACATCAATCCAGATCACCTGAAATATTTTCGTTTTATTGGCA
GATTTATGCCATGGCTCTGTTCCATGGGAAATTCATAGACACGGGTTTTCTTTACCATTCTATAAGCGTATCT
TGAACAAACCAGTTGGACTCAAGGATTTAGAATCTATTGATCCAGAATTTTACAATTCCTCATCTGGGTTAAGG
AAAACAATATTGAGGAATGTGATTTGGAAATGTACTTCTCCGTTGACAAAGAAATTTAGGTGAAATTAAGAGTC
ATGATCTGAAACCTAATGGTGCAATATTCTTGTACAGAAGAAAATAAGAGGAATACATCAGAATGGTAGCTG
AGTGGAGGTGTCTCGAGGTGTTGAAGAACAGACACAAGCTTTCTTTGAAGGCTTTAATGAAATCTTCCCCAGC
AATATTTGCAATACTTTGATGCAAAGGAATTAGAGGTCTTTTATGTGGAATGCAAGAGATTGATTTGAATGACT
GGCAAAGACATGCCATCTACCGTCATTATGCAAGGACCAGCAACAAATCATGTGGTTTTGGCAGTTTGTAAAG
AAATTGATAATGAGAAGAGAATGAGACTTCTGCAGTTTGTACTGGAACCTGCCGATTGCCAGTAGGAGGATTTG
CTGATCTCATGGGGAGCAATGGACCACAGAAATCTGCATTGAAAAAGTTGGGAAAGAAATTTGGCTACCCAGAA
GTCATACCTGTTTTAATCGCCTGGACCTGCCACCATAACAAGAGCTATGAGCAACTGAAGGAAAAGCTGTTGTTTG
CCATAGAAGAAACAGAAGGATTTGGACAAGAGTAACTTCTGAGAACTTGACCATGAATGGGCAAGAACTTATTT
GCAATGTTTGTCTTCTCTGCCTGTTGCACATCTTGTAATAATGGACAATGGCTCTTTAGAGAGTTATCTGAGTG
TAAGTAAATTAATGTTCTCATTTAGATTTATCTCCAGTGATTTCTACTCAGCGTTTCCAGAAATCAGGTCTGCA
AATGACTAGTCAGAACCTTGCTTAACATGAGATTTTAAACAACAATGAAATTTGCCTTGCTTATTCCACTAGT
TTATTCCTTTAACAACAATATTTTATGTGTGCAAAAGTCTCACTTGGGAGTAGTGTTTTTTCTTTTAGACATT
CTGCAGACATGCAGGGAAGTCTTTGGTAACTGCAATATACAAGATTTTCTATTAAAGCCTCTTGGTAAGAGGCA
TTTGTTAAAGTGAAGCTTACTCTGCTTCTGGGGATGTGAGCAAAATTCGGGCTTGTGTTCTCCCTCTCATTT
TAGTCTGACTTGACTATTGTTTTCTTTCTGGCGCATGAATCCATACATCATTCTGGGAAGTGAGGCAAGACTC
TTGCATCTCTACAAAGTAGTTTTGTCAATTTGAAT

3185/5332
FIGURE 2792

GGACTCGCTAAGTGTTTCGCTACGCGGGGCTACCGGATCGGTCGGAAATGGCAGAGGTGGAGGAGACTGAAGCG
ACTGCAGAGCCAGAAGGGAGTGCAGGGAATCATCGTCGTGAACACAGAAGGCATTCCCATCAAGAGCACCATGGA
CAACCCCAACCACCCAGTATGCCAGCCTCATGCACAGCTTCATCCTGAAGGCACGGAGCACCGTGCGTGACAT
CGACCCCAAGAACGATCTCACCTTCCTTCGAATTCGCTCCAAGAAAAATGAAATTATGGTTGCACCAGATAAAGA
CTATTTCTGATTGTGATTCAGAATCCAACCGAATAAGCCACTCTCTTGGCTCCCTGTGTCATTCTTAATTTAA
TGCCCCCAAGAATGTTAATGTCAATCATGTCAGTGGACTAGCACATGGCAGTCGCTTGGAACCCACTCACACCA
ATCCAGTGACCGTGTGTGGGCTGGCGGCTCTTCTCCCCACCAACGGAACCCCTGTGTGCACCAACCTTCCCCAG
AGCTCCGGAGCGCCCTCTCCTCACTTCCAGTTTTTGGAGCAAGAGCTTGCAGGAAGCCCGCACCCAGCTTCCTTC
TGACCTTCAGTTCACCTTTGTCGCCCTTGGAGAAAGCTGTTTTTCTTTAACTAAAAATAACCAAAATGCT

3186/5332
FIGURE 2793

GAGTTACCTCCCGCAGCCGAGCCGCGTGCTCAGCGGAGCCCCGGAGCCCTTGAGCGCGAGGCGCGGAGCCCC
CGGAGCCCCCAAACCGCAGACACATCCCCGCGCCCCAGAGCCCCGGCCTGCGCGCCAGCCGGGCCCCGCGCGATG

CCCTCAGACCGGCCTTTCAAGCAGCGGCGGAGCTTCGCCGACCGCTGTAAGGAGGTACAGCAGATCCGCGACCAG
CACCCAGCAAAATCCCGGTGATCATCGAGCGCTACAAGGGTGAGAAGCAGCTGCCCGTCCTGGACAAGACCAAG
TTTTTGGTCCCGGACCATGTCAACATGAGCGAGTTGGTCAAGATCATCCGGCGCCGCTGCAGCTGAACCCACG
CAGGCCTTCTTCTGCTGGTGAACCAGCACAGCATGGTGAGTGTGTCCACGCCCATCGCGGACATCTACGAGCAG
GAGAAAGACGAGGACGGCTTCCTCTATATGGTCTACGCCTCCCAGGAAACCTTCGGCTTCTGAGCCAGCAGTAGG
GGGGCTCGGCCTGGGAGTCGGGCGGCCCCGGTCAGGCCCTGCCAGAGAGCTCCTGGTTCTGAACTGAGCTGCC
TCTACCGTGGTGGGCTGGGCAGGCATGTGCCCCCTAGTCAGAGGGCACCAACCCACCTACTCTGCCCCCTGGGTG
GATCCTGGGCGGTCGTGTTAGGGTTGTCCCTCTGGGTGCTGGCTGGTGGGATGGGGGAGGGTGGGGAGCAGCTC
CCAGCACCCCTGCTGTGTGGTTTCATCTTTTTTTTAGGCCCCCTGCCTGTCTGCCCATCTGCCCCCTACCCACCCGA
GGCTCTGCCCACCGCCTGGACCTGCCACCCCTGAAAGACTGGCCCCCTGGCTCCCCGCCCTCGGTCTCCACGTG
GTGTATGGATCTGTGGTCATTGTCCCTCTGCAGAATAAAGATTGCTCAGGCCTGCCTGGC

3187/5332
FIGURE 2794

GATGACGAGAGCTGGTTTGTTACCCCTCCCGCCTGTTTTACGGCAGAGGGGCCTGGACTCGGTCCCGCCCGCCT
CCAGAGCAGTCCCTGGAGGACCTCCTCATCGAGCACCCAGCATGTCCGTTTACGTCACCGGCAGCACCATAGT
GCTAGAGCCCGGGTCCCCTTCCCCGCTCCCGGACGCGGCCCTGCCTGACGGCGACCTCAGCGAAGGGGAATTGAC
GCCCCCCCGCCGCGAGCCGCGGGCCGCGGCCACGCCGCTCCTCTCCCAGCGCGGGCGGCGCTGCTGGAGAAGGC
GGGCCAGGTGCGGCGGCTGCAGCGGGCCCGGCAGCGGGCAGAGCGCCACGCGCTGAGCGCCAAGGCGGTGCAGCG
GCAGAACCGAGCCCGCGAGAGCCGTCCGCGCCGGTCCAAGAACCAGAGCAGCTTCATCTACCAGCCGTGCCAGCG
CCAGTTCAACTACTTGAGCGTCCACCGGCCGCGCCACGAACCCCTTGCCGATCCCGATCCCTGTCGGGCTCCTCCG
ACTCCTCGGGCTGGACACCGAAACCTCCCTTCTTAAAG

3188/5332
FIGURE 2795

CCCTCACTCCTGGTCCCCATACCCAGCATCTAATCATCCATGCCCCCTACTCCTGGCCCCCTCCATCCTTTCTTCT
CTGGTCCCCATCCCTGTCTCTCCCTTTACCCCTTGCCCTCCAGTCCTCTACCTCTGGCCTGCCCTATTTCCTGAA
AGCTTCTTCCAGTCCCTGATCTGGCTCATTCCCCACCTTCAACTCCCACCTTACATGTCTCACACTATCCCATGG
TTGGCATTACACTCACTCCTGTTCCTTATTCTTCATTCCCAGTAATTCCTACCAATGGTGGGGACCCTGAGC
CCAGCTCTGACCAGGTAGAGCCTGTGCAGCCTGGGCTGCTGTCTATTGCCCTCCAGTAAGGGCTCAGGGTTTGTCT
TTTAGTCTCCCTTCCCTTCTGCCTTGGGGGCGGTACTCTGTGGAGCTGCTTAGGCCTGGAAAGGTACAGTATGTA
GAAGAGGACTGTGAGACGTGAGTTAGAGGGAGAAGATGGAGGGAATCTAGGGAACGAGGCAGCCTATTGGAGATG
CGGACAGGACAGACAGCTTGAGAAGCTGCAGGGAGCAGGGCACCAAGGGAGTGTGCACTGTGCTTGCTCAGAGAG
GCCAAACCCTGCTCCCAGGCTGAAGCCTGGAGTCTGCCCCACTTCCCTTTTCTATAATCCACCCTTCTGCAGGC
CCTGAAATCTGAAGGCTTAGTTAGTACCTTGCCACTCTACCCCCAACACGTCACCCGAGTAGAAGCTGGGCAAG
GCCCTACCATCCTGGCCGTCTGTTTACAAGCCCAAGGTGCTAGAACTAGCTTAGGAGACATGCAGGCCACAGGGC
TTCTAGGCAGGGAAGGGCACACACCCTAGGTGAGCGTGCAGAGCAGTGTGCTGGAGGACACACCATGGGGTGA
AGCCATCCCAAGGCTGACAGCTCAGTCTTACCTTGCCCTTGCCCTTGATTTTACACCCTGCTCAGTATGGCTA
GCCAGCAGTCTGAGTAGGAGTCCAGGACTCCCACTGTCTCAATCTGCAAATTGTTCTATCCAGGTTCCAGGGCC
TTCAGGGGGCCTCTTTTCATTTTCTCCACAGGCCTCTCTTTCTTAGGTTGCTGGGGAGAAATGGGTACCTT
ATGATCCCCCTCCCTTCTCCTCCAGTAAATACCTGGAAGAGGGAACCTGAATCCCTGGGGGAGACAGAAGGGGC
AGGGGCCACCAGCTCCCTTCTTGTGGTGAGACTGAATTTTGGGCTCAGACACCAGCAACAGCCTCTTGGGATG
CCCTGAGTTGCTTCCATTTCTCTTTCTAGCCGTCCTTTTCTAGTGTGTGCTCACTCTTCTTAGGAACTTTAA
GACTTCTTGGTACCTATGAACATAGGTCCTCCCTCACCCCACTCTAGGTTTCCAGGCCTCACAGCCAAGCTGA
AGCTTGGAGAAACTCTGCATTCCCATGAGGGGCAAAGGCAGCTGCCCTCCCTGACCCTATAGCCCCAGGCCTCAT
GGGGGGTATGTGGGAAGGGATGGGGTATCCCCATGGATGCTGGGAAGGAGACAGAGGAAGACCTGATGGGGTCT
CCTATTCCAGGGAATAAGCCAAATTAACACTAAAAACGGATCAAAGCTCCCACGCCAGTCCACTAGGGCCCCAGT
AGTTGACAGCCTTGCTCCTCTCCCAAGTCTCCTTCAGAACCTAGTTGCTTTTATTCTTCCAGCTACCACTTGGG
CACTTCACAGCCAGCCTAGGGTCTTCGGCACCTCCAAGAGCTGAATCTCCCTCCAACCCTTCTTGCCCTACTCCTC
ACTGCCAGCTGGGACCTAGGCTCAGTCTGCTGTGGTGCCCATGATCCTTCTGGTGGGGGAAGAGTTTAAGTTATA
GGGCATTTGGCTCAAATTTTAAAAGGCCTTTTGTGTTACCTATATTTCTGGAGGCTCCTGTATTCTAGAACCCAAT
CTCTCACCTGCTTGGTTGCAAGGCTCATATTTTTTTGTACCTTTCTATAGATTCTGTAGCATTTGAGTGTGGCA
ATATTTTAATTGTGTATAGATTTCTAAGAACCAACACTACTCAGTCTCCTGCTAGTCTGACTCCTGAAGCATCAG
CCCTTGTCTACTGTATTGACTGTGTACGTGCCTTTACCTTGAGCATGCTTCAGGATTTTTTTTTTAAACCACAG
AACTTGAATACATGAGGGAACCAGAGTTCAAAGTCTATGCAACCTTAGGAGGGGGTTAGAGAGTCTGTTTTGAT
TGATGTTTTCTGAGGCCCTAGAGGAGTTGTATCAATTTGTGAGTATTAATGTCAGTACTACCAGCACTTTGCCA
AACTGTCAGAGGGACCCGTTTCTAGAGTGAGTCCCAGTTACATCAAACAGTGACTTCCAGTTATTCCCAGTAA
GTCTGAGTGGTTCTTCAAGCTGGGTGTCTTCCAGCCTTTGCCAGTCTAGCCCCAGCAGGGCACCGTGTATGAA
TGCAGTTTGGTGTGTTTTAGAGTATGCCTGCTCCCCAGCCCCCTGCCTGGAACCTCTGAGCAACTTGCTCTGA
CCTATAATGTCTTAGGTGCAACACGGACCCACCAGAGCTCTTGGATACCCCCCTAGATCCATGTGGCTTTATGT
GAGGGGACTGAATGCAGACACACCATAGCCCCCTTCTACTACTTTCCCTCTCGCCCTGCCACCTAGTTCCACATG
GAACCAACAAGTTGAGTGCATCCCTGTTGGGTGTTTTGTGTTGAGACTGGCTGAAATGAGGAGACTTTGACCATG
TGACGTGTCAACAGACTCAAGGAGACAACCACTCAACTGGGTGCTGTGGCATGCCTGTGTATGTGTGTAACAGA
ATTCTGATTGTTAGACTGTAATGCTATTCTCTATGGGAGAAAAAATTAATATAAAGAAAAACAAATAAAAAATA
TATTTAAAGC

3189/5332
FIGURE 2796A

CTCCAGCCCAGGCAACAGAGCGTGACTCCGTCTCAAAAAAAAAAAAAAAAAAGTGAAAGGAAAATGAGGGGAGAATT
CTCATTGATAATAAGGGCGAAAAGGTTTTTTTTGGCAGAGTAATAGAGTTTTGGAAACCATTGCAAAGCTGTCAAG
TGTGGTGTAGTTTTTGGTTAAGGAAATCAGAGGTGTGACGAGACATAAAAGACAGGGGAAAACATGGGAAGTGTC
CTACCTATAGTGTAGAAAAAGCACAACCTATCTATGTCAGAGGTGACAGACTGTGGTCCATAGGTCAAAATCTGGC
CCACGATCTGTTTTTGTAAATAACGTTTTATTGGAACATAGCCACACTCATTATTTATATATTGTCCATATCTT
CTTTTGTGGTACCAATAGCAGAGTTGAGTAGTCGTGACAGAGATGTGTTGTGTCAGCTCACAAAGCTGGAAATAC
TCTTTACAAAAACATTTGCCAACCCCTGATCTATGTGTTGAGTGTGGATGTTCAACCTCTAATTTGCCATCCA
ATGTCCTATATGATGATAGAGAATGAATAAACGCTCTGGCTCTGCCCTTTGGGCTGGATTACCCATGCTCTGTGTA
CCTGCAGCATAACACAGACCCCTGAATATTTATATCAGTCAGTGATGGCAAGGTCTATTGTTCTGGAGTGACTG
TGTGGTAACTGTGGTAGTGCCAGCTTTACACGGATTAGATAATGCTCGGGCTTGTTTTGCCATTTTTTTTATTGG
GTTGTCTTTTACAAAAGATTTATTTATATATTCTGATTATTAATCCTTTGTTGTTGGTAGATATTACAGATGTCA
TTTCCCAGTTTCTTGCTTATTTTAATTTTTTTTTTTTTTTTTTTTGGAGATGAAGTCTTGCTCTGTCGCCCAGGCTG
GAGTGCAGTCGTGCCATCTCAGCTCATTGTAACCTCCGCTCTCCAGGTTCAAGTGATTCTCTTGCCCTCAGCCTCC
CAAGTAGCTGGGACTACAGGCATGTGCCACCACACCTGGCTGATTTTTGTGTTTTTAGTAGGGATGGGGTTTCAT
CATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCCACCCGCTCTGGCCTCCTAAAGTGCTGGGATT
ACAGGTGTGAGCCACTGCGCTGGCCTGTTGCTTATTTTAAACATCTGTTTAAAGGTGTCATTTGTTAAAAAGT
TCTGAATTTTAGTATCAACTTTATCAATCTTTTCCCTTAAGATTTGCAGTTATTCTTTGTTTTGAGGCAGGGTCT
CGCTCTGTACCGAGGCTGGAGTGCAGTGGTGCATCTCGGCTCACTGCAGCCTCAACCTCCTGGGCTCAAGCAA
CCCTCCCACCTCCCATGCCAGTTGAGACCACAGGCATGCGCCACCATGCCCTGCTACTTTTTGCATTTTTTGTAG
AGGCGGGGTTTTCGCCATGTTGCCCAGGCTAGTCTGGAACCTCTGAGCTCAAGCAGTCCACAAAGTGCTGGGATTA
CAGGTGTGAGCTACTGTGCCCAGCCTGCAATTATCTTTATATTCTGGAATACCTACTGTTGTTTTCAATGGTTA
GATCTTTAATGTATCTGGAATGGATTCTTATGTTAGTGTAAAGTCCGGTCCAGTTTCATTTTTTTTCCCTATGT
ATAACCAGTGATCCCAGCATCATTTATTGAATGGGGCTTGCTTTCAAATTGTGAGCTCTTTTTGGTGGAGTCTGT
CTCAGGTCTTATTAAGCACTGCTGCTTGCTGATTGTGTGACCTTGGACAAATAAAACCTCATTGCGCCTCAGTC
TTAAGGATAATAGTAATCTCATAGGGTTTTGTGAGGATTAAGTCAATATACATAACGTGTAAACAGTGC
TTGGCACCTAGAACCTCAATAAATATTAGCTGTACTTTAGCACTACTGTTCAATTTCTGATTCTCAGCACCT
GGTACAGAGCAGGGGCTCATTTTGCTCAATTAATTTGCCAAATTAATTTGGTTTTCAGGTCAATCAGAATGGTGA
GAGTTGGGCTGAGTGTTGCAGGAGATGCTTCCAAGGAGCTACTTAGTTTTAGGGGCTGCCTTAGATTATCTGCTA
GGATAGAACTCTTCTCACGCCATCACTTTTGCAGAGAACTTCTGTAGCAGAGGTTGCAAACCTGGCAACCTGTGGT
TGGATTTGACCTGTATAAGTATTTTGTGTTGGTTTACACAATATTTTTAATGTCTTAAAAATGTACACAGACCTCT
GAGTTTCTGACTTAACCTTGAAAAATTGGAAGATCTGTCAACAGCAAGCCCATATTCAATTTATAGCGGTAACCAG
CTGAAACTTTTAGGTCTGGGAGGAATGGAGAGGGGTCCCACTGACTAACTTTTCTGAGAGTGGTCAGAGAGTTC
TTAAGCAGAATTTTGATTTGGCTGCTGGGCTGCTACCTTGAAATCCAAGCCCTAAAAATGCCAGCTCTTTGGAC
TTAGAAGATGACCTGGATAAATGATAAAAAATTAAGAAAGAGATTTTGAAGTTTCTTATTGTCCTCTGGCATAT
GCTTCTGGAATAATATTACCATGTTTTGGATGACCTTCCAACTTAGAAGACATCTATACTTCTTGTGTTCA
TCAACAAATGGAAGACTCAGAGATGGATTTTGAATCTGGACTAGAAGATGATGACACAAAAAGTGATAGTATTTG
GAGGATTCACAATTTTTGTGGCCTTCAAAGGAAATATAGATGATAAAGACTTCAAATGGAAATTAGATGCAATA
TTGAAAAACGTGCCCAATTTGTTACACATGGAGTCCAGCAAGCTAAAAGTACAGAAGGTGGAGCCCTGGAAACAGC
GTGCGTGTGACATTCAACATCCCCCGGAAGCAGCGGAGCGGCTACGGATCCTTGCTCAGAGCAACAACCAGCAG
CTTCGGGATTTAGGGATTCTCCTCGTTTCAAGTTGAAGGGGAAGGTGCTATTAACTGGCTTTGGCTCAGAACCGA
AGCCAAGATGTGAGAATGAATGGACCCATGGGAGCTGGAAATTCAGTTAGGATGGAGGCGGGATTTCTATGGCA
AGTGGTCCAGGAATAATAAGGATGAACAACCTGCCACTGTTATGATACCCCGGGTGGAAATGTGTATCTTCC
ATGATGGCACCAGGCCCCAATCCAGAGCTGCAGCCAGGACTCCTCGCCCTGCTTCTCAGTCAGATGCAATGGAT
CCACTCCTCTCTGGGCTCCATATACAGCAGCAAAAGTCAATCCCTCAGGATCTTTAGCTCCCCACATCACCCAATG
CAGCCTGTCTCTGTGAACAGACAAATGAACCCAGCTAATTTCCCAAGCTGCAGCAGCAGCAGCAACAACAACAA
CAGCAGCAGCAGCAGCAGCAGCAGCAACAACAGCAACAGCAGCAACAACAGTTGCAGGCAAGACCCCCACAGCAA
CATCAGCAGCAACAGCCACAGGGAATTCGACCCAGTTTACTGCCCACTCAGGTGCCTGTTCTCCAGGCTGG
AACCAGCTGCCTTCTGGAGCCCTCAACCTCCTCCAGCCAGGGTTCTCTGGGCACAATGACTGCAACCAAGGG

3190/5332
FIGURE 2796B

TGGAAGAAGGCTCCCTTGCCCGGCCAATGCAACAGCAACTCCAGGCAAGACCATCCTTAGCCACGGTACAGACG
CCTTCCCACCTTCCCCCTCCATATCCCTTTGGCAGCCAGCAAGCCTCACAAGCCACACAACTTTCTTCAGATG
AGCAACCCAGGCCAGTTACAGCTCCTCAGATGAAGAGTTTGACAGGGAGGGCCCTTAGGGTCCCAACTCCCTTG
CAGCAGCCCCACCTCACCAACAAGTCTCCTGCCTCCTCACCTCCTCCTTCCAGCAGGGATCCCCTGCATCCTCC
CCAACGGTTAACCAAACTCAGCAGCAGATGGGACCAAGGCCACCTCAAAATAACCCACTTCCCCAGGGATTTTACG
CAGCCTGTTCAGCTCTCCGGGTCGGAATCCTATGGTTCAACAGGGAAATGTGCCACCTAACTTCATGGTGATGCAG
CAGCAACCACCAAAACCAGGGGCCACAGAGTTTACATCCAGGCCCTAGGAGGAATGCCTAAACGCCTCCCACCTGGC
TTCTCAGCAGGACAGGCCAATCCGAACCTTATGCAAGGTGAGGTGCCTTCGACCACAGCAACCACCCCTGGGAAT
TCAGGAGCCCTCAGCTGCAAGCAAAATCAAAATGTCAGCATGCAGGTGGTCAAGGAGCTGGTCTCTCTCAAAAC
CAGATGCAGGTGTCCACGGGCGCCAAATATGATGCAGCCAGCCTCATGGGAATTCATGGCAACATGAACAAT
CAGCAGGCTGGTACTTCTGGGGTTCTCAAGTGAACCTCAGCAACATGCAAGGCCAGCCCCAGCAGGGCCCCACCA
TCTCAGCTGATGGGCATGCACCAGCAAAATCGTGCCCTCCAGGGCCAGATGGTCCAGCAACAAGGAACCTTGAAC
CCTCAGAACCCTATGATCCTTTCAAGGGCCAGCTTATGCCACAGGGCCAGATGATGGTGAACCCCCGAGCCAA
AATCTTGGGCCCCGCCCCAAAGGATGACCCACCCAAAGCAGATGCTTTCCAGCAGGGGCCACAAATGATGGCG
CCACATAACCAGATGATGGGGCTCAGGGGCAGGTTTGTCTCAACAGAACCAATGATAGAGCAGATTATGACC
AATCAAATGCAGGGGAATAAGCAGCAGTTTAACTCAGCAACAGTCCAATGTCATGCCGGGACCAGCCAGATA
ATGAGGGGACCAACTCCAAACATGCAAGGAAATATGGTGCAGTTTACGGGACAGATGTCAGGACAGATGCTGCCC
CAGCAAGGGCCTGTGAACAACAGTCCATCTCAGGTTATGGGCATTAGGGACAGGTCTGCGGCCACCAGGGCCC
AGCCACACATGGCCAGCAGCATGGTGATCCTGCTACTACAGCAAAATAACGATGTGAGTTTATCTCAGATGATG
CCTGATGTTAGCATTCAACAAACCAACATGGTCCCCCTCATGTGCAGGCCATGCAGGGAAACAGTGCTCGGGA
AACCCTTCTCAGGCCATGGGATGTCTTTCAATGCACCTTTCAGTGGAGCTCCCAATGGAAATCAGATGTCTGT
GGTCAAAATCCAGGCTTCCAGTCAATAAGGATGTACGCTAACGAGCCCATTTGTTGGTCAACTTATTGCAGAGT
GACATATCTGCAGGCCATTTTGGGGTAAACAATAAGCAAAATAATACCAACGCAATAAACCGAAGAAGAAGAAA
CCCCCTCGGAAGAAGAAAAATAGTCAGCAAGATCTAAACACCCAGATACTCGCCAGCTGGTCTGGAAGAGGCT
GATCAGCCACCGTTGCCTGGAGAACAAGGAATTAACCTTGATAACTCAGGCCCTAACTGCCAGAAATTTCAAAC
CGGCCACCAGGTTATCCTTCTCAACCAGTTGAACAGAGGCCACTTCAGCAGATGCCTCCTCAACTCATGCAGCAT
GTGGCACCCCAACACAGCCACCACAGCAGCAGCAGCCACAACCTGCCTCAGCAGCAGCAGCCACCACCTCCC
AGTCAGCCACAGTCTCAGCAGCAGCAGCAGCAGCAGCAACAAATGATGATGATGCTCATGATGCAGCAGGATCCC
AAATCAGTTAGGCTTCCAGTCTCTCAAAATGTCCATCCTCAAGGGGCCCCCTGAACCCCGACTCCAGAGAATG
CCCATGCAACAGAGTGGCAGTGTGCTGTATGGTCACTGCAAGGACCTGCCTCCGTGCCACCATCACCTGAT
AAACAAAGAATGCCAATGCCTGTGAATACTCCTTGGGAAGCAATTCAAGGAAAATGGTCTATCAGGAGAGCCCG
CAGAATCCTTCCAGCTCGCCACTGGCGGAGATGGCCTCACTCCTGAAGCAAGTGGCAGTGAAGCACCATCTGTC
CCAGGAGGCCCAACAACATGCCTTCACATGTAGTACTTCCCCAGAATCAGTTAATGATGACAGGGCCAAAACCT
GGACCATCGCCCTTTTCAAGCAACTCAAGGTGCAACTCCCCAGCAACCCCTGTAAATTCCTTGCCTGCTCTCAC
GGCCACCCTTCCCAATGTGGCTGCGCCAACCCAGACATCTAGGCCCAAAACACCAAAACAGAGCCAGCCCCAGA
CCCTATTATCCTCAGACACCCAAACACCGCCCTCCCAGCACAGAACCTTCAGAAATCAGTCTGTACCCAGAAAGA
CTCAATGCCTCCATAGCAGGACTCTTCCCTCCACAGATTAATATTCTTTACCTCCTAGGCCAAATTTAAACAGG
GGCTTTGATCAACAAGGCCTAAATCCAACAACCTTTGAAGGCCATCGGGCAAGCACCTTCAAATCTTACCATGAAT
CCTTCCAATTTTGCTACCCACAACTCACAATTAGATTCTGTGGTAGTGAATTTGGAAGCAGTCTAATTCT
GGAGCAACAAAACGGGCAAGTCCAAGCAACAGTCGCAGGTCTAGTCTGGGTCCAGTAGGAAAACCACTCCAAGC
CCTGGGAGGCAAAATTCAAAAGCCCTAAACTTACTCTGGCCTCTCAGACAAATGCAGCCCTATTGCAGAATGTG
GAGTTGCCGAGAAATGTATTGGTCAGTCCCCTCTCTGGCCAATCCCCCTGTACCTGGGAGCTTTCTTAACAAC
AGTGGGTGAATCCTCAGAATTTACTGTGTCTGTGGCTGCAGTTGGGGGTGTTGTTGAGGATAACAAAGGAGC
TTGAATGTGCTCAGGACAGTGATTGCCAGAATTTCCAGAGTAGGAAGGAACAGGTAAACATTGAACTAAAAGCA
GTCCCTGCCCAAGAAGTTAAAATGGTTGTCCCTGAAGATCAGTCCAAAAGGATGGGCAGCCTTCGGATCCTAAC
AAACTTCCAGTGTCGAAGAGAACAAAAATTTGGTGTCTCTGCTATGAGGGAAGCACCAACATCGTTAAGTCAA
CTTCTTGACAACTCTGGAGCTCCCAATGTGACAATTAACCCCTGGGCTTACAGATCTGGAAGTAACACCTCCA
GTAGTTTCTGGGGAGGACCTCAAAAAAGCATCTGTCTATCCACACTGCAGGATCTGTCTTCTCTAAAGAACCT

3191/5332
FIGURE 2796C

TCTAATTCCTAAACTTACCTCACAGTAATGAGCTGTGTTTCATCCCTTGTGCATCCCGAATTGAGTGAGGTCAGT
TCTAACGTTGCACCAAGCATCCCTCCAGTAATGTCAAGACCTGTTAGCTCTTCCTCCATTTCCACTCCCTTGCCC
CCAAATCAAATAACTGTATTGTGCTACTTCCAATCCCATCACAACCTTCAGCTAACACATCAGCAGCTTTGCCAACT
CACTTGCACTGCTGCATTGATGTCAACAGTTGTCAATGCCCAATGCGGGTAGCAAGGTTATGGTTTCTGAGGGA
CAGTCAGCTGCTCAGTCTAATGCCCGGCTCAGTTTATTACACCTGTCTTTATCAATTCATCCTCAATAATTTCAG
GTTATGAAAGGATCACAGCCAAGCACAATTCTGCAGCCCCACTGACAACCAACTCTGGCCTGATGCCTCCCTCT
GTTGCAGTTGTTGGCCCTTTACACATACCTCAGAACATAAAATTTCTTCTGCTCCTGTACCGCCTAATGCCCTC
TCCAGTAGTCTGCTCCAAACATCCAGACAGGTCGACCTTTGGTCCCTTAGCTCACGAGCCACCCCTGTTTCAGCTT
CCTTCCCTCCTTGTACGTCTTCTCCAGTTGTCCCTTCTCATCCCCCTGTGCAGCAAGTGAAAGAATTGAATCCA
GATGAGGCTAGCCCTCAGGTGAACACCTCAGCAGATCAGAACACTCTTCCCTCTTCACAGTCAACCACAATGGTT
TCTCCCTTTTGGACCAATAGTCCAGGGTCTCTGGCAACCGGCGAAGCCAGTCTCGTCTAGTAAGGGCAAAGGA
AAAGTGACAAAATTGGCCAAATTTGTTGACCAAGGCATGTAAGAAAGTTACAGGCTCTCTTGAGAAAGGGGAA
GAACAATATGGTGCAGATGGAGAGACTGAAGGCCAAGGGCTAGACACCACAGCTCCGGGGCTCATGGGAACAGAG
CAGTTATCCACAGAGCTGGACAGTAAAACCCCAACGCCCCCAGCACCCACTCTGCTAAAAATGACCTCTAGCCCT
GTGGGCCCGGGCACTGCCTCAGCAGGACCCAGCTTACCTGGCGGTGCTCTCCCCACCAGTGTACGCTCGATAGTA
ACCACTCTGGTACCTCCGAGCTCATCTCCGCCGTACCGACCACAAAAAGCAATCATGGTGGCATAGCATCTGAG
TCACTTGCGGGTGGCCTAGTGGAGGAGAAGGTGGGATCCCATCCAGAACTTCTACCCAGCATAGCCCCGTCCGAG
AATTTAGTCTCAAAGGAAACTTCAACCACAGCACTGCAGGCCCTCTGTTGCCAGACCAGAGCTGGAGGTAATGCT
GCCATAGTCTCTGGACAAAGCAGTGAGCCCAAAGAGATAGTTGAAAAGTCCAAATCCCAGGCCGAAGAACTCC
CGAACTGAAGAGCCAACCTGTGGCCTCTGAAAGTGTGGAAAATGGACATCGTAAACGATCTTCTCGACCTGCTTCA
GCCTCCAGCTCTACTAAAGACATAACCAGTGCGGTGCAATCCAAGCGAAGAAAATCCAAGTAAACAAGCAGGACT
GCGACTTGATACTTGGAAATGTGTGTGACTTTTACAAAGAGCAATTTTGAAGCTGTGACTTTTTTAAATCAATTC
TGTACAGTTAGTAATTTTAAATAATGTGGCCCTTTTCTAGTCCCTGCAACCTGTTTCAAAAAGTGAATGGGGAA
AGCAGGACTGTTGAGCCCTTTTGGTGTGCGAGTTGAAGTTCAAGGTTTCTAAAATGTTGTCTTGTATTGAAAGG
AGCTAATGCCATTATAAATGTTACTAGTTTTCACATTTCTAAGCAGCCTAGAGTACAGGGTGAGCATTTTGTAGA
TCTCCTAATGATGTATTGTGCCGTGGAAGTACTGTGTGTGAATAGCAGTAGTGGGGGCAAAAGCAATCTTCTCAT
TTGGAAATGTTGTAAATAATTTTATTATATAGTGTTTTGGATGTATTGTTGTAGAAATGGACCAGTGAATAAAG
AGAATCTAAGGATTTGTACAATGTGAAATAACGTGTTAAATAAATGTCATTGTCATAGAACATAAAGTTATGTTA
TTGGTAAGGG

3192/5332
FIGURE 2797

ATGGCGGCGGAGAACGAGGCCAGCCAGGAGAGCGCCCTGGGCGCCTACTCGCCAGTGGACTACATGAGCATCACC
AGCTTCCCGCGGCTGCCCCGAGGACGAGCCGGCGCCCGCGCCCGCTGAGGGGCGCAAGGACGAGGACGCCTTT
CTGGGAGACCCCGACACCGACCCGGACTCCTTCTCTGAAGTCTGCACGGCTGCAGCGGCTGCCATCGTCGTCGTCG
GAGATGGGCAGCCAAGACGGGTCGCCGCTACGCGAGACGCGCAAAGACCCGTTCTCCGCCGACGGGCCGAGTGC
TCCTGCCGCCAGGATGGGCTCACGGTCATCGTCACGGCCTGTCTCACCTTCGCTACCGGTGTCACCGTGGCGCTG
GTCATGCAGATCTACTTCGGGGACCCCGAGATCTTCCAGCAGGGTGCCGTGGTGACCGATGCTGCCCGCTGCACCT
TCACTGGGCATCGAGGTGCTCAGTAAACAGGGATCTTCTGTGGACGACGCGGTGGCAGCAGCCTTGTGTTTGGGT
ATCGTGGCTCCACACAGTTCTGGCCTGGGCGGTGGGGGCGTGATGTGGTACATGACATCCGACGAAATGAGAGC
CACCTAATTGATTTCCGGGAGTCCGCACCCAGGGGCCCTCAGGGAAGAGACCCTGCAAAGATCCTGGGAGACCAAG
GTGGGGACCCCTGCCTGGGCTCTTGGTGGGGGTTCGCCGAATGGTGAAGGGGCTACATGAAGCTCACCAGCTCTAT
GGCAGGCTGCCATGGTCCCAAGTCTGGCCTTTCAGCAGCTGTGGCCCAAGATGGCTTCAACGTGACTCATGAT
CTAGCCCGTGCCCTGGCTGAACAGCTGCCACCCAAACATGTCCGAGCGCTTCCGGGAGACGTTCTGCCATCGGGC
CGCCCGCCACTACCTGGCTCGTTGCTGCATCGGCCCGACCTGGCTGAGGTGCTGGATGTACTTGGCACCTCCGGC
CCGGCTGCCTTCTACGCAGGTGGCAACCTCACACTGGAGATGGTGGCCGAGGCTCAGCACGCAGGGGGGTGTCATA
ACCGAAGAGGACTTCAGCAATTACAGCGCCCTTGTGGAGAAGCCTGTGTGTGGCGTGTACAGAGGCCACCTGGTT
CTTAGTCCCCCACCTCCGCACACGGGCCCTGCCCTCATCAGTGCTCTCAACATCCTGGAGGGCTTCAATCTCACC
AGCCTGGTATCCCGAGAACAGGCTCTTCACTGGGTGGCAGAGACCCTGAAGATTGCATTAGCCCTGGCCAGCAGA
CTGGGAGATCCCGTCTATGATTCTACCATCACTGAGAGCATGGATGACATGCTCAGCAAGGTGGAGGGCCGCCTAC
CTCCGGGGCCATATCAATGACTCCAGGCAGCCCTGCCCACTCCTGCCTGTCTATGAACCTAGACGGAGCTCCC
ACGGCTGCCCAGGTGCTGATCATGGGACCTGATGACTTCATTGTGGCCATGGTTAGCTCCCTGAACCAGCCCTTT
GGCAGCGGCCTTATCACCCCTCGGGGATCCTGCTCAACAGCCAGATGCTGGACTTCTCCTGGCCCAACCGGACA
GCTAACCACTCTGCACCCAGCCTGGAGAATTCAGTGCAGCCAGGGAAGCGGCCACTCTCTTCTGCTGCCACA
GTGGTCCGACCCGCGGAGGGGCTCTGTGGAACCTACCTCGCTCTGGGGGCAATGGAGCTGCGCGGGGCTCAGC
GGCCTGACACAGGTTCTGCTGAATGTCTGACCTTGAACCGGAACCTGAGTGACAGCCTGGCCCGCGGCCGCTA
CACCCGGACCTGCAGTCCAACCTCCTGCAGGTGGACAGTGAGTTACAGAGGAAGAGATTGAGTTCTTGGAAGCC
AGGGGTACCCACGTGGAGAAAGTAGATGTCTTATCCTGGGTCCATGGCAGCCGAAGGACCAACAACCTTCATCATC
GCTGTTAAGGACCCTCGGAGCCCAGATGCAGCTGGAGCCACCATCCTGTAG

3193/5332
FIGURE 2798

ATGGGGCTTCCTGAGGAGCGGGTCCGGAGCGGCAGCGGGAGCCGGGGCCAGGAGGAAGCTGGAGCCGGAGGCCGG
GCGCGGAGTTGGTCTCCGCCGCCGAGGTCAGCCGCTCCGCGCACGTCCCCTCGCTGCAGCGCTACCGCGAGCTG
CACCGGCGCTCCGTGGAGGAGCCGCGGAATTCTGGGGAGACATTGCCAAGGAATTTTACTGGAAGACTCCATGC
CCTGGCCCATTCTTCGGTACAACCTTTGATGTGACTAAAGGGAAAATCTTCATTGAGTGGATGAAAGGAGCAACT
ACCAACATCTGCTACAATGTACTGGATCGAAATGTCCATGAGAAAAAGCTTGAGATAAAGTTGCTTTTACTGG
GAGGGCAATGAGCCAGGGGAGACCACTCAGATCACATACCATCAGCTTCTGGTCCAAGTGTGTCAGTTCAGCAAT
GTTCTCCGAAAACAGGGCATTAGAAGGGGGACCGAGTGGCCATCTACATGCCTATGATCCCAGAGCTTGTGGTG
GCCATGCTGGCATGTGCCCGCATTGGGGCTTTGCACTCCAATTGTGTTTGCAGGCTTCTCTTCAGAGTCTCTATGT
GAACGGATCTTGGATTCCAGCTGCAGTCTTCTCATCACTACAGATGCCTTCTACAGGGGGGAAAAGCTTGTGAAC
CTGAAGGAGCTGGCTGACGAGGCCCTGCAGAAGTGTGAGGAGAAGGGTTTCCAGTAAGATGCTGCATTGTGGTC
AAGCACCTGGGGCGGCAGAGCTCGGCATGGGTGACTCCACCAGCCAGTCCCCCAATTAAGAGGTCATGCCCA
GATGTGCAGATCTCATGGAACCAAGGGATTGACTTGTGGTGGCATGAGCTCATGCAAGAGGCAGGGGATGAGTGT
GAGCCCAGTGGTGTGATGCCGAGGACCACTCTTCATCCTGTACACCAGTGGCTCCACAGGCAAACCAAGGGG
TGTGGTTCACACAGTTGGGGGCTACATGCTCTATGTAGCCACAACCTTCAAGTATGTGTTTGAATTCATGCAGA
GGATGTGTTCTGGTGCACGGCAGACATTGGTTGGATCACTGGTCACTTCTACGTCACCTATGGGCCACTGGCCAA
TGGTGCCACCAGTGTGTTTGTGTTGAGGGGATTCCACATATCCGGACGTGAACCGCCTGTGGAGCATTGTGGACAA
ATACAAGGTGACCAAGTTCTACACAGCACCCACAGCCATCCGTCTGCTCATGAAGTTTGGAGATGAGCCTGTCAC
CAAGCATAGCCGGGCATCCTTGCAGGTGTTAGGCACAGTGGGTGAACCCATCAACCCTGAGGCCCTGGCTATGGTA
CCACCGGTGGTAGGTGCCCAGCGCTGCCCCATCGTGGACACCTTCTGGCAAACAGAGACAGGTGGCCACATGTT
GACTCCCCTTCTGGTGCCACACCCATGAAACCGGTTCTGCTACTTTCCCATTCCTTGGTGTAGCTCCTGCAAT
CCTGAATGAGTCCGGGGAAGAGTTGGAAGGTGAAGCTGAAGGTTATCTGGTGTCAAGCAGCCCTGGCCAGGGAT
CATGCGCACAGTCTATGGGAACCACGAACGCTTTGAGACAACCTACTTTAAGAAGTTTCTGGATACTATGTTAC
AGGAGATGGCTGCCAGCGGGACCAAGATGGCTATTACTGGATCACTGGCAGGATTGATGACATGCTCAATGTATC
TGGACACCTGCTGAGTACAGCAGAGGTGGAGTCAGCACTTGTGGAACATGAGGCTGTTGCAGAGGCAGCTGTGGT
GGGCCACCTCATCCTGTGAAGGGTGAATGCCTCTACTGCTTTGTACCTTGTGTGATGGCCACACCTTCAGCCC
CAAGCTCACCGAGGAGCTCAAGAAGCAGATTAGAGAAAAGATTGGCCCCATTGCCACACCAGACTACATCCAGAA
TGCACCTGGCTTGCTTAAACCCGCTCAGGGAAAATCATGAGGCGAGTGCTTCGGAAGATTGCTCAGAATGACCA
TGACCTCGGGGACATGTCTACTGTGGCTGACCCATCTGTATCAGTCACCTCTTCAGCCACCGCTGCCTGACCAT
CCAG**TGA**

3194/5332
FIGURE 2799

GGGAGAACCGTTCGCGGAGGAAAGGCCGAAC TAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTG CAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACTTCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTCAGCCAGAACGCTGCCTTCTCTGGA
GCAAACCTCTTTCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCTAAA
AGAGGGCATTGCCCAGACTGTGTTCTTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCCTGGCCTCCCGGACCCAGCTGT
GCACCGACATGTTCTCAGTGTCCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCCGAGTGGTCCAGTGCATTTAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCCAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTTGGACAACCCATACCCCTGTGTGAGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCAATCCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCAGTGCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTG

3195/5332
FIGURE 2800A

AGTTCATCCGCATTCACTTTGGTCCCTCTGGGAAGCTGGCATCCGCGGATATTGACAGCTATCTCCTGGAGAAGT
CGCGGGTGATCTTCCAGTTGCCTGGTGAGCGCAGCTACCATGTCTACTACCAGATCCTCTCAGGGAGGAAGCCAG
AGCTGCAGGACATGCTGCTTCTGTCTATGAACCCCTATGACTACCACTTCTGCAGCCAGGGCGTCATCACCGTGG
ACAACATGAATGATGGGGAGGAGCTCATCGCCACCGACCATGCCATGGACATCCTAGGCTTCAGCGTGGATGAGA
AATGTGCTGCTATAAGATCGTGGGCGCCCTCCTGCACCTTTGGCAACATGAAGTTCAAGCAGAAGCAGCGGGAGG
AGCAGGCGGAGGCCGATGGCACTGAGAGTGCTGACAAGGCTGCCTACCTGATGGGGGTGAGCAGTGGGGACCTCC
TCAAAGGCCCTTTTGCACCCCGGGTGCCTGTAGGGAACGAGTACGTGACCAAGGGCCAGAGTGTGGAGCAGGTGG
TGTTTGCTGTGGGGGCTCTGGCCAAGGCCACCTATGACCGGCTGTTTCAAGTGGCTGGTGTCTCGGATCAACCAGA
CCCTGGACACAAAGCTGCCCCGGCAGTTCTTTCATCGGGGTTCTGGACATCGCTGGGTTTGAGATCTTTGAGTTCA
ACAGCTTCGAACAGCTGTGCATCAACTTCACCAATGAGAAATTGCAGCAGTTCTTCAACCAGCACATGTTTGTGC
TGGAGCAGGAGGAGTACAAGCGGGAGGGCATCGACTGGGCTTTCATCGACTTCGGCCTTGACCTGCAGCCTTGCA
TCGACCTCATCGAGAAGCCACTGGGCATCCTGTCCATCCTGGAGGAGGAATGCATGTTCCCAAGGCCTCAGACG
CCAGCTTCCGGGCCAAGCTCTACGACAACCACGCGGGGAAGTCACCCAATTTCCAGCAGCCTCGGCCTGACAAGA
AGCGCAAGTACCAGGCCCACTTCGAGGTGGTCCACTACGAGGCGTGGTGCCTTACAGCATTGTGGGCTGGCTGG
AGAAAAACAAGGATCCCTGAATGAGACCGTGGTCCCATCTTCCAGAAGTCACAGAAATAGGCTCCTGGCGACTC
TCTATGAGAATTATGCGGGCTCCTGCTCCACTGAGCCCCCAAGTCTGGGGTGAAAGAGAAGCGTAAGAAGGCAG
CATCGTTCCAGACGGTGTCCCAGCTGCACAAGGAGAACCTCAACAAGCTGATGACCAACCTGCGGGCCACACAGC
CCCCTTCCGCTCCGCTGCATTGTCCCAACGAGAACAAACCCAGGGGTGATGGATGCCTTCTTGGTGTACACC
AGCTGCGCTGCAATGGGGTCTTGGAGGGGATCCGGATCTGCGCCAAGGGTTCCCAACAGGTTGCTCTACACCG
ACTTCCGGCAGCGGTACCGTATCCTGAACCCCAAGTGCCATCCCGGATGACACCTTCATGGACAGCAGGAAGGCCA
CAGAGAACTGCTGGGCTCGCTGGACTTGGATCACACCCAGTACCAGTTTGGCCACACCAAGGTGTTCTTCAAGG
CTGGGCTTCTAGGCGTCTGGAAGAGCTCCGTGACCAGCGCTGGCCAAGGTGCTGACGCTGCTGAGGCGCGGA
GCCGTGGCGCCTCATGCGCCTTGAGTACCAGCGCCTGCTGGGAGGCAGGGATGCGCTGTTACCATCCAGTGGGA
ACATCCGTGCCTTCAATGCCGTCAAGAAGTGGTTCATGGATGAAGCTCTTTTCAAGATGAAGCCGCTGCTGCGCT
CGGCGCAGGTGAGGAGGAGCTGGCGGCCCTGCGGGCAGAGCTGCGGGGTTGCGAGGGGCGCTGGTGCAGGCCG
AGGCCAAGCGCCAGGAAGTGGAGGAGACGCACGTACAGCATACCCAGGAGAAGAATGACCTGGCCCTGCAGCTGC
AGGCTGAGCAGGACAACCTGGCAGATGCCGAGGAGCGTGGCACTTGCTGATCAAGTCCAAGGTGCAGCTGGAGG
GGAAGGTGAAGGAGCTGAGTGAGCGCTGGAGGATGAGGAGGAGGTGAACGCTGACCTGGCCGCCCCGCGCGCA
AGCTGGAGGACGAGTGACGGAGCTCAAGAAGGACATTGATGACCTGAAGCTGACACTGGCCAAAGCTGAGAAGG
AGAAGCAAGCCACTGAGAACAAGGTGAAGAAGCTGACGGAAGAGATGGCTGCGCTGGACGAGTCAGTGGCCCCGGC
TGACCAAGGAGAAGAAGGCGTTGAGGAGGCCACCAACAGGCCCTGGGTGACCTGCAGGCCGAGGAGGACCGTG
TGAGCGCTGACCAAGGCCAAGCTCCGGCTGGAGCAACAGGTGGAGGACCTGGAATGCTCCCTGGAGCAGGAGA
AGAAGCTGCGCATGGACACGGAGCGGGCCAAGCGCAAGCTGGAGGGTGAAGCTGACGCAAGGAGTCGGTGG
CTGATGCTGCTCAAGACAAGCAGCAGCTGGAGGAGAAGCTCAAGAAGAAGGACTCCGAGCTGAGCCAGCTGAGCC
TGCGGGTGGAAGACGAGCAGCTCTTGGGGGCCAGATGCAGAAGAAGATCAAGGAGCTGCAGGCTCGGGCGGAGG
AGCTGGAAGAGGAGCTGGAGGCAGAGCGGGCAGCCGGGCGCGTGGAGAAGCAGCGTGCAGAGGCGGCGCGGG
AGCTGGAGGAGCTGAGCGAGCGGCTGGAGGAGGAGCGCGGCATCCGCGGGCAGCGGAGGGCTGCCGCAAGC
GGGAGGCGGAGCTGGGGAGGCTGCCGCGGGAGCTGGAGGAGGCGGCGCTGCGGCACGAGGCCACAGTGGCGGCAC
TGCGGCGCAAGCAGGCGGAGGGCGCGGCGGAGCTGGGGGAGCAGGTGGACAGCCTGCAGCGGGTGCAGCAGAAGC
TGGAGAAGGAGAAGAGTGAGCTGCGCATGGAGGTGGACGACCTGGCTGCCAACGTGGAGACTCTGACCCGCGCCA
AGGCCAGTGCAGAGAAGCTGTGCCGACCTATGAGGATCAGCTAAGCGAGGCCAAGATCAAGGTGGAGGAGCTGC
AGCGGCAGCTGGCGGACGCAAGCACGCAGCGTGGGCGACTACAGACGGAAAGCGGGGAGCTGAGTGCCTGCTAG
AGGAGAAGGAGTGTCTGATCAGTCAGCTGAGCCGTGGAAGGCCCTGGCCGCCAAAGCCTGGAAGAGTTGCGGC
GCCAGCTAGAGGAGGAAAGCAAGGCCAAGAGTGCCCTGGCCACGCGTGCAGGCTCTGCGGCACGACTGTGACC
TCCTGCGGGAGCAACACGAGGAGGAGGCTGAGGCCAGGCTGAGCTGCAGCGGCTGCTGTCCAAGGCCAATGCCG
AGGTGGCCAGTGGAGGAGCAAGTACGAAGCAGATGCCATCCAGAGGACCGAGGAGCTGGAGGAGGCCAAAAAA
AGCTGGCACTGCGGCTGCAGGAGGCAGAGGAGGGCTGGAGGCTGCCAACGCCAAGTGCTCATCGTTGGAGAAGG
CCAAGCTGCGGCTACAGACAGAGTCAGAGGATGTAACCTGGAGCTGGAGCGGGCGACCTCAGCAGCTGCTGCGC

3196/5332
FIGURE 2800B

TGGACAAGAAGCAGCGGCACTTGGAACGGGCACTGGAGGAACGGCGGGCAGGAGGAGGAGATGCAGCGGGAGC
TGGAGGCGGCACAGAGGGAGTCCCGTGGCCTGGGCACCGAGCTCTTCCGGCTGCGGCACGGCCACGAGGAGGCAC
TTGAAGCCCTGGAGACGCTCAAGCGGGAGAACAAGAACCTGCAGAGGAGATCAGCGACCTCACAGACCAGGTGAG
TCTCAGTGGGAAGAGCATCCAGGAACCTGGAGAAAACCAAGAAGGCGCTGGAAGGCGAGAAGAGTGAGATCCAGGC
TGCACTGGAGGAGGCAGAGGGGGCCCTGGAGCTGGAGGAGACCAAGACGCTGCGGATCCAGCTGGAGCTCTCCCA
GGTCAAAGCAGAAGTGGACCGGAAGCTGGCAGAGAAAGACGAGGAGTGCCTAACCTGAGGCGCAACCACGAGCG
AGCTGTGGAGTCCCTGCAGGCCTCCCTGGATGCAGAGACACGGGCCCAATGAGGCGCTGCGGCTCAAGAAGAA
GATGGAGGGTGACCTCAACGACCTGGAGCTGCAGCTGGGCCATGCCACCCGTCAGGCCACAGAGGCCAGGCTGC
CACGCGGCTGATGCAGGCACAGCTCAAGGAGGAGCAGGCAGGGCGGGACGAGGAGCAGCGGCTGGCAGCTGAGCT
CCACGAGCAGGCGCAGGCTCTGGAGCGCCGGGCTCGCTGCTGGCTGCGGAGCTGGAGGAGCTGCGGGCTGCCCT
GGAGCAGGGCGAGCGCAGCCGGCGACTGGCAGAGCAGGAGCTTTTGGAGGCCACCGAGCGCCTCAACCTTCTGCA
TTCGCAGAACACAGGCCTCCTAAACCAGAAGAAGAAGCTGGAGGCGGACTTGGCCCAGCTGAGCGGGGAGGTGGA
GGAGGCTGCACAGGAGAGGCGGGAGGCTGAGGAGAAGGCCAAAAAGGCCATCACTGATGCGGCCATGATGGCCGA
GGAGCTGAAGAAGGAGCAGGACACAAGTGCACACCTGGAACGGATGAAGAAGACGCTGGAGCAGACGGTGCGCGA
GCTCCAGGCCCCGCTTGAGGAGGCAGAACAGGCCGCCCTCCGTGGCGGGAAGAAGCAGGTGCAGAAGCTGGAGGC
CAAGGTACGGGAGCTGGAGGCTGAGCTTGATGCAGAGCAGAAGAAGCACGCCGAGGCCCTTAAGGGCGTGCGCAA
GCATGAGCGCCGTGTCAAGGAGCTCGCATACCAGGCCGAGGAGGACAGGAAGAACCTGGCTCGCATGCAGGACCT
GGTGGACAAGCTGCAGAGCAAGGTCAAGAGCTACAAGCGCCAGTTTGAGGAGGCGGAGCAGCAGGCCAACACCAA
CCTGGCCAAGTATCGCAAGGCCCAGCACGAGCTGGATGATGCGGAGGAGCGGGCAGACATGGCGGAAACCCAGGC
CAACAAGCTGCGGGCACGGACCCGGGACGCCCTGGGCCCCAAGCACAAAGGAGTGACGGCCTGACCCCTGGGCTC
TAAAGAGGAATGTCTGCTGTTGCACATCTGGCTGAGGCCACCTGCCCCGATCCTGCCATCTCTGCATCGCCCCCT
GCTGCCTTCAGCCTTCCCTGGGCCCTGAATAAACACCACAGCCAGTTTCCTTCTCATTCTTTCTTTGGGGTTCA
GGAGGAAAAACACAGTCCTAGGGACAAAAGCCAGGTCCACAGCAGTCATTTTAAAAATAAAGTTATTTAATAGTC
TCC

3197/5332
FIGURE 2801

GACATGGCGGCGCGCCGGTAGCGGCTGGGTCTGGAGCCGGCCGAGGGAGACGGTCGGCAGCCACAGTGGCGGCT
TGGGGCGGATGGGGCGGCGCGCCGGCCTGGTAACATTCTGCTGCAGCTGCGGCAGGGCCAGCTGACCGGCCGG
GGCCTGGTCCGGGCGGTGCAGTTCACTGAGACTTTTTGACGGAGAGGGACAAACAATCCAAGTGGAGTGGAATT
CCTCAGCTGCTCCTCAAGCTGCACACCAGCCACCTCCACAGTGACTTTGTTGAGTGTCAAAACATCCTCAAG
GAAATTTCTCCTCTCTCTCCATGGAGGCTATGGCATTGTTACTGAAGAGAGGAACTTACCCAAGAAACCACT
TATCCAAATACTTACATTTTGAATTGTTGGAGGTGTGATCTTCTTGTAGAAATCTTATGAGGCCTACGATC
TCTATCCGGGGACAGAACTGAAAAGTAATGATGAAATGCCAAGGACTGCTTGAGTATCCTGTATAAATACCTGT
GTCTGTACAGAGGGAGTTACAAAGCGTTTGGCAGAAAAGAATGACTTTGTGATCTTCTGTATTACATTGATGACA
AGTAAGAAGACATTCTTACAAACAGCAACCCTCATTGAAGATATTTTGGGTGTTAAAAAGGAAATGATCCGACTA
GATGAAGTCCCAATCTGAGTTCTTAGTATCCAATTTGATCAGCAGCAGCTCGCTAATTTCTGCCGATTCTG
GCTGTACCACTTTCAGAGATGGATACAGGGAATGATGACAAGCACACGCTTCTTGCCAAAAATGCTCAACAGAAG
AAGAGCTTGAGTTTGGGGCCTTCTGCAGCTGAAATCAATCAAGCGGCCCTTCTCAGCATTCCTGGCTTTGTTGAG
CGGCTTTGCAACTGGCGACTCGAAAGGTGTGAGAGTCAACGGGCACAGCCAGCTTCCTTCAGGAGTTGGAAGAG
TGGTACACATGGCTAGACAATGCTTTGGTGCTAGATGCCCTGATGCGAGTGGCAATGAGGAGTCAGAGCACAAT
CAAGCCTCCATTGTGTTCCCTCCTCCAGGGGCTTCTGAGGAGAATGGCCTGCCTCACACGTCAGCCAGAACCCAG
CTGCCCCAGTCAATGAAGATTATGCATGAGATCATGTACAACTGGAAGTGCTCTATGTCTCTGCGTGCTGCTG
ATGGGGCGTCAGCGAAACCAGGTTACAGAAATGATTGCAGAGTTCAAGCTGATCCCTGGACTTAATAATTTGTTT
GACAACTGATTTGGAGGAAGCATTACAGCATCTGCCCTTGCTCTCCATGGTCAACACCAGAACTGTGACTGTAGC
CCGGACATCACCTTGAAGATACAGTTTTTGGAGGCTTCTTCAGAGCTTCAGTGACCACCACGAGAACAAGTACTTG
TTACTCAACAACCAGGAGCTGAATGAACTCAGTGCCATCTCTCAAGGCCAACATCCCTGAGGTGGAAGCTGTC
CTCAACACCGACAGGAGTTTGGTGTGTGATGGGAAGAGGGGCTTATTAATCGTCTGCTGCAGGTCTAGGAAG
GAGCCAGCAGAGTCGTCTTTAGGTTTGGCAAGCTCGGGCTGTGGAGAGTTTCTCCGAGGGACCCTCCTAT
GCAGACCAGATGTCTCTGTAAGCGAGGGCTTCTGGAGCACATCCTTTACTGCATTGTGGACGCGAGTGAAG
TCAAGGGATGTGCTCCAGAGTTACTTTGACCTCCTGGGGAGCTGATGAAGTTCAACGTTGATGCATTCAGAGA
TTCAATAAATATATCAACACCGATGCAAGTTCCAGGTATTCCTGAAGCAGATCAACAGCTCCCTGGTGACTCC
AACATGCTGGTGGCTGTGTCACTCTGTCCCTGGACCGATTGAAAACCAGGTGGATATGAAAGTTGCCGAGGTA
CTGTCTGAATGCCGCTGCTCGCCTACATATCCCAGGTGCCACGCAGATGTCTTCTCTTCCGCTCATCAAC
ATCATCCACGTGCAGACGCTGACCCAGGAGAACGTCAGCTGCCTCAACACCAGCCTGGTGATCTGTGCTGGCC
CGACGGAAAGAGCGGCTGCCCTGTACCTGCGGCTGCTGCAGCGGATGGAGCACAGCAAGAAGTACCCCGGCTTC
CTGCTCAACAACCTTCCACAACCTGCTGCGCTTCTGGCAGCAGCACTACCTGCACAAGGACAAGGACAGCACCTGC
CTAGAGAACAGCTCCTGCATCAGCTTCTCATACTGGAAGGAGACAGTGTCCATCCTGTTGAACCCGGACCGGCAG
TCACCTCTGCTCTCGTTAGCTACATTGAGGAGCCCTACATGGACATAGACAGGGACTTCACTGAGGAGTGACCT
TGGGCCAGGCCTCGGGAGGCTGCTGGCCAGTGTGGGTGAGCGTGGGTACGATGCCACACGCCCTGCCCTGTTCC
CGTTCTCCTGCTGCTCTCTGCTGCCCTGCCAGGCTTTTGGGTACAGGCTTGGTGGGAGGGAAGTCTAGAGCCC
TTGGTCCCCCTGGGTCTGAGGGCCCTAGGTCATGGAGAGCCTCAGTCCCCATAATGAGGACAGGGTACCATGCCC
ACCTTTCTCTCAGAACCTTGGGGCCAGGGCCACCCAGAGGTAAGAGGACATTTAGCATTAGCTCTGTGTGAGCT
CCTGCCGTTTCTTGGCTGTGCTCAGTCCCAGAGTGGGGAGGAAGATATGGGTGACCCCCACCCCTCTGTG
AGCCAAGCTCCCTTGTCCCTGGCCTTTGGACCCAGGCAAGGCTTCTGAGCCCTGGGCAGGGGTGGTGGGTACC
AGAGAATGTGCTTCCCCAAGCCTGCCCCCTGCTCATTTCCTGTAGCTCCTCTGGTCTGTTTGCTCATT
GGCCGCTGTGTTCAATCAAGGGGTTCTCCAGAAGTGAGGGGCTTTCCCTCCATCCCTTGGGGCACGGGGCAG
CTGTGCTGCCCTGCTCTGCTGAGGCAGCCGCTCTGCTGAGCCTGGACATGGGGCCCTTCTGTGTGCTGCTG
AATTTATTAACAGCAATAAACCATTAAATGGAGACTATTAATAAATTTATTTT

3198/5332
FIGURE 2802

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCCACGCCTACGA
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTTTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCGAAACTCCTCCAGCCTTTCAGACCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCCCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCCTTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCACTACTACCTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAAT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGC GGATTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACGCGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGAGCAGGTGCAAATTTAGAAAAACACTGTAGTTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTCACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCCTAGACTCCTCATAACCACTGGATAATTTTTTATTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

3199/5332
FIGURE 2803

CAGGTCCGGAGCCTCAACTTCAGGATGTTGACAACATTGCTGCCGATACTGCTGCTGTCTGGCTGGGCCTTTTGT
AGCCAAGACGCCTCAGATGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTG
TGGTACCAGGGCAACGCGTCGCTGGGGGACACCTAACGCACGTGCTGGAAGGCCCAGACACCAACACCACGATC
ATTCAGCTGCAGCCCTTGCAGGAGCCCGAGAGCTGGGCGGCACGCAGAGTGGCCTGCAGTCCTACCTGCTCCAG
TTCCACGGCCTCGTGCGCCTGGTGCACCAGGAGCGGACCTTGGCCTTTCCTCTGACCATCCGCTGCTTCCTGGGC
TGTGAGCTGCCTCCCGAGGGCTCTAGAGCCCATGTCTTCTTGAAGTGGCTGTGAATGGGAGCTCCTTTGTGAGT
TTCCGGCCGGAGAGAGCCTTGTGGCAGGCAGACCCAGGTCACCTCCGGAGTGGTCACCTTCACCCTGCAGCAG
CTCAATGCCTACAACCGCACTCGGTATGAAGTGCAGGAAATTCCTGGAGGACACCTGTGTGCAGTATGTGCAGAAA
CATATTTCCGCGGAAAACACGAAAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTG
GGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGTTAAATTACTCTCC
AGCCCCCTCAGAAGGGGCTGGATTGATGGAGGCTGGCAAGGAAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCC
AACTGAAACACCAGAAGGTTTGGAGTGACAGCTCCTTCTTCTCCACATCTGCCCACTGAAGATTTGAGGGAGG
GGAGATGGAGAGGAGAGGTGGACAAAGTACTTGGTTTGCTAAGAACCTAAGAACGTGTATGCTTTGCTGAATTAG
TCTGATAAGTGAATGTTTATCTATCTTTGTGGAAAACAGATAATGGAGTTGGGGCAGGAAGCCTATGGCCCCATCC
TCCAAGACAGACAGAATCACCTGAGGCGTTCAAAAGATATAACCAAATAAACAAGTCATCCACAATCAAAATAC
AACATTCAATACTTCCAGGTGTGTCAGACTTGGGATGGGACGCTGATATAATAGGGTAGAAAGAAGTAACACGAA
GAAGTGGTGGAAATGTAAAATCCAAGTCATATGGCAGTGATCAATTATTAATCAATTAATAATATTAATAAATTT
CTTATATTT

3200/5332
FIGURE 2804

TCACTGAGGAGCCCTAGACAAGGCCAATGGGTTCAATGCCCCTGGCTCTCTGCCAAAGCCAAAAGGTGTC
AGGCAGTCTCCAGCGTGCTGGCCGGGTCTCGGATGCCACCCCTGCTCACTGAGCCTGCATGGGCCTTGCCCCGA
CCCTGTGGTCTCTGGGATTGGGGTCGGCTTACCCTGTAGCACAGACAGGGACTCCTGCTGCCCTGGGAGCTGTCT
CAAGCAAAATCTCTTGTCCTCAGAGGTGCCCATGTGGGTCCGCTGTGTCCCCTGTATCATCCTTGTTTTTCTCA
TTTTGGCCAAGGGCAGGCTCCCTGGGACAGGCAGGGAACAACCTGCGGAGATATTAGTGATTCAAGGTTTGTACA
GTGTTTTATACTTTGCAAAGCACTTTATTAGCTCACACCTGTCCACTCACATGAAACTCGTGTTAGGCCCTGGGA
GGCCGACGGTAACCTCTACCGTGCCCTCAGATGAAGCACAGAGAGGTTGTTACTTGCCCGGGCCATCCAGTGGGC
TGGCTGGGTCTTGTTGTCCCATCTGTGGACCCCTCTAGGGTCTGAGATGAGATGAGAAGTGTCTCCTGTATCCAC
CTCTTCCTGGCCTCCCTTCCCCCACTTCCTGGTCCCTGTCCACTCCTCAGGTTGGTGCTCTCACTTCTTGAAAGC
TCTAGGCACCCCCGCCTCCCGCCAGGCTCCCCATTGGCTCCTGGCAGGCCAGCTGAGAATGAACAGGAGATGGAG
GCAGGCTGGGGTGTAGACTGCGAAGGCGGCCCTGCCGGGACTTCTTTCCAGTCCCCGGCGACCTCTTCAATTCT
CTGCTATCTCTGGGGAGCCTCGGGTGGGAGGGGGTGTAAAGACGCGAGGGACGTGGGGAGAGGAGACAAGGCAGG
CAAGAACCACAGGGGACGGCGGACAGACGGGCGACATCCTGCGGAGGACGCCGTAGTACCAGGAAGTGCAGGCG
ATGAGGAAGCGCACGTCTCCAGCGGCCCCACGGGCTGGGCTCGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGG
GGCTGGGGCGGATGCCGGGGCTGTTCCGGGCCCTCCGGCGCCGAGGCTGGGGCTGGGGCTGGGGCTGGGTTTGC
GCAGGCTCCGGGGCGCCGCGGCCG

3201/5332
FIGURE 2805

GGTGGTGGCGTCACGGCGCCAGCTCCTCCCGACGCCGAGACCATGGGGGCTCAGCTAAGCGGCGGGCCGCGGCGCC
CCGGAGCCTGCGCAAACCCAGCCCCAGCCCCAGCCCCAGCCTGCGGCGCCGGAGGGCCCGGAACAGCCCCGGCAT
CCGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCGAGCCCGTGGGGGCGCTGGACGACGTG
CGCTTCCTCATCGCCTGCACTTCCTGGTACTGACGGCGTCTCCGCAGGATGTCGCCCCGTCTGTCCGCGTCCCC
TGTGGTTCTTGCTGCCTTGTCTCCTCTCCCCACGTCCCTGCGTCTCTTACACCCCCCTCCACCCGAGGCTCCCC
AGAGATAGCAGAGAATTGGAAGAGGTCGCCGGGGACTGGAAAGAAGTCCCGGCAGGGCCGCTTCGCAGTCTACA
CCCCAGCCTGCTTCCCAGCCTACACCCAGACCCAGCTCAGACCTTCGTGACCACCCCATCCCTTTCTCCGGCTGG
CTGGGTCGGGGGCATCCCTCTCTGTGCTGGCTTCCAGAGGCAGGACAGGCCTCCTGGTCATGTCCAGGTCATG
GAGAAGCCCGTGCCACAGTGACCTCCCCATACTCTGGGGGGGCTGCTCTCCATCCTGGATCGTAAGGAGGCAT
CATCAGGCTGTGTTCTTGAAACCCCAATAACCCTGGGCCCCCAGGGCCAGCCTGTTGTAGAGGGAGGCTATCTGA
CCGCCGGTCTGGCAGAGGAGATGGGTGGGCAGCTCCAGACACCCCAAAGGACCCGGTTCTCTTCCAGAGCGTC
CTAAGGTTACTCTTGGAACCTGATCTTTGTTCCCTCATCCAGGGAAATGACACACTCTGTATTTCTGTTTTATT
TAGAAATGATTTAAAAAACATTATACAAAGGCTGATCAGTTTAAATGTGACTGACACTGAAATGCTGTGATGTC
CCCCAGGCTGAGGGGAAGCTAGGCTCTGGGGCCCCCAGTGCTTTGCCCTCTGTCTGCCCTGTCTGGGGTGATG
GACAAACAGATGACCACAGGCAGGAGAATCTGAGATTGGAAGCCTCTAGGCTGAGCCCTCTGGGCCTGGCCCCAC
ATCCCTCACCTCTGCAGCCTGGGCTGCCTGCCTCCATCTCTGTTTATTCTCAGCTGGCCTGCCAGGAGCCAATG
GGGAGCCTGGCGGGAGGCGGGGTGCCTAGAGCTTTCAAGAAGTGAGAGCACCAACCTGAGGAGTGGACAGGGAC
CAGGAAGTGGGGGAAGGGAGGCCAGGAAGAGGTGGATACAGGAGACACTTCTCATCTCATCTCAGACCTAGAGG
GGTCCACAGATGGGGACACAAGACCCAGCCAGCCCACTGGATGGCCCCGGGCAAGTAACAACCTCTCTGTGCTTCA
TCTGAGGGCACGGTGAGAGTTACCGTCGGCCTCCAGGGCCTAACACGAGTTTCATGTGAGTGGACAGGTGTGAG
CTAATAAAGTGCTTTGCAAAGTAT

3202/5332
FIGURE 2806

ACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGG

3203/5332
FIGURE 2807

AGGAACCAGACTAGCATTCTCTCAGTGGGTTCCAGTATGCAGCCGATTGATACCTGTGTCTCCTACCCAAGGACAG
GGGGACAGGGCTCTGTCTCGCACTTCCCAGTGGCCCCAGATGAGCCAGTCCCGAGCATGTGGTGGATCAGAACAG
ATTCTTGAATAGACATACAGCTGAATAGGAAGTATCACACCACACGTAAGCTTTCTACTACCAAAGATTCCCCA
CAGCCTGTTGAGGAGAAGGTTGGTGCTTTACAAAGATAATAGAAGCCATGGGATTACGGGACCTTTGAAATAC
AGTAAATGGAAGATTAAAGATTGCGGCCCTGCGCATGTATACTAGCTGTGTGGAGAAAACCTGACTTCGAGGAATTC
TTTCTAAGGTGTGAGATGCCTGATACATTCAATTCATGGTTTCTTATAACCCTACTCCACGTCTGGATGTGTCTA
GTCCGAATGAAGCAGGAAGGCCGAGTGGGAAGTACATGTGTCGTATCATAGTTTATTTATGTGGGAGGATGTT
CAGCAGCGCGGCAGAGTCATGGGGGTTAATCCCTATATCCTGAAGAAGAACATGATCCTCATGACAAATCATTTTC
TATGCAGCGATCTTGGGATATGATGAGGGGATCCTTTCAGATGATCATGGGCTGGCCGCTGCCCTCTGGAGAACC
TTCTTCAACCGGAAATGTGAAGACCCTCGACATCTTGAATTGCTGGTAGAGTATGTGAGGAAACAGATACAGTAC
CTGGACTCCATGAACGGGGAGGATCTGCTTCTGACAGGGGAGGTGAGCTGGCGCCCTCTAGTGAGAGAAGAATCCT
CAGAGCATCCTGAAGCCCCATTCTCCGACTTACAACGACGAGGGACTTTGATGGGCTGGGCCCTCCGCACGGCCC
GCCAGCTGGCTTCGAGGAACCTCCAGGAGAGAAGTGCTGTTGGTCCAGGACCCTGCAGAAAGTGGCCTGAACGT
ACCTCTGAACAGCATCTGTCAAATACCTGGCCCCATTTGTGTTGAGTTTCTCTTAGTGTGCCCAGGAGTCTGAT
CTGCTGGGGTACAGGGCTGGGAGAACCCTAGCTCTCCCGGGGTGCTCTCTCCCTTAGGGGAAGCCCCGAGTGAG
AGTCCCCCAGCACACACTCCCCAACCCCTCCAGCAACTACATGTGACTGATAGCTTTTCCCAAAGGCCAAGGAA
GGGATGGTGTAGGTTCAAAAGGGAAACCCCCAGGGCTGCTGTGGCCTAGGAGCAGATTGTAATGCTGCCGAGT
CCGGTCCGTGACCACGCGTTGTCCCTCGGCTTTCAGCCATGGGGTTGAGTTGGCCATTAAAGAAACAGAGACTT
CTCTCTGCCATGGCCCTTCTTTATTCCAGGGACTTAGAAACTTGCCCTGAGATGGTGGACGCAGTAATGAGGGCAC
CGCGCAGCTCAGTTAGAGACGGAGAAAGGGAAGAGGCTGGGATGGTCTCTGCTGCTCTTGCCCTCTAGTTCATGGA
GATGTGTCTCTGTTCAAGGCAAGATACAGCCAGCCAGGCCTGTCGCTCTGGGACCCAGGAGGCCTCTGATGACCAA
GGGCTTTCACATCCTAAGTCATTTGGAAGGAGGCCTTGAGAACAAAGTCACCTTTGTCACTCCCAGTGAAGTAA
TGAGGAACATGCTGTCTCTGCTTGGCCTCCCTTTCATGAGATACTGGGGAGAAGAGAACATTCCCTCCTGGCT
TAGTTGTAGCAGACCCAGACCTGTGCCAGCTTTGGTCCCCCTTCCCAACTTCTGAAGCACGTGCTGCAGAGCCA
CCTTGGTCTGAGCACCTGAGGACCAGCCCCTCCTCCCTCAGTGCGGGTCTCTCTTGGGGGATTTTCTTAAAGTG
AAGAAAGGGGGTGGGGAACCATATTGCCCCCTCCCTCCCCCATCAAACCTTCTTCAATTTAACTTGCTATAAAATGA
GTCATATAAAGAACTCTATATGGGTGAGGTATATCCCACCTTCTGTGAAAACATTACAAATCAAACCGCTTCTCT
CAGTTTATTTAAGATGCTTTTGTGCGAGCGGAGCTCTAGAGTGAAGCCTCCTGTGTGTGTGTGAGATAATAACA
CCTTGTAACCTATTACAGCTGGGCACTATTTACATAAACCAGAGCTGAGCCAGGCAGGAATTTGCTGATTAAATTT
ATTTTAAATGGAGTGAAGTATACCATGCACCAAAATAAACTTTACTGTGTGTACCTAACTGCTCCTGG

3204/5332
FIGURE 2808

CTCCTTCAAGCCCTCAGTCAGTTGTGCAGGAGAAAGGGGGCGGTTGGCTTTCTCCTTTCAAGAACGAGTTATTTT
CAGCTGCTGACTGGAGACGGTGCACGTCTGGATACGAGAGCATTTCCTATGGGACTGGATACAAACACACACC
CGGCAGACTTCAAGAGTCTCAGACTGAGGAGAAAGCCTTTCCTTCTGCTGCTACTGCTGCTGCCGCTGCTTTTGA
AAGTCCACTCCTTTTCATGGTTTTTCCTGCCAAACCAGAGGCACCTTTGCTGCTGCCGCTGTTCTCTTTGGTGTCA
TTCAGCGGCTGGCCAGAGGATGAGACTCCCCAACTCCTCATTCTTGCTTTGGTACCTGGCTTGGCTGGACCT
GGAATTCATCTGCACTGTGTTGGGTGCCCCGACTTTGGGCCAGAGACCCAGGGGACCAGGCCAGGATTGGCCAA
AGCAGAGGCCAAGGAGAGGCCCCCTGGCCCGGAACGTCTTCAGGCCAGGGGGTCACAGCTATGGTGGGGGGGC
CACCAATGCCAATGCCAGGGCAAAGGGAGGCACGGGCAGACAGGAGGCCTGACACAGCCCAAGAAGGATGAACC
CAAAAAGCTGCCCCCAGACCGGGCGGCCCTGAACCCAAAGCCAGGACACCCTCCCCAAACAAGGCAGGCTACAGC
CCGGACTGTGACCCCAAAGGACAGCTTCCCGGAGGCAAGGCACCCCCAAAAGCAGGATCTGTCCCCAGCTCCTT
CCTGCTGAAGAAGGCCAGGGAGCCCGGGCCCCCACGAGAGCCCAAGGAGCCGTTTCGCCACCCCCCATCACACC
CCACGAGTACATGCTCTCGCTGTACAGGACGCTGTCCGATGCTGACAGAAAGGGAGGCAACAGCAGCGTGAAGTT
GGAGGCTGGCCTGGCCAACACCATCACCAGCTTTATTGACAAAGGGCAAGATGACCGAGGTCCCGTGGTCAGGAA
GCAGAGGTACGTGTTTGACATTAGTGCCCTGGAGAAGGATGGGCTGCTGGGGCCGAGCTGCGGATCTTGCGGAA
GAAGCCCTCGGACACGGCCAAGCCAGCGGCCCGGAGCGGGCGGGCTGCCAGCTGAAGCTGTCCAGCTGCCC
CAGCGGCCCGCAGCCGGCCTCCTTGCTGGATGTGCGCTCCGTGCCAGGCCTGGACGGATCTGGCTGGGAGGTGTT
CGACATCTGGAAGCTCTTCCGAACTTTAAGAACTCGGCCAGCTGTGCCTGGAGCTGGAGGCCCTGGGAACGGGG
CAGGGCCGTGGACCTCCGTGGCTGGGCTTCGACCGCGCCCGCCCGGCAGGTCCACGAGAAGGCCCTGTTCTGGT
GTTTGGCCGCACCAAGAAACGGGACCTGTTCTTTAATGAGATTAAGGCCCGCTCTGGCCAGGACGATAAGACCGT
GTATGAGTACCTGTTTCAGCCAGCGGCGAAAACGGCGGGCCCCACTGGCCACTCGCCAGGGCAAGCGACCCAGCAA
GAACCTTAAGGCTCGCTGCAGTCGGAAGGCACTGCATGTCAACTTCAAGGACATGGGCTGGGACGACTGGATCAT
CGCACCCCTTGAGTACGAGGCTTTCCTACTGCGAGGGGCTGTGCGAGTTCCCATTGCGCTCCCACCTGGAGCCCCAC
GAATCATGCAGTCATCCAGACCCTGATGAACTCCATGGACCCCGAGTCCACACCACCCACCTGCTGTGTGCCAC
GCGGCTGAGTCCCATCAGCATCCTCTTATTGACTCTGCCAACAACGTGGTGTATAAGCAGTATGAGGACATGGT
CGTGAGTCTGTGGCTGCAGGTAGCAGCACTGGCCCTCTGTCTTCTTGGGTGGCACATCCCAAGAGCCCCCTTCC
TGCACTCCTGGAATCACAGAGGGGTGAGGAAGCTGTGGCAGGAGCATCTACACAGCTTGGGTGAAAGGGGATTCC
AATAAGCTTGCTCGCTCTCTGAGTGTGACTTGGGCTAAAGGCCCTTTTATCCACAAGTTCCCCCTGGCTGAGGA
TTGCTGCCCCGTCTGCTGATGTGACCAGTGGCAGGCACAGGTCCAGGGAGACAGACTCTGAATGGGACTGAGTCCC
AGGAAACAGTGCTTTCCGATGAGACTCAGCCCACCATTTCTCCTCACCTGGGCCTTCTCAGCCTCTGGACTCTCC
TAAGCACCTCTCAGGAGAGCCACAGGTGCCACTGCCTCCTCAAATCACATTTGTGCCTGGTGAATCCTGTCCCT
GGGACAGTTGAGAAGCTGACTGGGCAAGAGTGGGAGAGAAGAGGAGAGGGCTTGGATAGAGTTGAGGAGTGTGAG
GCTGTTAGACTGTTAGATTTAAATGTATATTGATGAGATAAAAAGCAAACTGTGCCT

3205/5332
FIGURE 2809A

CGTTGCGGCAGCGGCCCTTGTGTTACCCGGGGCCCGCTTGCCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCGCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTCACGTAATCTATCCGAAAGCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTTCTTCAGGACCCTGCTGAAGTATCGTTCTCAGCCGCTTCTCCAG
GCGCAGCTGCATTGCTTCTCGGTTTTTGCACTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGCTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTGGAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGCTGGGCGTGAACACCCTCTGGCTACCTAGGGACCTGTGGGCCTACCACCTGGTGCCCTC**ATGG**
AGACAAGAAGCCCTGGGTTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAATCCCAGGAGGCCAGCAGAGAC
AAGCAACCCTTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGAAAACTGACAGTGGACTGGAGCCGGGCCCCGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCCGC
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCGACGCCACTTCTGGAATGAAGTCAGCTACTGCAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAAACCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGGCTGAACCTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAAGAAGGGGACAATATAGCCCAAGGCTCTGGTCAAGAACTCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCCTTCAGTGTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAAGGCTGTGAAGTGTGTTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCCGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCCTGCGAAGGGTAAATGTGGAGCTTCAGCTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAAGTGAATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTCGAGTTCTGAAAACACCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGCGAGAAATGCTTTGCAGGTGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTCACCAAGGGGCAGCTGGAGGTCCAGATTCAAAGTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAAGTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGAGAGCAGCAGAAGGCAGCCCATG
AGAAAAGAGGTGAACAGCTCCGGGAGAAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAGAAAATGGAGCTGGAAATGAGGCTAAAGGAGCAGCAGACAGAAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAAGTGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAGGAGCAGGAGACCACTGGGATACTACAGACCCAGCTCCAGGAGGCTC

3206/5332
FIGURE 2809B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCCAGGATGACTCCCAGA
GGCTGGTGGAGCAGGAGGTTTACGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTGAGAAGGAGCTGGAGA
GAGAGAAAGCCAGCCTGACTCTGTCACTGATGGAAAAGGAACAGAGACTCCTTGTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCCCTGGCCGAGAGCAGCAGCCCGGGAACAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAAGTATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCTGAGAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTCGGGGACAAATCCAGGAAGTGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTGAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGATCCCAGAGAGGACAGGTTGAGGACCTGAAAAAGCAGT
TGTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAGATGGAGTGCCAGCAAAAACCTGATCA
AGGAGCTGGAGGGCAGAGGGAAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCGTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTGAGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTCAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCAGCGAG
AGCAGGAAATAGTGGTCTGTCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCATA
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGCAGTGTCTAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCACTCCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGCTGAGGCTCTGCAGGAGGCCCTTGGAAGGCTCATGCTGCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCCCTGC
AAGCCTCCCTGGATGCTGCCAGGCACACAGTCGGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCTTCATCAGAGTGAAGGGAGCTACAGCTGA
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCCAATGGAGGAACAATCTCTAAAACCTTGATTCTTTAGAGCCAGGCTGCAGCGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

3207/5332
FIGURE 2809C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGTCAGCAGTCTGCAGGAGGTAGCCATGTTCCCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTCACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCCAGGCC
CTGAGGCCACTGTCTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCCTGCTACACCCCAGCCCCAGCACTACCCAAAGCCGCCTCCAGGTTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTGTCATGGGTGTCATGGCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCAACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCTAGCACTTACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTC

3208/5332
FIGURE 2810

CTGGCGTCCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTCAGTGGCCTTCTCATGCTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGTCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGAAACTTCCACTTT
GCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCAATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCCTGCGCCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCTCGGTGCTTCTCTG
TCTCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTCAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGT

3209/5332
FIGURE 2811

AGAAGAAAGCTGGTAGGGGCTGGGAGAGGGTACCACAGGGGAGTATGATCTACTTGGGGGCCAGAGAAGGTTCCC
TGAGGAAATAGTACCTGAACTTAGACTTGAAGGATAACAGATGTTAACTGGGAGGAGAGAATGTTCCAGGCAGAG
GAAAAGGCATATGCAAAAGTCCAGCGCCTTGAAGGAGCACAGCTGGGGTGCTGGAGTGAGATGGAGCTGGAAG
ATCCAGGTGGAGCTTGACCTGAAGTACCAGCCCCAGAGGGCGCTACTGGAGCCTGGTCAGAGGAGGACTTTGGG
GCACCCATCCAGGACAGCTTCGAGTTAATCATCCCCAATGTGGGCTTCAGGAACCTGGAGCCTGGGGAGGCCAG
CTGGAGCGGGCGGGCAGTGCGCTTAGGCCGCAGGCTAGCTCGAAGTCTAGGCCAGCAGGACGATGAAGAGAATGAG
CTGGAGCTTGAGCTGGAGCAGGACCTGGATGATGAGCCTGACGTGGAACCTTCTGGTGTTATGTTTCAGCCCCCTC
AAGAGCCGCGCCAGGGCCCTGGCCCATGGGGATCCCTTCCAGGTGTCCAGAGCTCAAGACTTCCAGGTGGGAGTC
ACTGTGCTGGAAGCCAGAACTGGTGAGTCAACATTAACCCCTATGTGGCCGTGCAAGTGGGGGGGAGCGC
CGGTTCGCTCCTCAAGACTTGCTGCTGGAGATCACGGTGAGTGGGGTAGGGGTGACCAGTGTCTTCAGAGAAGG
GGGGATGAGAAAGCTGCAGGACTAACACCACCTTCCCCCAAGGCTTCCATTTCGAGACCTCCCCCTTATGGCC
ACCCGGATAGGCACCTTCAGGATGGACCTGGGCATCATCTTGACCAGCCAGGTATGGAATCGTCCCCTTATGTA

GACTCTGCACGGACAAGGGCCCTAGAGATTGACCTGCGAGTACTCCGCATGGACCCCTATACACTCACTTCGGA
GAGGGCCATCTCTGGCGGAGGCTGAACTCTTGGCACTTCCGCCCCCTCCCTGCTGAGCCAGAGAAGCCCTGGCCAT
TGTCGCTCACTCCGATAGCCTCACGGCCACCCTGTGCGTCCCGCCGGTCGCCCCCTTACCCCTGGCTCGCCCCCTC
GCCCTTAGATGGCCAGTTCTACCAAAGATGGGTTCGCTGCATGATCCCCGAGACACCCGCGCCGGGACCAAGGG
TTTCATTAAGGTACCTTGTCCGTGAGGGCGCGCGGGGACCTGCCCCCTCCAATGCTACCCCCGGCCCCAGGGCA
CTGTTCGGACATCGAGAAAGTGAGCCGGGGTGAGGTGGGGAGGAGACATGGATCCGGGGGTGGCCGTGGGGCGCG
GATAAGGGGAGGGGCCGAGATCCAGTTTCTCCCCCCCCGCTCGGTGCCCCCTCCCCTAGGAACCTGCTCCTGCC
GCGCGGGGTGCCGCGGAGAGGCCATGGGCGCGGCTCCGCGTGCGCCTGTACCGCGCCGAGGGGCTTCCCGCGCT
GCGCCTGGGGCTGCTGGGCAGCCTGGTCCGCGCCCTGCACGACCAGCGCTCCTGGTGGAGCCCTATGTGCGGGT
GTCTTTCTGGGGCAGGAGGGCGAGACGTGCGTGAGCGCCGAGGCGGCGGCCGAATGGAACGAGCAGCTGAG
CTTCGTGGAGCTCTTCCCGCCGCTGACGCGCAGCCTCCGCTGCAGCTGCGGGACGACGCGCCCTGGTTCGACGC
GGCACTCGCTACGCACGTGCCGGACCTGAGGCGGATCTCCCATCCGGGCCGCGCGGGGTTTAAACCTACCTT
CGGCCCGGCTGGGTGCCCTCTATGGCTCGCCCCCGCGCGGGGCTCCGGGATAGTCTTCAAGGTCTCAACGA
AGGCGTTGGCCAAGGCATTGGTTCCGCGCGCCGCTTCTGCTGGCTGTGTCCATGCAGGTGTTGGAAGGGAGAGC
TGAACCTGAGCCTCCCCAGGCCAGAGGGGTCCACGTTGTCCCGGCTCACCCG

3210/5332
FIGURE 2812

CAAAATATTCCATTGAGCATTACAAAGATGGATGTTCTTCAGTTCCCTAGAAGGAATCCCAGTGGATGAAAATGCTG
TACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTTCAGTTTAAAAATGAAGATGATGCAC
ATGGCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGCTCCAAG
TCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAACGGGTG
CGGAAGTGTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAGCTACGC
TTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGTGAGTGTTC
CTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCTTGATGTGAAGCCTGGAAAACCTGCTGGGCGGGG
ACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAACCTAGAT
AAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCACCTGGTG
TACAGATCTGAGGTCAATCAAGAACAACCTGAACCCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCATTCTGT
GGTGGGAACCCAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTCACATGATCTCATCGGT
ACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAGCAGCAG
AAAAAGAAAAGCTACAAGAACTCTGGAACTATCCGTGTCAAGATTGTGCGGTAGAAACAGAGTACTCCTTCTG
GACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGACCCCTCC
TCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTGGGCAGC
GTGGTTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTGATTTGGGATTTGGGGCCAGGTTCCCCCTGACTGGCAG
GTCTCGCATGAATTTGCCTTGAATTTCAACCCCAAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTGGATGCC
TACCGCCAAGCCCTGCCCAAGTTTCGCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTGGCCAGG
TTTGCAGCCCAAGCTGCACATCAGGGGACTGCCTCGCAATACTTTCATGCTGTTGCTGCTGACTGATGGTGTGTG
ACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTGAGTGATCATTGTGGGTGTG
GGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTTCTGGGCAGGCT
GCTGCCCAGCAGATTGTGAGTTTGTACCCCTACCGCCGTTCCAGAATGCCCCTCGGGAGGCATTGGCACAGACC
CCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCC**TAG**TTCCCTTGGAGGCTGTGGCAAGTCTCAATCCTGT
GTCCAGAGGTCCCTCTGGGCCACAACCAACCCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTTTTGATA
CTTTTATACCTGTTTCTGCTTTTGCTGCTTTGATCCCACCTTGCTCCTGACAACCCCTCATTCAATAAAGACCA
GTGAAGACC

3211/5332
FIGURE 2813A

GCTTCCTTTGGGAGCCCAACGTTTAGCTCAACTGTTCCAAGCACAGCCTCTCCAATGAACACAGTCCCGCCGCCA
CCAATTCCCTCCAATTCCAGCGATGCCATCTCTGTGCCACCCATGACCCCACTGCCACCCATGTCCGGCATGCCGC
CCTTGAATCCGCCACCTGTGGCACCTCTACCTGCTGGAATGAATGGCTCTGGAGCACCTATGAATTTGAACAATA
ATCTGAATCCTATGTTTCTTGGTCCGTTGAATCCTGTTAACCCTATCCAGATGAACCTCTCAGAGCAGTGTGAAGC
CACTCCCCATCAACCCGTATGATCTGTATGTGAGTGTGCATGGAATGCCCTTTTCTGCAATGGAAAATGATGTCA
GAGATTTTTTTCATGGGCTCCGTGTTGATGCAGTGCATTGTGTTGAAAGATCATGTAGGTCGAAATAATGGGAATG
GATTGGTTAAGTTTCTCTCCCTCAAGATACATTTGAAGCTTTGAAACGAAACAGAATGCTGATGATTCAACGCT
ATGTGGAAGTTAGCCCTGCCACAGAAAGACAGTGGGTAGCTGCTGGAGGCCATATCACTTTTAAGCAAAATATGG
GACCTTCTGGACAACTCATCCCCCTCCTCAGACACTTCCAGGTCAAATCGCCAGTGGGCAGAAAAGATCAA
GGTCAAGATCACCACATGAGGCTGGTTTTTGTGTTTACTTGAAGGGCTACCATTGAAGCAGAAAACAAACATG
TCATTGATTTTTTTAAAAAGCTGGATATTGTGGAAGATAGTATTATATAGCTTATGGACCCAATGGGAAAGCAA
CTGGCGAAGGCTTTGTAGAGTTCAGAAATGAGGCTGACTATAAGGCTGCTCTGTGTCGTATAAACAGTACATGG
GCAATCGCTTTATTCAAGTTCATCCAATTACTAAGAAAGGTATGCTAGAAAAGATAGATATGATTGCAAAAAGAC
TGCAGAACTTCAGCTATGACCAGAGGGAAATGATACTAAATCCAGAGGGGGATGTCAACTCTGCCAAAGTCTGTG
CCCACATAACAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAGGAATCCCAGTGGATG
AAAATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTTCAGTTTAAAAATGAAG
ATGATGCACGTAAGTCTGAACGCTTACACCGTAAAAAACTTAATGGGAGAGAAGCTTTTGTTCATGTAGTTACCC
TAGAAGATATGAGAGAGATTGAGAAAAATCCCCCTGCCAAGGAAAAAAGGGATTAAAGATGCCTGTGCCAGGTA
ATCCTGCAGTTCCAGGAATGCCAATGCGGGACTGCCCGGTGTGGGACTGCCAGTGCAGGACTTCCCGGTGCAG
GCCTGCCAGCACAGGACTGCCTGGTTACAGCAATAACCACTGAGGACTGCCTGGTGCAGGAAATGCCAGTGCAG
GAATACCTAGTGCAGGAGGTGAAGAGCATGCCTTTCCTGACTGTAGGATCAAAGGAAGCCAATAATGGGCCCTCAT
TTAACTTTCTGGTAATTTTGGTGGATCAAATGCCTTTGGGCCACCAATCCCTCCTCCAGGATTAGGAGGCGGGG
CCTTTGGTGTATGCTAGGCCTGGTATGCCTTCAGTTGGAACAGTGGTTTGCCTGGTCTAGGACTGGATGTTCCGG
GTTTTGGAGGTGGACCAACAATTTAAGTGGGCCATCGGGATTGGAGGGGGCCCTCAGAATTTTGGAAATGGCC
CTGGTAGCTTAGCGGTCCCCGGGGTTTGAAGTGGCCCTCCTGGTCTTGAAGTGGCCCTGGGCATTGGGTG
GGCCACCAGCTTTTGGGCTGGCCCCGGCCCCGGCCCCGGCCCTGGCCCAATCCATATTGGTGGTCCCCCTGGCT
TTGCATCTAGTTCTGGAAGAACAGGACCGACAGTAATTAAGTGCAAAACATGCCCTTTACTGTGTCTATTGATG
AGATTTTAGATTCTTTTATGGCTATCAAGTAATCCCAGGCTCAGTGTGTTTAAAATACAATGAAAAAGGTATGC
CCACAGGTGAAGCCATGGTGGCCTTTGAGTCTCGGGATGAAGCCACAGCTGCTGTCATTGACTTAAATGACAGGC
CTATAGGTTCAAGAAAAGTAAACTTGTATTAGGGTAGCCATTACATCATTTTTATAGGGTAGATCTTCATAT
TGCTGTGATTAATGCATCCAGATTGTTTTCTAGTATTTCAGGTTAGAACCCTGTGGATTGTTTCAATTGCATAT
AGCTTGGTTTCCATAACATAGAGCATTGGTTGACTGTTTACAGAAGACTCACTCACAGGATAAACATTGCTGTA
TGTTACAGTAAAGCTATCTGGAGAGAACACATAAATGATTTTGGCATACCATTAGAGAAACCATTGTAAACTC
AAATGACCACATAAAGCTTATCAAGGAGTCTAGATTGGTTTTGTTTTATACCATATGGGATGAAGAAAATAGAAA
TGTCAGTAGAACTCATTGAGGGTGCTCTTGCCAGCTGCTGAAAATAGAAGTTGGCTACTCTCAGAAATTTGGTTTA
AAGCTGGACAGATTGCTTTGTTATAGGGTAAAGCTTTGTCTAAAGTCTCATTTTCTTTTAAATGAATAAAA
TTTCTGTATACAGATTATTGTATGTACCTTTATTGCTTCTTAAGGGTCTTGCTGTATAGACAGTCCCTGCTTCA
GAAGTTGCTGCTTTGTTTGTCTAATTGACTCATTTGTAATGAGCAGAACTGTTTTGTTGGTTTTTTCCCTAAA
TATAAAAGTCCACACTTCGTTTGTGCTATAACCTCAAACCTTTGATTTCTAATGTACACTTAAACTGTGTGGAA
TAAGACTTTTGCCATAAAAATAAATATGGAGTCTTTATCTACCAGAGCCTTTTTGGTTTGACCGCCACGATT
AGGTTAGTCAGTTTAAAAATTTTCATGTTGTTTGGATGGTATCGAAAACCAGAAACCCTTTTAATAATGTGTT
TAAGATACTTGATTTGAAGTCTTTTCATATGGACTAATTGTAGTATCAATTTCTCCTGTCCCGATTATGTGAA
ATTTTGGCCTTTAAACAAAGAGGGGGCCATTCTAAGAAAGTGTATATCTAGGTTTTTAAACTGAAGTTGAAA
TTATCTTTGTAGCAGTAGTAGTATAGAATAAAAGATCCGTATGCTGGTTCGTAGATTGATACGTGTAGTCTCTG
TTATTTGGAGGCTTTTTGGCATAGTTGTTTCGATCAGGAGCCTGTTTACTAAAAGTCTTCATACAGAGTACAAGTG
CAGCCGCCAGAGGAGAAAATTGAGATTCCTTGACCCTTCATACTCTTTTCTTGGTATTTCAGGACACTAAGGCAG
GAGGACCACATGAGTTCTGGTTGGTAAGTGTCTTGTATGAAAACACTTGCTTACAAGGCTCTAATTATGATT
TCCCTAGTCAGTGTCTGAAGATGTGTACATTATATTATAACAATACGGAAGGGGAGATAGGTGAGATGATAT

3212/5332
FIGURE 2813B

GAAAAACAAATTTTCTCACTGTCATAAAAGGCTCTAATTATGGTTACTTTCCTTGTGATGAAAAACTTGGCCTTA
CAGGGCTCTAGTTATGGTTACTTTCCTAGTCAATGCTCTGAAAATGTGTCACATTATAACAATACAGAAGGAG
AGATAGATGAGAGATCATGAAAACCAATTTTATCTTTTACATGGCCCCTTTGTCTTCGTTTGAAACATCCCCAA
CATTTCTACAAATCAGCGTAGTTACAAAGGGGTCAGTCTTTTAAAAATAAGTATTTCTATTAACTATATATAT
ATACAGTGCCTTTTTGGTGTGTGAGTCAGTGGAACTGAAATACAGCGGTTGTGTAATTTAAGAGTGGCAACA
GTTTCATTTGATAAGATTTGAAAAGGCTTTTTATCACTACAATCTTAGAGGATTGACAGTACAGGATTTTTGTTT
AAGAGAAGGATTGTTTAGACTCAAGAGGTGACTATGTTGTGGGTCTTTGATAATTCATGAATACAGATTTGCTT
TGACCGATCACTAGATACTGCCTCCTCAATTTCAAAAGCAATATAACGTTTGTATATGCTGTTAATTTAAGTTA
ATGTTAAGTAATCATTCTCATTCCAAGACAATGCAAAAACTTCAGCACTGCTTGAGAGTTGTATTTAGCCA
CAGATATTTTCTCCATTGGAAAAGCTATTTTCATTTTAGAAAAATGGGTTGTTTGAAGATGAAAGTCTTTTATCTT
TTTTACAAATTTATTTGGTTATATGTTTCGTACATTCTTATTAAATATTTACACACTTTATTGCACTACTTTG
TTATTTCTACATCTTAGATAAATGCTGAAAAGGAAAACGATTTTCATTGTTTCATCTAATTAATAAATAAAAGAG
CGGTTTGTGTAGAAATGGAGAGAACTATGTTTATATGAATCACAACAGTGCTCGTTGTGGACTGTAATTAAT
GCTTTGCCCTCTGGAACCTG

3213/5332
FIGURE 2814

GAGCCTGGGGCCAGGACTGCAGCGGCTTCGGAAGGTGGGCTCTGCCAGCGGGACC**ATG**CTGCTCCGAGCCGCTT
GGAGGCGGGCGGCAGTGGCGGTGACAGCGGCTCCAGGGCCGAAGCCCGCGGCGCCCACTCGGGGGCTGCGCCTGC
GCGTTGGAGACCGTGCTCCTCAGTCTGCGGTTCCCGCAGATACAGCCGCTGCCCCGGAGGTGGGGCCAGTGCTGC
GACCTCTCTATATGGATGTGCAAGCTACAACCTCCTCTGGACCCCCGGGTGCTTGATGCCATGCTCCCTTACCTAA
TCAACTACTATGGGAACCCACACTCCCGGACACATGCTTATGGCTGGGAGAGTGAGGCAGCCATGGAAACGTGCTC
GTCAGCAAGTAGCATCTCTGATTGGAGCTGATCCTCGTGAGATCATTCTTACTAGTGGTGCTACTGAATCCAACA
ACATAGCAATTAAGGGGGTGGCCCGATTCTACAGGTCACGGAAGCACTTGATCACCACCCAGACAGAACA
AATGTGTCTTGGACTCCTGCGGTTCACTGGAAGCTGAGGGCTTTCAGGTACCTACCTCCAGTGCAGAAGAGTG
GGATCATTGACCTAAAGGAAGTAGAGGCTGCTATCCAGCCAGATACTAGCCTGGTGTCAGTCATGACTGTGAACA
ATGAGATTGGAGTGAAGCAGCCTATTGCAGAAATAGGGCGGATTTCAGTTCAGAAAGGTATATTTCCATACTG
ATGCAGCCCAGGCTGTTGGAAAAATCCCACTTGATGTCAATGACATGAAAATTGATCTCATGAGCATTAGTGGTC
ACAAAATCTACGGTCCCAAAGGGGTTGGTGCCATCTACATCCGTCGCCGGCCCCGTGTGCGTGTGGAGGCCCTGC
AGAGTGGAGGGGGGAGGAGCGGGGTATGCGGTCTGGGACAGTGCCACACCCTTAGTGGTGGGGCTGGGGGCTG
CGTGTGAGGTGGCACAGCAAGAGATGGAGTATGACCACAAGCGAATCTCAAAGTTGTGAGAGCGGCTGATACAGA
ATATAATGAAGAGCCTTCCAGATGTGGTGATGAATGGGACCCTAAGCACCATTATCCCGGCTGTATCAACCTCT
CCTTTGCATATGTGAAGGGGAAAGTCTGCTGATGGCACTGAAGGACGTTGCCTTATCCTCAGGGAGTGCCCTGCA
CCTCTGCATCCCTGGAGCCCTCTTATGTGCTTAGAGCAATTGGCACTGATGAGGATTTAGCGCACTCTTCTATCA
GGTTTGAATTGGCCGCTTCACTACAGAGGAGGAAGTGGACTACACAGTGGAGAAATGCATTACAGCATGTGAAGC
GTCTTCGAGAAATGAGCCCTCTCTGGGAGATGGTTCAGGATGGCATTGACCTCAAGAGCATCAAGTGGACCCAAC
ACTAGAAAGAAATAGGGCCCTGACTTTGTGCTGGTCTGGCCCTCCTGCCTCACCAACCCGTGCACAACCAGACACC
TTGTTACACCTAGTGGATGCTCTAGATTGGTATAGACCAGTTGACTTCAGCATCAGTCCACCTCTATGACAGAAA
CACAAGAAAAGTGTCTTTCCCTAGCTTCAGTTCCTTGGGTGTGGAGCACTCCCCATTTCTTCTCGGGTCTTAAAG
TGTGTGGACATTTTCATCCCGAAGCCATAGAGACATTTGCTGTCTATTTGCTGCTGGGCACATCTGTGCTCTTGG
TGAGGAGAGCAAGAGGAACCAGAAGAAGTCTCTTTGGTCAGGGACCATGATGCTCTACATGGACATTGAGTCTT
CGTCTTCTGCTGCTGCTCGGCTGGACAGCTTCTTTAACAGCAAGCATAATCCACTTCAATGTAATATTTCTGT
AGCTCCAAAGGCTATCTCTCATATTGACTGCAGACAGACTGAATGGACAGTTTCTTAGAGGGCTTGTCTCCTTT
CTACCCTTGCTCTCTTTCCCTTTGACCTAATGGAGCTAGAAATATGTCTGTGACTCCACCAGTTATTCTAA
TAATTTGTTTTCTTGAAAATTGTTAATTTCAAGACTGGAGAAATAAACTCACCTTCTATTTACTCTGTGACTTTA
TGAGAGGTTGAGGGAAGTGGAACTGTACTTGGGAATTGTGGAGAAGACCGCCACTCCATCTGATTTGCATAA
ATGACTCAGTGGGCTTTTGTATCTCTTCATTTAAGAATTATTTGAATGCCTGCCAGGAGCCAGATTTGTTCTGGG
TATTAGGAATACACTGGTTAACAGGACCAAAAAAGACCCCTGCCCTCACTGAGTTTTAAATTTTAGTGGAGAGATG
GAAAATAATTAAACAAATAACAATGTTATAGATTGTG

3214/5332
FIGURE 2815

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCCTGAG
CCCTTGGGCCCCTTCCCAGCCTACCGCTTCCGTCCCCGCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTCAT
GGCCATTGGGATGGGCATCCGATGCTAAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAGAAAGTCTTTGAGT

3215/5332
FIGURE 2816

CGGGCTGGGCGGTTCCGCGGCCTGGGCCTAGGGGCTTAACAGTAGCAACAGAAGCGGCGGCGGGCAGCAGCAG
CAGCAGCAGCAGCAATCTCTTCCCGAACACGAGCACCACAGGCGCCCGAAGGCCGGAACAGGCGTTTAGAGAAAA
TGGCCAGACGATATTGATATTGAAGCAATGCTTGAGGCTCCTTACAAGAAGGATGAGAACAAGTTGAGCAGTGCCA
ACGGCCATGAAGAACGTAGCAAAAAGAGGAAAAAAGCAAGAGCAGAAGTCGTAGTCATGAACGAAAAGAGAAGCA
AAAGTAAGGAACGGAAGCGAAGTAGAGACAGAGAAAGGAAAAAGAGCAAAAAGCCGTGAAAGAAAGCGAAGTAGAA
GCAAAGAGAGGCGACGGAGCCGCTCAAGAAGTCGAGATCGAAGATTTAGAGGCCGCTACAGAAGTCCTTACTCCG
GACCAAAATTTAACAGTGCCATCCGAGGAAAGATTGGGTTGCCTCATAGCATCAAATTAAGCAGACGACGTTCCC
GAAGCAAAAGTCCATTTCAGAAAAGACAAGAGCCCTGTGAGAGAACCTATTGATAATTTAACTCCTGAGGAAAGAG
ATGCAAGGACAGTCTTCTGTATGCAGCTGGCGGCAAGAATTCGACCAAGGGATTGGAAGAGTTTTTCTCTACAG
TAGGAAAGGTTTCGAGATGTGAGGATGATTTCTGACAGAAATTCAAGACGTTCCAAAGGAATTGCTTATGTGGAGT
TCGTCGATGTTAGCTCAGTGCCCTTAGCAATAGGATTAAGTGGCCAACGAGTTTAGGCGTGCCAATCATAGTAC
AGGCATCACAGGCAGAAAAAACAGAGCTGCAGCAATGGCAAACAATTTACAAAAGGGAAGTGCTGGACCTATGA
GGCTTTATGTGGGCTCATTACACTTCAACATAACTGAAGATATGCTTCGTGGGATCTTTGAGCCTTTTGAAGAA
TTGAAAGTATCCAGCTGATGATGGACAGTGAACTGGTCGATCCAAGGGATATGGATTTATTACATTTCTGACT
CAGAATGTGCCAAAAGGCTTTGGAACAACCTTAATGGATTTGAACTAGCAGGAAGACCAATGAAAGTTGGTCATG
TTACTGAACGTACTGATGCTTCGAGTGCTAGTTTCTTTTGGACAGTGATGAACTGGAAAGGACTGGAATTGATT
TGGGAACAACCTGGTCGTCTTCAGTTAATGGCAAGACTTGCAGAGGGTACAGGTTTGCAGATTCGCCCAGCAGCAC
AGCAAGCTCTACAGATGAGTGGCTCTTTGGCATTGTTGGTGCTGTGGCAGATTTGCAAACAAGACTTTCCACAGCAGA
CTGAAGCTTCAGCTTTAGCTGCAGCTGCCTCTGTTACAGCCACTTGCAACACAATGTTTCCAACCTCTAACATGT
TTAACCTCAAACAGAAGAAGAAGTTGGATGGGATACCGAGATTAAGGATGATGTGATTGAAGAATGTAATAAAC
ATGGAGGAGTTATTCATATTTATGTTGACAAAAATTCAGCTCAGGGCAATGTGTATGTGAAGTGCCCATCAATTG
CTGCAGCTATTGCTGCTGTCAATGCATTGCATGGCAGGTGGTTTGGTGGTAAATGATAACAGCAGCATATGTAC
CTCTTCCAACCTACCACAACCTGTTTCTGATTCTATGACAGCAACACAGCTACTGGTTCCAAGTAGACGAT**TGAA**
GGAAGATATAGTCCCTTATGTATATAGCTTTTTTCTTTCTTGAGAATTCATCTTGAGTTATCTTTTATTTAGAT
AAAAATAAAGAGGCAAGGATCTACTGTCAATTTGTATGCAATTTCTGTACCTTGAAAAATAAAAAATGTTAACA
GGAATGCAGTGTGCTCATTCTCCCTAAATAGTAAATCCCACTGTATACAAAACCTGTTCTCTTGTCTGCCTTTTA
AAATGTTTCACTGTAGAAAATTAATGAACTATAGGAATAGCTCTAGGAGAACAAATGTGCTTTCTGTAAAAAGGCAG
ACCAGGGATGTAATGTTTTTAATGTTTCAGAAGCCTAACTTTTTACACAGTGGTTACATTTACATTTCACTAAT
GTTGATATTTGGCTGATGGTTGAGCAGTTTCTGAAATACACATTTAGTGTATGGAATACAAGACAGCTAAAGGG
CTGTTTGGTTAGCATCTCATCTTGCAATCTGATCAATTGGCAAGAAAGGGAGATTTCAAATTTATATTTCTTGAT
GGTATCTTTTCAATTAATGTATCTGTAAAAGTTTCTTTGTAAATACTATGTGTCTGGTGTGTCTTAAATTTCCA
AACAAAATGATCCCTGCATTTCTGAAGATGTTTAAACGTGAGAGTCTGGTAGGCAAAGCAGTCTGAGAAAGAAA
TAGGAAATGCAGAAATAGGTTTTGCTGGTTGCATATAATCTTTGCTCTTTTAAAGCTCTGTGAGCTCTGAAATA
TATTTTTGGGTACTTCAGTGTGTTTGACAAGACAGCTTGATATTTCTATCAACAAATGACTTTCATATTGCAA
CAATCTTTGTAAAGAACCACTCAATAAAAAGTCTCTTAAAAAGGCC

3216/5332
FIGURE 2817

ATGAAAAGAGTCAAGAGATTCCCTTGAGAAGAGAGAACCAAACTCAATGAAAATATTAAAAATGCAATGCTGATT
AAAGGGGGAAATGCAAACGCAACAGTGACACAAGTACTTAAAGATGTGTGTGCACTGAAAAACCATACGGTGTA
CTGTATAAAAAGAAAAATGTTACAAGACCTTTTGAGGATCAGACATCACTGGAATTACTTTCAAAGAAGTCAGAT
TGTTCTTTATTCATGTTTGGCTCCTATAATAAGAAGCGGCCAAATAATCTAGTAATAGGTCATATGTATGACTAC
CATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAAAGACATTAAGAACAGTAAATGTCCT
GAGGGAACAAAACCCATGCTAATATTTGCTGGTGATGATTTCAATGTAACAGAAGATTACAGAAGACTAAAAAGT
CTTCTTACTGATTTCTTCAGAGGCCCCACAGTATCAAATATCTGCCTGGCTGGATTAGAATATGTTCTGCACTTC
ACTGCACTGAATGGGAAGATTTACTTTTCAAGATATAAGTTGCTGTTGAAGAAATCTGGTTGCAGAACACCACGG
ATTGAATTGGAAGAGATAGGACCTCATTGAATCTGGTTCTGAGGAGGACACACCTGGCATCCGATGACCTTTAT
ACATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAAAATATCTCCAATGATACTTTTGGTACA
ACTTATGGAAGGATTCATATGTAG

3217/5332
FIGURE 2818A

GAGAAATAGGGAGATGCAGGAAGTGGGGGCCCATGGGGCCCCCAAGAAGCGGACTCTCCAAGGGGTACCCCCACC
CCGCTACCTTCCCCACGGACGGGCCCCCTCCTGGAGCCATACCCCTCCTGTGAGGCCATTCCAGTGTCTTCTAGAA
AGACTCGCTTGCCAGGAGTGCCTTCTTTGTTGAAAAATGCCCTGAAGCGAAAAAGATGCAGGTTTATATGGAACCC
CCACCCCTCCCCCACTCTCCCACTCTGTTCTGTTCTGAATGTCTTCACGAGCGTGCATCAGGGCGCCTGGCTCCC
CCACCTCAGCCAGTGAGTCAGACACGGGTTTCGCAGCCATGTTTCCTGGCTCCGAGGACACGGGTGGCAGGCCCCG
TTGCAGCCCAGAGCCACTGGTCCCTACAGGGCGCCGCCACACCAGCAGGAAGGAGGATGGCTGTGTCCGGAGCCT
GGCGGGGAGGCGGCTCCCCAGTATGTGAGTGCAGGGATCTGCCAGAACCACCTGGCCCTCTGTAGGGCGTTTAA
CTGGAATACCCCTCACTGCCAAGTGGAGACTGGGCGGTGTGCCACATTGCCAGCCACCAGGAAAGCTTTTCTTTT
TCTTTTTTTTTTTTTTTTAAACACCAAGAGCACGTATAGCATGGGGGAAAGAACCTAAATGTCTCTCTGTCTGT
GAGCTGGTGAAAAACCCAGCATGAGAACGCAGTGTCAAGTGTGGGACTCCTTCTGCCCTGCAGTGGGTGTTACG
GGCGGTGTGCCCTGGCGAGCAAGCTTTGATTCTTGGTTCTTTGAGCTCGTTTCAGAGGCTGAGTCCCCACATCAG
CTTTAGTTCTTGGACTTCCCTGTATTAAGCAAGAATTAGGAGAATGGCTGTCCCTGCAGGCGCCTCCCGTAAATC
CTGAGCTCTCTGGCGCAATCTGAAACTTCTCTTCTGTTTCTTTGGCTGTATCAGCCGAACCAGGAGAGGCCTGG
GCTGCGACTAAGGAGAAAGAAATCGGGGGTTTCTGAGAGCAGATGGTGCCTTTGTGGGTGCAGGGCTTTGTGGA
AATTGTGAGCCTCTACGGGCAGAGTCCGGCATCCCTCCCAGACTGCCTGCTGTCAAACCACGGAGCAGCTGGA
GCCTGCCCTGTCCACGGCCCGTTTCCACCCGGGCATGTTCTGCTCTCTGACTTCGGCAGAGGCCCTGGTGGCC
TTCAGTTTCAGTTTCTCATCCAGGAAGGTAACCTTGGGCATTGGCAGTGGGTTCCTTATGGCTTGATCCAGAT
TAGAATTGATCTTTGTTTTCTCTTCCATAGTTAATAACATGCAAAATAATGAGAAGAATTTATTTTAAAGGTGAC
AGCTATACTGGTCCAACATCGCCTGCTTATTGTGAGGTACAGAAGTTTAACTTTCTTAATCCAGTTTTTCAA
ACTTCTCCCTGTAGACCGTAAGGATGAATTCCACAATAGGATCCTTTTTTAAATCGATTTTAAATTGTTGCCTAG
TCCTGCCAAGGTATTATGTGCATCTGTTATTTTTCCAATACATGTAAACAGTTGCAGCATGATGCTTTGTTTAA
TGCTCTGTTCTTAAGCTCGTTAGAGCCAGTTTTGAAACGTTTGGTCTTACCGTGAACGGAGGCTGGCTTGGCTTA
GCCACGCTGATGAGTAAGTGAGGGATGTCTCCATCTTGAGATCACCAGGCAAGAGAGTTGCCTGCACCAGGTAAG
AGGCCAAAGCCCTGGGGTAACAGTCCCCACCGCTACCCGAGGTAAACAATAAAAGCTATGTGGTTGAGCTCAG
GCCTCTCGTGCCTGGTGTGAGAGAAGGCAGAGCCACAGTAGGTGCACGGTGCAAGGCCCTGGGAGGGCACTGGC
CAGGGAAGGTGGTATAGATGGCCCTCAGATTGCGGGGCCCGAGCAGCTCCCCACTCTGCCCCGTCACCTTCCCT
GGCTCCAGCCTCATTCTCTCTTTAGTTTAACTATGCAAGAGAGGAGGTTGAGAGTGTCTGGCAGCTGGAGCTC
TTTTCTTGTCTTCTGCTGCCCTCCGATGGGGCCACCTGTGTGCGGGCAGCAGTGTCCATGTTTATGGAGATCAGA
GGTGTCCCCACTGTGTGGCTGGACTGTACTCTGTGCCCCGGGTAGCCAGGAGTCTCTCCCTCTCTCCCTGCCGC
CTGCCTGGTCTCATGGGCTCCTTACACACCCCTCCCTGTGGATCGCTGCCTGGGCCAGAGCAGGGGAACCTG
GAGTTTGTGAGTGAGCAGAGCAGGTTATGTGCAGACAGGGAAACGAGAACTTTGGACCTGGCTTTCTGAGTCCAG
GTGAGAGCTGTGTGGCCCCCGATGCCACTCTGCCCGCCGAGGGATGTGCCTGCTGAGCCTTTTCTTCCACGC
CGCTCTCACTGCCAGGCCAGCGGCTTCCGCTGAGACTCGCTGGAGAGGCGGCTCCCGTGTCCGTCCACCGAGCA
CTCAGATGGATGCTGATCACCAGGGCCGAGGGGGCTCCCAAGGACCCAGGCCCTGGGGAGGGTGGCTGTGGG
AGGCCAAGTCCACTGCCCGGAAGTCTTGTGAGCCCTAAGCCAGGGAAGCCTGGAGCGTGGCCTGGCGGGTCTGGG
TGGACACCGTCCCCACTCCGGACTCCCAGCACAGGGGAGGATACCTGAGCCTGTATGGCCCTGTAGCCCTGGGCA
GAGCTGGGCCGTGCTGTGTGTTCTGCCTGGCAGGTGCAGGTGTGCGCATCTGCAGGTGGAAGGAGGTGGGAATC
TTGGATTTTTTGTTTTTTTTTTGTTTTTTTTTTTTGGAGTGAAGTCTCGCTCTGACACCCAGGCTGGCGTGCAGT
GGTGTGATCTCGGCTCACTGCAAACTCCGCTTCTTGGGTTCAAGTGGTTCTCTGCCCCAGCCTCCCAAGTAGCT
GGGATTACAGGCATGCGCCACCACGCTCAGCTGATTTTTGTATTTTATAGTAGAGATGGGGTTTACCATGTTGGC
CAAGCTGGTCTCAAACTCCTGACCTCAAGTGATCTGCCCGCCTCGGCCTCCCAGAGTGTGGGATTACAGGCATG
AGCCAGTGCACCCGGCGGAATCTTGAATTTTTATAGACAGCACCTCAGTTTCTGACTCCAGCCGCACACCTCT
GCCTCTGCCAGCAGGGGTGGCCGACAGACAGGCCAGGGCCAGGTCCCTGCGTCCATCCCCCGGTAGGATGG
ACGTGAGCATCTTCTAGGGGACTTTTTTCAGTGTGCGACTCGTCTCTGTTAGGTGGTAGGAGCCAGTTTGTGT
GGCCTGTGCCACGCTCCACAGTGCCTGGCTGGGCTCTGTGTGTGGCCTGTGTCCCTGTCCCTGCAGGACCCAGC
AGGCATCGTGGCGTGACAGCTGTGTCCAAGCCACTGCCCGGCATCCCATCACCACAGGGTGCACGGTCTCTC
CTGCTGGGGGCTTTCTGTGCGATGTGTGTCTCTGCTGACTCTGCAGTTTGTCTCAGAGCAGAATGTTTCTGT
TCTCAGTGACAAAAGACACTGGTTTTCAATCGGCGTCTAAAACACGTTCTGCCTTTCATTGCAACACGGTGTG

3218/5332

FIGURE 2818B

TTCATTTGTTTAAACAGTTTAAATGAGTAAGTTTAGATGACTGGTCAATATCTTAAAAATGTATATTAGTAAGAA
GTTCTTCCTGGAATTTTTCTTTTCGATTCTGGCAGAATAAACAGGTGTTTTTAGTTTTCCCACTGTCTGAGCCAAG
CAGGACCCTGTCCCAGAGCAAGAGATGTCCTTCCATCTCTGACCCTTGCCTGGGACAAGCTTTGATGGGGGC
CCCAGCTTCAAGGCTGTGGTGGGAACAGCACCCCAATGCCAGCCTCTCCTTTCTTCCCATCCACCAGTATACT
GCGGGGCCATTTCTGGTCTTTGTCCAACAGGAAACCCATTTCTGGTGGGATATGCCTTCCAGTGCCACAGGGCCA
CTCACCCCATGCATCTCTGTCTGCCCCTCAGTGCTGGGACGGACAGCAAGGGCAAGCCAGTGTCTGGCGGATA
GGTGGGTGGGAACAGAGAGGGGAGAATGCCGTCTAAGCTTCTGCTTGGGGATCCCCACACGACCTGGGTACTG
CCTGGGAAACCTGTCCTAAGTAAACTATGGACCTCGCCTCGCCCACCGGCTGCGAAGCCAGCATCTCCGTGAA
GGTGGATGGAAGCGCCTTTGTCTCATTTTGTAGCTGCAAGCTGGGTGACGGCTCTGAAGCCCTCGAGTGACTTT
CTAACCCAAGACCCAGCCCCCTGGCAGGAGGAGGGTGGGTGACGGGCTGGTGGGACAAAAGAGGCCCTCAGCAGGC
CTGGAAGACCCCTCCAGTACATCCCACAGCGTGTGAGCAGCTGGGAGAACCTGTGTCAAGCTCGAGCCGTCTATA
GGTCCCCATGAGGTGTCTGAAGCCCTTCTTGGTGGTGGGAGGAGAGGTGCTGACGTTCTGGAGCATGGACGTG
AGTCTCAGCTGGCTCCGCGTGGGCCCTTGGAGGGTGCCAGGTGTGTGGTGACCTTCTGGATGCCTTTAACTTCA
TGGCTGCGTCATTCTGATTTAGAACTTTAACCGAGCTTCATCTAGTGATTGCAAACTGGACCAATGGGAGGA
CGGCGGCGCAGCCCGCTCCCTCCGTGGAATGGAGCTCAGCTCTTCGGAGGCATCAAAGCACCTGTCGCTCCGTG
GTCCCCCTGCTGAGGGAGTGCGGCCTCTGCAAGGTTCTGGGGTGGCTTCGTTTGCCTGGAGTGGCCGGCCCTGCT
TGTGCCATGTGGATGTTTGTGAGCCTCGGTCTACAGCACTGTGTAGGCTGCATCTGTTTTCGTGCTGGTCTGTT
GACTTGTATGATATCCACAAATAAATATTTTCATGGC

3219/5332
FIGURE 2819

CCCGCGCGTACGTGACCCAGCGCCTACTTGGGCTGAGGAGCCGCCGCGTCCCCTCGCCGAGTCCCCTCGCCAG
ATTCCCTCCGTGCGCGCCAAGATGATGTGCGGGGCGCCCTCCGCCACGCAGCCGGCCACCGCCGAGACCCAGCAC
ATCGCCGACCAGGTGAGGTCCCAGCTTGAAGAGAAAGAAAACAAGAAGTCCCTGTGTTTAAGGCCGTGTCATT
AAGAGCCAGGTGGTCGCGGGGACAACTACTTCATCAAGGTGCACGTCGGCGACGAGGACTTCGTACACCTGCGA
GTGTTCCAATCTCTCCCTCATGAAAACAAGCCCTTGACCTTATCTAACTACCAGACCAACAAAGCCAAGCATGAT
GAGCTGACCTATTTCTGATCCTGACTTTGGACAAGGCCCTTCAGCCAGAAGACTGACAAAGTCATCCTCCGTCTA
CCAGAGCGTGCACTTGTGATCCTAAAATAAGCTTCATCTCCGGGCTGTGCCCCCTTGGGGTGGAAGGGGCAGGATT
CTGCAGCTGCTTTTGCAATTTCTCTTCTAAATTTTCATTGTGTTGATTCTTTCTTCCCAATAGGTGATCTTAAT
TACTTTCAGAATATTTTCAAAATAGATATATTTTAAATCCTTAC

3220/5332
FIGURE 2820

CGCTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGT**CATG**GTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTT
CCAGCTCGTTTATGCTTTTCAGACCACGGAGGCGCAGCACCTGTTCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAAATTCTACATGCTCATGCGGATGGTCCCTGAACGAGTCCTT
GAAGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCACAGCAGCCAGGCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATTGCTGCCCGGACCAA
GGATTCTTGGTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGA
GCGTGGAGACGCGTGTCCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCGCTTCTCCAGTTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTGAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAGAAGACGAAGAAGCAGAAGCCTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGAGGGGCCGACCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAG**TGAT**GTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCCG
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAA
GGCGGCACTGGAGAGATGGGCCCATTATTAGGGGCCAGCATCCAGGAACTGGACCTTTCCCAAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGTCCTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTTCATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTCACAGAACTGCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGCAGGCTGCGCACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCTGCCCTCTCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCAGGGCTTTCCACC
TGCATGGAACAAGGCCTGTCTGCCGCCAGCGTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCGCATCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTTAGGCTGTGGCTGGCCTTGTGCAGACCTGGACTGCATCCGGTTC
CCCAAAGCCCTGTGTCATTTCAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCAAAGGAACCTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAACTCTGTTTC

3221/5332
FIGURE 2821

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGCTGGCT
TGTCCAGCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCCTCAG
CGAGGGGCGGTGCACCCGCTCCTGAGCAGCGCCATGGGCCTGCTGGCCTTCCTGAAGACCCAGTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCCTCAACTGCCGCCTCGCCTACTCACTCTGGAGCCAACTGGTCATGCTG
CTGGAGTGGTGGTCCTGCACGGAGTGACACTGTTACGGACACAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCCTCAACCACAACCTTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTCGAAGGGCTGAGGCGCCTGTCGGAC
TACCCCGAGTACATGTGGTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACCGCGTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCCTCCGGGGGACAGTCGCAGCTGTCTATGATGTAACCCTGAACCTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCGGAGGGCCGTGGACCCTCCTGAACTTCCTGTCTGG
GCCACCATTCCTGTCTCCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCCTGATCCTG
ACTTTCCTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAAGGC
TCCAGCTACGGAACCAAGAGTTTAAGAAAAAGGAATAAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTCTTATTAAGTG
GTGACTAATATTAACAAAACCTTGAGCCAAGAGTAAAGAATTCAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGAGAGGCCTCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGAGCCTTTGGCTGCTTCTCTCCTTAAACTTAGATCAAATTTT

3222/5332
FIGURE 2822

GTTATGTCCAAATTCAGGCTGAGTGCTCAGGCTGAAGCAACTCTGTAGCCACAGTCCGTGCTGGCCACTGTGCG
GGTGAGGCACATTCTAGGCCTGGCATCGCTGATGCCCTCTGCACCCAGTCCTTGAGCCAGGCCGAGGACAGGAAG
GGCATTGCTGGCCTGTAGCTCCTGTTACCCACCCAGAGCCAGGCGCCACACTGGAGGCTCCCAGGCGGGAGGGCC
CAGGCCCACCCACGGGCGTCTGGCCGGTCAAGCTCCCAGCCTGGGCGGTGGTCTCCTGGGGACGCCGCTGGCCTC
CCAGCTTAGGCCCAGGTGCCAGGTGTCATGGGGTCTCCTGCCCATCTTCCCAAGGATGCCATTGCTGTCTTCATC
GTCTTCCCCCGTGTGAGACACTGGTTGTCTGGTACTCGGCGACAGTGTAACAGACGCGCACCCCTATGTGAGGTGC
TTTAAGGTCCCTGTCTCAGGAAGCGCAGTCTGGTGGAAGAGATGAGCGCTGAACAAATCACTAAATACACAAA
ACAACAATGTAAGCAGCACTTTCTTGTGTAACAAAAAAGCAGTCCTGTGATGAATTTTGAGTCTCTC
TGCTTGCTGTCCCGACTCCCTTTCGCGCACCGTGGCATGAGAATCTTCTCACGCTGTTGTTGCGGTATTG
CTGAGCATTGATGTTGATTTGAAGGAAAAGCCGTGGTTGGACCCAGCTGTGTGTTTCACTCACGTGCAATTGAGT
AGCTGTTGCCAGGCTGTCCATGCCTGTTGTGACTACCGGTTGGGGTCAGATTGGGGTGAAGAATGAGTAAGTTT
CTGCATGCTTTGTCTCTACCTGAGACACTTCTACAACAAGCCAAGTATAATCTCTCCAGCCCTGCAGATTTTAC
CTGACTTGTTCAGCCCCATGCGTAGACTCCCGCTGCAGGCCTCTGGCCTGTGGCTCACTGCATGCAGCCCTGGC
GTGCAATACTAGTGCTCCACGGCGCATGTGCTTCTAGCCCTTGCACTGCACCTAGGCTCAGGGTTCAAACGGCC
AGCCCGAAAAGCCTGCCTGCCTTCTTCTGGAACAGCACGTCCCCGGCCGTGTGCCTGCCCCCTTCTCTACTGA
GCTAGTCCCAACCAAAGGCAAGCCCCCTCGGGCCTCGGGGGATGGGGCCGCCACACCCCTGACTCCGCCCTG
GCTCTGCCCCATACCCCTGCCGTGGGGCCGACCTGGGGGATGCAGACATCCGGCTCCGTATTCTGCTATCGGG
GCCAGGATGCAAAAACAATTTTTCGTAAAGATGTCACACTGATCTGCTGGAGTGGGGTGGACACATGAATTCA
GTTTTATCATGAACACTCGCCACTGGCTGCTTGTTAATTCAGGGATAATGGTGGCATTCTTACAACTGCTCGGG
AAATAGAATGACGGGAACACTTTTAGGGAGCCCAGGAAGTTACCAGGGACATTGGTGTGCGCGGCCAGGCAACA
GCAGCGTACGCTTTTCAAAGATCATTGAGTTGTCTTAGAATTTGAAGCTGTGTAATGACAATGTCACCTGGAGTT
CGTCTCCATTTCTTAACTTTTTGTGACAAAGTATTTGGACAGAAGTCGAAGTGTGAATGAGATACTGAAATGCA
CTAAATTGTATTACATTAACTGGAGTTACTTGATACAATG

3223/5332
FIGURE 2823A

GCGGCGCAACCGGCTCCGGAGCTGCCTGGCGCGGCCGGGCGGGCGCGCGCTCAGGCTCGGGCTCCGGCTGGGC
CCGGCGCGGCTCGGGGCTGCCATGGGGCGCGGGGGCGGGCGCGGTGACGCCGACGCCC**ATGG**ACGCCCTCTG
AGGAGCCGCTGCCCGCGGTGATCTACACCATGGAGAACAAGCCCATCGTCACCTGTGCTGGAGATCAGAATTTAT
TTACCTCTGTTTATCCAACGCTCTCTCAGCAGCTTCCAAGAGAACCAATGGAATGGAGAAGGTCTATGGCCGGG
CTCCGAAGATGATTACCTAGAGTCTAACTTTGTTCAATTCAAAGAGGAGCTGCTGCCCAAAGAAGGAAACAAAG
CTCTGCTCACGTTTCCCTTCCATATTACTGGACAGAGTGCTGTGATACCGAAGTGATATAAGTACAGTAA
AAGATGACCTCACCAAGTGGCAGAATGTCTGAAGGCTCATAGCTCTGTGGACTGGTTAATAGTGATAGTTGAAA
ATGATGCCAAGAAAAAAACAAAACCAACATCCTTCCCCGAACCTCTATTGTGGACAAAATAAGAAATGATTTTT
GTAATAAACAGAGTGACAGGTGTGTTGTGCTCTCCGACCCCTGAAGGACTCTTCTCGAACTCAGGAATCCTGGA
ATGCCTTCTGACCAAACTCAGGACATTGCTTCTTATGCTTTTACCAAAAACCTAGGCAAGTTTGAGGATGACA
TGAGAACCTTGAGGGAGAAGAGGACTGAGCCAGGCTGGAGCTTTTGTGAATATTTTCATGGTTCAGGAGGAGCTTG
CCTTTGTTTTCGAGATGCTGCAGCAGTTCGAGGACGCCCTGGTGCAGTACGACGAAGTGGACGCCCTCTTCTCTC
AGTATGTGGTCAACTTCGGGGCGGGGATGGTGCCAAGTGGCTGACTTTTTTCTGCCAGCCAGTGAAGAGCTGGA
ACGGATTGATCTCCGAAAACCCATAGATATGGAGAAGCGGAATCGATCCAGAGGCGAGAAGCCACCCTGTTAG
ATCTGCGCAGTTACCTGTTCTCTCGCCAGTGCACCTTGCTGCTTCTTCTGAGAGGCCGTGGGAGGTGGCCAGC
GCGCCCTAGAGCTGCTGCACAAGTGCCTGCAGGAAGTGAAGCTCTTAGAAGTCTCTGTCCACCTGGTGTCTGG
ACTGCTGGGTGTTTCTGAGCTGTCTGGAGGTGTTGCAGAGGATAGAAGGCTGCTGTGACCGGGCACAGATCGACT
CAAACATTGCCACACTGTGGGGCTATGGAGCTATGCCACAGAAAAGTTAAAGTCTTGGGCTATCTATGTGGAC
TTGTGTGAGAGAAAGGACCTAACTCAGAAGATCTCAACAGGACAGTTGACCTTTTGGCAGGTTTGGGAGCTGAGC
GACCAGAAACAGCCAACACAGCTCAGAGTCCTTATAAGAACTGAAAGAAGCATTATCGTCAGTGAAGCTTTTG
AAAAACACTACTTAGATTTGTCCCATGCCACCATTTGAAATGTATACAAGCATTGGGAGGATTCGATCTGCTAAGT
TTGTTGGAAAAGATCTGGCAGAGTTTACATGAGGAAAAAGGCTCCACAAAAGGCAGAAATCTATCTTCAAGGAG
CACTGAAAAACTACCTGGCTGAGGGCTGGGCACCTCCCCATCACACACAAGGAAGCAGCTGGCCGAATGTCAAA
AGCACCTTGGACAAATTGAAAACCTACCTGCAGACCAGCAGCTCTTAGCCAGTGACCACCACCTCACTGAAGAGG
AGCGCAAGCACTTCTGCCAGGAGATACTTGACTTTGCCAGCCAGCCGTCAGACAGCCAGGTCTATAAGATAGTGC
TACCCATGCATTCCCTTTGCACAAGTGCAGATCTCCATTTTGATCCCTCCAATGCCGTGGTCCACGTGGCGCGCG
TTTTGTGCGTTGAGATAACCATGTACAGCCAGATGCCTGTGCTGTTCACGTGGAGCAGATTGTGGTCAATGTCC
ACTTCAGCATTGAGAAAAACAGCTACCGGAAGACTGCGGAGTGGCTTACCAAGCACAGACGTCCAATGGGATCA
TTAACTTTCCACCCGAGACCGCACCTTTCCCTGTATCCCAAAACAGTTTGCCCGCGCTGGAGTTGTATGAAATGT
TTGAGAGAAGCCCATCTGATAACTCCTTGAACACGACTGGGATTATCTGCAGAAACGTCCACATGCTCCTGAGAA
GGCAGGAGAGCAGCTCCTCTCTAGAGATGCCCTCAGGGGTGGCTCTGGAGGAGGGTGGCCACGTGCTGAGGTGCA
GCCACGTGACCCTGGAACCAAGGGGCCAACCAGATAACATTACAGGACTCAGGCCAAGGAACCTGGAACGTATACAC
TCAGGCAGCTGTGCGCCTCGGTGGGCTCCGTGTGGTTGCTCCTCCCTCACATCTACCCCATTTGTGCAGTACGACG
TGTACTCACAGGAGCCCCAGCTGCACGTGGAGCCGCTGGCTGATAGCCTTCTGGCAGGCATTCTCAGAGAGTCA
AGTTCACTGTCACTACCGGCCATTATACGATAAAGAATGGAGACAGCCTGCAGCTTAGCAATGCCGAAGCCATGC
TCATCCTGTGCCAGGCGGAGAGCAGGGCTGTGGTCTACTCCAACACGAGAGAACAGTCTTCTGAGGCCGCGCTCC
GGATTCACTCCTCCGACAAGGTACAGAGCATCAGTCTGCCTGTTGCGCCTGCGTACCACGTGATCGAATTTGAAC
TGGAAGTTCTCTTTACCTTCAGCCCCAGCACTCGGAGGGGAGAGTGACATGCTGGGGATGGCAGAGCCCCACA
GGAAGCATAAGGACAAACAGAGAACTGGCCGCTGCATGGTTACCACAGACCACAAAGTGTCGATTGACTGCCCGT
GGTCCATCTACTCCACAGTCATCGCACTGACCTTCAGCGTACCCTTCAGGACCACACAGCCCTCCTGTCTCAG
GAACACGGAAAATATGTTCAAGTTTGTGTCCAGAATTTGTGAGAATTTGACTTTTTCAGCTGTGAGATAGTTATCTTG
TAGATACCGGTGATAGTACCGACCTGCAACTAGTACCCTGAACACGCAGTCCCAGCAGCCCATCTACAGCAAGC
AGTCGGTGTCTTCTGCTGCGGAAGTCAAGTGGACAGAAGAGCCTCCCCCTTCTCTGCATTGCCGGTTCTCTGTTG
GATTTTCCCCAGCTTCTGAGGAACAGCTGTCTATCTCCTTAAAGCCGTATACTTATGAATTTAAAGTGGAATTT
TTTTTACATTATACAACGTGAAGGCTGAGATCTTTCCCCCTTCGGGAATGGAGTATTGCAGAACAGGCTCCCTCT
GCTCCCTGGAGGTTTTGATCACGAGGCTCTCAGACCTCTTGGAGGTGGATAAAGATGAAGCACTGACTGAATCTG
ATGAGCATTTTTTCGACAAAGCTTATGTATGAAGTTGTGACAACAGTAGCAACTGGGCAGTGTGTGGGAAAAGCT
GCGGTGTCATCTCCATGCCAGTGGCTGCTCGGGCCACTCACAGGGTCCACATGGAAGTGATGCCGCTCTTCGCGC

3224/5332
FIGURE 2823B

GGTATCTCCCCCTGCCCCGACGTCAGGCTGTTCAAGTACCTCCCCATCATTCTGCACACTCCTCCCAACTGGACG
CTGACAGCTGGATAGAAAACGACAGCCTGTTCAGTAGACAAGCACGGGGACGACCAGCCGGACAGCAGCAGCCTCA
AGAGCAGGGGCAGCGTGCATTCCGGCCTGCAGCAGCGAGCACAAAGGCCTACCCATGCCCCGGCTGCAGGCACTGC
CGGCCGGCCAGGTCTTCAACTCCAGCTCGGGCACACAAGTCCTGGTCATCCCCAGCCAAGATGACCACGTCTTGG
AAGTCAGTGTAACATGACAACGCCAGGGTGAACACACGCCACTTCCCAGCTAGGAGTGCACCTTATGGGACTGTG
ACTGGACTCTTCCGTTCTGGCTCCAGCCAGACCTTCAGTGGTCCTGCCTGGCCGTGGGGACATCAGAGAGTGTCA
TCACGCAGCTGGCCAGCTGAGTTCTGTTGTTGTTTTTCATGCCGCTGTGATCTCAGATTCTGCTTTTCTCACCC
CGTCCCCATGCTGGTGTCCGACGCCGCTTACTCAGAGCCCTGGCCTCCCTCCCCCTACCTCACACGCTGCTCATG
AAAGTTTCCACCCACGCTGTCTCCACGGAACAGCCTCCGTCTGCTGGCTCTTCGTGGAAGGCCATTTGTCTTTCA
GGTAGACACTCAGCAGCCCTCACGGTCTTAGTGACGTGTGTGCCTTTCTGGTCACACAGCTGCCCAGTTTCTTGA
TCGGGGTGGATTTGTGTCCCTAAGGGGTAAAACAGCCGTTTACCGCAGATCCTCTCATTGTGCTTTTCTAGAAT
AACACCCCTTCTAGGGGAGGCGGGTGGGGGAGGGAGGGATCATAACCCCTTCTGTGCCTTGGGATGCCGGAGCTGG
GGGACCTGGAGGCCCATCAGCCGGAGCCACGTGAAAGGTACTGAAGAAAGCTGAGACCCGGCTGTGAGGAGCGCC
TCAGCGGTGAGGTGGTTTAGGGATAAATGTTTCTGGAACCTGTGGTCCCCATAATGTTGATAGAAATATCATAT
GCACTGGGAGTTAAATATATTTAATTTAATGATCATTATATATGTGGGGTTAATATGTTGTTTTCTGTCCCTT
TAAAGTCTTTACATGTAATTGTAGCTGTATAATCGTTATTTTTCTTTTGCATCTTAAGTCTTAGAAATTAAGATA
TTCCATCGTGAGGATGAGAGAGGTCCTCAGTGTGTTTTGGTCTGGTTGTAGGGAAGGACTCAAGTCCTGGAATG
TCCTCCACTGGTCTACTGAGTTGCAGTCACACTGTTCCAATGGATTATTTGCTTTTCGGTTGTAAATTTAATTGTA
CATATGGTTGATTTATTATTTTTAAAAATACAGACTAACTGATGTAATGTTTATGTATAAGTTGCACCAAAAATC
AAGGACAAAAATAAGTGTGTTTGTGTTTTACAGGTGTGAAAGTCACAGCTTGTAATAAGTGTGTATGTATTAA
CCTTTTCCAGTTCTCCAAAGCGATGT

CGCGACACAGTGCACGCGCGTGTATGAAGTTTCGCTTACCGGTTTTCAAAATTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTGACCTTA
AAAAACAACAAATCTGACACGCTGCCCTGGCCACTCGGTACAACGTCAAGTGCCTGGGGCTGTCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCTTCTCCCTGATGGCAGGAAGTTTGTGTGCACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCTTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCATGGGGGGACATAAGGATGCCATCGTGC
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGGCGCTGAAGCCCCCTGCGGGCTGGAAGACAGACCTGTTCGACGGGGAGGAGGAAG
AGGAGGAGGAGGAGGACAGGAGGGCGCAGAGGAGACCACTCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCAGGCTAGGCGCAAGTACTTCTCAATAAAGAAAGGGGATTTTAAACACCTGACAG
CTGCAGCATTTCATAAGAAGTCTCACTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACTCATCCACTCCCTGAGCATTTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTTCAAGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGACTGGCGGGG
ACGACGGCAAGGTCAAGGTGTGGAACACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCAGCCTTTG
ACCTTCACAGGTACCGAAACTTCCGCACCTTCACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGGCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGTCTGGCCA
GTGCCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTTCGCCCTGATGGTGCGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACGCGGTGCGAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCAGCGGCCAAGGGGAAGGCCCTTACCGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCTCTGGCGGAGGCACTGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGAGCGCCATGGAGGAATTTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTTCGCGATACCACTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCGCTGCTGGG
CGGCCACCACCACGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAGCTGGACA
CCAGCGTCACCCCGGGAGGGTGC GCGAGGCACTGCGCCAGCAGGACTTCACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCCAGGGGCGAGATTGAAGTGGTCACTCCT
CCCTTCTGAACTGTATGTGGAGAAAGTGTGAGGATTTTAGCTTCTCTCTTTGAAGTGTCTCGCACCTGGAAT
TCTACCTCCTCTGGA CTACAAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCAATTCAGTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGAAAACCTCTGTAGCTGGAAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTTAGAGCCAGCCGGTTGCAGCGTTGGATTGTGCGGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATCTGTCACTAGTGGTAGTGACTTGCTTTTCCCTG
TGACACATGTAGCCCATCAGGACAGCAGCGGACCGGCTACGCCAGGGCGGCACGCACCTGGCACCCTTGGCCCC
AGGAGCGGGGCGTGTGAACGGTGATGAATGTGAAAATGCGTCTCAGAGAGGTAATTCACATGAACCTTTGTATGA
GACTTATTATATCTTTAAACATAAAGTTTGATAAAGAACCTTAGGGATTAAAAAAAAGATGGAGTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

3226/5332
FIGURE 2825

TCCCGACGAGCAACGCGTTTGTAGAGGGGTGGGTGCGCACGCTCTGTCCCTGCGTGACCTTCCGACCCCGCTGTC
CTCACC~~CGCAAT~~GGCGGCTGTGAGGGTCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTACGTCCCTGTCC
CCCGGCGGTGCGGACGCTTCCAGCGCGCAGCCCTTCACCTCTCCGTGCCGCGCCCCGCGGCCAGGGTCGCGCTG
GTGCTGTCTGGATGCGGAGTCTACGATGGGACCGAGATCCACGAGGCCTCGCGCATCCTGGTGCACCTGAGCCGT
GGAGGGGCTGAAGTCCAGATCTTTGCTCCTGACGTCCCTCAGATGCACGTGATTGACCACACCAAGGGGCAGCCG
TCCGAAGGCGAGAGCAGGAATGTTTGAACGAGTCTGCGAGGATCGCCCGTGGCAAAATCACAGACCTGGCCAAC
CTCAGTGCAGCCAACCATGATGCTGCCATCTTTCCAGGAGGCTTTGGAGCGGCTAAAAACCTGAGCACGTTTGCC
GTGGACGGGAAAGATTGCAAGGTGAATAAAGAAGTGGAGCGTGTCTGAAGGAGTTCCACCAGGCCGGGAAGCCC
ATCGGCTTGTGCTGCATTGCACCTGTCCTCGCGGCCAAGGTGCTCAGAGGCGTCGAGGTGACTGTGGGCCACGAG
CAGGAGGAAGGTGGCAAGTGGCCTTATGCCGGGACCGCAGAGGCCATCAAGGCCCTGGGTGCCAAGCACTGCGTG
AAGGAAGTGGTCGAAGCTCACGTGGACCAGAAAAACAAGGTGGTCACGACCCAGCCTTCATGTGCGAGACGGCA
CTCCACTACATCCATGATGGGATCGGAGCCATGGTGAGGAAGGTGCTGGAACACTGGAAGTGA~~CG~~CGCATGG
ACGGGGCCAGCTAGGCGCCAGGACTTGGCCTCACCCCTCTGGCTGAGGAGCTGTCGGCTGCTTTCCATCCAGCTG
GGAGTCTGGCAGGCCCTTTTTTTTTTTCTTTGCCGAAACCTGCAGGCGTTCTCTCTAAGGAGGATGTGCTGC
AGTGCATGGGGATGTTTCTTCTGGGTGTGGCTGGGCTGCTCTCACATACAGAGGCCGAGGGGCCAATTTCGTTT
TCTGCCACAGGACTTGCCTCACTGTGTCCCAAAAACAAATCGCAGCCAGCTTTTCCAGAAATAGAAAAATCTGC
CGTCTGAGGTTTTATACTTCAGGTIAGTTAGTTTTTGAAGGAAGAACATTTTAGGTTTGCAAGCCTCCTGATC
AGGAAACCAGAAATACCACATTTATGGACCATGAAAGGTTGGTTCTTGACTCTGAAGGGACTTTTGAGTTAATCA
GCGTAAGGGGATTTCTAAAGCAGGCAATCCCTGTAGCCGCAGAGAATAAACGCCCTTCCAAAATGGCAACTTCCC
ACAGCCACATTTACAGACCTGCTGAGACTGCTGAGTGAGGAATGGCAGTGAGGTTCTTCAATTAGTCTCAGTTCT
CTTAATTTTCAGGAAGAAAGGGAAATTGCAGCCCTCAGCCCCCAGGATTGACCTCTGGGGAGTGATGGTAGCGT
TGGTGCCAGGCCGTGGGTTCAGGTGTGGCAGAAGCTTGAGATGCGTCCGAAGGGAAATAAAGTGTGTTGGCGTT
AG

3227/5332
FIGURE 2826

GCGACGCGGCGCAGGCGGCGGGAGTGCGAGCTGGGCCCGTGTTCGGCCGCCGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGTCGGGCGCGGGCAAGGCCATCGGCGTCTTGACCAGCGGCGGCGACGCGCAAGGTCCCTTGAC
AAGCCCACCAGGCCCCCTGTGAGATGGCTGTGACCTGGGCTGACCCGCCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGGCCCTGTGGTTGGACGGTGGCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGTGCTGCCAGAGGCGTGGCACCTCACCTCACACCTGCTCCTGTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTGAGAGTCTCTCTGTTGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCGCTGGGACAGACTGTTTCT
TTCACGTGACGTCTTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAG
TCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCTTTACCACCAGGGAGGGGC
GCCGGGACGCGCCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCGGCGGGGATGGCAGCCTTA
CAGGTGCCAACATCTTCCGACGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCGACCTACTCGCACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTCGGGCACCG
ACATGACCATCGGCACGGACTCGGCCCTCCACCGCATCATGGAGGTCATCGATGCCATCACCACCACTGCCAGA
GCCACCAGAGGACCTTCGTGTGGAAGTGATGGGCCGGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCCT
CAGGGGGCGACTGGCTGTTCATCCCCGAGGCTCCACCGAGGACGGCTGGGAGAACTTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCAGCTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGCTACGTGAAGGACCTGGTGGTTGAGAGGCTGGGCTTCGACACCCGTGTAAGTGTGCTGGGCC
ACGTGACGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGCTGTGGAAGCCACGCCCTGACACGCGCGCCTGCGTGGTCACCTCTCGGGGAACCAAGTCACTGCGGCTGCCCC
TCATGGAGTGGGTGCAGATGACCAAGGAAGTGAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACAACTGGAACATTTACAAGCTCCTCGCCACCAGAAGCCCCCAAGGAGAAGT
CTAATTTCTCCTCGCCATCTGAATGTGGGGCCCCGGCGCTGGCATGAATGCGGCGCGTGGCGGCTGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGACAGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAATCCGCATCTATGGTATTACGCCCCTGCTGGTGGTGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCAGCTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGG
GGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCCGACGCCGCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTCAGAGGGGCC
TGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTTCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTGAGACCCGATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCTACGTGTGAGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGGCCAGCCATGCCACGCCCCCTCCCCAGCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCCTCCCTCGGGCTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCCAGGGGACGTGGCGCTGTGCGGTGTTGGAG
GCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGATC
GGTCTCCGG

3228/5332
FIGURE 2827

CCGCGCAGTCGTCACCCGCCCGGGATCAGGAGGCCGGGGCGCCCGCGGTGCGGCCTGGGCGGCCGCC**ATGAAG**
CTGACGCGGAAGATGGTTCTGACCCGGGCCAAGGCCCTCGGAGCTGCACAGCGTGCGCAAGCTCAACTGCTGGGGC
AGCCGCCCTACAGATATCTCCATTTGCCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATC
TCCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTG
GCTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACC
AGCCCCACCGCTACCGCATGACCGTGCTGCGCACCTGCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACG
GAGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGCACAGGCCAC
GGCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGC
GAGGAGGAGGCAACCAGCGCGGCCAGGATGAACGTGGCCTGAAGCCGCTTCCCGGGGCCAGTTTCCTTCCCTC
TCAGCCAGGGATGCCTCGAGCAGCCACAGGGGCAGGAACGTCTGACTGCCATCCTGCTGCTGCTGCGGGAGCTG
GATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAG
GAGCAGCGCGAG**TGA**CCGCAGGACCTGAACGCCGTCCAGCCTCCACGGGGACCCAGCGTCTTCCCCAGCCCCC
GGGAGCTGGAGGGTGGCTGCCATGGCCGCAGCCCCGGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCG
AGGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGG
ACTCCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCT
AATAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCA
AGGGCCGTTTCTCCACAGAAAGAGGAGGTCTTACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGA
TTTCTGTTGGGCAAGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAG
GCAGCAGCCTCCCGCACCCATGGGAGAGAGTTTTGTTTTCTTGGCCGGGCTGGGCAGGTGCGCCTTCCTTTCTCT
CTCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTTCGCCCTGGGGTCCGG
GCCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCCCTGGAGCATCTGAGAGGGGTTTTCTTTCCCTCTGGGAAGAG
TCGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCTAGTCCCCCAAAA
CCAAGGAAGCATTACGCTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCTGGGCCCTT
GTCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGT
GTGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCA
GCCACTGTGCGCGGACTTGGGGAAGCCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGC
AAGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACCACTCGGGACATAGAGGGTGGACAGT
TCAGGCCTGTGTCTGCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGT

3229/5332

FIGURE 2828

AGGAACCAGGAAGGCAGACGCGGCTGCTGTAGCTCAGACCTGCGCCCCCTGGACATCCTGGCGGAAGTGGTCCCT
TCTGATGGCGCCACAAGCGGGATCAGGATAGTTTACGGTGCACGGGACTCCAGCTCTCAGTAGCCGCC
CCCCGCACCAATGAGCTTCCCAGCATCCAGGATTTTCTCCAGTGTGACCTCTTCCCTGAAGAATTTCCATCGTC
GTAACTTTGAGAGTTCCCAATCTTCCACCCAAGAGGAACGAGTACCTGCTGACGGTGGTGGCAGAGGAGAGCGAC
CTGCTGCTGCTCGGCCTGCGGTTGTACCTGCCAGCTGCACTTCCTGTTTCTTCGCGAGGACACGGCCGGCGCC
TGGCAGACCCGAGTGTCTTCCGACGCCCCGGCCCTGGTGGATGGCCGCTGGCACACACTGGTCTGGCTGTGTCC
GCAGGCGTCTTCTCCCTCACCACGGACTGCGGCCCTCCCGGTGGACATAATGGCCGATGTGCCCTTCCCAGCCACC
CTGTCAGTGAAAGGAGCTCGATTCTTCGTGCGCAGCCGGAGGAGAGCCAAAGGCCCTGTTTCATGGGACTGGTGAGG
CAACTGGTCTGCTGCCGGGCTCAGACGCCACCCCAAGGCTGTGTCCAGCAGGAACGCCCCGCTGGCGGTGCTG
TCCATCCCACGGGTCTGTCAGGCTCTCAGGGGAAGCCAGAAGATAACGAGGTGCTAAAATATCCCTATGAAACC
AACATTCGAGTGACGCTGGGACCCAGCCACCGTGTACCGAGGTGGAAGACGCCAGTTCTGGTTTGATGCCAGC
CGGAAGGGCCTGTATCTGTGTGTGGCAACGAGTGGGTCTCCGTGTTAGCAGCCAAAGAAAGACTGGACTACGTG
GAGGAGCATCAGAACTTGTCCACCAACTCAGAGACCTGGGCATTGAGGTGTTCCGCATCCCTCAGGTGGGGCTC
TTTGTGGCCACAGCCAATCGCAAAGCCACATCCGCCGTCTACAAGTGGACCGAAGAGAAGTTCGTCTCATATCAG
AACATCCCCACGCACCAAGCACAGGCCTGGAGGCATTTACCATCGGGAAAAAGATCTTCTTGGCAGTGGCTAAT
TTTGAACCAGATGAGAAGGGTCAGGAGTTCTCTGTCAATTACAAATGGAGCCACAGAAAGCTGAAGTTACCCCA
TATCAGAGCATTGCCACACACAGCGCCCGAGACTGGGAGGCCCTTCGAGGTGGATGGGGAGCACTTCTGGCGGTG
GCCAACCACCGGAAGGCGACAACCACAACATCGACAGTGTCTACAAGTGGAAACCCGGCAACCCGGCTCTTC
GAGGCCAACCAGACCATCGCCACCTCCGGCGCCTACGACTGGGAGTTCTTCAGTGTGGGGCCCTACTCGTTCCTG
GTGGTGGCCAACACCTTCAACGGCACCTCCACCAAGGTGCACTCGCACCTCTACATCCGACTCCTGGGCTCCTTC
CAGCTCTTCCAGTCTTCCCGACGTTCCGGTGTGTCAGACTGGGAGGTCTTCCAGATCGGGGAGAGGATCTTCTC
GCTGTGGCAAACAGTCACAGCTACGATGTGGAGATGCAAGTCCAGAATGATTCTATGTATCAACTCCGTCATC
TACGAGCTGAACGTGACCGCGCAGGCCTTTGTCAAGTTCAGGACATTCTCACCTGCAGTGGAGGCAGGAGGGG
CTTCATGCCCCGTGCTGCGGAGGGATAGCCGAGGCCCCAGAGGGACAGGTGCGAGGTGCAGGCTTCGAGTGCCCGC
TGCTTGCAGTGCCAGCTGCCACCAGACATGATTACTTCTTCCCCCGATGTTGCATCCTCCCCGACAACAAACA
CCAGGACACGAGACTGGCCTGTTGAGACAGATGTGAGATCCAGGGAACATGGAGGGTGGGTCTGTATGTACGAG
AAAGTGATGGTTCCAGACCGACACGCTCCGTGGAGCCACAGGAGGTTGCGTGGGCACCACATTTTGACAGTGGG
CACTGAGAATCCACAACCATCCTGACCAGTGTGGGGCTCCTCTGGGGTGGAAATCCGGTCTGTGAATAAACCTG
CAATCGAATCCGT

3230/5332
FIGURE 2829

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCCATGCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTCCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTACCTGTGAGATGTTTCATCCCAACATCTACCTCGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTCTCCCCGGC
ACACTTAGTGACAGTGTGCTGTGCTGGTACCAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTTT
TTTCAAACTTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGCAATATTGACAGCTTACTG
CAGTTTTACAGTATTCTTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCGCTGAAA
CCAGCAGTTCATGGCTTCCGTGGATTCCCTCCCTCCCTGGAGTGTGAGGGGGTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTCTGGGTCTTCTGGTTCCCTGTGGGCCCCATGAGGAGTCCATTACTTCTTTCTTCTTCATATTT
TACAGGCAGATGCTTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCTGTCCTGTAATCCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAAGGTCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGCTAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCTGTAGTCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAGAAAAAAGAAAT
TTATTGCTGATCACAAGGACAGACAGTTTTTTCCCGACCATACTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCACTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAAA
ATTTTTTTTTTCAATCTAAAACTGGAATTCAGAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCT
ACAAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCT
TATCCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCCCTGGGCCCAGGCTGGGGACAGAGCCCTGT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAAGCAATAACAGATCTGCCACATGCAGAAGCAAAATATCAGGCCTGTGCGCACACGGGCGGCATTAAATAG
GAATTTCTATTTTGAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTCTATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAGGGGCTCATTTAAATTTGGAGGCTGGGTG
CTGTGGCTCAGCCTGCAATCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTCAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAAATGA
GATGGAGCCCTCTCTGTAAAGAAGAGTCATTTGTGCAAGTAGACGGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAAGTATTTTA
TTCATTTGTATTTATTAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAACTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

3231/5332
FIGURE 2830

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGCGGGGCCGAGAGCGTGACTCGCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAGGTTCCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCCGGGCCGTCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAAACTCGAGGACATTACCCACGATGATTTTCTCTCTTT
GATGTACTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCAATCAGAATTG
TTATCTTTGTTTCAGGTAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTGTGTTTTCCCCCCT
CCTACAACATTTTTTAACCCCAAATATAGCCTGAATGTTGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTTCCCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACTTGCTGTTACAGGCACAGGTGATTAAATGCT
AAATATTGCAAATTTAAGCTTTGTCAGTATATGGAAGGTTGAAGGGAAATACTGGAATGCTTCTTCAAAGGT
AAAAAATAACCGAGTCTTTTGGTAATTTGACCCACAGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCAGGACCCACCCCTGCCACCCCTCCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATCCACATTTCTCATTGGTAATG
GTGTTGTGGCTCAGATTTCTTCTAGTATTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTTGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTCAGTTCTGTGAAATATTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAATCTTGCTGAAATGTTCTCATTTCCTGTTGCTGTATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTATTACCAATTTGTACATTATTGTTGTCCTTTACTACTGTAAACAGTAAATATAGTTTGGT

3232/5332
FIGURE 2831

CTGAACCTCAGCCGCGCCGGGAGGCGAGCCCGTTGGCGAGGGGCGGGGAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTTGAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACC**ATG**GCGCCCGAGTG
GCCCCGGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGTGCTCATCCGGTGGCC
GCCGCGCAGGAGCCTCCCGGAGCTGCTTGTCTCAGAACACAAACAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTAATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACCTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCTCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGTCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCGACGCTTCTGTGAGGTGCACGCTCCGCAGCCCAGCCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCTCTCGTCTTGCACTGGTGAACCTTCTATTCCTGTTTCATCTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTGGGCTTTTTTATACTCTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTGACGGCACCCAGCGCTGTGGCTGTCACTCTCCAGGGCAGAACCCTGCGTTTCTCTCTGTCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTTGACTTTTGTATGAGGAGAACTGACCAGCCCTCATCATTTCC
CATAAAACCACGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGCTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCCTAACCTCAATTGTATTAAATAGCATTTGGGAAT
AGCTAAACCTTTTTAAAAAATTTATTGGATTTTCTCCCTGCTTAAAGATTTACCAGAAAACCTTCATATAA
AAATTACAGGCCCTTTTGGACAATTTTAAAAATTTGTATCTTTACTAGAACATGAGAATCTTTTTCCCTTGGAAG
CTTGAATTATAAATGTGGTGTGTGGCCTGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCCTGTTG
GGCTGTCTGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGTCTCTGCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGACCA
CTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCCACGTTTCTGTAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAAGCAGCGTGCGGGGAAGTCACTGAAAAGTGC
TGCCTAAGGAAGTTTGAAATAGTCCCTGTTCCAGATTGCCTGAATTTTAAACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTACACTTCACAGTCATGAAAACCTGAGAAGACTGTCTTC
AGCGTGAACCTAAAGTTACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTTGTATTGTAGTAAAGTATTGCAGAGATTCTTAAGTATT
TTATAGCAGCCATCAAAATTGGACTTTGTATTGTTTATTCATAAAAGACACTTGGTAATAGACTTCAGTGAACCTC
TGTATGAATGCAGTAGTGTGTGTGCAAAATCCGCTTCCGTAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGAAATACAGCGTAGTCAGCCCTTGCCTCAGTGTAGAAACCCACGCTCTGTAAGGTCGGTCTTCGTCCATCTGC
TTTTTTCTGAAATACACTAAGAGCAGCCACAAACCTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTACTACCTG

3233/5332
FIGURE 2832

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCTCTCTCAGGAGTGCACGAAGTTCAAGGTCAGCAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTCACAGGGCCGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCCAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCCACAAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGATTGGCTTCGGGTCTTCGTGGACAAGACCGTGCTGCCGTTCTGTAACACGCACCCTG
ATAAGCTGCGAAACCCATGCCCAACAAGGAGAAAGAGTGCCAGCCCCGTTTGCCCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCAACCAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAGGTGCGCGCTGCCCGGAGGAAATCGGCTGGCGCAACGTCACGCGCTGCTGG
TGTTTGCCACTGATGACGGCTTCATTTTCGCGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTCACCTGGAGGACAACCTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAACTCACC
AGATCATCCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACCTATTAGAATGCTT
ACAATAAACTCTCCTCCAGGGTCTTCCTGGATCACAACGCCCTCCCCGACACCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACAGCCAGAGGTGACTGTGATGGCGTGAGATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGACAGTTCTTCCCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCCATCATCTGCTCAGGGCTGG
GGGACTGTGCTGCGGGCAGTGCTGTGCCACACCGCAGCTCCCCGGCAAGCTGATATACGGGCAGTACTGCG
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGCGGCCCGGGGAGGGGGCTCTGCTTCTGCG
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGCGCTGTTGAGTGAGTGAGTGGTGGTGGCGGTGCCGCTGCAACGTATGCGAGTGCCATTACGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCTCACCTGTGGCAAGTACATCTCCTGCGCCGAGTGCCGTAAGTTCTG
AAAAGGGCCCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCTGCAGCTGTGCAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCCAACATCGCCGCCATCGTCGGGGGACCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCAGTGAACAATGATAATCCCTTTTCAAGAGCGCCACCACGA
CGGTCATGAACCCCAAGTTTGCTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTGAGGACCCACCATGTCTG
CCCCATCAGCGGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCACAGTCTTTGATGGAGACTTGAGGAGGGAGGGCTTGAGGTGGTGAGGTAGGTGCGTGTTTCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTTACATTTAACTTGTGAGGTATAAAATGACATCC
CATTAATTATATTGTTAATCAATCAGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

3234/5332
FIGURE 2833

CTCCTCCTTGGAGGAAGTGGTGGGTTGCACCACCGTGGCCCTTCACCCCTGCCCTCTCCGCTCTACAGCAGCTC
TGATGTCAGAGAGCGGCCCTTGAGACAGACCTGCGTGCTCTGAGGCTGCCCCGACCTGAGCTCCAGAACAGACC
ATCGAGTTCAGGAGACAAGCATGTCAGCCATGACACAAGGCAGATGAGAGGGACCCCCAGCGTCCACACGTGGAG
GCAGCGGGGGCAGCCGACGTCCCTGAACCAAAGCCAAAGTCTACAGGTCACTGGGGCAGAGGCCGCCGAAACCA
GCTGTCCCTCCCGGCTAGGCGCGCCAGGTCCCCGCCAGCCGGGGCGATCCTTTGGTCGGACAGTGAGGTTGG
GAGCCACCGCACCCAAGTGCCGCCGCATCCACCCGGCGCAGGCGACCCCGACGGGCAGCCGCTACCTTCTCC
TGGCCCCGGGCTTCAGGAAACTGCCTGGAGGTGGCCGGGGTCTCCCTAGCGGAGGCTGGGCGGCGGGCTTCGCG
CCTGCCTCAGTCTCCAATCCGTGGCCCGGGGGATGGAGCCCGCTGCGCGCAGAGGCTGCGGCAGGTCCCAGCCA
GGTGCCTTGAACGTGGCTCCTCCTTCCCTGAGGCGCTCCCCTGGGCACGAGGATGGGTCTCGAAGCAGGAGGAA
GCCGCTTCCCTCACCCGCTGTCCGGAGCTGCTCAGCCGGTGCGGGAGCCTCCCCGCCGCGGACACCACGATC
CGACCCCCACCTGACCCCGACCCAGACCCCAACCGCCCGACCCCGGCCGTATTCGTTGCGTTTGCTCCCTGCC
AGCTCCGGGGCCACCACTGAGCACGCGCTGTGAGTAG

3235/5332
FIGURE 2834

AATGGGCGGCAAAGCGCCGCAGGCACAGAGCCTCCTTTTCATCTCTGCAGCAGGCTGAGTTTAAAAAGCAGATTTT
CTACACAATGTCGTACGCGAGTCTCAGCAGAGCTCAGGCCACGACCTCCAGCTGCCTGCAAGCCTGCATCTTCCT
CTGGGAGGCTTCCCCCTCACCTGCATCAGGGCCCGGGCTTGAGGGGTG**ATCG**AGGCAGGTTCCCCTGCAGCCG
GCGGTTCTGGGAGCAGGTGCCCCAGGCGGAGGCCATGGCCTCTGAGCAGGTGGCAGCTTCGCCCCACCAGAGCC
TGCAGCCCTCACAGCATCCACATTGCCCCAGCCTCTGCCTGGGCCAATGGCTCCTGGTGTCAATAAAGACTCTG
TTTTTACCTCCTCTGGGCCTCGGGAGACCAGCCTGGCACCAGAGAGGGGCTGGCAGAGCCCCAGGCTCCAGTCC
ACACCCACCGGCCCCAGGTCTGGCCATGGGCTGGGCCCTGGTGTGCAGACAGCAGTGGCCACTGCTCCAGGGCCT
TTGCACCAGCCTGCTGCAGGTCCAGGCGGTCTATGGGGAGTGGAGCCGCAGCGGCCTCTTGTTTTCTTCCCCTCT
TGGGAGACGGCTGCTCCTCCTGGCTGTTTCCAGAAAGTGTTTGTATTATTTGGCTCCTGGAAACACCATCTGATG
AAACAGGCTCTGTTGGGCTGGCCTGCCAGGCGGAGGCTGTGGGCGCCAGGAGTCTCACCACGAAGCAGGTGGCA
GAGGCCCCGATAGCCCCACCCTGCAGGCCGGGACCTGGCACCT**TAAA**CGGGGAGATGGAAGAACATGGAATAATTCCC
TAAGAGCAAATTGATGCTCAGCTTCCGCGGGCACCAACTTGCTGCGGAATCCTGCTTTGCAGATCATCGTTCCCTC
GAGCATTGGGACGCCTCGGGCCCCAGAAGTTCAAGAACAAGAAAGCTCTGTTTCATGCAGACACGCTCACGCATG
CACACATGCTCACACATGCACTTATACGTGCACACACACACACAACACACACACACGCACTCACACAACCA
TGGCCATGTAGCCCCAGTCTCAGCATCATGTCTCTATTTAGAAATATTGGCTAAACACCTAATAAATAACTAAA
CAGAAATG

CGCGCGCGCGCGCGCGCGCGCGGACGCGCGGCCAAGCGGCCAGGTTGGCGGCGGGGGCTCCGGGCGCGCGAGGC
CACGGCCACGCGCGCGCGCTGCGCACAAACGAGGCAGAGCGCGCGCGCGGAGACTGCGGCCGAAGCGTG
GGGCGCGCGTGCGGAGGACCAGGCGCGCGCGCGCTGCGGCTGAGAGTGGAGCCTTTCAGGCTGGCATGGAGAGCT
TAAGGGGCAACTGAAGGAGACACACTGGCCAAGCGCGGAGTTCTGCTTACTTCAGTCTGCTGAGATACTCTCTC
AGTCCGCTCGCACCGAAGGAAGCTGCCTTGGGATCAGAGCAGACATAAAGCTAGAAAAATTTCAAGACGAAACA
GTCTCCGCCAGTCAAGAAACCCTCAAAGTATTTTGCCATGATATAGAAGTGAAGAAAAACATGAGTTCAGCA
GCACTGATGTGAAGGAAAAACCGCAATCTGGACAACGTGTCCCCAAGGATGGCAGCACACCTGGGCCCTGGCGAGG
GCTCTCAGCTCTCCAATGGGGGTGGTGGTGGCCCCGGCAGAAAAGCGGCCCTGGAGGAGGGCAGCAATGGCCACT
CCAAGTACCGCTGAAGAAAAGGAGGAAAAACACCAGGGCCCGTCTCTCCCAAGAACGCCCTGATGCAGCTGAAT
AGATCAAGCCTGGTTTGCAGTACACACTCCTGTCCCAGACTGGGCCCGTGCACGCGCCTTTGTTTGTCTGTCTG
TGGAGGTGAATGGCCAGGTTTTTGGAGGGCTCTGGTCCCACAAAAGAAAAGGCAAACTCCATGCTGCTGAGAAGG
CCTTGAGGTTCTTCGTTTCAGTTTCTTAATGCCTCTGAGGCCACCTGGCCATGGGGAGGACCCTGTCTGTCAACA
CGGACTTTCACATCTGACCAGGCGGACTTCCCTGACACGCTCTCAATGGTTTTGAAACTCTGACAGGCGGAGC
TCCCTTTTACGTGGGCTCCAATGGGGTAGACTCCTTCAGTTCAGCGGGGACCTCAGCTTGTCTGTCTTCCCGG
TGCTGCCAGCCTAGCCAGCCTCCTCTCCTGTCTTACACCAATTCCACCCCCGAGTGGGAAGAATCCCGTGA
TGATCTTGAACGAACTGCGCCCAGGACTCAAGTATGACTTCCTCTCCGAGAGCGGGGAGAGCCATGCCAAGAGCT
TCGTCTGTCTGTGGTTCGTGGATGGTTCAGTTCTTTGAAGGCTCGGGGAGAAAACAAGAAGCTTGCCAAGGCCCGG
CTGCGCAGTCTGCCCTGGCCGCCATTTTTAACTTGCACTTGGATCAGACGCCATCTCGCCAGCCTATTCCAGTG
AGGGTCTTCAGCTGCATTTACCGCAGGTTTTAGCTGACGCTGTCTCACGCCTGGTCTGGGTAAGTTGGTGACC
TGACCGACAACCTTCTCTCCCTTCACGCTCGCAGAAAAGTGTGGCTGGAGTCGTATGACAACAGGCACAGATG
TTAAAGATGCCAAGGTGATAAGTGTCTTACAGGAACAAAATGTATTAATGGTGAATACATGAGTGATCGTGGCC
TTGCATTAAATGACTGCCATGCAGAAATAATATCTCGGAGATCCTTGCTCAGATTCTTTATACACAACCTTGAGC
TTTACTTAAATAACAAAGATGATCAAAAAGATCCATCTTTCAGAAATCAGAGCGAGGGGGGTTTAGGCTGAAGG
AGAAATGTCCAGTTTCATCTGTACATCAGCACCTCTCCCTGTGGAGATGCCAGAATCTTCTCACCACATGAGCCAA
TCCTGGAAGAACCAGCAGATAGACACCCAAATCGTAAAGCAAGAGGACAGCTACGGACCAAAATAGAGTCTGGTG
AGGGGACGATTCCAGTGCGCTCCAATGCGAGCATCCAACGTGGGACGGGGTGTGCAAGGGGAGCGGCTGCTCA
CCATGTCTCTGCAGTGACAAGATTGCACGCTGGAACGTGGTGGGCATCCAGGGATCCCTGCTCAGCATTTCGTGG
AGCCCATTTACTTCTCGAGCATCATCTGGGCAGCCTTTACCACGGGGACCACCTTCCAGGGCCATGTACCAGC
GGATCTCTCAACATAGAGGACCTGCCACCTCTACACCTCAACAAGCCTTTGCTCAGTGGCATCAGCAATGCAG
AAGCAGCGCAGCCAGGGAAGGCCCCCCAACCTTCAGTGTCAACTGGACGGTAGGCGCACTCCGCTATTGAGGTTCATCA
ACGCCACGACTGGGAAGGATGAGCTGGGCCGCGCGTCCCGCTGTGTGAAGCACGCGTTGTACTGTCTGCTGGATGC
GTGTGCACGGCAAGGTTCCCTCCCACTTACTACGCTCCAAGATTACCAAGCCCAACGTGTACCATGAGTCCAAGC
TGGCGGCAAGGAGTACCAGGCCGCCAAGCGCGCTGTGTTACAGCCTTCATCAAGGCGGGGCTGGGGGCTGGG
TGGAGAAGCCACCAGCAGGACCAGTTCTCACTACGCCCCGAGCCCGGCGAGACATGATGGGGGTGCAGGGG
CTGTGGGCATCCAGCGTCATCCTCCAGAACCTCACATCTGAACCTGGGGGAGGTCATACCTTGGGGAGGGAGTA
GGGGGACACGGGGGACCACCAGGTGTCCACGGTTGTCCCAGCATCTCACATCAGACCTGGGGCAGGTGCGCAGT
GTGGGGAGGGGATGGGTGCGTCAGGGCCAGCATCGCCGCTGGCATCTCTCTGCCCGAGCATTTCCTTCTG
AACCGTCCAGTGACTGCTTTCAATCTCGGTTTACGTTTGAATAATTGAGTTCTACTGAGTAGGGCTTCCTTAAGTT
TAGGAAAAATAGAAATTACTTTGTGTGAATTTCTTGAATAAATAATTTATTAGAGCTAGGAATGTGGTTTATAAA
ATAGGAAGTAATTGTGTCAAGTCACTTTTATGCCACATTATTTTAATTGCAAAAAAGCATCTATATATGGAGGAG
GGTGGGAAAAATAGAGGTAGGAAATAGTAGCCTAAAGGAAATCGCCACACGTCTGTCTAAACTTAGGTCTCTTTTC
TCCGTAGGTACCTCCCTGGGTAGTTCCACACACTAGGTTGTAACAGTCTCTCCCTGAGGAGCAGACTCCAGCAT
GGTGTAGCGTGGCCCTGTCTATGCACATGGGGTCCCGCAGCAGTGAAGTGTGTCTCTGAGAGGCGTGACCCAGGC
CCCTGTAGCCCTCAGCTCCTCTAGAAGCTTCTGTACTCCTTGAGGATCAGATCATGGAACCTTTTCTCAGTT
TACTTCTAAGTAATACAGATAATACATGCGCAGGTAATCCAGGCTGGCCATTCATCAGGTTTTTTAAAGGATA
TTTAACTTTTATGGACTAGAGAAGTAACGAGGCTACTGCAAGCATATGCGCTAAGTTCCCTTTGTTCCTTCC
TCTGAATCGAATGGATGTGGGTGACCGCCGAAAGGCCTTCACAGGATGGAAGTAGAATGATTTTCTAGTACTCT
ATTCTTGGAAAAATGCCATAGTTTTTAAATTATTGTTTCCAGCTTTATCAAAAGACATGTTTGAAAAATAAAAAGCAT

3237/5332
FIGURE 2835B

CCAAGTGAGAGCTGGTGAGACCACGTGCTGCTGGCGTAGTGTAGGCCAGACATTGACAGTCCTGACGGGAGCTCA
GGGCTGCCCAGCGCCCAGCGTGCACGGGACGGCCCCACGACAGAGGGAGTCAGCCCGGGAGGTCAGGAGCGCGGC
GGGCGAGGGCCCTGTGTGGACCACCTCCACCAAGC

3238/5332
FIGURE 2836A

AGCTCCAGCCGCACTGCCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCCGGGCCAACCTGCTGAACCTGAACCTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCCTGCCTGTGCAGCCACAGCAGATACCAACACACACGTGACCCCCCGAAT
GGTTCACAGAGCCAGCGACAGCCCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCACTTCTGCCGAGAGCCCGGACGCGCCAGAGGAGAACATTGCCGGTGTGCGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCCTGGAGACTCCTGTGGGCCCCCTTGCCTCGCTGGGCCTTCCAGCACCCCCCAGGAGAATGGGACCACTCTC
TGGCCAGCCGTGGCATTCTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTACGCGGGCCCTCAGTGCCACCACCATCTTCAGAGCCATC
AGCGAGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCCCAGCAGGTACCCAGACGGATGACCCGAC
GTCGGGCTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCCGTACCCTTCCCCAGCCTCTTC
TTCCGTGACTTCTCAGTGTGTTCCACATCCGGCCAGCCACAGAGGGCCAGGGGTGCTGTTCCGCATCACGGAC
TCGGCGCAGGCCATGGTCTTGTGTTGGCGTGAAGCTCTCTGGGTGTCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCCTTCGTGCGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCAGAGAATGCCGCTT
GCTCGGTCTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGAGCGGACCCT
GACAAGTTCAGGGGGGTGATCGCTGAGCTGAAGTGCAGGGACCCCAAGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCCGGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAACCCAGGCTCCCCGCGCCACCCCCGTCACCACGCCACCTTGGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCGCGTGAAAGAGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGATCTGGCTTCGGGGGCGATCTGGAG
GCCTTGCGGGGTCTCTCAGGGCTTCCCTGGACCTCCCGGACCCCGGCTTCCGTGGTGTGCTGGGCGCAGGGTCCCCC
CGCTTTGGGGTGAACAGCTCCGACGTCCAGGACCCCGCGCCTTCCGTGGTGTGCTGGGCGCAGGGTCCCCC
GGGTTTCTGCGCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTGCTGGTGTGCTGGGGAG
AGCGGCTTGGCAGGAGCCCCCGGACCTGCTGGACCAACAGGCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGGCTGCCGGGACTTAAGGGGGATCCTGGCGTGCCTGGGCTGCCGGGGCGAAGGGAGAAGTT
GGAGCAGATGGAGTCCCCGGGTCCCCGGCTCCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCTCCTGGCCCCCCC
GGACCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTCGCAAGGCTTTCCCGGACCTGCAGGACCAAGGGCAACCTGGGCTCTAAGGGCGAACGAGGCTCCCCG
GGACCAAGGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCGGGTCCATACGGACGGCCGGGTACAAGGGAGAGATTGG
CTTCTCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTTGGCATGAGGGGAATGCCCGCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTGCTGAGTCCAGCCGCCCCGGGCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCAAAGGAGAAGTGGGCCCCCGGACCACAGGGCAGTTTCCGTTGACTTTCTTCAGTTGGAGGC
TGAATGAAGGGGGAGAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGAGCCCGGGGCGGCGG
TTTCTTCGGCTCCAGCCTGCCCGCCCCCGGCCCCCAGGCCCCCAGGCCACGTGGCTACCCTGGGATTC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCAGGCCCCCAGGGCCCCCTTCATTTCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCCGGCCCTCCGGGCCCCCTGGGCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCGGAGGGCTGGCTCATCTTCGTGGCCGA

3239/5332
FIGURE 2836B

GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGTTCCGGAAGGTCCAGCTGGAGGCCCGGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGCAGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGACACACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGTCTCCACCTGGTTGCGCTCAACAGCCCCCTGTGAGGCGGCATGCGGGG
CATCCGCGGGGCGGACTTCCAGTGTCTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGAGGCTCCCTCGGCCACGGGCCAGGCCCTC
CTCGCTGCTGGGGGCGAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCTACATCGTGCTCTGCATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGGCGGCTCGGAGGA
AGCCCCCACCCTGGGCAGGGAGCGGCCGCCAGCCCCCTGGCCCCAGGACCTGGCTGCCATACTTCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAAGTTTAAACAGAAGCC
TGATGCTGACATTACCTGCCCCAACTCTCCCTGACCTGTGAGCCCAGCTGGGTGAGGCAGGGTGCAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTTCTCCAGGATTTCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCACCTAGCAGCACCCTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAAGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGAGCCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCTTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCTATCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCCTCTGTCACTCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTCTGTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAATAAAAGTGACCTTTTACTG

3240/5332
FIGURE 2837

GGCTCAGTCCCGACGTGGAACCTCAGCAGCGGAGGCTGGACGCTTGCGATGGCGCTTGAGAGATTCCATCGTGCCTG
GCTCACATAAGCGCTTCTGGAAGTGAAGTCGTGCTGTCTGAACGCGGGCCAGGCAGCTGCGGCCTGGGGGTTT
TGGAGTGATCACGAATGAGCAAGGCGTTTGGGCTCCTGAGGCAAATCTGTCAGTCCATCCTGGCTGAGTCCTCGC
AGTCCCCGGCAGATCTTGAAGAAAAGAAGGAAGAAGACAGCAACATGAAGAGAGAGCAGCCCAGAGAGCGTCCCA
GGGCTGGGACTACCCCTCATGGCCTGGTTGGTTTACACAACATTGGACAGACCTGCTGCCTTAACCTCTTGATT
AGGTGTTTCGTAATGAATGTGGACTTCACCAGGATATTGAAGAGGATCACGGTGCCAGGGGAGCTGACGAGCAGA
GGAGAAGCGTCCCTTTCCAGATGCTTCTGCTGCTGGAGAAGATGCAGGACAGCCGGCAGAAAGCAGTGCGGCCCC
TGGAGCTGGCCTACTGCCTGCAGAAGTGCAACGTGCCCTTGTTTGTCCAACATGATGCTGCCCAACTGTACCTCA
AACTCTGGAACCTGATTAAAGGACCAGATCACTGATGTGCACTTGGTGGAGAGACTGCAGGCCCTGTATACGATCC
GGGTGAAGGACTCCTTGATTGCGTTGACTGTGCCATGGAGAGTAGCAGAAACAGCAGCATGCTCACCTCCCAC
TTTCTCTTTTTGATGTGGACTCAAAGCCCCGTAAGACACTGGAGGACGCCCTGCACTGCTTCTTCCAGCCCAGGG
AGTTATCAAGCAAAAGCAAGTGCTTCTGTGAGAACTGTGGGAAGAAGACCCGTGGGAAACAGGTCTTGAAGCTGA
CCCATTGCCCCAGACCTTGACAATCCACCTCATGCGATTCTCCATCAGGAATTCACAGACGAGAAAGATCTGCC
ACTCCCTGTACTTCCCCCAGAGCTTGGAATTCAGCCAGATCCTTCCAATGAAGCGAGAGTCTTGTGATGCTGAGG
AGCAGTCTGGAGGGCAGTATGAGCTTTTTGCTGTGATTGCGCACGTGGGAATGGCAGACTCCGGTCATTACTGTG
TCTACATCCGGAATGCTGTGGATGGAAAATGGTTCTGCTTCAATGACTCCAATATTTGCTTGGTGTCTGGGAAG
ACATCCAGTGTACCTACGGAATCCTAACTACCACTGGCAGGAACTGCATATCTTCTGGTTTACATGAAGATGG
AGTGCTAAATGGAATGCCAAAACCTTCAGAGATTGACACGCTGTCATTTTCCATTTCCGTTCCCTGGATCTACGG
AGTCTTCTAAGAGATTTTGAATGAGGAGAAGCATTGTTTTCAAATATATACTGAGCCTTATTTATAATTAGG
GATATTATCAAAATATGTAACCATGAGGCCCTCAGGTCTGATCAGTCAGAATGGATGCTTTCACCAGCAGACC
CGGCCATGTGGCTGCTCGGCTCCTGGGTGCTCGCTGCTGTGCAAGACATTAGCCCTTTAGTTATGAGCCTGTGGGA
ACTTCAGGGGTTCCCAAGTGGGGAGAGCAGTGGCAGTGGGAGGCATCTGGGGGCCAAAGGTCAGTGGCAGGGGGTA
TTTCAGTATTATACAACCTGCTGTGACCAGACTTGTATACTGGCTGAATATCAGTGCTGTTTGTAAATTTTCACTT
TGAGAACCAACATTAATTCCATATGAATCAAGTGTTTTGTAAGTGTATTTCATTTATTTCAGCAAATATTTATTGA
TCATCTCTTCTCCATAAGATAGTGTGATAAACACAGTCATGAATAAAGTTATTTTCCAC

3241/5332
FIGURE 2838

GTCAGACTGGTCAATGCAAGGTCCTGGGCCTGCCCTTGGGTCCTGGGGAGCCACGGAAGGTTGTGGGTGCCAGAGG
GTTGCGGTCAGAGTCACAGTCAAGGGCCTTCTGAGACCTGTGCCCCCTCCCCACCTCCTCAGGCCAGCTCTGGGG
TCTCAGCAGGTGGTCCGCAACATGACCTCTGAGTTCTTCGCTGCCCAGCTCCGGTCCCAGATCTCTGACCACACC
ACTCACCCGATCTCCTACTACAAGCCCGAGTTCTACACGCCGGATGACGGGGGCACTGCTCACCTGTCTGTCGTC
GCAGAGGACGGCAGTGCTGTGTCCGCCACCAGCACCATCAACCTCTACTTTGGCTCCAAGGTCTGCTCCCCGGTC
AGTGGGATCCTGTTCAATAATGAATGGACGACTTCAGCTCTCCCAGCATCACCAATGAGTTTGGGGCACCCCCCT
CACCTGCCAATTTTCATCCAGCCAGGGAAGCAGCCGCTCTTGTCCATGTGCCCAGCATCATGGTGGGCCAGGACG
GCCAGGTCCGGATGGTGGTGGGAGCTGCTGGGGGCACGCAGATCACACAGACACTGCACTGGCCATCATCTACA
ACCTCTGGTTCGGCTATGACGTGAAAGAGGGCCGTGGAGGAGCCCCGGCTGCACAACAAGCTTCTGCCCCAACGTCA
CGACAGTGGAGAGAAACATTGACCAGGCAGTGACTGCAGCCCTGGAGACCCGGCACCATCACACCCAGATCGCGT
CCACCTTCATCGCTGTGGTGCAAGCCATCGTCCGCACGGCTGGTGGCTGGGCAGCTGCCTCGGACTCCAGGAAAG
GCGGGGAACCTGCTGGCTACTGAGTGCTCCAGGCAGACAAGGCTGACAAGCAATCCAGGGACAAGATACTACCA
GGATGAGGAAGAGGACTTTGGGGGACGGCTTCCCCTGTGAGCAGCAGAGCAGCATAATAAATGAGGCCACTGTG
CCAGGCTCCAGGTGGCCTCCCTGGCCTGTCTCCCC

3242/5332
FIGURE 2839

TTCGTGGCCAACACCCAGGCAAGGCTTGGGGCCCCGCTCTGCTGCTGGACGGTAAGTCCTGGCCCCGTGGCAGT
GAATCTGTGGGGCGCTCTGATTGTGGGCACTATGGAAGCTAAACCCCATGCTCCAGGTGGGGTGGAGGGTCTTCA
GAGGACTCCTGGACAGTGCCAGGCTCTAGGCTGGGGTGGGGGACACAGGAGAAACCAGGCCAGGCCCATCCCTGC
TGGAGCTTCTCCCTAAGCAGTGGAGGCTCAGCCACTGTGAGGAGGTAGGCCAGGCCCTGCAGAAAGAGGGGTGTG
GAAATCTGGGGGCTCCAGGAAGGGCCGCTGCTGGAGATGGGGTCTTACCAGGATGGGCTCTGAAGATAAGCAG
GGAGGATTGGGAGGGCAGAGATGAGGCCAGAGCTTCTGGCAGAGGGCATGGCCTGCGCAAAGGTCTGGGGGCC
GGACAGCCTGCACGTATTCTGGGAAGCGGAAGGAGACACAGGCCTGTGTTTTCTGAGGCCTGACTTTAGACTGT
GCCCTGTTGGGGAGGGGCCAGGGCATGTCTGAGGCTGGGCCTGACCCTGCTCCTTACCCCGTGGGTGCAGCAGAG
CCATGAAGAAGAAGTTAGTGCTGGTCTGGGCCCTGCTGGCCGTGGTCCCTGGTGCTGGTCATTGTGCGCCTCTGTCTCT
GGCTGCCCTCGGCCCTCCAAGGAACCTGACAACCATGTGTACACCAGGGCTGCCGTGGCCGCGGATGCCAAGCAGT
GCTTGGAGATTGGGAGGAGGGCTGTGCGGTGGCGGTGCCTGGGGAGATCCGAGGCTATGAGCTGGCACACCAGCGG
CATGGGCGGCTGCCCTGGGCTCGCCTCTTCCAGCCCAGCATCCAGCTGGCCCGCCAGGGCTTCCCCGTGGGCAAG
GGCTTGGCGGCAGTCTCGAAAACAAGCGGACCGTCATCGAGCAGCAGCCTGTCTTGTGGTATGTCTGTGGGTGC
GGCCCCCTGACACAGGCAGGGCAGGCACAGCCCAAGGACCTTGCCAGGCCGTAGCAGCAGTGGAGCGGCCCTCTGC
CTTCAGGACCCTGTGCTGATAATGGGATGAGGAGATACAGACCCTTCCCACCACGTGTGGGGACACATTCTGAGC
GTGGGGTCCCAGTGGCCACTGTGGCTGGCCACGTGTCTGAGTGGCAAGGGACACTAGGAGGCTCCCGGAAGGGA
CACTAGGAGGACGAGCGCTGAGTGACAGGGCCACCCACCTGTGACAGGCGCTGCCCTGTTCTGCTCCGTCTCTCC
TGTGTGGGCAGGTGTGGGGGTGGTCTAGCTGAGTCCACCCACCTGCTGCCTCACATGAGCCCCCTCTGCCCCA
GTGAGGTGTTCTGCCGGGATAGAAAGGTGCTTCGGGAGGGGGAGAGACTGACCCTGCCGCGGTGGCTGACACCT
ACGAGATGCTGGCCATCGAGGGTGCCAGGCCCTTCTACAACGGCAGCCTCATGGCCAGATTGTGAAGGACATCC
AGGCGGCTGGTGTAGTGGGTAACCTCAAGGACCTGGGTGAGGAACCTGTCAGTGGAAACCCTGAGCTGTAGCCAG
AGCCATGGGGTCTCCTGTCTTGCTGAGCCTGCAGGAAGTTCTGGTGGAGGAGGGTCAGTGACTGGCCATGTG
GGTCCACAGCTCCTGCTTATATCAAAACCAAGAGAGGCCACACAGTCCAGGAGAGCAAGTCCCTGTTGGGGTAAA
TGCAGGTGTAGGCAAGAGCCAGGGCTAGGGAAGCACTAGAATACAGCCTGAAGATCCAGGAGGACTTCTTGGAGG
AGGTGGCGGCTGGGCTGCAGATAACTTCGTTAGGCAGAGAGAGGAAGGGATTCTAGCAGAGGAACAGCTGGGCT
AAGGCCCAGTAGAGGGCGCTTTGATTACCAAGAGGGTTACAAGGGATGAGGGTCGCCTTGAGAGAGGCATGGGG
AAGGGGATTTGTGGGGCAGGGGCCTGGAGCTTGGCTGTGGCTTTCTTCAGGTAATTTTTGTCACTGTTTTCATGGA
GGAGGGTGATTAGCGTGTGACCTTTACCACTGAGGCTGGAAATTGGCATGCCAATACCCTGTCTGGAGCTGACT
CCAGGAGAATTAAGAGCCTCCCTCCCTCCCTCTATCCATTATCGTGAGGAGAAGAGGCCAAGCAGCAGGGACAC
CGGCAGGAATTCTCCAGTTAGAAAAGGCCCTCTGAGCCAGGTGCGGTGGCTCACGTCTGTAATCCCAGCACTTTG
GGAGGCCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTC
TACTAAAAATGCAAAATTAGTCAGGCATGGTGGGTGTGCTGTAAATCCCAGCTACTTGGGAGGCTGTGGCAGGA
GAATCGCTAGAACCTGTGGGGCTGAGGTTGCACTGAGCCGAGATTGCACCACTGCACTCCACAGAGTGAGACTCC
ATCTC

3243/5332
FIGURE 2840

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTCCGCTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCCTTGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTATAGCATTCAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTGAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTGAAAACAACCTCCTTTTATAATTATTCACTGCTTTTGTGAGTGAATAGACATCTTGCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGATACAGCCAAAATAATGTATATATGGAAAATGACAGACAAATTCTCTAATCTC
TTTGGTATCTATACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTAAATTAAGTATTTAATATGGTTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAAACCTCCTTTAGGTTTTTCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAA

3244/5332
FIGURE 2841A

GGACACTTGACATCCGTTGGTGTCAAGACAACCTCTAAGAAGGTTTTCCGTGATCCTGCAAGCCCTGCCTTCCTTCC
TGGGATCCTGCCTTCAATTTGATTGCACAGGTACCACAGCAAGCCAGTGCTGCGTGCTCCGAGTTCCAGGGGCATC
CTCCAGCTCAGCCACTGCACTGAGAACAATGGACTCTCTGTGGGGCCCAGGAGCCGGGAGTCACCCCTTTGGGGTC
CACAACACCCGGCTGTCCCCAGACTTGTGTCCAGGGAAGATAGTGTTGAGGGCCCTCAAGGAGAGCGGGGCAGGG
ATGCTGAGCAGGACAAGGACCCTAGAGTCCAAGAGAATCCTGGTGATCAGAGAAGGGTCCCCGAGGTACCCGGG
GATGCACCGTCTGCATTTTCGGCCCCCTGCGGGACAATAGAGGCCTCTCTCCCTTTGTGCCGGGGCCGGGCCTCTG
CAGACAGACCTCCATGCCCAGAGGTGAGAAATCAGATATAACCAGACATCCCAGACCTCCTGGACGAGCTCCTGC
ACCAACCGAAATGCCATCTCCAGCTCCTACAGCTCCACGGGAGGCTTGCCGGGGCTAAAGCGGAGGAGGGGCCA
GCCTCATCCCAGTGCAGCTGACCCCTCAGTTCCCTCAAAGACAGTGAGTGAGGACAGGCCTCAGGCTGTCTCTTCA
GGTCACACCCAGTGTGAAAAGGCAGCAGATATAGCACAGGGCAGACACTCGCCCTCAGGAATGACTCCTCCACA
TCCGAGGCCTCTAGGCCCAGTACACACAAGTTTCCCTTGCTGCCACGCAGGCGAGGGGAGCCTTTGATGCTGCCA
CCTCCCTTAGAGCTGGGGTACCGGGTCACTGTTGAAGACCTGGACCAGGAGAAGGAGGCGGCATTCCAGCGCATC
AACAGTGCAGTGCAGGTTGAGGACAAGGCCATCTCGGACTGCAGACCCTCACGGCCTTCCACACTTTGTCTCA
CTTGCAACAGGGACTTCTGGTCTGCCTGCCATTTCTAAAGCACCCAGTATGGATGCACAGCAGGAGACACACAAG
TCCCAAGACTGCCTGGGCCTACTGGCCCCCTTAGCATCTGCTGCAGGGGTCCCTCTACAGCTCCCATGTCTGGG
AAGAAGCACAGACCACAGGCCCCCTGTTCTCCTCCTCAGATCCCCTTCTGCCACCTCTTCCCATTTCCAGGAC
TCAGCCCAGGTACCTCGCTGATTCTGCCCCCTTCCAGCTGCAAGCATGGATGTGGGCATGAGAAGAACAAGG
TGTGGCACTTCTGCTCCTGCAGCTGCCGCAGCAGCCCTCCCCCTCCACATGAACCCACGTTGGGGTCACTA
CTGGAGTGGATGGAGGCCCTTACATTTCTGGGCCTCAGCCACAGCTGCAGCAGGTGCCCAGAGGTGAGAACCAG
AGATCCCAGACCTCCCGGACCAGCTCGTGCCCCAAACGAAATGCCATCTCGAGCCCTACCGCTCTACGGGAGGC
CTCCCGGAACGAAAGCGGAGAAGGGGGCCAGCCTCATCCCACTGCCAGCTGACCCTCAGTTCCCTGAACACAGAC
CCAGGGTGCGTGCCCATCTCCAGCCCAGGGCAGCTCCCTGTAAAGCTGGGTGAGCTACTGAAGCCAAGGCGGGAG
GCAGCTGACAACACCCACAGCCCATGCGGAGGTGGTGAAAGGCTGGACTCAGCAGCAACACCAATCCCGGACC
AGGCAAAAACACCCAAGACTGAGGGGCTCGTGCCAGAGCGGTGGCCACAGGGCTGAATGGTTGCTGAGACAGAG
ATGGAAGCCAGGACAAGGGAGCCACCGGGCCAGATAGAGACTTCAGAACCACCTCCTGAGAACAGCGGAGCCA
GGCGCTTAGAGGAAGACCAATGCTGCCAGGACACGGATTGCCAGGGATTACATTCCAGCATCTTATTAGATGG
CCTGATTAGCCAGAGGTTTTCCAGGCCGTCTGTCCGCCTCCAGGAGATGGACTGGGACCTTTAGACATCGGTGGAG
AACAGGATGCTCTGTCCCTTGTGTGCCAGGGCAGGGATGGCCTCCAGCCGCAAGAAGTACAGCAGCACCTCGACC
TGCCCTCGCGGAGTGGGGAAGAGGAGAGTGGCTCAGAGGGGGGCTCACAGCTGCTGGTGGGAGGTCTTTGGGGCC
CAAGCTCCCAAGTCCACCTCAGGTGCTAGAAACCCCTGCTGGTGTCTATGAACCCCTTACAGTGGGACGGGGGTGG
GGTGGGGTCTGACAAGGCATGACTTGTGGGTGGGGGTGGTTATTTATTTTAGAGATGCACAGGGCCTTGCTC
TGTCCCCCAGGCTGGAGTACAGTGGCTCCATCATGGATCACTGCAGCCTCTAACTCCTGGGCTCAAGCAATCCTC
CTGTGTCAGCCTCCCAGATACCTAGGATTACAGATGTGTGCCCCAATGCCTGCCTAATTTTCTTTGTATTTTTT
CTGGAGATGGGGTTTGCTACATTGCCCAGACTGGTCTCAAACACCTGGGTTCACTTGTCTGCTCGGCTCCCA
AAGTGTGGGATTACAGGCATGAGCCACCACACTCGAACACTTGGGGTGGTTTAAGCCCCCAGCAAGGTGCACC
AGCAGGACCAGGAGGTGGCCTGGGCACCCCTATCACTCCCATCCATGCAAACCTAGGCAAGTCCCTGTCTCTGA
ATCTCAGCCACCACCATACAATGCAAGTGGGAAGATGGGCAGGACTGGGGGTGGGGCAGGCAGAGGCCACCTC
TGTCAGGCTGGGGTTGCATGGGCTGGAGGCTGTCTTCCCATACCTGGGACATGACCTCCAAGGACCAGCTGTGAG
TCATGGTGATGGGCTGGCTGGGGTTGGCAGGGAGCTTGCTCTCCTTCTCGGAGGGCCGGAGCAGCGTGGGGCCAA
ACACCGTGCCAAGGTTGTGCAGGGACATCTTATTGACTGCCTCCTTCTCTGCCATCCTGTAGAGGACCGAAGCAG
AGGGTGTGTTTCAACGCCACCACCAGGAGAGAGGGCAGAGGGGCTGTGCCGTGCTAGAGTCTCAGGAGGGAGT
GACCTCGACCCTGGCTGTGCTGCAAGCTGACTCCAGCCTTGGGGTCAGCAGCACCCGGCAAACAGCAGCAGGAGG
AGCCGCTAGAGCAGCTGCTCATGGGCAGAGCTGCCCTCGGGCAACTCCTGCCACCACCCCTCCCCAGGGAGCCC
AAGGCAGGGGAGGCTCAGCATGGAATGAAAACAGGGGAGTGAGGGACACAAGGAGGTGGGAAGTGGGAGGGTCCCA
GCCCCACCAAGTACGCAGAGAACCCCTCGTTGTCTGGACACCACAGGGGCACCTGCAGGCTGGGAGACCAGGTC
CTCTGTGCATGGGCCCCGGGAGGCAGACCTGCCCTAAGGGTGATGCACAGGCTACAGGTGCTGCACGCTCCAGCGC
CCACTCTAGACATCAGCCTCCAGGTTGACTAAGGGTCAGGTCATGTTTGAACCATGCTTGGCTGGACCAGGACC
CATGGCAAGAGCACCTGGGCACCAGTGTTTAGCCCTGGTCTGCAGGAAGGAGGACAGCAGACTTTAGGACCCAC

3245/5332
FIGURE 2841B

AGCACGGCAGTGCTGACCATTTACCCACCTTGGCCTCCTTGAGAAATATGGATGGGGACCCCTCTGGGGATGGGC
AAGGCCTTCCAGGATAGGCTCAGTTTTGGTCCCTGCTTTTTGAGGTTGGGTAAAATTCCGACCATGGCAGAGG
AAGCACAGCTCAGGTTCCACACCTCACTTTTACAGCCTCTGAGGGCAGCAGTGCACGTGGAGGAGACGTCTCC
CATGAGGCCAAGGCCTCCAGTGCTCACCGATGCCCTCTGCGAAGTTGGGGTAGAACTCGTCAGTGAAGAGGGGCT
CGGGCAGCTCACGAAATACAGCTTCAGCGTGCCTGCGATGGCGTTACGTCCATCTCGCTCATCATCACCGACA
CGTCTTGTTATCTGGAAGAGCACGGAATGCAGCGGCCTCCTTGAAGATCCTGATAAATGAAGAAAAGACACA
GAGAAGGATGTGACATGCCTGGGCCGTGGAGCACTCTGAGATCTCATCGCGGACACCCTGCCACACCTCCATC
CCGTCTGCGCAGGCCGACACTCACTGACGTTGAAGGCTGCCTTCAGTGCCTGGATGTCTGCGGCCACCCAGAC
ATGCGGTAGATGCCACCTCCTCCATGCCTCGGCGCTCGATCTCCTCCACGCACTGGCGCACGATGTAGGGCACC
TTGGACCTCTCTCTCCTGCGGGAGGAGGGAATGTTCTCAGTGTCTAACAGCCCTGCTTGGGCCATAACACAGGA
GACCTGCTCCCTATGTGCACACCCGGAGGTGGGGTGAGGACGGTGATGAAGGTACCCAGGTCTGGGGCTGCACAC
AGAGCCTTCTGCATGCCTGTCTCCCTCTGCAAGCTCTGTCTCATTCATGTGCTTTCTCAGGAACCTTTCAAG
CGGCCAGAACCCCTGCAAATCACACATGACCTTTGTGGGAAGGTGAGGAGGCTGTCTAAGTCAAGTCAGCACGG
GAAGGGCATCTGACAGATTCCAGGCCTGGGGTGAGCAGCCTGTGCCCCGGCTGGGAGGTGAGACCCGGTGTGG
TCCTGCCACCCACGTGCTGTGTGAGAGGAGAATCCGTGACCCCTGCCCTGGGCCTTAACACACATCCGACGAATG
AATGAAGGGTTGCCTCAGCACCCGGTGCTCCAAGTCTGCGATGCTAAGTGCTTTTCTCCTCTGAGTCTTAGCAAT
GGACAATTCCAATACCTCCACACAGGACACTAGAGTAAGAATCCTTCACAGTTAGAACGCAGTGCTGTGCGGAGG
CCTTAACCTTGAGTTCTGTTTTGCACCTGGATTTACCAGCACATCAAAGCTGCTTCGCAAGCCCCCTCATCAGCAG
GGCTCATGTGGGGGAGCTGCTGATGGAGTCTCGCTGCTCATGCCACAGCCCTCCAGAGTGCTATGCGAGTGG
CTGCCGTGCAAGTTGGGGGTGGGGCGTGGTGTGTTAGACACAGATAGGAGTCCAGGGTATGACTGATGGAGGCCCCG
GCCACGTGACCAGCAAGGTCAGAGGCCAGCCAGATTCCATCCTGAGGAAGCAAATGAATTCTCAGAGGAAGTG
GTCTGTGTCTGCATGAACTGCTCTCAAACCAACAAATAGGCTTCTCTTGGCACTGACTCGTGACAAAGGGTTCA
AGATTGTTTGAAAAAAGGGGGGGGGGACAGGGAGGCAGTAGGTCTTGAAAAGTAAATCTTTATTTT
ACAATAAGAAAGTGATTACATATTTTATTTTTTTTACAATGGTGGAATAGAAAGTGATTGTGAAAATGATGT
CTACCCGCTTGCTGATGAGTAGGATGTGATTTGGCTCTTTAGGAACTGAATTTGCAGAACTTAAGAATATTGA
TTTATAAAGGGCATGGCCATTGACCCAGTCCATCTTATGCAAATCTGGATGCCATAAATAATTTAAAAATGAA
AGTATTGGGGTGGAGGTGCAAGTGAGCGGAGATCGCCCCACTACACTCCAGCCTGGTCAACAGAGTGAGACTCTG
TCTCAAAACAAAAAAGAGAGTCAATCCCAACATTGCTCATCAAATTATGACCATAAATTT
CCAGGATCAGACTAACGGCTAAAGAGACTGATGCATCAACACCAGGCAGAGAATAAAGCAGATTTTTTTTGT
GTTTTGGAGAGCCTCTAGGAACTTGAAAAATACATATGCCACACTCTTAAGACCCGGTGGTTCTTAATCAGGGAT
GTTCAATAAATGCTGGAAAACCTAAAGATTTCCAGGTCCCATCCAAGGAGATTTTGCTTCTGATTGACTGGCT
AGTGGCCTGGCCATTGGTATTTGAAAAATCCCTCCAAGTGATTCTTTTACATCCCAGCTAGAAAACCTAAATT
AAAGGTGAAAAACAGACACCAAGTGGCATTAAATAAATGTCAACTTTAACTCC

3246/5332
FIGURE 2842

GGGACTGTCATAAAAGGGGCGGGACGCGCCGCGGTCTGGGATGACGTGAGCTGGGGGCGCTCGTCGCTGCAGCCGG
CGGCTAGCGGGCGTCCGCGCCATGGAGCGCTACGCCGGCGCCTTGGAGGAGGTGGCGGACGGTGCCCGGCAGCAG
GAGCGACACTACCACTGCTGTCGGCGTTACAGAGCCTGGTGAAGGAGTTGCCAGCTCATTCCAGCAGCGCTTG
TCCTACACCACGCTGAGCGACCTGGCCCTGGCGCTTCTCGACGGCACCGTGTTCGAAATCGTGCAGGGGCTACTG
GAGATCCAGCACCTCACCGAAAAGAGCCTGTACAACAGCGCCTGCGCCTACAGAACGAGCATCGAGTGCTCAGG
CAGGCGCTGCGGCAGAAGCACCAGGAAGCCCAGCAGGCCTGCCGGCCCCATAACCTGCCTGTGCTTCAGGCGGCT
CAGCAGCGAGAACTAGAGGCGGTGGAGCACCGGATCCGTGAGGAGCAGCGGGCGATGGACCAGAAGATCGTCCTG
GAGCTGGACCGGAAGGTGGCTGACCAGCAGAGCACACTGGAGAAGGCGGGGTGGCTGGCTTCTACGTGACCACC
AACCCACAGGAGCTGATGCTGCAGATGAACCTGCTGGAATCATCCGGAAGCTGCAGCAGAGGGGCTGCTGGGCA
GGGAAGGCAGCCCTGGGGCTAGGAGGTCCCTGGCAGTTGCCTGCTGCCAGTGTGACCAGAAAGGCAGCCCTGTC
CCACCATAGCCACAGGCAGCAGAAGTCTGGGCAGAGTTCATCTTCTTGACCTTTGGCCACTGCCTTCCAGCTGC
CCGACAGGGGTTCCTCCCTGCTGAGGAGAGACCAGGTGGACCCAGCTGCCTGTCACCTTCATCTGGGACTTGCT
GTCAAACCCTAGGATAGTCTCATAAAGGGGAGGCTGGGCCAGCCTGCTGCTGCTGCTTCAGGGCCAGGCAGAGA
GTGAGGCTGGGGTTCTCACACCTTACTCCACCGGGCACATCCCAACCTGCACTGGGGCCCACTCGAGCGCTTGT
TCTGGTCTCAGCCGCTCCCTTGGCAGCTGCAGCCCCATGCAGAAGAGGCTCCCAGGCCCAAGCTCTGTGTGACC
CAGAGAAATAAAGATGCCTCAGTG

3247/5332
FIGURE 2843A

GGGGCGGGCGGGCGGGCGGGAGCCGAGCAGGACGGCCGCCATCTTGCGCGCAGCTGGAGTCGGTGCCTGAGGT
TGCAGCCGAGAGTGTGCGCCAGCCCGCGGCCAGCCGAAGCTCTTTCCCGCCGCTCTCCGCGCCTCGCCAGGT
TCAGCTCCGCTGACCCTCCGCTTGGCACGGTCCCTTGACCCTCAGTCCGGCCTGGTCCGGCCTTCCAGCCGCC
CGGGGACGATGAACGGAGGATAAATCGGTGCCAAGGCAGACAGCGCGCCTTCTGCTGCTCTTCTGCTCGTGC
TCACTGTACCCGAGCCGCTGCGGCCAGAGCTGCGGTGCAACCTTGGGCAGTTTGGTGTGCGACGGGCACCATCC
AGTGACCGGGGAGGTGCGTCTCATCATGGGAAGGAGGCTGTGGATCCGCGGCAGGGGCGGGCCAGAGGAGGCG
ACCTTTCGCACTTCCACGCGGTGAACGTGGCGCAGCCGTTGCTTTCAGCAGTTTCTAGGGAAGTGCCCGACAG
GGTGGCACCCTACGAAGGCACGCGCCAGCTGCTACCGGGTCTACCTGAGCGGGGAGAAGTACTGGGATGCCGCGC
AGACCTGCCAGCGCCTGAATGGCTCTCTCGCCACCTTCTCCACTGACCAGGAGCTGCGCTTTGCTGCTGGCCAGG
AATGGGACCAGCCGAGCGGAGCTTTGGTTGGAAGGACCAGCGCAAGTTGTGGGTGGCTATCAGTATGTTATCA
CTGGCCGGAACCGCTCCTTGGGAAGGTGCTGGGAGGTGGCATTCAAAGGCTCTTCAGAGGTGTTCTGCCCCAG
ACCCATCTTTGCTCGGCCATGTCTGAGAACGACAACGTGTTCTGTGCCAGCTTCAGTGTCTCCATTTCCCA
CCCTGCGGCACACGACCTCCACAGCTGGCAGCGCCGAGAGCTGCTACGAGAAGTCTTCATTTCTGTGAAAAGAA
GTCAAACATGTGTTGACATCAAGGACAACGTGGTGGATGAAGGGTTCTACTTCAACCCCTAAGGGGACGACCCAT
GCCTGAGCTGCACCTGCCATGGAGGGGAGCCTGAGATGTGTGTGGCTGCTCTGTGTGAGAGGCCCCAGGGCTGCC
AACAGTACCGAAGGACCCCAAGAGTGTGCAAGTTCATGTGTCTGGACCCAGATGGCAACAGTCTGTTTGAAGT
CCATGGCCAGCGGGATGCGCCTGGTGTGCTGAGCTGCATCTCTCTCTCTCATCTGTCACTGTGCTCTTCATGG
TCCACCGGCTGCGCCAGCGGCGCGGGGAGCGCATCGAGTCCCTGATTGGAGCAAACTTGCACCACTTCAACCTCG
GCCGAGGATCCCTGGCTTTGATTACGGCCAGACGGGTTTGGCACGGGCTCACGCGCTGCATCTTTCTGACG
ACGGAGAGGGTGGGACTTTCCATTTCACGACCTCCACCTCCCTACACGGCATAACAAGTACCCGGACATCGGCC
AGCCGACGACCTCCGCGCCCTACGAGGCTCCATCCACCCGGACAGTGTGTTCTATGACCTGCAGACGATG
ATGCTTTTGAAGCTGTGGAGGTGAGCCTGCCAGCCCTGGGGATGGTGGGAGTGAAGGTGCATTACTCCGGCGC
TGGAGCAGCCTCTGCCCCAGTGGGGGGCTCTCTGGCAGACCTGGAAGACTCTGCCGACAGCAGCGCCCTGC
TCGTGCCCCCTGACCCTGCCAGAGCGGGAGCACCCAGCTGCAGAGGCACTGCCAGGGGGTGGCCGCCACAGCC
GCAGTCCCTCAATACTGTGGTGTAGACGGCCTGGCTGTACCCCAACGGTCTGGGAGCACCTGTCTGTTGTAGA
AAACACCGGTCCCTGGGGAGACTTGAAAGGCCCTGTCCAGCCTGGACGCCACGCACTGCCGACGTCAGTGGC
GGGCTCGCGTGTGTACATAGAGACCACAGCCCGCCTTCTGCCAAAAGAAGTGATGGCTGCACCGAGCTTCTTG
AGGGCTTCAGAAACATGCATAGCTTTGGATCACTGTCTCTCTTTATAAATGGCAGAAGAGTGACAAAATTCAT
TCAGACCGCACATGTTAGAGGCAGGGAATGAAGAAGTACTGTGGGCCATGGCCACACCTGATGCGTTTTTGGTG
GGCTTACTTGGTGCAGTGTGCTGTCCAGAGAGACCTGCTGACCCAGTCTGGGACAGGCACAGTGGGAGCTGCCAC
AGTGGCCCTTGCTGGCCGCCCTCAGGAGGGGGCTCTGGACCGTCACTGTGGCGTAGGCAGTGGGTCTGCTTCAG
GGAGGCAGCCTCTTGACTTTGTACAACGGTTGCACTGAAGATGGCCCCACAAGCCAGTTGTGAATATCAAGG
TGACCTGCCCTGGCTGGGAGCTCCCTGGGGCTCTGGAACCTGAAGCCCTGAGAAGGAGAGCTTGAAGGAGG
TTGAGCTCTTCACTGTGTCTTTCCATCTGGGCTCTGCAGCCAGCTCTGTGGCAGGAGGCTGACCCACCCCAT
CAGTCCCTCTCCAGCATTGCTGTGCATGGCTCCCTCAGGAAGAAGCTCTGGAGTGGGGCCGAGGCCCCAGATGC
TCTGCTGGGGTCTGGGACTGAGCTGCCTCCTGTCTCTCCACTCTGGAGCCCTGGGCTCTTGCTCCTGTGTAAT
TGCCCTGGGCTGCCCGGGCCCATTTGTGCCATAAAGGGTTGCTTCATTGCAGGAGGGTGGCTGAAACCAC
CATCTGGGCTGCATCTATCTCTTAAAGTCCACTCCTTACATCACCGCCACTACTGCAGCTCAGTGGCCAGCG
CCGATGCACACCTCCCGGGCCCTCCTCAGCAGCGCAGGGGCTGGGGGCCCTTCTGGCACCCTTTGCTGACG
GACCTGTTGCTGCTCTGGGAGTGGTTTTGTTGCTGACACAGGGCCTTAACATTTCTGAGGTTGGAGAT
TAAGCGGGTTCTGTGCGATTTTGTACATCCATATCTTTCTACGTTGAATGCTGGATCTTTCTTTGTATGT
TTGTGTCTCTGTGTGTATGTGGCCAAGCGTCTGCAGGTGAGGGTGGCACATGGAACCTTACGGGTCACTGGG
GCCCCCTTCCAGGGTCACTGCATGCTGCTGGGCTGTGCTGAGGCAGTGTCTGCTGCTCAGTCTTTCCAGACC
AGCGGGGACAGCCTGGGAGGCTGTCTGAAGCATGCAGTTCTGTGGTGTGCTCGGGGATGGACTCCATGCACA
GTCCACTTCTTGACACATTCTCACACTGTGGCTGGAGACCCATTTTTTCCATCCCATGTGGAATGAGAATCTTGA
GTTGCCACAGACAGACTTGACCTTTGTGCCAGAAGTGTCCAGAGCTGTGAGTTTTGTTACTGAATTGCTGTCC
CTGAGCTTGGCCTGCTGGAGCATGATGCTGGAGGCTGTGTGCGGGCAGGCTTGTGCTCCCTTGGAGAAGGGCTG

3248/5332
FIGURE 2843B

CTACTTAACAAGGAAGTCCTGGCCACAGGAGTCCCCTACTGGCTGCAGAGGACGAAGCAGGAAGCATGCCGTGGA
TCCCACATGCACTGGGGCAGGGCAGCCAGGTTCCAGAGCAGCAGGCATGTGCATTATGGGTGCCAGGTGGCCAGT
GAGGGCCCGAGGACCACGCAGCAGAGTCCCCACGGGCCTGAGCCTGAGAGCTCAGAGGATTCCCTGCCAGGCCTC
AGAACTGTGTGTGCGGGACAGGGTGGCTGGCACGAGATGTGTGGGACTGGGACGCTTCCTTTGGGGACCAGAGGA
ACATTAGGGGCCGGTCAGACACGTAGGGGGCAGTGAGGAAACGGGGTAAAGTGGACCATGCAGGCTGCAGAGGGT
GGGCCTTGGGCTGGCCGGGGTTGCTGGGTGGCCCCCTTCCCCATGGGCCTCCACAAGCACTCAGGCCACTGGCACG
TTGGGCCAGGCAGAAGGTCCACATGGCAGGGCTGCCTGGAACACCGCTGCCACTGTGGCTCCAGGAGGCCCTTGG
GAGCATGAGGAGAGCTGGACTCGCTCATCTGTTCTTGCAACCACCATCCAGAATGCCCCCTTTGCAAGGCCTGCTG
CAGTCCCCAGTCTGACCAGCAAGTCCCGGGGTACCCCTTGCTGAACCTTGTGCTCCAGGGGTCCCTCCTCCTTAG
GACCAGCTTGCCACGGTTTTCTCAGAGCCCAGGTGCCCTCTGACCTGCCATGCGGAGGTGGGATTTGATACTGTAC
ATTGTCTTGATGCCTGTTTTTTTATGTTTTTCATTAAAGGGTTTTTAGTTTTTGTTGGGTGACACTAACTTTTCT
TAAGATGCTGTGAGAATCATTTCATCAAATGCCAAATAAACTTGTGTTCGG

3249/5332
FIGURE 2844

GGGATAGCGATGGAGACGCCGGGCGCATCAGCGTCGTCCTTGTTGCTTCCCGCCGCGTCCAGGCCCCCGAGGAAG
CGCGAGGCGGGAGAGGCTGGGGCTGCGACGAGCAAGCAGCGGGTCCTGGACGAGGAAGAGTATATCGAGGGCCTC
CAGACGGTCATCCAAAGGGATTTCTTTCTGATGTGGAGAAGCTCCAGGCACAGAAGGAGTACCTGGAAGCCGAG
GAGAATGGGAGACTTGGAACGGATGCGCCAGATTGCCATCAAGTTTGGCTCTGCCTTGGGCAAGATGTCCCGGGAG
CCCCCGCCACCCTATGTGACTCCAGCCACATTTGAAACCCCTGAGGTGCATGCAGGCACTGGAGTGGTGGGCAAC
AAGCCCAGGCCCCGCGGCCGAGGCCTGGAGGATGGAGAGGCTGGAGAGGAGGAGGAGAAGGAGCCGCTGCCCAGC
CTAGATGTCTTCTGAGCCGCTACACGAGTGAGGACAATGCCTCCTTCCAGGAGATCATGGAGGTGGCCAAGGAG
AGAAGCCGGGCACGCCACGCTTGGCTCTACCAGGCTGAGGAAGAGTTTGAGAAGAGGCAGAAAGATAATCTCGAA
CTCCCGTCAGCAGAGCACCCAGGCCATCGAGAGCAGCCAGGCCAGTGTGGAGACCTGGAAGTACAAGGCCAAGAAT
TCCCTCATGTACTATCCAGAGGGTGTCCCTGACGAGGAGCAGCTGTTTAAGAAGCCCCGGCAGGTGGTACATAAG
AACACGCGCTTCCTTAGGGACCCCTTCAGCCAAGCCCTGAGCAGGTGCCAGCTCCAGCAGGCAGCCGCCCTCAAT
GCCAGCACAAACAGGGCAAGGTGGGCCCCGATGGCAAGGAGCTGATCCCCCAGGAGTCCCCTCGAGTGGGTGGA
TTTGATTGTTGCCACTCCTTCCCCTGCCCCTGGTGTGAACGAGTCCCCGATGATGACCTGGGGGGAGGTTGAG
AACACACCCTTGAGAGTTGAAGGGTCGGAACGCCCTACGTGGACAGGACACCCGGCCAGCTTTTAAGATCCTG
GAGCCAGGCCGAGGGAGCGGCTGGGTCTGAAGATGGCCAACGAGGCCGCTGCCAAGAACCGGGCCAAGAAGCAG
GAAGCCTTGCGGAGAGTGACGGAGAATCTGGCCAGCCTCACCCCCAAAGGCCTGAGCCCAGCCATGTCGCCAGCC
CTACAGCGCCTTGTGAGCAGGACGGCCAGCAAGTACACAGACCGGGCCCTGCGGGCCAGCTACACACCATCCCCA
GCACGCTCCACCCACCTCAAGACCCCGGCCAGTGGGCTGCAGACCCCCACAAGCACACCGGCGCCTGGCTCTGCC
ACACGCACCCCTCTCACACAGGACCCGGCCTCCATCACGGACAACCTGCTGCAGCTCCCTGCCCGGCGCAAAGCT
TCGGACTTCTTTTAGAGCCAGGCCTGGGCTGGGCTCATAGACGCTTCACAGAGCCTGCAGGGCAGCTGTACACC
AGCAGAGGACTCCAGCCTTCTCGGGGCCCAGGCCTGGGCCAGAAGCTGTTGACCATAACCAGGAGTCACTGGAGAA
AGGGGCTGTGCTGGGGCCAGACTGGCACAAGGCACTCGTGCCCAACCCACAGGGCCTTGCCAAGCTGTTT
GCTGTTTAATTGGCCCTTGAAGTGTCAATTAAGAACACCTAGGTAC

3251/5332
FIGURE 2846A

ATTCTGCGCTGCCGCCGCCGCCGCCGAGGTCCCGCACCAGCCATGGCGCAGATCCTCCCTGTTTCGCTTTCAGG
AGCACTTCCAGCTCCAAAACCTTGGAAATTAATCCAGCTAACATTGGATTTCAGCACACTGACCATGGAATCTGACA
AGTTCATATGTATCCGAGAGAAAGTTGGTGAGCAGGCACAGGTCACGATCATTGACATGAGTGACCCAAATGGCTC
CGATCCGACGGCTATCTCTGCAGAGAGTGCCATCATGAATCCAGCCTCTAAGGTGATAGCTCTGAAAGCTGGGA
AGACACTTCAGATCTTTAATATTGAGATGAAGAGTAAATGAAGGCTCATACTATGGCAGAAGAAGTGATTTTCT
GGAAATGGGTTTCTGTGAACACTGTTGCCTTGGTGACCGAGACCGCGGTCTACCACTGGAGCATGGAAGGTGACT
CCCAGCCCATGAAGATGTTTGATAGACATACCAGTCTGGTGGGCTGCCAGGTGATTCACTACCGGACTGATGAGT
ACCAGAAGTGGCTGCTGCTCGTAGGCATCTCGGCTCAGCAAAACCGTGTGGTTGGAGCAATGCAGCTCTACTCTG
TGGATAGGAAGGTTTACAACCCATAGAAGGCCATGCTGCGGCTTTTGCAGAGTTCAAGATGGAGGGGAATGCCA
AGCCTGCCACCCTTTTCTGCTTTGCTGTACGTAATCCCACAGGAGGCAAGTTGCACATCATTGAAGTTGGACAGC
CTGCAGCGGGAACCAACCTTTTGTAAAGAAAAGCAGTAGATGTGTTTTTCTCCAGAGGCACAGAATGATTTTC
CAGTGGCTATGCAGATTGGAGCTAAACATGGTGTTATTTACTTGATCACAAGTATGGCTATCTTCTATCTGTACG
ACCTAGAGTCTGGCGTGTGCATCTGCATGAACCGTATTAGTGCTGACACAATATTTGTCACTGCTCCACACAAAC
CAACCTCTGGAATTATTGGTGTCAACAAAAAGGGACAGGTACTGTCAGTTTGTGTGAGGAAGATAACATTGTGA
ATTATGCAACCAACGTGCTTCAGAATCCAGACCTTGGTCTGCGTTTGGCCGTTCTAGTAACCTGGCTGGGGCAG
AGAAGTTGTTTGTGAGAAAATTCAATACCCTCTTGCACAGGGCAGCTATGCTGAAGCCGCCAAAGTTGCAGCGT
CTGCACCAAGGGAATCCTGCGTACCAGAGAGACGGTCCAGAAATTCCAGAGTATACCCGCTCAGTCTGCCCAGG
CTTCTCCATTGCTGCAGTACTTCGGAATCCTGCTCGACCAGGGTCAGCTCAATAAACTTGAATCCTTAGAACTTT
GCCATCTGGTTCTTCAGCAGGGGGCTAAGCAACTCCTAGAGAAGTGGCTGAAAGAAGATAAGCTGGAGTGCTCAG
AGGAGCTCGGAGACTTGGTCAAAACCACTGACCCCATGCTCGCTCTGAGTGTGTACCTTCGGGCAATGTGCCAA
GCAAAGTGATCCAGTGTTTTGCGAAGACAGGCCAATTCCAGAAAATTGTGCTCTATGCCAAAAGGTTGGGTACA
CCCCAGACTGGATCTTTCTGCTGAGGGGTGTAATGAAGATCAGTCCGGAACAGGGCCTGCAGTTTCTCGAATGC
TAGTGCAGGACGAGGAGCCGCTGGCCAACATTAGCCAGATTGTGGACATTTTCATGGAAAACAGTTTAATTCAGC
AGTGTACTTCTTCTTATTGGATGCCTTGAAGAATAATCGCCAGCTGAGGGACTCCTGCAGCATGGCTGTTGG
AGATGAACCTTGTTCATGCACCCAGGTTGCAGATGCCATCCTTGGAAATAAAATGTTTACTCATTACGACCGGG
CCCAGATTGCCAGCTCTGTGAGAAGGCAGGCCCTCTGCAGCAAGCACTGGAGCACTACACCGACCTCTATGACA
TCAAGAGGGCTGTGGTCCACACTCACCTCCTCAATCCCGAGTGGCTTGTCAATTTCTTTGGCTCCTTATCGGTGG
AGGATTCTGTGGAGTGTCTGCATGCCATGCTGTCTGCTAACATCAGACAGAACCCTTCAGCTGTGTGTGCAGGTGG
CCTCTAAGTACCACGAGCAGCTGGGCACGCAGGCCCTGGTGGAGCTCTTTGAATCCTTCAAGAGTTACAAAGGCC
TCTTCTACTTCTGGGCTCAATCGTGAACCTTCAGCCAAGACCCAGATGTGCATCTGAAATACATTACGGCTGCCT
GTAAGACAGGGCAGATCAAGGAGGTGGAGAGGATATGCCGAGAGAGCAGCTGCTACAACCCAGAGCGTGTGAAGA
ACTTCTGAAGGAGGCCAAGCTCACAGACCAGCTTCCCCTCATCATCGTGTGTGATCGTTTTGGCTTTGTCCATG
ACCTTGTCTTATTTATACCGCAACAACCTGCAGAGGTACATTGAGATCTACGTGCAGAAGGTCAACCCTAGCC
GGACCCAGCTGTGATTGGAGGGCTGCTTGATGTGGATTGTTCTGAGGAAGTGATTAAACACTTAATCATGGCAG
TGAGAGGACAGTCTCTACTGATGAGTTGGTGGCTGAAGTAGAAAAAGAAATAGGCTCAAGCTGCTGCTTCCCT
GGCTGGAGTCCAGATTGAGGAAGGCTGTGAGGAGCCTGCCACTCACAATGCACTGGCTAAAATCTACATCGACA
GCAACAACAGCCCCGAGTGCTTCTGAGAGAGAATGCCTACTATGACAGCAGCGTGGTGGGCCGCTACTGTGAGA
AGCGAGACCCCATCTGGCCTGTGTTGCCTATGAGCGGGGGCAGTGTGACCTTGAGCTCATCAAGGTGTGCAATG
AGAATTCCTGTTCAAAAGCGAGGCCCGCTACCTGGTATGCAGAAAGGATCCGGAGCTCTGGGCTCAGCTCCTTG
AGGAGACCAACCCATCCAGGAGACAGCTAATTGACCAGGTGGTACAGACAGCATTGTCAGAAACACGGGATCCTG
AAGAGATTTGGTCACTGTCAAAGCCTTTATGACAGCCGACCTGCCTAATGAACTGATTGAACTGCTGGAGAAGA
TAGTCTGGATAACTCTGTCTTCAGCGAGCACAGGAATCTACAGAATCTGTTGATCCTGACTGCCATCAAGGCAG
ACCGCACACGGGTCATGGAGTACATCAGCCGCCTGGACAACCTATGACGCACTGGACATCGCGAGCATCGCTGTCA
GCAGCGCACTGTATGAGGAGGCCCTTACCCTTTTCCACAAGTTTGATATGAATGCCTCAGCAATCCAGGTCTGTA
TCGAGCACATTGGAAACCTGGACCGGCATATGAGTTTGGCGAGAGATGCAATGAGCCTGCTGTGTGGAGTCAGC
TGGCCCAAGCCAGCTCCAGAAAGATTGGTGAAGGAAGCCATCAACTCCTATATCAGAGGGGACGACCCCTTCT
CTTACCTGGAAGTTGTTTCAGTCAGCCAGCAGGAGCAACAACCTGGGAGGATCTAGTTAAATTTCTGCAGATGGCCA
GGAAAAGGGCCGTGAGTCCTATATAGAGACTGAACTTATTTTGCCTTGGCTAAAACAGCCGTGTTTCTGAGC

3252/5332
FIGURE 2846B

TAGAAGATTTTATTAATGGACCCAACAATGCCACATCCAGCAGTTGGAGACCGCTGTTACGAGGAGGGAATGTA
CGAGGCTGCCAAGCTGCTCTATAGCAATGTTTCTAACTTTGCCCGCTGGCTTCCACCTTGGTTCACCTCGGTGA
GTATCAGGCAGCAGTGGACAACAGCCGCAAGGCCAGCAGCACCCGGACGTGGAAGGAGGTGTGCTTTGCCTGCAT
GGATGGACAAGAGTTCCGCTTCGCACAGCTGTGTGGTCTTCACATCGTCATTTCATGCAGATGAGCTGGAGGAGCT
GATGTGCTATTACCAGGATCGTGGCTACTTTGAGGAGCTGATCTTGCTGTTGGAAGCGGCCCTGGGCCTGGAGCG
GGCCCATGGGCATGTTCACTGAGCTGGCCATCCTCTACTCCAAATTCAGCCACAGAAGATGCTGGAGCATCT
GGAGCTTTTCTGGTCCCGTGTCAACATCCCAAAGGTGCTGAGGGCTGCAGAGCAGGCACACCTGTGGGCTGAGCT
GGTGTTCCTCTATGACAAGTACGAGGAGTATGACAATGCTGTGCTCACCATGATGAGCCACCCCACTGAGGCCTG
GAAGGAGGGTCAGTTCAAGGACATCATTACCAAGGTTGCCAACGTCGAGCTCTGTTACAGAGCCCTGCAGTTCTA
TTTGATTACAAACCACTGCTCATCAATGACCTGCTGCTGGTGCTTTCACCCCGCTGGACCACACCTGGACAGT
CAGTTTCTTTTCAAAGGCAGGTCAGCTGCCCCCTGGTGAAGCCTTACCTGCGGTCAGTCCAGAGCCACAACAACAA
GAGTGTGAATGAGGCACTCAACCACCTGCTGACAGAGGAGGAGGACTATCAGGATGCCATGCAGCATGCTGCAGA
GTCGCGGGATGCTGAGCTGGCCAGAAGTTGCTGCAGTGGTTTCTGGAGGAAGGCAAGAGGGAGTGCTTCGCAGC
TTGTCTCTTACCTGCTATGACCTGCTTCGCCCAGACATGGTGCTTGAGCTGGCCTGGAGGCACAACCTCGTGGA
CTTGCCATGCCCTACTTTCATCCAGGTGATGAGGGAGTACCTGAGCAAGGTGGACAACTGGATGCCCTTGAGAG
TCTGCGCAAGCAAGAGGAGCATGTGACAGAGCCTGCCCTCTCGTGTTTGATTTTGATGGGCATGAATGAGACCC
AGCTGATTGCACTAATCTGCAGGCCCTGCCGTGGGCCAGCCCCCTGCCAGCTTCCCCTATGGATATGCCTCTGCT
CCCAACTTCGCCAGCCTCCAATGTACAACCTCCGCGTGAGTGGGCGTTGTCACCACCCACCCCTACCTGCAGAGT
TACTAACTTCTCCAAGGAGCATGTCACTCCAGCAGCACAGGGGACGCAATGGGAGGCAGGGACACCTGGACAATA
TTTATTTTGTGAAACCCAATGACGGCAACCTCTGAGCCATCCCAGAGCCTGGGGAGGCCAGGCTAGAGGCTGA
CGGCGCAAGACCAGCTTTAGCCGACAACAGAGACTGGACTGTGGGCCCTCCTGCTGGAGCCAGGCCTTCCTCCTG
GGCGCCTCCGACTGGCTGGAGCTGCCCCCTCCAGGCCAGTTGAAGACTACATGAACACGCTTGTGTTGGAGGTA
CCGGACCTCATAAAAGGACTCTCAGCCTCTTGGAATCATAAATATTAAAGTCGGTTTATCCAGGC

3253/5332
FIGURE 2847

TAGCCATGACGGCCTCCGTGCTGCGAAGTATCTCGCTAGCCCTGCGCCCGACTAGCGGGCTTCTGGGAAGTTGGC
AGACGCAGCTTAGAGAGACTCACCAGCGAGCGTCATTGTTGTCTTTCTGGGAAGTCATTCCCATGAGATCAGAAC
CTCTTCGAAAAAAGAAGAAGGTAGATCCTAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAGGAAGATCCGAA
AACTGGAAAAGGCTACTCAAGAGCTAATTCCTATTGAAGATTTTATTACCCCTCTAAAGTTCTTGGATAAAGCAA
GAGAGCGGCCTCAGGTGGAGCTCACCTTTGAGGAGACTGAGAGGAGAGCTCTGCTTCTGAAGAAGTGGTCTTGT
ACAAGCAGCAAGAGCGTAAGATGGAGAGGGACACCATCAGGGCTATGCTAGAAGCCCAGCAGGAAGCTCTGGAGG
AACTGCAACTGGAATCCCCGAAGCTCCATGCTGAGGCCATCAAGCGGGATCCTAACCTGTTCCCTTTGAGAAGG
AAGGGCCACATTACACACCACCGATCCCTAACTACCAACCCCTGAAGGCAGGTACAATGACATCACCAAGGTGT
ACACACAAGTGGAGTTTAAGAGATTAGACTTGCAGGCTGCTATCCTTAACATGCTGCCCCTGAGAGTAGGAATGAC
CAGGGTTCAAGTCTGCTTTCACAGAATCAGGCATGCTGTTAATAAATACTGGTTTAATCAAAAAAAAAAAAACT

3254/5332
FIGURE 2848

CTGGGGCGTACCGGCTTGGCGCGGCGGCAGCGGCAGCGGCGGCTGGGAGAGCGGTGGCGGGGTTTCTTCGTTGC
ATTGCCTGAGAGGAGCGGAGTCTGCCAGGTGGTGTCCATCATGTTCTCTTTCAACATGTTTCGACCACCCTATTCC
CAGGGTCTTTCCAAAACCGCTTCTCCACACAGTACCGCTGCTTCTCTGTGTCCATGCTAGCAGGGCCTAATGACAG
GTCAGATGTGGAGAAAGGAGGGAAGATAATTATGCCACCCTCGGCCCTGGACCAACTCAGCCGACTTAACATTAC
CTATCCCATGCTGTTCAAACCTGACCAATAAGAATTTCGGACCGCATGACGCATTGTGGCGTGCTGGAGTTTGTGGC
TGATGAGGGCATCTGCTACCTCCCACACTGGATGATGCAGAATTACTCTTGGAAGAAGGCGGCCTGGTCCAGGT
GGAGAGCGTCAACCTTCAAGTGGCCACCTACTCCAAATTCCAACCTCAGAGCCCTGACTTCTGGACATCACCAA
CCCCAAAGCCGTATTAGAAAACGCACCTTAGGAACCTTTCCTGTCTGACCACCGGGGATGTGATTGCCATCAACTA
TAATGAAAAGATCTACGAACTGCGTGTGATGGAGACCAAACCGACAAGGCAGTGTCCATCATTGAGTGTGACAT
GAACGTGGACTTTGATGCTCCCCTGGGCTACAAAGAACCCGAAAGACAAGTCCAGCATGAGGAGTCGACAGAAGG
TGAAGCCGACCACAGTGGCTATGCTGGAGAGCTGGGCTTCCGCGCTTCTCTGGATCTGGCAATAGACTGGATGG
AAAGAAGAAAGGGGTAGAGCCCAGCCCTCCCCAATCAAGCCTGGAGATATTAAGAGGAATTCCCAATTATGA
ATTTAACTTGGAAGATAACTTTTCATCAGAAATTCACGTCCCCTTGTCAAAAGGTTGAAGAGGATGAAGCTGG
AGGCAGATTCGTCGCTTCTCTGGAGAAGGACAGTCATTGCGTAAAAAGGGAAGAAAGCCCTAAGTGAGGACTGT
TGGCTGATTGGAATAATAAAAGAATCATTGCAACATCTTGGCTTTTAGTTACTGGCACTGACAGGGACGAGC
CTCATCAGAGAATACTCTGTTACTTAAGATTTATTTAGAGTTACCTAAGAATTATTAAGTTTGACTTGGAAGTGG
AGCAGCAGGACTTTGTAGTTGTATGCTTGATTGGGGAAAGACAAAGAGCTGTCCCTGAGGGCCTGTAGATAGCT
GCCTCCTCACCTCTTCACGCTTTCAGCTTGAGGGGAGCTCCCACTGCCTCAGCAGGAGCAATTCTGCATCCCTAA
TTCTGTCAAAACCTATGAAGGTGACTAAATTGTCTAACATGAAGTGTCTTTCTTTTCTTTCATTTATCCTTTCT
TTTCCTACATCAATTGCATAGGTGTCAGTCTTTGGCCTAAAAAAGGCTTTAAATAGACATGTGTTCTATAAGTA
GTGGCTGTCCCACTACTGTGGCTGCAATTTAAGTATTTGACAAAGAATGTTTCTATTTTATTTTACATATTTT
TTCAAAAACACCACTCAGAAGAACCTGATCTGAATGAGTTTGCACCTTTATTCTCATTTCATATGGACATAACTG
GCTCCTTAGTGAACCTGTTTCATAGTGAACAACCTCCATGGAGAAGCAAACATGTGAATGTTAGAATGAACAAATG
CTAAAGAGATGTTCTCTCCTTCTTCCCTACTCCCAACTCCCAATTTAATTTATTAAATCATCCAAGCTTCT

3255/5332
FIGURE 2849

GCCGCCGGGCTCTTGGTACCTCAGCGCGAGCGCCAGGCGTCCGGCCCGCTGGCTATGTTTCGTGTCCGATTTCG
CAAAGAGTTCTACGAGGTGGTCCAGAGCCAGAGGGTCCTTCTCTTCGTGGCCTCGGACGTGGATGCTCTGTGTGC
GTGCAAGATCCTTCAGGCCTTGTTCCAGTGTGACCACGTGCAATATACGCTGGTTCCAGTTTCTGGGTGGCAAGA
ACTTGAAACTGCATTTCTTGAGCATAAAGAACAGTTTCATTATTTTATTCTCATAAACTGTGGAGCTAATGTAGA
CCTATTGGATATTCTTCAACCTGATGAAGACACTATATTCTTTGTGTGTGACACCCATAGGCCAGTCAATGTCGT
CAATGTATACAACGATACCCAGATCAAATTACTCATTAAACAAGATGATGACCTTGAAGTTCCCGCCTATGAAGA
CATCTTCAGGGATGAAGAGGAGGATGAAGAGCATTGAGGAAATGACAGTGATGGGTGAGAGCCTTCTGAGAAGCG
CACACGGTTAGAAGAGGAGATAGTGGAGCAAACCATGCGGAGGAGGCAGCGGCGAGAGTGGGAGGCCCGGAGAAG
AGACATCCTCTTTGACTACGAGCAGTATGAATATCATGGGACATCGTCAGCCATGGTGATGTTTGTGCTGGCTTG
GATGCTGTCCAAGGACCTGAATGACATGCTGTGGTGGGCCATCGTTGGACTAACAGACCAGTGGGTGCAAGACAA
GATCACTCAAATGAAATACGTGACTGATGTTGGTGTCTGCAGCGCCACGTTTCCCGCCACAACACCGGAACGA
GGATGAGGAGAACACACTCTCCGTGGACTGCACACGGATCTCCTTTGAGTATGACCTCCGCCTGGTGCTCTACCA
GCACTGGTCCCTCCATGACAGCCTGTGCAACACCAGCTATACCGCAGCCAGGTTCAAGCTGTGGTCTGTGCATGG
ACAGAAGCGGCTCCAGGAGTTCTTGACAGCATGGGTCTTCCCCTGAAGCAGGTGAAGCAGAAGTTCCAGGCCAT
GGACATCTCCTTGAAGGAGAATTTGCGGGAAATGATTGAAGAGTCTGCAAATAAATTTGGGATGAAGGACATGCG
CGTGACACTTTTCAGCATTCAATTTGGGTTCAAGCACAAGTTTCTGGCCAGCGACGTGGTCTTTGCCACCATGTC
TTTGATGGAGAGCCCCGAGAAGGATGGCTCAGGGACAGATCACTTCATCCAGGCTCTGGACAGCCTCTCCAGGAG
TAACCTGGACAAGCTGTACCATGGCCTGGAACTCGCCAAGAAGCAGCTGCGAGCCACCCAGCAGACCATTGCCAG
CTGCCCTTGCACCAACCTCGTCATCTCCAGGGGCCCTTCTGTACTGCTCTCTCATGGAGGGCACTCCAGATGT
CATGCTGTTCTCTAGGCCGGCATCCCTAAGCCTGCTCAGCAAACACCTGCTCAAGTCCTTTGTGTGTTGACAAA
GAACCGGCGCTGCAAACCTGCTGCCCCCTGGTGATGGCTGCCCCCTGAGCATGGAGCATGGCACAGTGACCGTGGT
GGGCATCCCCCAGAGACCGACAGCTCGGACAGGAAGAACTTTTTGGGAGGGCGTTTGAGAAGGCAGCGGAAAG
CACCAGCTCCCGGATGCTGCACAACCATTTTGACCTCTCAGTAATTGAGCTGAAAGCTGAGGATCGGAGCAAGTT
TCTGGACGCACTTATTTCCCTCCTGTCTTAGGAATTTGATTCTTCCAGAATGACCTTCTTATTTATGTAAGTGGC
TTTCATTTAGATTGTAAGTTATGGACATGATTTGAGATGTAGAAGCCATTTTTTATTAAATAAAATGCTTATTTT
AGGCTCCGTCCCC

3256/5332
FIGURE 2850

GAGGTGCGACAGACCCGCGGGGCAAACGGACTGGGGCCAAGAGCCGGGAGCGCGGGCGCAAAGGCACCAAGGGCCC
GCCCAGGGCGCCGCGCAGCACGGCCTTGCGGGTTCTGCGGGCCTTCGGGTGCGCGTCTCGCCTCTAGCCATGGGG
TCCGCAGCGTTGGAGATCCTGGGCCTGGTGCTGTGCCTGGTGGGCTGGGGGGTCTGATCCTGGCGTGCGGGCTG
CCCATGTGGCAGGTGACCGCCTTCCTGGACCACAACATCGTGACGGCGCAGACCACCTGGAAGGGGCTGTGGATG
TCGTGCGTGGTGAGAGCACCGGGCACATGCAGTGCAAAGTGACGACTCGGTGCTGGCTCTGAGCACCGAGGTG
CAGGCGGCGCGGGCGCTCACCGTGAGCGCCGTGCTGCTGGCGTTCGTTGCGCTCTTCGTGACCTGGCGGGCGCG
CAGTGCAACCACTGCGTGGCCCCGGGCCCCGCAAGGCGCGTGTGGCCCTCACGGGAGGCGTGTCTACCTGTTT
TGCGGGCTGCTGGCGCTCGTGCCACTCTGCTGGTTCGCCAACATTGTCGTCCGCGAGTTTACGACCCGTCTGTG
CCCGTGTGCGAGAAGTACGAGCTGGGCGCAGCGCTGTACATCGGCTGGGCGGCCACCGCGCTGCTCATGGTAGGC
GGCTGCCCTCTTGTGCTGCGGCGCCTGGGTCTGCACCGGCCGTCCCGACCTCAGCTTCCCCGTGAAGTACTCAGCG
CCGCGGCGGGCCACGGCCACCGGCGACTACGACAAGAAGAACTACGTCTGAGGGCGCTGGGCACGGCCGGGCCCC
TCCTGCCAGCCACGCCTGCGAGGCGTTGGATAAGCCTGGGGAGCCCCGCATGGACCGCGGCTTCCGCCGGGTAGC
GCGGCGCGCAGGCTCCTCGGAACGTCCGGCTCTGCGCCCCGACGCGGCTCCTGGATCCGCTCCTGCCTGCGCCCC
CAGCTGACCTTCTCCTGCCACTAGCCCGGCCCTGCCCTTAACAGACGGAATGAAGTTTCTTTCTGTGCGCGGC
GCTGTTTCCATAGGCAGAGCGGGTGTGAGACTGAGGATTTGCTTCCCTCCAAGACGCTGGGGGTCTTGGCTGC
TGCCTTACTTCCCAGAGGCTCCTGCTGACTTCGGAGGGGCGGATGCAGAGCCCAGGGCCCCACCGGAAGATGTG
TACAGCTGGTCTTTACTCCATCGGCAGGGCCCCGAGCCCAGGGACCAGTGACTTGGCCTGGACCTCCCGGTCTCAC
TCCAGCATCTCCCAGGCAAGGCTTGTGGGCACCGGAGCTTGAGAGAGGGCGGGAGTGGGAAGGCTAAGAATCTG
CTTAGTAAATGGTTTGAACCTCTC

3257/5332
FIGURE 2851

CACCCCGCAGCCCGGCCCTCGGCCTCCGCCGCTTGTCTGTCGCGCCCCGCCCGCAGCCCGCCCCGCACGTCCCCCG
CCGGCGGCCACCAATGAGCACAGGCCTGCGGTACAAGAGCAAGCTGGCGACCCAGAGGACAAGCAGGACATTGAC
AAGCAGTACGTGGGCTTCGCCACACTGCCCAACCAGGTGCACCGCAAGTCGGTGAAGAAAGGCTTTGACTTCACA
CTCATGGTGGCTGGTGAGTCAGGCCTGGGGAAGTCCACACTGGTCCACAGCCTCTTCCTGACAGACTTGTACAAG
GACCGGAAGCTGCTCAGTGCTGAGGAGCGCATCAGCCAGACGGTAGAGATTCTAAAACACACGGTGGACATTGAG
GAGAAGGGAGTCAAGCTGAAGCTCACCATCGTGGACACGCCGGGATTTCGGGGACGCTGTCAACAACACCGAGTGC
TGGAAGCCCATCACCGACTATGTGGACCAGCAGTTTGAGCAGTACTTCCGTGATGAGAGCGGCCTCAACCGAAAG
AACATCCAAGACAACCGAGTGCCTGCTGCCTATACTTCATCTCCCCCTTCGGGCATGGGCTGCGGCCAGTGGAT
GTGGGTTTCATGAAGGCATTGCATGAGAAGGTCAACATCGTGCCTCTCATCGCCAAAGCTGACTGTCTTGTCCCC
AGTGAGATCCGGAAGCTGAAGGAGCGGATCCGGGAGGAGATTGACAAGTTTGGGATCCATGTATACCAGTTCCCT
GAGTGTGACTCGGACGAGGATGAGGACTTCAAGCAGCAGGACCGGGAAGTGAAGGAGAGCGCGCCCTTCGCCGTT
ATAGGCAGCAACACGGTGGTGGAGGCCAAGGGGACGCGGGTCCGGGGCCGACTGTACCCCTGGGGGATCGTGGAG
GTGGAGAACCAGGCGCATTGCGACTTCGTGAAGCTGCGCAACATGCTCATCCGCACGCATATGCACGACCTCAAG
GACGTGACGTGCGACGTGCACTACGAGAAGTACCGCGCGCACTGCATCCAGCAGATGACCAGCAAAGTACCCAG
GACAGCCGCATGGAGAGCCCCATCCCGATCCTGCCGCTGCCACCCCGGACGCCGAGACTGAGAAGCTTATCAGG
ATGAAGGATGAGGAACTGAGGCGCATGCAGGAGATGCTGCAGAGGATGAAGCAGCAGATGCAGGACCAGTGACGC
TCGCCGCGGACACACCGTCCGTCTCCGGGACGCCCTCGCACCCCTGGACACCAGACCGGACTGTTCCCGACCCGG
AGACGCGGGGCCACAGCCCCAGCTGACCCTAATTTATTCTCAGCACCCACCCCTCCCAGGTCAATGTGTCTGTT
TCCGAGGGGCTTGACCGTAGCCCCCGCCAGCTGGCCCTCTCTGACCTTGGGGGATCAGGAGCGAAGTTGGGCG
GGACTTCAGAGATCCGCCTCCCTTGCCCTTCCCCCGCCCCCGGACGGTCACAGCACCCAAACCGCAGGCCCTGCT
CTGGCAGGCAGGCAAAGCTAGGCAGAAGAGGATTCCCAGGATCCTGGGTCTGTTCCCTGCCCCAGTGCTGCAGAA
CGGACTTGGGAGCCCTCCTTTGCCTGCTCCCGCGGGTCAACCGAGTGCTGAGACCCCATTTTCTGTGAGGC
GGGCCGAGTCTTCCCTTATCCCCAGACGCCTAGCGGGCAGGGTTGGGCTGAATCAAATGGGAGCCCTCCAGACAT
AAGGAGGCCAGAGGCTGCAAGGAGCGGGTCTGACCGCTTACACCCCTTCTCCACAGCCCGGCCCGACCTGGAG
GGCCCCCGGGGCACTGGGCGGTGAGCCACCTCCTGGCAACTCTCGGTGCCGTCCCCTGCCCTCGCTCGAGGCCCTC
TTCTCCCCAGCACCGCTGTGGTGTGCCGGGATCCTGAGCCTAGGCCTCCCGATGTTCCACCCCGCATGATCCCTT
CCCGCCACACGATGCTCCGTTTTCTTCCGTTGTGAATGCCGCGTCTGTCTGGTGACAGGAGAACAATGTTGGT
GAACGTC

3258/5332
FIGURE 2852

CCGGCAGGGGAGCGAGGAGGAAGGGAACCGCGGCCGGGCCAGCGGAGGCGGCGGAGCGCACCGCCACCAGGGC
TCAGGGTCCGCCGACCGGGTGAAGCTTCGCTGGCTGCCAGGATCCCCGGCAGGGATGCACTTCAGCACCGTCACC
AGGGACATGGAAAGCCTTCACGGCCAGCAGCCTGAGCAGCCTGGGGGCCCGGGGGGCTTCCGGGCGCCGCGTCG
CCCGGCGCCGACCCGTACGGCCCGCGCAGCCCCCGCCGCGCGCGCTACGACCCGTGCGCCGCGCCGCGCC
CCCGGCGCCCCGGGCCCCGCGCGCGCGCACGCCCTACCCGTTTGCGCCGGCCGCGGGGCCGCCACCAGCGCC
GCCGCCGAGCCCGAGGGCCCCGGGGCCAGCTGCGCGGCCGCGAGCCAAGGCGCCGGTGAAGAAGAACGCGAAGGTG
GCCGGTGTGAGCGTGCAGCTAGAGATGAAGGCGCTGTGGGACGAGTTCAACCAGCTGGGCACCGAGATGATCGTC
ACCAAGCCCGCAGGCGGATGTTTCCACCTTCCAAGTGAAGCTCTTCGGCATGGATCCCATGGCCGACTATATG
CTGCTCATGGACTTCGTGCCGGTGGACGATAAGCGCTACCGGTACGCCCTCCACAGCTCCTCCTGGCTGGTGGCG
GGGAAGGCCGACCCGTGCCACGCCAGGCCGCGTGCCTACCAACCGGACTCGCCTGCCAAGGGCGCGCAGTGGATG
AAGCAAATCGTGTCTTCGACAAGCTCAAGCTGACCAACAACCTACTGGACGACAACGGCCACATTATTCTGAAT
TCCATGCACAGATAACAGCCCCGCTTCCACGTGGTCTATGTGGACCCACGCAAAGATAGCGAGAAATATGCCGAG
GAGAACTTCAAAAACCTTTGTGTTGAGGAGACACGATTACCGCGGTCACTGCCTACCAGAACCATCGGATCACG
CAGCTCAAGATTGCCAGCAATCCCTTCGCGAAAGGCTTCCGGGACTGTGACCCTGAGGACTGGCCCCGGAACCAC
CGGCCCGGCGCACTGCCGCTCATGAGCGCCTTCGCGCGCTCGCGGAACCCCGTGGCTTCCCCGACGCAGCCAGC
GGCACGGAGAAAGACGCGGCTGAGGCCCCGGCGAGAATTCCAGCGCGACGCGGGCGGGCCAGCAGTGTCTCGGGGAC
CCGGCGCATCCTCCGCGAGCTGTGCCCCGGGTGCTAAGCCCCCTCGCTGCCCGGGGCCGGCGGCGCGGCGGCTTA
GTCCCGCTGCCCGGCGCGCCCGGAGGCCGGCCAGTCCCCCGAACCCCGAGCTGCGCCTGGAGGCGCCCGGCGCA
TCGGAGCCGCTGCACCACCACCCCTACAAATATCCGGCCGCGCCTACGACCACTATCTCGGGGCCAAGAGCCGG
CCGGCGCCCTACCCGCTGCCCGGCTGCGTGGCCACGGCTACCACCCGACGCGCATCCGCACCACCACCAC
CCCGTGAGTCCAGCCGCGCGGCCGCGCGCGCTGCCGAGCTGCCGCGGCCGCAACATGTACTCGTGGCC
GGAGCCGCGCCCGCGGCTCCTACGACTATTGCCCCAGATAACACGGGCCCTGTGCGCTCCCGCCCCGGTCTTG
CACAGCCCCGAAGTTGCGCGGGCCCGGCCACCTGCCCAAGGGCAAGCAAGGAATACGTTCCCCCAGCCCCAGG
GGCACCGCGGCTCTCCCTTCCCCAGCCTCGAAGCCATGGGGGCCCTCGCCACCCCAAGCCCCCTGGGCTAT
CGAAGTATCCGGTTCCCCAGTCCCTGGAGCCACCGGGTCTTCCCCGGCCCCGAGGGCCAAGGGGGTCCCCGC
CCGCCAGTGCCAAAGCGCCCGGTGCGAGGCGGAAGGAAGTGATATTTATTGTTCTCCCCGAGACCGCGTCGCCCC
CGGCCCGGCGGCGAGTTGCAGTGTAGACAGCCCGAGAGCCCCGCTGCGAGCGGTGTAGATACATGTAGATACTG
TAGATACTGTAGATACCGCCCCGCGCGCACTTGATAAACGGTTTCGCCTCTTTTG

3259/5332
FIGURE 2853

CATGCGCCGGGTCTGTACACGGCGGCCGCGCGCACGCTGGGGGCGTGGCTGCGCGATGTAATCGGTCTCTGGACGC
TGCGCGGCGCTCCTAGGAGCAGGCGTTCCCGACTCCGGCAAGAGGGTGGCGCCTGGACTCTCGCCCTCAGAGGGA
GGCCCGTCCCACGGTCTGTGGCTACGGATCCCAGGACCTCTTCGCGGGCGATTTCGCGTAGCCTCAGGTAACCTGC
ATCCTGCCCAGCATGACGGCCCCCTGCCCCGCCACCTCCAGACCCCAAGTTTGTCTCCGAGGCACCCAGTCA
CCGGTGCATGCGCTGCACTTCTGCGAAGGAGCCCAGGCTCAGGGGCGCCGCTCCTCTTCTCAGGGTCTCAGAGT
GGCCTGGTACACATCTGGAGCCTGCAGACGCGGAGAGCGGTTACCACCCTGGATGGCCACGGCGGCCAGTGTGTG
ACCTGGCTGCAGACGCTGCCCCAGGGGCGCCAGCTCCTCAGTCAGGGCCGGGACCTGAAGCTGTGCCTGTGGGAC
CTCGCGGAGGGCAGGAGCGCTGTCGTGGACTCCGTGTGCTTGGAGAGTGTGGGCTTCTGCCGGAGCAGCATCCTG
GCCGGGGGCCAGCCACGCTGGACGCTTGCCGTGCCAGGGAGGGGAGCGACGAGGTTTCAAGATTCTGGAGATGCC
TCCAAGACGTCAGTGTGCGCCCTGAAGCCGAAGGCAGATGCCAAGCTGGGCATGCCATGTGCCTGCGGCTGTGG
CAGGCCGACTGCAGCTCCCGCCCACTCCTTCTGGCCGGCTATGAGGATGGATCGGTGGTCTCTGTGGGACGTCTCT
GAGCAGAAGGTGTGCAGCCGCATCGCCTGCCATGAGGAGCCCGTCATGGACCTTGACTTTGACTCCCAGAAGGCC
AGGGGCATCTCAGGCTCCGCGGGGAAGGCGCTGGCTGTCTGGAGCCTGGACTGGCAGCAGGCCCTGCAGGTGCGT
GGGACTCATGAACCTACCAATCCCGGGATCGCCGAGGTCACGATCCGGCCAGATCGCAAGATCCTGGCCACCGCA
GGCTGGGACCACCGCATCCGCGTGTTCCTACTGGCGGACGATGCAGCCACTGGCCGTGCTGGCCTTCCACAGCGCC
GCTGTCCAGTGCCTGGCCTTACCAGCCGATGGCTTGCTGGCCGCGGGCTCCAAGGATCAGCGGATCAGCCTCTGG
TCACTCTACCCACGCGCATTGACTACCCACTCCCTTCCCGGGAGACGAGGAGGGCGGGCAGGGAGGTGGGCATCA
GGCCCCAGCCTTGGCCTGAAACCTCAAGGGCCTCTGAGGACCAGCAAGTCATGGCCCAAGGACCATGGAGTCCCC
GCTGTCTTCATGAGGTTGGTATTTCTTTTGTGGAGTGCCTCATCACAGGACGGTGACTCTGGGGGCCAGCCAGA
GCCCTGGCCGTCCGAGGCCTGCAGGAGACGTTGGCTTGGGCCTGCTGTGTTGCCAGCTGAGGGTATTTTATAATA
AATTTCATTGCC

3260/5332
FIGURE 2854

CCCAAGATGCCAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCTGGCCCCTGCTGTTCATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGAATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCTGCCTTGTGTCTGTAATAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCACTGGGGCGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAACTGGGTAAATGTACACTGTTGAGTTTTCTGTACATTAAAATAATTAAAATAATA
CAAATTTTCCTTC

3261/5332
FIGURE 2855

CTGCCGTGTGCTCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAAATTAACCGCTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCCTGACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTGTTTTTCTCTTCTGGCCCCACACACTGGCAGACCCG
AAGGCAGGGTGTCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGTGGC
TCTGCTTTCTAATCATGGTGTGAGTCTTCACTTCCCTTGGAAATACCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGCTGTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACCTTAAATAGGAAGTACTAAGGAT
AAGGTCCATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTAGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTTCAGTAAAGCAGTTGGCCCTCTGGAATAAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTGGCCTATGATTCCAGGATTTTAAAGTTTTAGATGCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCATACTGTTGGTGGGAATACACAATAATAATTTGACCACGTAACAATTCTAGGCACATGCATG
CTGTGACTACTTGTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCATGGTTCGGTACCCTACATGGGGGTTTA
GAGCAGGGACTGGAGGTTGGCCTTGCCCTCCCTCCCCGATGAGCTGAGGGTCCTTACCTGACCTTTTTTGAG
CTGTGACCAGAGTTTTTCCCTCATGGGGTGGTTAGAAGGGTTGAATGAGAAATGATGCCCATGCAGTGCCTTGGCTG
GGGTCTGGGCTCTTAACACCCACCTCATGGGTGTCACTGTTTTTTGAACAGCAGAACTGGAAAGCCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGGTACAGTTGGCACTGCTTATTTCTTGTGTCACCTGTGGGCCACCGTG
GCTGGGGCTGTGACACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGAGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGTCTGCTGAGGATGGGAGGATGGGAGGGGCTGCATCCATCCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGGCGTGTCCCTGTCTGTGTCTGTGTCTTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCACCCCTCATGACCTCATTTAACCCCTGAATTACCTCTTTAAAGACCCTGTCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCACAGCGGTGCCCGGATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTCTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCC
AGGCCCTGGGTCTGGGGCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGGCCAGT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTCCCTACCTGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACCTTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAAGTGCAGGAGGGAGG
GGTCTGCTGTATCCTTGATAGCCTGTGATGAGCAGAGCCCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

3262/5332
FIGURE 2856

GTCTGTGGCTACGGATCCCAGGACCCTCTTCGCGGGCGATTGCGGTAGCCTCAGATTGCCTCGGATGATGGCCTG
CGACTGACAGTCTCTCAGCTCTTCTCAGCTCTCCTGAGGCTGCAGCTGTCAGCTCCCTGATCCTCAGCACTTGCC
TGGACCAGTGGGGTCTGCCACGCCCTGTTAGCCATCCCTGTCTGTGTGTCGTGCAAGCCACATCTGTCCAC
ACCCCCACCACCCACAGTGTGGCTCTCCTCTCTTCTCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGT
CAGCAGGGCCCTCGCATTCCCATCTGGGCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAG
GCGTCTCCTGGGGTGGCATAACCCCCCTTGTGGATCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGT
GTGCGAACGACCAATGGAGCAGAAGAGCACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCTA
GCTGGGCACATGCCAGCTCCCGACCCACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTT
GATGGCTCCCCGTGGCTACTGGACCGCTTCTTGGCCAGCTGGGCGATTACATGTCCTTCCACTTTGAGCACTAT
CAGGACAACATCAGCCGTGTCTGCGAGATCCTCAGGCGCTAACAGGCCGAGCCAGGCTGGGCAGCCCCCTAC
CTTGATGGGGACCTGCCCCCTGCCGTGACGATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCG
AACAGTTTGTGTGAGTACCATGCTGTGGTTACCTGTCCCCTGCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCCT
CAGCTGCCTGTGGTGAGGCAATACTTAGCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCAGG
TCTTTACCAGCCGCCATGGCCACCCCTGCTGTGTCTGGGTCCAACCTCTGTATCTAGAAGTGCTCTGTTCGAGCAG
CAGCTGACCAAGGAGAGCACCCCTGGGCCCAAGGAGCCCCAGTCTGCCAGTTCTACATGTAGCTCCAAGCCT
GGTCTGTGGAACCAGCCTCTTCCCAGCCAGAGGAGGAGCCCCCACACCTGTCCCTAGACTGTCGGAGTCAGCT
AATCCTCTGCCCAGAGACCAGACCCAGCTCATCCAGGAGGTCCAAAACCCAGAAAACAGAGGAGGAGGTTTTG
GAGACAGAGGGAGACCAGGAGGTGCCTTAGGTACCCACAGGAGGTGGTGGAGGCCCCGGAGACCCAGGAGAG
CCACCACCTTCTCCTGGGTTCTGAACACAGCCCAGGTGGGAACAATGCTGCCCTCATGATGAAGTGGCCTGTGT
GGCTTGAGCGCCCCATAGTCCCCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAA
GATGCGCTTGTTTTGGACTCTGCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGT
GCCCTTCCCTGCTGCTGGCTCTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCAGGCCCTGCTC
CCACGAGGGGGTCGTTTTGTAGATCAACTCTCAGCAGATAGTTGCATCATCTTGTACCTCCACCCCATAAAA
CACCCCTTGGGTGTCTTCCACACTGGCTGGGACTGAACTGGGTCTGCCACGCTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTCTGTGTCTGTCCCCCTAGCCCCACCTCTCTGCTCCCTGTGACTTCTGTCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGCCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCTT
GCCAGGCTCAGCTGCAGGCATTGCCCTTTGTGTGTTAACTGTAGCTCTAATCGTGCCTGGTGTCTGAAGCA
GGCTCCTCTTCCCTGCTGCTGTGTGCCATCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTGAGCACTTA
AGCCCTAGTGTGTAAATGACTTGGATCTCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTC
AGCTCTGTGGCCTGGTACACAATTGGTGCTCATTAAACACGTGTTGGATTACTGGC

3263/5332
FIGURE 2857

ATTCCCCACACCTATCCCAGTGTTCACCCTAGGTCTGAAGGCCCCCGCCCGAATCCGGCCGCATTTCGGCCCC
GGTCTAGCCAGCGCTCTCACCTCTCCCGCGACGGCCCGCCGGGACTGGACCCGCCCCGGTCCGGCGCAGGCAGC
GCGGCGGGCAGCCCTAGCTGCCCCAGAAGCCCCACGACGATCGCGGCAATGGCGGTGGCGCTGCGGGGATTAGGA
GGGCGCTTCCGGTGGCGGACGACAGGCCGTGGCGGGCGGGGTGCGGGGCGCGCGCGGGGCGCAGCAGCAGGTGAG
CGGGACTATGATCTCCTGGTGGTGGCGGGGATCTGGTGGCCTGGCTTGTGCCAAGGAGGCCGCCAGCTGGGA
AGGAAGGTGGCCGTGGTGGACTACGTGGAACCTTCTCCCAAGGCACCCGGTGGGGCCTCGGCGGCACCTGCGTC
AACGTGGGCTGCATCCCCAAGAAGCTGATGCACAGGCGGCACTGCTGGGAGGCCTGATCCAAGATGCCCCCAAC
TATGGCTGGGAGGTGGCCAGCCCGTGCCGCATGACTGGAGGAAGATGGCAGAAGCTGTTCAAAATCACGTGAAA
TCCTTGAAC TGGGGCCACCGTGTCCAGCTTCAGGACAGAAAAGTCAAGTACTTTAACATCAAAGCCAGCTTTGTT
GACGAGCACACGGTTTGGCGCGTTGCCAAAGGTGGGAAAAGAGATTCTGCTGTCAGCCGATCACATCATCATTGCT
ACTGGAGGCGGGCGAGATACCCACGCACATCGAAGGTGCCTTGGAATATGGAATCACAAGTGATGACATCTTC
TGGCTGAAGGAATCCCTGGAAAAACGTTGGTGGTGGGGCCAGCTATGTGGCCCTGGAGTGTGCTGGCTTCCTC
ACCGGGATTGGGCTGGACACCACCATCATGATGCGCAGCATCCCCCTCCGCGGCTTCGACCAGCAAATGTCCTCC
ATGGTCATAGAGCACATGGCATCTCATGGCACCCGGTTCCTGAGGGGCTGTGCCCCCTCGCGGGTCAGGAGGCTC
CCTGATGGCCAGCTGCAGGTACCTGGGAGGACAGCACCCGGAAGGAGGACACGGGCACCTTTGACACCGTC
CTGTGGGCCATAGGTGAGTCCAGACACCAGAAGTCTGAATTTGGAGAAGGCTGGGGTAGATACTAGCCCCGAC
ACTCAGAAGATCCTGGTGGACTCCCGGAAGCCACCTCTGTGCCCCACATCTACGCCATTGGTGACGTGGTGGAG
GGGCGGCCTGAGCTGACACCCATAGCGATCATGGCCGGGAGGCTCCTGGTGCAGCGGCTCTTCGGCGGGTCTCA
GATCTGATGGACTACGACAATGTTCACGACCGTCTTACCCCGCTGGAGTATGGCTGTGTGGGGCTGTCCGAG
GAGGAGGCAGTGGCTCGCCACGGGCAGGAGCATGTTGAGGTCTATCACGCCCATTAATAACCACTGGAGTTCAG
GTGGCTGGACGAGATGCATCCAGTGTATGTAAAGATGGTGTGCCTGAGGGAGCCCCACAGCTGGTGCTGGGC
CTGCATTTCTTGGCCCCAACGCAGGCGAAGTTACTCAAGGATTTGCTCTGGGGATCAAGTGTGGGGCTTCCTAT
GCGCAGGTGATGCGGACCGTGGGTATCCATCCACATGCTCTGAGGAGGTAGTCAAGCTGCGCATCTCCAAGCGC
TCAGGCCTGGACCCACGGTGACAGGCTGCTGAGGGTAAGCGCCATCCCTGCAGGCCAGGGCACACGGTGCGCCC
GCCGCCAGCTCCTCGGAGGCCAGACCCAGGATGGCTGCAGGCCAGGTTTGGGGGGCTCAACCCTCTCCTGGAGC
GCCTGTGAGATGGTCAGCGTGGAGCGCAAGTGTGACAGGTGGCCCGTGTGCCCCACAGGGATGGCTCAGGGGA
CTGTCCACCTACCCCTGCACCTCTCAGCCTCTGCCGCCGGGCACCCCCCCCAGGCTCCTGGTGCCAGATGATG
ACGACCTGGGTGGAAACCTACCTGTGGGCACCCATGTCCGAGCCCCCTGGCATTCTGCAATGCAATAAAGAG
GGTACTTTTCTGA

3264/5332
FIGURE 2858

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCCGCCGCGCTGCCTGCCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTGCGGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCTCAGAGGAGACC
CCAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAGATGCCGGAGGCCCCGCCTCTGC
TGTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCC
TGTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGC
GCATCCTGAACCATGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACT
GCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTACGGAGCACC
AGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAG
GGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCAGCCAGCGGATGGTGGATTTCGCTGGCA
TGAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGG
ACACACTGGACATGGTCTTCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTTTTGGAGGAATGTG
GCCTGCTGCCGAAGGGGACAGTGCTACTGGCTGACAACTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACACG
TGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTTCTGGAATACAGGGAGGTGGTGGACGGCCTGG
AGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCCTGACTGCCCCCCCCGGCCCCCCTCTCGGGCTCTC
TCACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCTAAATGC
AAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGTAACCTCTCTGAAGTGAACACTGGATTGTCTTTTTT
AAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAAT
ATAAAATAGAAATTAA

3265/5332
FIGURE 2859

ATTTTGTAAAGAAAATTTAAAAATTAAAGCAGCAAAGGAACTTTTTGCTTTCTGCCACTCAGGTCTGGCACAAGT
GGCTGGCTTCTCCCTTGTGTGGGCTCTGCGCGTCTGGGGCAGGGCCCTGGGTGGAGGTGGTCCCAGGTGCCCA
TCTGCTGTGTCTGCAGAGGCTCTGTTTCTGGTCCCTGGGTGGCCCCAACTTGTCCACTTGGGCTCACTGGTCT
GTCTATCCATAGGAGTGGGCTGGCTGGGGGCTAGCCAGGCCTTGAGCCCAGGAGTAGAATCTTGGCTAGGGGCTG
GTCTCGGTGCAGGTGAACTCAGCTAGCACAGGGTTGATTCTGTCTGGGCTGGGAACTGGGCCCTTGAGGCCT
CTGAGGTGGCTAGCAGTCTGACCCCTTGGAGGAGATGGGGACAGCTCTAGGTGTAGGTGGACAGAAACCAGCACT
GCATCCTCACTCATGGGCCAGGGAGGCAACTACAGGGATGCGGGAGCTGGTCTGAGCCATTGCCCTTCTGTAAAG
CAAGGCCCAGTGGGGAGTAGGGAAGGAGATGCTTCCACTCTGTGCCACATGGGGCCCAGAGGGGCTGGTGCTGCT
GCGGGGTCCACCTGTCCCAGCGCTGCTTGGTCAAGAGGTGTGAATGCTGGCTGACTCCTCTTCGTTTCCCAG
GCTGGCAGTCTGCTCCCATGGGGCTAACAGGTGCCCTGGCCTAGCTGCAGGAGGGCTGACCTCTGCACCACTGTG
GCTGGGAGGCCAGTGGGCCAGGCTGCCACCCAGAACCCAGCCAGCTAGGGGCCCGCCCTTAGCGTTAGCGTCC
GTCAAGGGGAGCTTTGAATGTTTGGTGCCCAAGTCAAGGGCAGCAGGGGAATGGCAGTTGAGAAGGATGTACTAA
GTCGAGTTATATCTAAATATTTAGATTCTTAATTTCTATTTTATATTTTTAAAAACATGATATTAGTATATAAGAT
AATATAGCTAGCCAGTGTTAGTAAAGAAGTCATGATTGAGTCTTAAAAAAGAACAATCCAGTGTGTCAGTTTCAGA
GAGGTAGCATGTGAGGGCGCAGGCCTCGGCCGAGGTGTGCTTTGCATTTAGGACACAGCCCGAGCCGCAGAAAG
GTCAGCAGGAGCACGTCTGGCACCTTCAGTACCAGGTGGGTGAGAGAGCCCGAGAGGGGGGGCGGGGGGGGCGAG
TCAGGGCCCTGCTTCGCTGCCTGGGCCCTTGTAGATGGCCTTCTCCAGGCCCTCCACCACCTCCCTGTATTCCAG
GAACGATTGGTAGTGTGTGCACTCAAAGCAGCTGCTCCCGCGCACGTGTGCTAGGAAGTCTGGCGCACCTGGGCA
GATCACGTTGTGACCCAGTAGCACTGTCCCCTTCCGACAGCAGGCCACATTCTGCAAACAGACCGGGGGGTGGGG
GAGGTGAGGGTCAGAGGTGCCCAGAGAACCTGCCCCAAACCAGGATGGGTGCTCCTCACTAGGCCACGGCACCAC
GCCTGTGCTTAGCCCTTGGGGCCAGGTTTCCACTTTCTGCCCAGCGTGACTCCTGCAGGAAAGGACTGTACAAGA
CTTGGGTGCCACCTTCAGAACATGGGGCCCCGTGAGGACAGGGACCTTTCTCTCATCAACTCCTGTATCCATCTCA
GGAGTATCCATCCCTTAGAACAGCATGTGGCACACAGTAGGTGCTCAATAAATGCTAGCTGGGTGAGTGGAACA
ATGGGGCCCTCAACACCCAGTGCCAGGAACCTCAGGCCTATGAGGGAGAGGCACCCAAGGAGAGGGGTTGCTGGTA
TGGTCCCTGGAGACAATATTGGCCTGACCAGGGTGACCCTGCAGGGCTGAGGTGGGGCAGACCTCCCATCAACA
GCCTGCCCTTGGGGTCAGTTCTGGACATCCCAAGCTCCTGCATTTGCAGACCCCCCATCTTACCAGTGCCTG
GGCCCTGGGAGGACACAGAGTTCTCTGCCTGGGTTCTGTGCAGAAGGAAGGAGTTGTTACTGGACACGCAGCCA
TAGGGCATGGCCCCGTGGGGTCCACTATCGGGAGAAACCTCATAGGATGCTTGCTATCTATGCTATCAGAAAAGG
GTTTGCTTACATCACATAAACAAGAAACCTTGAGAGGAAGTGTTTGCCTATGGGGAGGAAGGACCTACCAGGGCA
AGGGACACCCCACTACCTTGTCTTGAAATTTGACTTAGTACCAAACAAAAGTTAACAAGCAATCTCAAACAT
CTAAAGTATAATAAAATCAATTTGCAGGCAGGTGCCTTGAAACACTGGTATCCGACCCACATGCCTCTGGGATG
GGCCTGGAGAGTCCCACAGGGCTTGACGTGTCTGGTGGTGGGTGGCGGTCGTTTCCAGCCTGTATGCTGCAGA
GAAAGCAGGGGGCTTTTCATGTGACAGTATGGACACCACACGGCTGCAAGGTCAGTGAGGTGAGGGACAGCCCCA
AGGTCCGGAGTTGAGCAGGAAGTACCACCATGAATCATGATGTGTTTTTCATTTAGAAAAAATAAATGTCCTA
GCAATGTGAGCTGAAAAGACGTAGAACAAGCGCCACCCGGGAGGAGGACATGGCCTAGGCCTTGAGCAGGGCG
GCTGCCTTCCAGTCTGGGCCAGGGAATGCATGAGTGAGGGGCTGGGCTCCTGGACTTCTCGGGTTGCGCCAGGG
GACTCAGGAGCCCCAATCTGGTCATCAGGGATACAGAAGACGTGACGGGACTGAAAGACACCAGACCACTGCACCT
GCACGAGTTAAACAGGAAAGAAGGAGGGAAGGGCAGAAAGGAGCATGGGTACCTTTGGAGGCTGCCAGGGGCC
ACTCCTTTACGAAACTGGTCAAGAGGGGAAAGAAGGCAGCACCTGTCTGCCTGTGCCCCGACACTGCAAGCCTC
CTACCAGCTACTCAGACCACCTGGAGAACTGGCTAAACATGCATCAGCGTCTGAGCAGGACTGAAATCTAATGC
CATGGAGAAGCGACAGTGTCTCAGAGGAGCAGGTGACACTATGCTGAGGTGGTTTTCATCTGGCCCACCCTCCTTAG
ACTCTCCTCCCTTCAAGAGTTGGAGCCTCACAGAGGTGCAGGGAGCCAAGATCGCGCCACTGCACCTCCAGCCTG
GGCAACAGAGCGAGAGACTGTCTCGAGAAACAACAACAAAAGTTGGAGCCTCAGACCAAGCACACACCTGTACT
CCCAGCACTTTGGGAGGTTGAGGCAAGAGGATCGCTTGAGGCCAGGAGTTTGAGACCAGTCTGGGCAACATAGGG
AGACCCCATTTCTACAAAAATTTTAAATTAGC

3266/5332
FIGURE 2860

ACCTCGCGACCTGTGTGTCAGCAGAGCCGCCCTGCACCACCATGTGCATCATCTTCTTTAAGTTTGATCCTCGCCCT
GTTTCCAAAAACGCGTACAGGTAACCCCTCGCTCTGCATCTGCTGCGCCCTGCAGGGTCTTGGGTGCCCAGCCA
GTTCTCATGCCACCCAAGCTGCTGTGTGTCAGGAAGGTGTGTGGGCCAGGACGGGGCTGCACAGGCCTGGCACTGC
CCTCCAGGACAGGGTCACTCAGTGTGGGATGCTGTGAGAATGCCTCTCGGGGCGGGGACTCCAGTCAATGTACAA
AGACGTGAAGACTCAGCCACAGAAGGCAGCCACAGGCTCATCTTGGCAGCCAACAGGGATGAATTCTACAGCCGA
CCCTCCAAGTTAGCTGACTTCTGGGGGAACAACAACGAGATCCTCAGTGGGCTGGACATGGAGGAAGGCAAGGAA
GGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTGGCAGCACTACCAACTACCTGCAGCCGCAGCTGGAC
TGGCAGGCCCGAGGGCGAGGTGAACCTTGTACCCACTTCTGACCACTGACGTGGACAGCTTGTCTTACCTGAAG
AAGGTCTCTATGGAGGGCCATCTGTACAATGGCTTCAACCTCATAGCAGCCGACCTGAGCACAGCAAAGGGAGAC
GTCATTTGCTACTATGGGAACCGAGGGGAGCCTGATCCTATCGTTTTGACGCCAGGCACCTACGGGCTGAGCAAC
GCGCTGCTGGAGACTCCCTGGAGGAAGCTGTGCTTTGGGAAGCAGCTCTTCTTGGAGGCTGTGGAAACGGAGCCAG
GCGCTGCCCAAGGATGTGCTCATCGCCAGCCTCCTGGATGTGCTCAACAATGAAGAGGCGCAGCTGCCAGACCCG
GCCATCGAGGACCAGGGTGGGGAGTACGTGCAGCCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCCTGCCCT
GGCTACGGCACCAGAACCAACACTATCATCCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCATG
ATGGACAAGGACCTCTCCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGCTTAACCCACCTCTGGGCC
TGGCCAGTGGGCTCCTGGGGGGCCCTGCCTTGAGGGGCACTGTGGACAGGAAACCTTCCTTTGCCATACTGCATT
GCACTGCCCCGTGGCTTGGCCAGCATCCCCCGGATCAGGGCCCTGTGGTTTGCCTGTTACCCATCTGTGTCCCCAT
GCCCAGTTCAGGGTCTGCCTTTATGCCAGTGAGGAGCAGCAGAGTCTGATACTAGGTCTAGGACCGGCCGAGGTA
TACCATGAACATGTGGATACACCTGAGCCCACTCTTGACATGTACACAGGCACTCACATGGCACACACATACAC
TCCTGCGTGTGCACAAGCACACATGCAAGCCATATACATGGACACCGACACAGGCACATGTACGTGCACAGGT
GTGCTACACATGTGCACACATGCACAGTTGCACAGACACACACACAGGTGCACACACACGATGCCGAACAAGG
CAGAAGGGCGACTCTCACCTCTCATGTGCTTCTGGCCAGTAGGTCTTTGTTCTGGTCCAACGACAGGAGTAGGCT
CTCCTGCAGAGGAGACAGCCACATTGGAATTGGGCACCGAGAAGACCTGAGAAAAACCCACTCTCTTTTTTT
TTTTTTTGAGACGGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCC
GCCTCCCAAGTTCAAGCAATTCTCCTGCCCCAGCCTCCTGATTAGCTGGGATTACAGGCGTGTGCCACCATGCCC
AGCTAATTTTTGTGTTTTTAGTAGAGACGGGGTTTACCATGTTGGTCAAGGCTGGTCTTGAACCTCTGACGTGGT
GATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCTGGCCGAAAAACCCACTC
TCATAACAGAAGTGACAGACTCATTGCTAGATTAGTGCCCTTGAGTGTGCCAGAGGTCTCTGTGTTTGAGACAA
TCCTGTGTGTGCCAGGAGGCTCCGTGTGCACCAGGGGCTCTCAGAATCCCGCTTACCCAGCTGGAGACCATGCCT
CTGGCAGCCCCATCTCAGCCAGCCCTGCTCTCTCCCTCTCCCTCCAGGTGAGGCAAACTTCATAGGAATCTGTA
CCTGAATGTGAGCTCCTGATAATAAACTCTGAGGCTTTGGTGAGCGC

3267/5332
FIGURE 2861

GT TGCCAGAAGCCAGGATCATAGAGACGCTCGGCCCTCCGCCGACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGCCGGCGCGGGCCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGACCTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCAGGACGAGGTGGCCAGGCGGGCCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACC GGCTGGGCGATGAGTGAGAACCTCGACAACGAGGGGCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGCTACAGGGCCGGGGCCTCAGCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCTGGGGCGCTTTGGTCTGCAGCCCCACAAAACCAAACTCTTTGGGCAACCACCCCTGCGCC
TTTGTGACATTCCGCAGCGCTGCAGAGAGGACAAGGCCCTGCGCGTTTTCATGGTGCCCTCTGGAAAGGCCGC
CCACTCAGTGTGCGCTGGCCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCGAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCCTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACACAAGGCCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCACCCACGAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGGTGGATGGGGAGGATAACAÇCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCCAGGAGTTTATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACACGCGCCGCCACCAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCCCTGGAGCATGTG
GCTGGGGACCGGTGCTCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCCTTCTTCCAGGTG
AACACACCCGCGAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCCGGCACCATTTGGCCTGGCCCTGGCCCCGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA
TGCCCAGAGGCTGTGGAGGACGCCCCGGGTGAACGCCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGCCACCCCTGGTGAGCAGACTGGCCTCCAGCACCTCGTGCCATCCTGGACCCACCC
CGTGCTGGCTTGCAATTCGAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCTCAGGCGGCTGCTGTACGTCTCA
TGCAACCCCCGGGCAGCCATGGGCAACTTTGTGGACCTCTGCAGAGCCCCATCTAACCGGGTGAAGGGCATTCCC
TTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCGCCGAGACCCGCACTGTGAGATGCTCATCTGTTTGAG
AGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGCTCAACCCACACACAGGACCCCCA
GATAACACCCTACAAGAACTGGGACCTTCCCCCTCATCTAGGCCAGGACCCATTATGGGGACAGGAGCTGAAG
GGCTCCCAGGGCCCCAGGGGCGGGGAAGGCATGGCTTGTGGCCAGGATATTAGAGGTAGGCAGCCAAAGGGCA
CAGAACCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTGACCAGGAAGACAGGTGGGTTC
TG TAGCTGTGGCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGGGCCAGAATAAACA ACTGCTCAA
C

3268/5332
FIGURE 2862

CGAGGTTTCGGGTCGTGCGGCGGAGGGAAGAGCGGGCGGGCGGGAGGCGCCGGCGCCAGACGCGGAGGGAAGGAGC
TACGAGTAGCCGCCGAGAGGCCGCGGAGCCAGCGACGACCGACCCAGCCGAGCCGCCGCCGCCGCCGCCCCCA
TGGCGGCCGCCAAGGACACTCATGAGGACCATGATACTTCCACTGAGAATACAGACGAGTCCAACCATGACCCCTC
AGTTTGAGCCAATAGTTTCTCTTCCTGAGCAAGAAATTTAAACACTGGAAGAAGATGAAGAGGAACTTTTTAAAA
TGCGGGCAAACTGTTCCGATTGCTCTGAGAACGATCTCCAGAATGGAAGGAGCGAGGCACTGGTGACGTCA
AGCTCCTGAAGCACAAGGAGAAAGGGGCCATCCGCCTCCTCATGCGGAGGGACAAGACCCTGAAGATCTGTGCCA
ACCACTACATCAGCCGATGATGGAGCTGAAGCCCAACGCAGGTAGCGACCGTGCCTGGGTCTGGAACACCCACG
CTGACTTCGCCGACGAGTGCCCCAAGCCAGAGCTGCTGGCCATCCGCTTCCTGAATGCTGAGAATGCACAGAAAT
TCAAAACAAAGTTTGAAGAATGCAGGAAAGAGATCGAAGAGAGAGAAAAGAAAGCAGGATCAGGCAAAAATGATC
ATGCCGAAAAAGTGCGGAAAAGCTAGAAGCTCTCTCGGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAGAAGC
AATAAATCGTCTTATTTTATTTTCTTTTCCTCTCTTTCTTTCTTTTAAAAAATTTTACCCTGCCCTCTT
TTTCGGTTTGTTTTATTCTTTTCAATTTTACAAGGGACGTTATATAAAGAACTGAACTC

3269/5332
FIGURE 2863

GCGGCGGCGCGGCGCCAGGATGCCCCGCGAGCCCCGGGACGCGCCTCAAACCCGCCAAGTACATCCCGGTGGCCA
CGGCCGCGCGCTGCTGGTCCGGCTCCAGCACCTCTTCTTCGTGTTACGTGCCCCGTGGTTGACACGAGCTGTGT
CCCCAGCTGTTCCCGTCTACAATGGCATCATCTTCTCTTTGTCTGGCCAACTTCAGCATGGCCACTTTTCATGG
ACCCTGGTGTTTTTCCCCGAGCGGATGAGGATGAGGACAAGGAGGACGACTTCGGGGCTCCGCTGTACAAGAACG
TGGATGTGCGAGGTATCCAGGTCCGCATGAAGTGGTGTGCCACGTGCCACTTCTACCGCCCGCGCGCTGCTCCC
ACTGCAGCGTCTGTGACAACTGTGTAGAGGTGACTGGGAAGTTCGCGGGGGGTGTGAACCTTTACCCGAGGCT
GCTGTGGGAATGTGGAGCACGTGCTGTGTAGCCCCCTGGCGCCCCGGTACGTGGTGGAGCCACCCCGGCTGCCGC
TCGCGGTGAGTTTGAAGCCGCTTTCTTAGGCCTGAAGTCCAGGGCAGCTGCACCGCTCAAGGTCAAGCTTA
GTGACAACGGGCTGAAGGCTGGCCTGGGCCGTAGCAAGTCCAAGGGCAGCCTGGACCGGTGGATGAGAAGCCAC
TGGACTTGGGGCCACCCTGCCCCCAAGATAGAGGCTGGCACGTTTCAGCAGTGACCTGCAGACCCCGCGCCCAG
GCAGTGTGAGAGTGCCCTGTGCGTGCGAGAGGACGACCCCCGACACCTGCCATGTACAAGTTTAGGCCGGCTT
TCCCCACGGGTCCCAAGGTGCCCTTCTGTGGACCAGGCGAGCAGGTTCCAGGCCCTGATTCCCTGACCTTGGGGG
ACGACAGCATCCGTAGCCTGGACTTTGTGTCCGAGCCGAGCCTGGACCTCCCTGACTATGGGCCAGGGGGCCTGC
ATGCAGCCTACCCGCCATCCCCACCGCTCAGCGCCTCTGATGCCTTCTCGGGCGCTTTGCGCTCCCTGAGCCTCA
AGGCCTCGAGCCGGCGGGGCGGGGATCATGTGGCCCTGCAGCCCTGCGCTCTGAGGGGGGGCCCCCACGCCCC
ACCGTAGCATTTTTGCCCCCATGCACTGCCCAACCGCAACGGCAGCCTGTCTATGACAGCCTGCTCAATCCTG
GCTCGCCTGGTGGCCACGCCTGCCCTGCCACCCAGCAGTTGGCGTGGCCGATACCACTACCTACCTGCATC
CTGGGGCAACGGGCGACCCGCCACGGCCCTACCCCGCAGCTTCAGCCCCGTGCTGGGCCCCCGCCCCGGGAGC
CCTCGCCTGTGCGCTACGACAACCTGTCCAGGACCATCATGGCATCCATCCAGGAGCGCAAGGACAGGGAGGAGC
GTAGCGCCTGCTGCGCTCCCAGGCCGACTCACTCTTCGGCGACTCAGGCGTCTATGACGCTCCCAGCTCCTACA
GCCTGCAGCAGGCCAGTGTGCTGTCCGAGGGCCCCGAGGTCCCGCGCTGCGCTATGGCTCCAGAGACGACCTTG
TGGTGGGGCCCGCTTCGGTGGCGCCCGCAACCTGCCCTGCAGACGTCACTGTCTCGCTGTCCAGCTCCGTGA
GCCGTGCACCGCGGACGTCGTCTCTCTCCCTGCAGGCTGATCAGGCCAGCAGCAACGCCCCGGGGCCCCGGCCCA
GCAGTGGCTCACACAGGTACCTGCACGCCAGGGCCTGCCCTCCCCGGCGGCACTCCCCACTCACCATCCTACG
CGGGCCCCAAGCTGTGCTCTCATCCACAGGACCTCCAGAGCCACCGCCCTCGCTGACCGTGCAGAGGACC
ACCCTCAGCTGAAGACTCCCCAAGTAAGCTTAATGGGCAGTCCCCGGGCTGGCCCGGCTGGGACCTGCCACCG
GCCCCCAGGGCCCTCTGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCT
ACGAGATCTCGGTGTAGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACC
CCCCCTCCCCACCAACTTCTCTGCCCCAGGGACCCGAGGCCACCCAGCCTGGTGTGGACCCATCGGCGGGAGAG
AGTGCCACGCCTCCACAGCTTGCCCCAAGCGCTCTGCCTGCCCGTCCACTCATCTGCCATGGGGAAGTCGGCTC
ACTGGGACAAGGGCCACTGGGCTGGTCTGTGTCTGGGCTGTCCCATGGCTGGGGCAGTGAGGGGGCCAGTCAG
CCTCTTTGGGGACCCCTCTCTCAGCCAGGCTTGGCCCACTGCCATCACCAGCACCCAGATCACCGCCAGGCCA
GCCCCAATGGTCCCCTTACGGACAGGTCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTCTTCTGACA
CAGCCTGTGGGCTCCCGGACCGAGTGTCCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTCAGGACCCCG
CTGGAAGCTTGTAGCTTGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGGATAGGTGGACAGA
CGGCCAGCCAGCCAGCTGTGGCCGGGGGCGCGCTCCATGTGTCCCGTGTCTGTGTGCTGTGCTGCCGCGCCGTG
TCTGATGTGTGCTGCTCCGGCCCGCGCTGTCCCTTTCATCAAAGCCTTAACCTTTGCTTTATGCTCTTGTGGGA
GGCGACGGGGGGGCGAGGCGGGAGCAGGCACGGGGGTGATGCTGCCACAGGGGGCTGGTGACACCCAGAGCCCCCT
CCCCAGCCCTCAGGCCCTCCCTGCCAAACTGGAGAACCCACCCCAAGGCATGCCACGTCCGACGCCCCGGCCTG
GCTGCGGTGCTCGCGCGTGGGAAAGCACACTGGGGAGGGGTGAGTGCTTCCCTTGGTGTGAGGGACCTGAGAGT
AAGCACATGACAGCGCTGCTTGCCTGTGTCTGTTTTATGTTTTATATCTACATCTATATATCTATAATTTTA
TTAAAAAAGAAAAAG

3270/5332
FIGURE 2864

GTGTGGAGGAGGGAGCAGGCTGCCTGGGTGGTTGTGGGACGCGACTCCTCCTAAGCCCTGGACACACTTGCCCTC
CACCCCCGCCCTCGGGCATCCAGGCGCCGTTTTTTGAGATAGACGTGCCAGAGGGACCCAGCCCCATTGCAGT
GTTTCCTAGGCCCTGTGGGTGGAACCCCCACTGGGACCCCCCGGGGACTCCTGCAATGCGGGCTCTGTGTTCACT
GGAGTCCTGAGGAGGTACCTGCAGTCACCAAGTGTCCATTCCAGGAGGCCTTCAAGGAGCCGGCTGCTGGCATGGG
TGCTGTGGCTGCAGGCCTGGCAGGTGGCAGCCCCATGCCAGGTGCCTGCGTATGCTACAATGAGCCCAAGGTGA
CGACAAGCTGCCCCAGCAGGGCCTGCAGGCTGTGCCCGTGGGCATCCCTGCTGCCAGCCAGCGCATCTTCCTGC
ACGGCAACCGCATCTCGCATGTGCCAGCTGCCAGCTTCCTGCGCTGCCGCAACCTCACCATCCTGTGGCTGCACT
CGAATGTGCTGGCCCGAATTGATGCGGCTGCCTTCACTGGCCTGGCCCTCCTGGAGCAGCTGGACCTCAGCGATA
ATGCACAGCTCCGGTCTGTGGACCCCTGCCACATTCCACGGCCTGGGCCCGCTACACACGCTGCACCTGGACCGCT
GCGGCCTGCAGGAGCTGGGCCCGGGGCTGTTCCGCGGCTGGCTGCCCTGCAGTACCTCTACCTGCAGGACAACG
CGCTGCAGGCACTGCCTGATGACACCTTCCGCGACCTGGGCAACCTCACACACCTCTTCCTGCACGGCAACCGCA
TCTCCAGCGTGCCCGAGCGCGCCTTCCGTGGGCTGCACAGCCTCGACCGTCTCCTACTGCACCAGAACCGCGTGG
CCCATGTGCACCCGATGCCTTCCGTGACCTTGGCCGCTCATGACACTCTATCTGTTTGCCAACAATCTATCAG
CGCTGCCCACTGAGGCCCTGGCCCCCTGCGTGCCCTGCAGTACCTGAGGCTCAACGACAACCCCTGGGTGTGTG
ACTGCCGGGCACGCCCCACTCTGGGCCTGGCTGCAGAAGTTCGCGGCTCCTCCTCCGAGGTGCCCTGCAGCCTCC
CGCAACGCCTGGCTGGCCGTGACCTCAAACGCCTAGCTGCCAATGACCTGCAGGGCTGCGCTGTGGCCACCGGCC
CTTACCATCCCCTCTGGACCGGCAGGGCCACCGATGAGGAGCCGCTGGGGCTTCCCAAGTCTGCCAGCCAGATG
CCGCTGACAAGGCCTCAGTACTGGAGCCTGGAAGACCAGCTTCGGCAGGCAATGCGCTGAAGGGACGCGTGCCGC
CCGGTGACAGCCCGCCGGGCAACGGCTCTGGCCCACGGCACATCAATGACTACCCCTTGGGACTCTGCCTGGCT
CTGCTGAGCCCCCGCTCACTGCAGTGCAGCCCGAGGGCTCCGAGCCACAGGGTTCCCCACCTCGGGCCCTCGCC
GGAGGCCAGGCTGTTACGCAAGAACCACCCGACGCCACTGCCGTCTGGGCCAGGCAGGCAGCGGGGTGGCG
GGACTGGTGAAGCTCAGGCTGACCTACCCAGCCTCAGCTGCAGCCTACCCCCCTGGGCCTGGCGCTGG
TGCTGTGGACAGTGCTTGGGCCCTGCTGACCCCCAGCGGACACAAGAGCGTGCTCAGCAGCCAGGTGTGTGTACA
TACGGGGTCTCTCTCCACGCCGCCAAGCCAGCCGGGCGGCCGACCCGTGGGGCAGGCCAGGCCAGGTCTCTCCCTG
ATGGACGCCTGCCGCCCCGCCACCCCATCTCCACCCATCATGTTTACAGGGTTCGGCGGCAGCGTTTGTTCAG
AACGCCGCTCCACCCAGATCGCGGTATATAGAGATATGCATTTTATTTTACTTGTGTAAAAATATCGGACGAC
GTGGAATAAAGAGCTCTTTTCTT

3271/5332
FIGURE 2865

GGGACAATCGTAAAAGGGGCGGGACGCGCCGCGCTCGGGATGTCGTGAAGCTGGGGGAGCTCGTCGCCGCCGCCG
GCGGCTAGCGGGCGTCCGCGCCATGGAGCGCTACGCGGCCGCTTGGAGGAGGTGGCGGACGGTGCCGGCAGCA
GGAGCGACACTACCAGTTGCTGTGCGCGCTACAGAGCCTGGTGAAGGAGTTGCCAGCTCTTTCCAGCAGCGCCT
GTCCTACACCACGCTCAGCGACCTGGCCCTGGCGCTTCTCGACGGCACCGTGTTGAAATCGTGCAGGGGCTACT
GGAGATCCAGCACCTCACGAAAAGAGCCTGTACAACCAGCGCCTGCGCCTACAGAACGAGCACCGAGTGCTCAG
GCAGGCGCTGCGGCAGAAGCACCAGGAAGCCCAGCAGGCCTGCGGCCCCACAACCTGCCTGTGGTTCAGGCGGC
TCAGCAGCGAGAACTAGAGGCCGTGGAACACCGGATCCGTGAGGAGCAGCGGGCGATGGACCAGAAGATCATCCT
GGAGCTGGACCGGAAGGTGGCTGACCAGCAGAGCACACTGGAGAAGGCGGGGGTGGCTGGCTTCTACGTGACCAC
CAACCCACAGGAGCTGATGCTGCAGATGAACCTGCTGGAACCTCATCCGAAAGCTGCAGCAGAGGGGCTGCCGGGC
AGGGAATGCAGCCCTGGGACTGGGAGGTCCCTGGCAGTCGCCTGCTGCCAGTGTGACCAGAAAGGCAGCCCTGT
CCCACCATTAGCCACAGGCAGCAGAAGTCTGGGCAGAGTTCATCTTCTTGACCTTTGGCCACTGCCTTCCCAGCTG
CCCGCAGGGGTTCCCCCTGCTGAGGAGAGACCAGGTGGACCCAGCTGCCTGTACCCCTTCATCTGGGACTTGC
TGTCAAACCCTAGGATAGTCTCATAAAGGGGAGGCTGGGCCAGCCTGCTGCTGTCTGCTTCAGGACCAGGCAGAG
AGTGAGGCTGGGGGTTCTCACACCTTACTCCACCGGGCACATCCCAACCTGCACTGGGGCCCACCCGAGCGCTTG
TTCTGGTCTCAGCCGCTCCCTTGGCAGCTGCAGCCCCATGCAGAAGAGGCTCCCAGGCCCAAGCTCTGTGTGAC
CCAGAGAAATAAAGATGCCTCAGTGTGGCC

3272/5332
FIGURE 2866

CCCTTATAGGCCTGGTTGGTTTACACAACATTGGACAGACCTGCTGCCTTAACTCCTTGATTCAGGTGTTTGTAA
TGAATGTGGACTTCGCCAGGATATTGAAGAGGATCACGGTGCCAGGGGAGCTGACGAGCAGAGGAGAAGCGTCC
CTTTCCAGATGCTTCTGCTGCTGGAGAAGATGCAGGACAGCCGGCAGAAAGCAGTGTGGCCCCCTGGAGCTGGCCT
ACTGCCTGCAGAAGTACAACGTGCCCCTGTTTGTCCAACATGATGCTGCCCAACTGTACCTCAAACCTCTGGAACC
TGATTAAGGACCAGATCGCTGATGTGCACTTGGTGGAGAGACTGCAGGCCCTGTATATGATCCGGATGAAGGACT
CCTTGATTTGCCTTGACTGTGCCATGGAGAGTAGCAGAAACAGCAGCATGCTCACCTCCGACTTTCTTTTTTTG
ATGTGGACTCAAAGCCCCCTGAAGACACTGGAGGACGCCCTGCACTGCTTCTTCCAGCCCAGGGAGTTATCAAGCA
AAAGCAAATGCTTCTGTGAGAACTGTGGGAAGAAGACCCGTGGGAAACAGGTCTTGAAGCTGACCCATTGCCCC
AGACCTGACAATCCACCTCATGCGATTCTCCATCAGGAATTCACAGACGAGAAAGATCTGCCACTCCCTGTACT
TCCCCAGAGCTTGGATTTAGCCAGATCCTTCCAATGAAGCGAGAGTCTTGTGATGCTGAGGAGCAGTCTGGAG
GGCAGTATGAGCTTTTTGCTGTGATTGCGCACGTGGGAATGGCAGACTCCGGTCATTACTGTGTCTACATCCGGA
ATGCTGTGGATGGAAAATGGTTCTGCTTCAATGACTCCAATATTTGCTTGGTGTCTGGGAAGACATCCAGTGTA
CCTACGGAAATCCTAACTACCACTGGTTAAGAAAC

3273/5332
FIGURE 2867A

CCTTTTGTGGGAGTCCGGTCTGTCCACTTGCCGGTCCCTCAGACCGTCGGCGGTCTCTGTCCGCTTCGGGACCTG
TCCGCTGGTTCGCTCCGCGTCCGATGGCTCCTGGCCGCGGAACCTTAGGCCTGGCCCTGGTCTCCGAGCGCGGGT
CGCCGGGAGGAGCGTGTGGCGGGGGTGTGCCGGGGCGTGAGTGCCCGGAGCATGGGGCTGAGCCTGGTGTGGGGA
GTGGGTATCTGCGGAGCCGGCCTGAACCCACCTCAGCCGGGCGCGGGGAGGGGGCTCCGTGCGTGTGATCGTGC
AGCTGTGAGCGCGTGGCCGCCCCGCGGGGCTCCGCTGCAGGCCCTCAGCCCCAGGAGCAGTACTCGCTCTTCAG
GGCCTGCCCTGGATCCTGGAGGCTACACAGCTGCCCACTCCTCCTGGGGAGGCTGCCGTGGAGGCCATGGAGATC
CCTGCCCGGAGCCCGAGAAGACAGGTACAGCTTCACTCTTGTAGTCAGTATGTCTGTGGATTGCACTTGAGGA
TATTGACACTCAGAGAGATCAGGCCAGTTTCCAGAAAGCATCCAGCATCTTTTTTTTTTTTTTAAATGGAATCT
CACTCTGTACCCAGGCGGGAGTGGTGCAATGGCTTGATCTCCGCTCACTGCAACCTCTGCTTCCCGGGTTCAA
CTATTCTCCCGCTCAACCTCCCAAGTAGTTGGGATTGAGGCGCGGCCACCACGCCCGGCTAATGTTTGTATT
TTAGTAGAGACGGGGTTTTGCCATGTTTCCAGGCTGGTCTTAAGCTCAAGCGATCCGCCCGCTCGGCCCTCC
AAAGTGCTGGGATTACAGGCGTGAGCCATCGCTCCTGGCCTCCTGCTTCTTTCTTCCCCGCGCCCAATCAITTG
TCCCACTCAGACGTGCTTGATTGGGGGTAGCAGCTCTTTTCGTATGAATTGGAGTGTCTGAGACACAGGCAGAT
TATTCCTCGATGCTGTTTCTGTTGGTGCTAGCTACTGGGGCTCGTTCCCCACCTGGCCTTGCTGGCAGGTTCTGC
CTCCTCTCTGATTCTCACTTGTGCCACGACAGGTGGGCTTTAAGCTCAGCCGTGAGCCTGGTAGCCGTGACCTTG
ACTCATTTCTCCTTCGCCAGCTCTTTCTCTCAGGATCCTGCTCTTTCCCTGAAAGAGAATCTCGAGGATATATC
GGGTTGGGGTCTTCCGAAGCCAGGTCCAAGGAATCGGTGAGTTTCAAGGATGTGGCTGTGGACTTCACCCAGGA
GGAGTGGGGTCAACTAGACTCCCTCAGAGGGCCTTGACCGGGATGTGATGTTGGAGAACTACCAGAACCTTCT
TGCCCTAGGACCTCCACTGCACAAGCCAGATGTGATCTCTCATCTGGAACGAGGCGAGGAGCCATGGAGCATGCA
GAGGGAAGTCCCCAGAGGGCCCTGTCCAGAAATGGGAGCTGAAGGCGGTGCCCTCTCAACAGCAGGGCATTGCAA
AGAAGAACC GGCCAGGAGGCCCATCATGGAGCGGCCCTCGGCGGGCGCAGGCGTGGGGGCGCCAGGCAGGTGC
TCTGCAGAGGAGTCAAGCTGCGCCCTGGGCGCCCGCACCTGCCATGGTCTGGGACGTCCCTGTAGAGGAATCCC
CCTCAGGTGTCCCTCTTCGCCCAGCAACGCGTTCCCGAGGGGGGACCCCTTGCTGGACACACGCAAGAAGCTCCA
GGCCACTGAGGGCAGAACCAAGGCCCCCGCGAGACTGTGTGCAGGGGAAAACGCCTCCACGCCAAGTGAGCCAGA
AAAGTTCCCCCAGGTGCGCCGCGCAGCGCGGGGCGGGCGCCGGGAGGGCGAGTTCTGTGTGGCGGAGTGCGGGAA
GGCGTTCCGCCAGAGCTCCTCCCTCACGCTGCACCGGCGCTGGCACAGCCGGGAGAAGGCTTACAAGTGCATGA
ATGCGGCAAGGCCTTCACTGGAGCACCAACCTTCTGGAGCACCGGCGCATCCACACCGGCGAGAAGCCCTTCTT
CTGCGCGAGTGCGGGAAGGCCTTCACTGCCACTCGTCCCTCAACGTGCACCAGCGCATCCACACGGCGAGCG
GCCCTACAAGTGCAGCGCCTGCGAGAAGGCCTTCACTGTCAGCTCGCTGCTCAGCATGCACCTGCGGGTGCACAC
CGGCGAGAAGCCCTACCGGTGCGGCGAGTGCGGCAAGGCCTTCAACCAGCGTACACACCTCACACGCCACCACCG
CATCCACAGGGGCGAGAAGCCCTACAGTGCGGCTCCTGCGGCAAGGCCTTCACTGCCACTCATCCCTCACCGT
GCATGAGAAGATCCACAGCGGGGACAAGCCGTTCAAGTGACGCGACTGCGAGAAGGCCTTCAACAGCCGCTCGCG
CCTCACCTCCACCAGAGGACGCACACGGGCGAGAAGCCCTTCAAGTGCGCGACTGCGGGAAGGGCTTCAGCTG
CCACGCGTACCTGCTCGTGACCGGCGCATCCACAGCGGCGAGAAGCCCTTCAAGTGCAACGAGTGCGGCAAGC
CTTCAGCTCCCACGCCCTACCTCATCGTGACCGGCGCATCCACACAGGCGAGAAGCCCTTCACTGCAGCCAGTG
TTGGAAGGCCTTCACTGCCACTCGTCCCTCATCGTGACCAAGCGCATCCACACCGGTGAGAAGCCCTACAAGTG
CAGCGAGTGCGGCGAGCCCTTCAAGCCAGAACCTGTCTCATTAAACATCAGAAAATCCACTCCGGGGAGAAGTC
GTTTAAAGTGTGAGAAATGTGGGGAGATGTTCAACTGGAGCTCGCACCTCACTGAGCACCAGAGGCTGCACAGCGA
GGGGAAGCCCTTGGCCATCCAGTTCAACAAACACCTGCTCAGCACATACTACGTGCCTGGCAGCCTGCTGGGTGC
AGGGGATGCTGGACTGAGGGACGTGGATCCCATCGACGCGCTGGATGTGGCAAAGCTCTTGTGCGTGGTTCCCC
CAGAGCTGGCAGGAATTTCTCCCTGGGGAGCAAACCTCGAAACTAACATGATGTGCTTTGGTGTGAGTAGCTGCT
TTCTGAGCTACTCAACAAGGAAAGCACCTGGTCTCCTTGGCTCCTAGATCCAGACCCTTCTCCAGGTGTG
GGAGCCTTGCTTATCAACCCCATCAGGTCTGCATGCCAGGGTGCTCCTCTAGTTAAAGTCAGTCACCTCCCCA
GAAGGGCCCACTCCAGGAGGAGTGTGAGAGTCATTTGAGGTAGTCTTGCCACCTGTTTTCTTGTATGGCCCTG
GAAGTTGTTGACAAGGGGAAAGATCTTTCTTGCCAATAAAAAGAAGGGATATCGTTGGGTGCCATGGCTCACACC
TGTAATCTTAACTGTGGGAGGCCAAGGGAAGGGATCACTTGAGCCAGGAGTCTAGGACCAGCTGGACAAC
ATGGTGAGACCTCGTCTCTACAAAAAATGCAAAAATTAGCCAGATGTGGCGGCATGTCCCTGTGGTCCAGCTAC
TCAGGAGGCTGAGGTGGGAGGATCATTTGAGCCTAGGAGGTCAAGGCTGCAGTGAGCCATGATTACAGCACTGC

3274/5332
FIGURE 2867B

ACTGCAGCCTGGGTGACAAAGCAAGACCCTGTGTGAAATTAAAAGGAGGTATATCAACTGTTGTATCCTCGGACG
GGCTCCTGACACGGCTTTAATCAGGAGTTTCCTCCATAAACTATTATTTTCAGAATAATAATAAAACAAGAATTA
TGACTAGC

3275/5332
FIGURE 2868

CCCGCCTCCCGCCTCCCGCCTCCCTCCAGCTGCGAGTGCGGCCTCGGCTGGCGGGCGGCACCAGGCCACAGTTGTA
AGGGATCTTGTGGCTGTCAGGATGGCAGAGGAGCAGGAGTTACCCAGCTCTGCAAGTTGCCTGCACAGCCCTCA
CACCCACACTGCGTGAACAACACCTACCGCAGCGCACAGCACTCCAGGCTCTGCTCCGAGGGCTGCTGGCTCTC
CGGGACAGCGGAATCCTCTTCGATGTTGTGCTGGTGGTGGAGGGCAGACACATCGAGGCCCATCGCATCCTGCTG
GCTGCGTCTCTGCGATTACTTCAGAGGAATGTTTGTCTGGGGGATTGAAGGAGATGGAACAGGAAGAGGTCCTGATC
CACGGTGTGTCTTACAATGCTATGTGCCAAATCCTACATTTTCATATACACCTCCGAGCTGGAGCTCAGCCTGAGC
AATGTACAAGAGACACTGGTGGCTGCCAGCTTCAGATCCCAGAAATTATCCATTTCTGCTGTGATTTCCCTC
ATGTCCTGGGTGGACGAAGAGAACATTCTCGATGTCTACCGGTGGCAGAGCTGTTTGACTTGAGCCGCTGACT
GAGCAACTGGACACCTATATCCTCAAAAACCTTTGTGGCCTTCTCTCGGACTGACAAGTACCGCCAGCTTCCATTG
GAGAAGGTCTACTCCCTCCTCAGCAGCAATCGCCTGGAGGTCTCCTGCGAGACCGAGGTATATGAGGGGGCCCTT
CTCTACCATTATAGCCTGGAGCAGGTGCAGGCTGACCAGATCTCGCTGCACGAGCCCCAAAGCTCCTTGAGACA
GTGCGGTTTCCGCTGATGGAAGCTGAGGTCTGTCAGCGGCTGCATGACAAGCTGGACCCCAGCCCTTTGAGGGAC
ACAGTGGCCAGCGCCCTCATGTACCACCGGAACGAGAGCCTACAGCCCAGCCTGCAGAGCCCGCAAACGGAGCTG
CGGTCGGACTTCCAGTGCCTTGTGGGCTTCGGGGGCATTCACTCCACGCCGTCCACTGTCTCAGCGACCAGGCC
AAGTATCTAAACCCCTTACTGGGAGAGTGAAGCACTTCACTGCCTCCCTGGCCCCCGCATGTCCAACAGGGC
ATCGCGGTGCTCAACAACCTTCGTATACTTGATTGGAGGGGACAACAATGTCCAAGGATTTGAGCAGAGTCCCGA
TGCTGGAGGTATGACCCACGGCACAACCGCTGGTTCCAGATCCAGTCCCTGCAGCAGGAGCACGCCGACCTGTCC
GTGTGTGTTGTAGGCAGGTACATCTACGCTGTGGCGGGCCGTGACTACCACAATGACCTGAATGCTGTGGAGCGC
TACGACCCTGCCACCAACTCCTGGGCATACGTGGCCCCACTCAAGAGGGAGGTGTATGCCACGCAGGCGCGACG
CTGGAGGGGAAGATGTATATCACCTGCGGCCGAGAGGGGAGGATTACCTGAAAGAGACACACTGCTACGATCCA
GGCAGCAACACTTGGCACACACTGGCTGATGGGCCTGTGCGGCGCGCCTGGCACGGCATGGCAACCCCTCCTCAAC
AAGCTGTATGTGATCGGGGGCAGCTGGGGTTGGAGGATGAGAGCTCCTGAGGGGCAGAGGAGCAGAGATGCATCA
GCTCGCCTGGGACTGGCTCTGATATAAAAAGACCCCTCCCGCTGGGTTTTCAGACCCCATGTTGTTGGTCAATGA
AATAAAGCATCTTACAG

3276/5332
FIGURE 2869

AGCCTTTTCATCCACTATGGTTTACAATGCAGGGATCTGGTTGATGAAGCAAAGAAGTTTCATCTGAGGCCTGAAC
TTCAGAGTCAGATGCAGGGACCCAGGACAAGGGCTCGCCTAGGAGCCAATGAAGTGCTTTTGGTGGCTGGGGGCT
TCGGAAGCCAGCAGTCTCCCATCGATGCAGTAGAGAAATATGACCCCAAGACTCAGGAGTGGAGCTTTTGGCAA
GCATCACTTGTAAGAGATGTTATGTGGCCTCAGTGTCCCTACATGACCAGATCTACGTCATTGGTGGCTGTGATG
GTCGTTCCAGCCTTAGTTCACTGGAATGTCTAGACTACACAGCAGATGAGGATGGGGTCTGGTATTCTGTGGCCC
CTATGAATGTCTGATGAGGTCTTGCTGGAGCCACCACCCTGGGAGATTGATCTATGTCTCTGGAGGCTTTGATG
GAAGCAGGCGTCACACCAGTATGGAGCGGTATGATCCAAACATTGACCAGAGGAGCATGCTGGGAGATATGCAGA
CAGCCCGGAAGGTGCCGACTCGTAGTGGCCAGTGGAGTGATCCACTGTCTAGGAGGATATGACGGCTTGAATA
TCTTAAATTCAGTTGAGAAATATGACCCTCATAACAGGACACTGGACTAATGTTACACCAATGGCCACCAAGCGTT
CTGGATATGAAGGTAAGTCCCTGCTAAGTAGCATTGAATGTTACAACCCATCATCAACAGCTGGGGAAGTCGTGA
CATCCATGGGAACCCAGCGCTGTGATGCTGGTGTGTGTTCTCCACAAGAAGTGACCATTGTTGGAGCACCATC
CAGAGCTAGTGACCAGTCCAGTGGACAGTTAGTGGGAGAATCAAGAATCCTTTCTAGAATGTCTGTTTCTACTA
TGTGCACAGGGTGATTACAGGCACCAGTGCAGTGATGATTGTACTTATTTGACACATACTCCCCCTCGTCTGGT
TGTGTTCTCTGAGAAGGGTGGGTAAACAGATACTCCAGGGAAAAGAATGCACATTGAATGGATGTGAGAGACCACA
TTACCTCTCCCACTACTTTGGGGAGCACTTTCCCTGTCATTTCTAACTTACCACGTGCTTGGTGTACTATATGTAT
GTTGTGCCTCATATGTTGCAAAGAACTAAGGTGAGTATAGCCTACTAGATGTGAGCAATATCCAGCCTAGATGAT
TGGAAAGATACCAATTTAAGTAACTTGGTAAATCCAAGTCTTTTTTTTTTCCAGGAACAAATACATTTTCTAA
TCTACAGGTAGCTAGGGGCAACACAGTTCATTCTAAAGGGAAACAAAAGGGAGAGCCCCACAAAACCTTTGGGGG
CAAGGGAGAGATACTCATCTGACACTTCTTTTGGAGGTCAGGGTTTGTATATCAGAATTGAAGTTAGAATCAGTG
AATTAAACTGAATTTGATGGAATGTGAGTGAACCTAGAACAGCACTGAAGTATTACATAACCTGGAAGACTGAGA
AGGGTATATTCTTTGAATGATCTTTTTATTTCCCCAAGGTCTTTCACACTGGAGACAGCATAAAAGAGTGAACCA
ATGTTGGGATGAGAGAAGATGACATAAATGTGGGAGTTTCACTATAACTGGGGATAAACTAGAAGTACCTGTGATT
TTACAGTCATCTTATTGCCTGCCAGGGGTCACTAGCCATGGCAGTGTAACTTGAATGGGGGTGAAAGCCTTT
CTTTGTTGAATCAAATACTACTACACTATTACACTCCACACTATTTATTTGGGGATGGACTGGGAGTGACAGTA
GCCTAGTAGTTCACTACCTGATTACTGCCCCATTCTTTTAGAAGCACACTTCTGCCAAGGAGTGGTTGTACTG
CTGTGATTGGTACATTTAGTCTTTTTTCTGCTATAAGTTTTCCTTACCTGTCCTTTAGTGTAGATTTTATTTCATT
ACAGGACAGAATAATCAAGGACAACCAAAATCCTTTTGTAGTTTTCAGTACCTCAGCTATCAACATTTCTGAGCT
ATCATTCATGTTCCCTCTGTGTCATGGAGTGAAATTCCTGTTTTATGGGTATTGGGAGTGTGGGAATGTGATAAC
CTAAACAACCTTTGCTCTGAAATTCCATTTTCCCTCTTTCCCTGAAGTGTACTGACCTGTACTACAGAGTTAAT
TTCTTTTGTATTTTTTAAAGAAAATATTAAAAATCAATGGTCTC

3277/5332
FIGURE 2870

TTGGGCCTGGCTCTGTGACTGAGGCGGCGGGTGGCGGCCAAGCGGGATACGGGCGGCGGGAGCTGGGGAACAG
GCATGGACGTTTCCGGGCAAGAGACCGACTGGCGGAGACCGCCTTCCGGCAGAAGCTGGTCAAGTCAAAATCGAGG
ATGCCATGAGGAAAGCTGGTGTGGCACACAGTAAATCCAGCAAGGATATGGAGAGCCATGTTTTCTGAAGGCCA
AGACCCGGGACGAATACCTTTCTCTCGTGGCCAGGCTCATTATCCATTTTCGAGACATTTCATAACAAGAAATCTC
AAGCTTCCGTCACTGATCCTATGAATGCACTCCAGAGCCTGACTGGCGGACCTGCTGCGGGAGCCGTGGAATTG
GCATGCCCTCCTCGGGGCCCCGGGACAGTCTCTGGGCGGGATGGGTAGCCTTGGTGCCATGGGACAGCCAATGTCTC
TCTCAGGGCAGCCGCCTCCTGGGACCTCGGGGATGGCCCTCACAGCATGGCTGTCTGTCTACGGCAACTCCAC
AGACCCAGCTGCAGCTCCAGCAGGTGGCGCTGCAGCAGCAGCAGCAACAGCAGCAGTTCCAGCAGCAGCAGCAGG
CGGCGCTACAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGTTCCAGGCTCAGCAGAGTGCCATGCAGCAGCAGT
TCCAAGCAGTAGTGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCATCTAATTAAATTGCATC
ATCAAAATCAGCAACAGATACAGCAGCAGCAACAGCAGCTGCAGCGAATAGCACAGCTGCAGCTCCAACAACAGC
AACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGGCTTTCAGGCCAGCCACCAATTACAGCAGCCAC
CGATGCAGCAGCCACAGCCTCCGCCCTCCAGGCTCTGCCCCAGCAGCTGCAGCAGATGCATCACACACAGCACC
ACCAGCCGCCACCACAGCCCCAGCAGCCTCCAGTTGCTCAGAACCAACCATCACAACCTCCCGCCACAGTCGCAGA
CCCAGCCTTTGGTGTACAGGCGCAAGCTCTCCCTGGACAAATGTTGTATACCAACCACCACTGAAATTTGTCC
GAGCTCCGATGGTGGTGCAGCAGCCCCAGTGCAGCCCCAGGTGCAGCAGCAGCAGACAGCAGTACAGACAGCTC
AGGCTGCCAGATGGTGGCTCCCGAGTCCAGATGATACGGAAGCCTTGGCCCAAGGTGGGATGCACATAAGAG
CCCGGTTCCCGCTACCACCGCTGTGTCCGCCATCCCGTCAAGCTCCATCCCTTTGGGCAGACAGCCCATGGCAC
AGGTCAGCCAGAGCAGCCTCCCCATGCTGTCTCGCCGTACCGGGCCAGCAGGTGCAGACCCCGCAGTCGATGC
CCCCCTCCCCCAGCCGTCCCCCAGCCCCGCGCCAGCCAGCTCACAGCCCACTCCAACGTCAGCTCTGGCCCTG
CCCCATCTCCAGTAGCTTCTGCCCCAGCCCTCACCGCAGCCCTCCAGAGCCAGTGACGGCGCGGACCCAC
AGAACTTCACTGTCCCTCACCTGGACCTTTAAACACACCTGTGAACCCAGCTCTGTCTATGAGCCAGCTGGCT
CCAGCCAGGCTGAGGAGCAGCAGTACCTGGACAAGCTGAAGCAGCTGTGGAAGTACATCGAGCCCTGCGCCGCA
TGATCAACAAGATCGACAAGAAGACAGAAAAAGGACCTGAGTAAGATGAAGAGCCTTCTGGACATTCTGA
CAGACCCCTCGAAGCGGTGTCCCTGAAGACCTTGCAAAAGTGTGAGATCGCCCTGGAGAACTCAAGAATGACA
TGGCGGTGCCCACTCCCCACCGCCCCGGTGGCCACCGACCAACAGCAGTACCTATGCCAGCCGTCTCTGGATG
CCGCTCTGGCCAACTCCGCTACCTGTCTTCAACCATTCCTGTACCGCACATTGTTCCAGCCATGACCGCCA
TTCACGGGCCACCCATCACGGCCCCAGTGGTGTGACCCGGAAGCGCAGGCTTGAGGATGATGAGCGGCAGAGCA
TCCCCAGTGTGCTCCAGGTGAGGTGGCCAGGCTGGACCCCAAGTTCTGGTAAACCTGGACCTTCTCACTGCA
GCAACAATGGCACTGTCCACCTGATCTGCAAGCTGGATGACAAGGACCTCCCAAGTGTGCCACCACTGGAGCTCA
GTGTGCCCGCTGACTATCTGCCCAAAGCCGCTGTGGATAGACCGGCAGTGGCAGTACGACGCCAACCCTTCC
TCCAGTCGGTGCACCGCTGCATGACCTCCAGGCTGCTGCAGCTCCCGGACAAGCACTCGGTACCGCCTTGCTCA
ACACCTGGGCCAGAGCGTCCACCAGGCCTGCCTCTCAGCCGCCTAGCCAAGACTGCAGGGATGGCCCGCAGCCT
CATCGGGGCCAAGGACACACGCCTCCTGTCAGACACTTCTAGGTGTTGGCTTCTTAGAGAGCCTGGGGTTAGGT
TAGCTTTCTGCTTTTATCTTCTGCCTTGGGGACCTGCCAAACGAAATCCCACACCTGTACAGAACTGGGATAGG
CGCAGTGGAGCGGGTTGCTTGGGGGGCGTTGGCCGACTTCTTAGAGAAGGCCCTCCATGTGACTTCTCCCAGGA
GCCAGATGCATCCTCAGGCTGCTCTACCGTGGCCTGTCCACGGTCCAGGTCCATCTCAGCAGCGTGAGGGTGC
ACTCAGGTGTTGTTAGAGCGTCTCGTGTGTGCTAGACGCACCCCTACTCGTTCTATAGAACACAGAGGACATA
GGAAACCCTTAAACACACATGGGATTCTCTGGTCACAGTTTGGGTTTCAGGCTATGCTGCTTTGGGCAGGTGGA
GCACCCCCGAGGAAGCCTGCAAGTCCAGGGCACAGGCTGCCTTTTGGAGGGAGGGCTGGCCCATAGGTGCTGCT
GGCTCCCCGCCACAGCTGGGCCTCAGCCCTCACGGCATTCCTGCTGAGCACCCTGGGGCACCCAGGGAGCAGGG
GCGTCAGGGATCCTGCTGCCGGCACCCCTGTGCCGCTGGCATGAGGGCCGTGTCCCCACTGTGAAGGATGAAGAG
CAAGGCCCTCAGGACCCGTGTCTCAGAGCACCACTGAGCACCCAGAGACAGCGGCCCTGGCAGCGGGCCG
GGCCATGCAGGGAGCGCCTCCCTATGTTGCCTGCCACTCTGGGCACCGGCCAGCACCCCTCTGGTGAGAAGAGGTC
CCCCCTTTTATGTGCACTACCCACCATCTGTGATTATAATAAATTTATTATTCCTGTG

3278/5332
FIGURE 2871

ATTGAAAGAACTAACCTGCAGAAAAGGCTGCTGCCCTTCAAACCTGTGTACTGTTGTCTAAGCTAGTTCAGAAGAA
TACACGAGCTTCCTTCACATACTCCAATCTGTTGGTTTGACTTCTGAAGAACCAGCAGAGTTGGAAAGGCCTCGA
GATCTCTGTCTGGTGCTGGCCTGGGGCTCCCCTAGGTCTCGCCTGAAAGTGTCCCATTCACCACCAGTCTTCTA
CAATGTTATCCGGAATGGAACGAAGTACTACACCCACAAGTCCTGAAGGTACTGACCAAAACAGGAGGGAGAGAC
GGGACCGGGGCTGCTGTGACTGGAGGCTGATGGGGCTCCACCGTGCCCCATCCTCTCATCCCACAGTCTTCCTTC
ACATCTGCTCTGCCCACCACAGCCCTGCTCTGGAGTTCTCTGCTCTGCCACTTCTGCCATCCCCACCTAGGCAGA
CAGGTTTTATCCAGCCTCCAGGACGGCCCACTTGCTCCTGCAGCAGGCTGCTCTTCCCAGGTGCACAGCCC
AGAGAATTAAGTGATATATTTACCAGAAGACATGACCAAAGCCATTCTGGGGTTGCCTTCATGTAGCCAACAT
CTGGAACCTAACACCAAAGTTCATTAGGCACAAAATAAAAGAGTTATCTGGAA

3279/5332
FIGURE 2872

CTCCCGCCTCCACTGCAACATCATCTACGACTACTCCGGCTACGGTGCCAGCGCGGGCAGGCCTTCCGAGTGGAA
CCTCT**ATG**CCGACATCGACGCCGCTGGCAGGCCCTGCGCACCAGGTACGGCATCAGCCCGGACAGCATCATCCT
GTACGGGCAGAGCATCGGCACGGTGCCACCGTGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCA
CTCGCCGCTCACCTCGGGCATGCGCGTCGCCCTTCCCCGACACCAAGACCTACTGCTTCGACGCCTTCCCTAACAT
CGAGAAGGTGTCCAAGATCACGTGCCCCGTGCTCATCATCCACGGCATGGAGGACGAGG**TGAT**CGACTTCTCACA
CGGGCTGGCGCTCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACAT
CGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGCTGCCCAGCCAGCGCGCCTAGCG
GCGGGCCCCAACCGGCCGGACCTCAGCAATAAGGCGGGCCCCGGACCTCACCCGCGCCGGCCCCCAGGGGCTG
CATGTGGACCCCCGGCGGCCTAGGGGACCCTGCCCCGACCCAGGGGCTGTGGACGATGTACACAGTCAACAGAG
CTACGCACTCCTTTTCCTTTTGAAGCAAAAAGAAAATATGTGAAAACAGAAATTAAAGATTAAAAATTTAA

3280/5332
FIGURE 2873

TGGTTTCTAAATCTTATTCAGTGAGCACGTGTTCTTTTTTTAATTAGAGAAAACCTTGACAGTAGCCCCCTTTTTG
TGTTTCACAGAGGAGCTAACATTCCCTTCTGTACCTGTAGTTCTATGCGGGAGATGGCAGGGGCTGGCACATGACG
GTGGAGCAGAAATTTGGCCTGTTTTCTGTGAGATAAAGGAAGCAGACCCCTGGCTGCCTCGGAAGCAAGTCAA
CCCAAACCTGTCCCCCGAAGTGACCCCCACTACATCTGGATCGACTTCTGGTGACGCGTTTGAGATCGCC
AAGTACTGCAGCTCTGACCAAGTGGAGATCTTCTCCAGCCTGCTGCAGCGCTCCATGTCCCTGAACATCGGCGGG
GCCAAGGGGAGCATGAACCGGCACGTGGCGGCCATCGGGCCCCGCTTCAAGCTGCTGACCCTGGGGCTGTCCCTC
CTGCATGCCGATGTGGTTCCAAATGCAACCATCCGCAATGTGCTTCGCGAGAAGATCTACTCCACTGCCTTTGAC
TACTTCAGCTGTCCCCAAAGTTCCCTACTCAAGGAGAGAAGCGGCTGCGTGAAGACATAAGCATCATGATTAA
TTTTGGACCGCATGTTCTCAGATAAGAAGTACCTGACCGCCAGCCAGCTTGTTCCCCCAGATAATCAGGACACC
CGGAGCAACCTGGACATAACTGTGCGGCTCTCGGCAACAAGCCACCCAAGGCTGGATCAACACATACCCCTGTCC
AGCGGCATGTCCACCATCTCCAAGAAATCAGGCATGTCTAAGAAAACCAACCGGGGCTCCCAGCTGCACAAATAC
TACATGAAGCGCAGGACGCTGCTGCTGTCCCTGCTGGCCACTGAGATCGAGCGTCTCATCACATGGTACAACCCG
CTGTGACCCCCGAACTGGAAGTAGACCAGGCCGAGAGAACAGCGTGGCCAAGTGGAGATCTAAGTACATCAGC
CTGAGTGAGAAGCAGTGAAGGACAACGTGAACCTCGCCTGGAGCATCTCTCCCTACCTAGCCGTGCAGCTGCCT
GCCAGGTTTAAGAACACAGAAGCCATTGGGAACGAAGTGACCCGTCTCGTTGCGTTGGACCCGGGAGCCGTTAGT
GATGTGCTGAAGCAATCAAGTTCCCTGGTCACCTGGCACACCATCGACGCCGATGCTCCAGAGCTCAGCCATGTG
CTGTGCTGGGCGCCACGACCCACCCACAGGCCTCTCCTACTTCTCCAGCATGTACCCGCGGCACCCCTCTCAGC
GCGCAGTACGGGGTGAAAGTCTGCGGTCTTCCCTCCCGACGCCATCCTCTTCTACATCCCCCAGATTGTGCAG
GCCCTCAGGTACGACAAGATGGGCTATGTGCGGGAGTATATTCTGTGGGCAGCGTCTAAATCCCAGCTTCTGGCA
CACCAGTTTCTGGAACATGAAGACTAACATTTATCTAGATGAAGAGGGCCACCAGAAAGACCCTGACATCGGC
GACCTCCTGGATCAGTTGGTAGAGGAGATCACAGGCTCCTTGTCGCGGCCAGCGAAGGACTTTTACCAGCGGGAG
TTTGATTCTTTAACAAGATCACCAACGTGTCGGCTATCATCAAGCCCTACCTTAAAGGCGACGAGAGAAAGAAG
GCTTGTCTGTGCGGCCCTGTCTGAAGTGAAGGTGCGACCGGGCTGTACCTGCCAGCAACCCTGAGGCCATTGTG
CTGGACATCGACTACAAGTCTGGGACCCCGATGCGAGTGTGCAAAAGCCCCATATCTGGCCAAGTTCAAGTG
AAGCGATGTGGAGTTAGTGAACCTGAAAAAGAAGGTCTGCGGTGCCGTGCACTCCGAGGATGAGTGCAGCACG
CAGGAGGCCGACGGCCAGAAGATCTCCTGGCAGGCAGCCATCTTCAAGGTGGGAGACGACTGCCGGCAGGACATG
CTGGCCCTGCAGATCATCGACCTCTTCAAGAACATCTTCCAGCTGGTGGCCTGGACCTCTTTGTTTTTCCCTAC
CGCGTGGTGGCCACTGCCCCTGGGTGCGGGGTGATCGAGTGCATCCCCGACTGCACCTCCCGGGACAGCTGGGC
CGCCAGACAGACTTCCGGCATGTACGACTACTTCACACGCCAGTACGGGGATGAGTCCACTCTGGCCTTCCAGCAG
GCCCGTACAACCTTATCCGAAGCATGGCCGCCTACAGCCTCCTGCTGTTCTCTGCTGCAGATCAAGGACAGACAC
AACGGCAACATTATGCTGGACAAGAAGGGTCATATCATCCACATCGACTTTGGCTTCATGTTTGAAGCTCGCCG
GGCGGCAATCTCGGCTGGGAACCCGACATCAAGCTGACGGATGAGATGGTGTATCATGGGGGGCAAGATGGAG
GCCACACCCCTTCAAGTGGTTTATGGAGATGTGTGTCCGAGGCTACCTGGCTGTGCGGCCCTACATGGACGCGGT
GTCTCCCTGGTCACTCTCATGTTGGACACGGGCCTGCCCTGTTTTCGCGGCCAGACAATCAAGCTCTTGAAGCAC
AGGTTTAGCCCCAACATGACTGAGCGGAGGCTGCAATTTTCATCATGAAGGTTCATCCAGAGCTGCTTCCTCAGC
AACAGGAGCCGGACCTACGACATGATCCAGTACTATCAGAATGACATCCCTACTGAGGAGGGGACCTTCGAGGG
CCTCTGCCCCATGTGCCCTCAAAGCTGTCCACAATCATGGAGCCCTGGCAGCTCCCTGCCCTGCCGCCACATGC
AGTGGAGGAGAGGCTGTGGCCCCAAAGAACCTGGTAGCGCTCCTGGGGCAGCACGTGGGTGGCGCAGCCTTGGT
AACGCCATGGACTGCAGCGACAATCAATGGATGGTGTCTATGCACAGGTGTGAGTCTCTGTTTGACTGGA
CATATTCCTACCTGTCTTATTTTCATAGGTACATGAAGTATTGTGTATAAAAAAAGAGATAAGATTAAACCAACA
TCAACAAAATAAAAAACCAAAATAGT

3281/5332
FIGURE 2874

AGCTTTAGCTCCGCCAAATGAAACACTCATTAAACGCACTTCTCATTTTCCTCATCATAACATCTGCGTGGGGT
GGGAGCAAAGGCCCGCTGGATCAGCTAGAGAAAGGAGGGGAAACTGCTCAGTCTGCAGATCCCCAGTGGGAGCAG
TTAAATAACAAAAACCTGAGCATGCCCTCTTCTCCCTGCCGACTTCCCCAAGGAAAAACCCGTACCAACGACTGG
ATTCCAGAGGGGGAGGAGGACGACGACTATCTGGACCTGGAGAAAGATATTCACTGAAGACGACGACTACATCGAC
ATCGTCGACAGTCTGTCACTTTCCCCGACAGACTCTGATGTGAGTGCTGGGAACATCCTCCAGCTTTTTCATGGC
AAGAGCCGGATCCAGCGTCTTAACATCCTCAACGCCAAGTTCGCTTTCAACCTCTACCGAGTGCTGAAAGACCAG
GTCAACACTTTTCGATAACATCTTCATAGCACCCGTTGGCATTCTACTGCGATGGGTATGATTTCCCTTAGGTCTG
AAGGGAGAGACCCATGAACAAGTGCACTCGATTTTGCAATTTAAAGACTTTGTTAATGCCAGCAGCAAGTATGAA
ATCACGACCATTTCATAATCTCTTCCGTAAGCTGACTCATCGCCTCTTCAGGAGGAATTTTGGGTACACACTGCGG
TCAGTCAATGACCTTTATATCCAGAAGCAGTTTCCAATCCTGCTTGACTTCAAACTAAAGTAAGAGAGTATTAC
TTTGCTGAGGCCCGAGATAGCTTCTCAGACCCTGCCTTCATATCAAAAACCAACAACCACATCATGAAGCTC
ACCAAGGGCCTCATAAAAGATGCTCTGGAGAATATAGACCCTGCTACCCAGATGATGATTCTCAACTGCATCTAC
TTCAAAGGATCCTGGGTGAATAAATTCCAGTGGAATGACACACAACCACAACCTCCGGCTGAATGAGAGAGAG
GTAGTTAAGGTTTCCATGATGCAGACCAAGGGGAACCTCCTCGCAGCAAATGACCAGGAGCTGGACTGCGACATC
CTCCAGCTGGAATACGTGGGGGGCATCAGCATGCTAATTGTGGTCCACACAAGATGTCTGGGATGAAGACCCCTC
GAAGCGCAACTGACACCCCGGGTGGTGGAGAGATGGCAAAAAGCATGACAAACAGAAGCTCGAGAAGTGCTTCTG
CCGAAATTCAGCTGGAGAAGAACTACAATCTAGTGGAGTCCCTGAAGTTGATGGGGATCAGGATGCTGTTTGAC
AAAAATGGCAACATGGCAGGCATCTCAGACCAAGGATCGCCATCGACCTGTTCAAGCACCAAGGCACGATCACA
GTGAACGAGGAAGGCACCCAAGCCACCCTGTGACCACGGTGGGGTTCATGCCGCTGTCCACCCAAGTCCGCTTC
ACTGTGACCGCCCTTTCTTTTCTCATCTACGAGCACCGCACCAGCTGCCTGCTCTTCATGGGAAGAGTGGCC
AACCCAGCAGGTCTTAGAGGTGGAGGTCTAGGTGTCTGAAGTGCCTTGGGGGCACCCCTCATTTTGTTCATTTC
CAACAACGAGAACAGAGATGTTTTGGCATCATTTACGTAGTTTACGCTACCAATCTGAATTCGAGGCCCATATGA
GAGGAGCTTAGAAACGACCAAGAAGAGAGGCTTGTGGGAATCAATTCTGCACAATAGCCCATGCTGTAAAGCTCAT
AGAAAGTCACTGTAAGTGTAGTGTCTGCTGTTACCTAGAGGGTCTCACCTCCCCACTCTTCACAGCAAACCTGA
GCAGCGCGTCTAAGCACCTCCCGCTCCGGTGACCCCATCCTTGACACACCTGACTCTGTCACTCAAGCCTTTCTC
CACCAGGCCCTCATCTGAATAACAAGCACAGAAATGAGTGGTGTGACTAATTCCTTACCTCTCCCAAGGAGGGT
ACACAACCTAGCACCATTTCTGATGTCCAGGGAAGAAGCCACCTCAAGACATATGAGGGGTGCCCTGGGCTAATGT
TAGGGCTTAATTTCTCAAAGCCTGACCTTTCAAATCCATGATGAATGCCATCAGTCCCTCCTGCTGTTGCCTCC
CTGTGACCTGGAGGACAGTGTGTGCCATGTCTCCATACTAGAGATAAATAAATGTAGCCACATTTACTGTG

3282/5332
FIGURE 2875

GGAGTTTCGCGCGACGACCGCGGGGTCGGCGGGCGGGGCGAGGCCCTGGACGGCGGGCGGAGTGGGGCTCCTCCTT
CTGTTTCCCAGACCGAGAGCCGCGCCGGCACCATGTCAGCTTACCCTAAAAGCTACAATCCGTTTCGACGACGACG
GGGAGGACGAAGGCGCCCGGCCCGCCCTTGGAGGGACGCCCCGAGACCTCCCCGACGGGCCCCGACGCGCCCGCGG
ACAGGCAGCAGTACTTGGCGGAGGAGGTCCCTCCGACGGGCTGAGGCCACGGCCGCCAGCACCAGCAGGTCCCTGG
CCCTCATGTACGAGTCCGAGAAGGTTGGGGTCGCCTCTTCCGAGGAGCTCGCCCGTCAGCGAGGAGTCCCTGGAGC
GCACAGAGAAGATGGTGGACAAGATGGACCAAGATTTGAAGATCAGCCAGAAACACATCAATAGCATTAAAGAGCG
TGTTTGGGGGGCTGGTCAATTACTTCAAATCCAAACCAGTAGAGACCCACCTGAACAGAATGGCACCCCTCACCT
CCCAGCCCCAACACAGATTGAAAGAAGCTATAAGTACAAGTAAAGAACAGGAAGCAAAGTACCAGGCCAGCCACC
CAAACCTTAGAAAGCTGGATGATACAGACCCCTGTCCCCAGAGGGGCTGGTTCTGCCATGAGTACTGATGCTTACC
CAAAGAACCCACACCTTCGAGCCTATCACCAGAAGATCGACAGCAACCTAGATGAGCTGTCCATGGGACTGGGTG
GTCTGAAGGACATAGCCCTGGGGATGCAGACAGAAATTGAGGAGCAAGATGACATTCTTGACCGGCTGACAACCA
AAGTGGACAAGTTAGATGTCAACATAAAAAGCACAGAAAGAAAAGTTTCGACAACCTCTGAAGACAGACGGATTTC
ACTCTATTGTGATGAAAAGATTGAAAGATCTTTTTTTGAACCTCCAAGAAATTTTCACTTACTATTTTAGTATGT
AAATTAATGTGTGTTTGCAAATGTTATAATAGAGTAGGTCTTAAGACATTTTTGCTGTTATAAGGAAGTGTGTGT
CCCACATTTTCTAGGGTTAACACCTCACCAAGTCTTCCAGCAAAATGCTTATTAGAGTTTTTGTCTGAGCACA
GTAGCCTGGCCCTGCATATCTTGGGCGTTTGATTACCATGCTGGAATAAGAAGAGTTGCATTTCTCATTTTAAATG
AGCATATGGAAGATGGGAACAGAATTTCACTCTTGACGCCATGAGCCCTCTATTTCTCATTCCTAAGCCTTACCA
TGAGTCAGAGTGTTAAGGGGGCCTGTGAGCCAGTCGTTTGGTGGAGGAGGGTCTTCCCACACCTTTGTTTAGGA
GTCATCATTACACACACACACACACACACACACACACACACTCTGAGCACATTATCTGTGATTCTT
TCATCCTCCCAGAAAGGATCAGTGTTAGAAATGGGAAATAGAGTGTGCCATCTTGCTCTTTTGTGGCAGATGTC
CCGCTTCCCTCCAGCCCCCATCTTGGCATGTATATTAGTAGGAGGGCTTCACACCAGCACTGCTCACTGCGAG
TCCTGGAAATGTGTGGGGAATTGGGTGAGCCCCCTTCCCCACGTGCTCCCATCTGTAACCTCTCCATCTGTGATT
TGCAACAGGTCTTCCACTGGCTCGAGGCTGCGAGGCTGACCGACAGGGGCGCCCAATAGAGTTTGTGGGAATGGA
GTATTGCACAGATGCAGCTGCACAATGGTCTTCTCCACCCCTCTGGGAATCACCATTAGGCAGGCCTCAGTAGG
GCAAAATGTTTATTTGGTACCGGGGGTCTCCTGACCTGTCTAGCATTCCCACCCACTCTTCTGCACCTTCTTGCAA
GGTAACCTTGAATCATCCTTATTTCTCTGCCACCTGGTTTTAGGACTGGCACTCTATAAATGACGCTGACTTTGT
ATAGAAGGATTTTGTCTAAGGGGGCAAAAAGCCAGATACCATTTTAACTGGCCCAGCTCATTTTCTCCTTTTCACT
TTACAAAAGAAATCATGCAGAAGCATCAATTAATACTGATTTATTTATGTTGGTACATCCAACAAAATAGTTGGA
GCCACAAGGCCCTTGTCTTTTAAAAAACAATAATTTTGAAGATGGTGAAAGTGAAGTACTGATTTTAAATAGGA
TAGGTCACTTAAATAACAGTGCCTTTGACCTTAAACATGGCACTGGCCCATGTGACCTTTGCCATTTCCAGT
ACTTCCCTTTACAGTCTGCAGCCTATAAACAGTGGTGTCTCAAAGCAAAGGAAACCTCCACAAGTGTGCAACAG
TGCATTAGTTTTTATGTAGCAATTTGTTTATAAAAATTTCCATCCCATATGCATGACCTTCTTAAAAATACCCA
CAGCTCCATAGGCAAGGTGAGCTTTCTGTGCTACCCACTGGTTAGATTCCAGCCACCTCAGGGATTCTGATCCA
TGTCAATTAACGACCATCCCAGGGTGTGAGGGCTGATTAAAGCTTATCGAACTAGACATTTGTTTATTAGATGAG
CTCGGCATTATTATTTTCTCAATAACTGGTAGAAGGGAAATTTTAAACATAACACTCAACCCAAACAAAATACT
TCGTGAGGCTTTCAGCAAAAAGGCTGCTTAAAGCATGAACCCGGGATGCAGAGCAGCTTTTGTGCACGGTTCCA
CTTACTGTAATTGTTTCTGGTTCTTTCTCTAACACCTTCCATGTATGTCAACTTTTATCACCGTCAGGCATAG
ACTCGTGGAGATTAGTCATTATAGCTCAGACCTAAGCTAATTATTTAAATAAATACATGTAAAGGCCACTGCCA
CATTCTCAGCAGA

3283/5332
FIGURE 2876

CGGAGGGGGAGGTGGCTGCCGCTTCTCCCGCTCCGCCATTTTGTGCTGTGGCTATTGGGAACAAGCTGGGCAA
AAGCACCCCGGAGGCGCGACGCTCCTTCGAGTTCGGTGCCTCGTGTGACGGCGGGGGTTCGGTGAAGACCCGTCGA
GCTGCGGCGCCGGCGCGTTCCAGGCCGGGAGTCACTGGAGGCACCCCTGGGACGCCGAGCAGCCCCGAGAACCCCG
GGGTGGCCTCCGCTGCGGCTCGGGTTTGCTGCCCGACCCCGGCTCTGCCGTGCATTCCCGGGCGGCTCTCT
CCGTGTGGCGGCCCCGGAGCAGGCGGGCGGCGTCCGAGGATGCTGCGGGCCCCGAGCCGAGAGGAAAGTGTGGC
CCAGCCCTCTGAGCGCTCCTCGAGGTGTGCGAGAGGCCCTTCCCTCGGCCCCAAAGCCGTCTGCCGGGCTAAGGCG
TGCAGAGCAGGCGAGGACAGCCGCCGCCCTACCGCCGAGAGTCCCCGGTCCAACACCAATGTCTCCGCCAGGT
TCGACTCCTCGGACCGCTCCGCTTGGTATATGGGGCCGGTGTCTCGCCAGGAGGCGCAGACCCGGCTCCAGGGCC
AGCGCCACGGTATGTTCCCTCGTCCGCGATTCTTCCACCTGCCCTGGGGACTATGTGCTGTCCGTGTCCGAGA
CGCGGGTCTCCCACTACATCAACTCGCTGCCCAACCGCCGTTTTAAGATCGGGGACCAGGAATTTGACCATT
TGCCGGCCCTGCTGGAGTTTTACAAGATCCACTACCTGGACACCACCACCTCATCGAGCCTGCGCCAGGTATC
CAAGCCCACCAATGGGATCTGTCTCAGCACCCAACTGCCTACAGCAGAAGATAACCTGGAATATGTACGGACTC
TGTATGATTTTCTGGGAATGATGCCGAAGACCTGCCCTTTAAAAAGGGTGAGATCCTAGTGATAATAGAGAAGC
CTGAAGAACAGTGGTGGAGTGCCCGGAACAAGGATGGCCGGGTGGGATGATTCTGTCCCTTATGTCGAAAAGC
TTGTGAGATCCTCACCACACGAAAGCATGGAAATAGGAATTCCAACAGTTATGGGATCCCAGAACCTGCTCATG
CATACGCTCAACCTCAGACCACAACCTCCTCTACCTGCAGTTTCCGGTTCTCCTGGGGCAGCAATCACCCCTTTGC
CATCCACACAGAATGGACCTGTCTTTGCCAAAGCAATCCAGAAAAGAGTACCCTGTGCTTATGACAAGACTGCCT
TGGCATTAGAGGTTGGTGACATCGTGAAAGTCACAAGGATGAATATAAATGGCCAGTGGGAAGGCGAAGTGAACG
GGCGCAAAGGGCTTTTCCCTTTACGCACGTCAAAATCTTTGACCCTCAAAACCCAGATGAAAACGAGTGAATTGC
TGTGCCCTGTTTCTGTGCTTTGTTGTTCTGCCTGTCTAGTCTCCTTTGAAGTGGGAAAGCATTTTCTCTCA
TAGGCAAGTCACACTGCATTGCCGAAGTCCAGCTTTCTGCAGACTGGCAGTCGCACACACATTGGAATGCACAC
AGCGGCTGCCTCCTGATGTTGTATCATAGTCGTATTGTCAAAGAGTAGCCGATTTTAGAGTTCTTTGGATCAT
AAACTGGAAATACTGATGGAAGCACACAAGTGGAGAGAAGTTGACATGGAAAGGGTCTTCCTTCTCATTGCTGCC
CGTTTGTACATGGGACTGATTCTGTTGTGTTACCAGAGAAAGCTTGAGGCCATGGCGAGATACTGCATGTTTGC
TGTTCCACAAAGCAGTGGCTTAGCTGCCATCTTGCTTTTCTTTGGACAACAGGAAGTGAACCTTAAGGAAGAGAG
AATTC

3284/5332
FIGURE 2877

AACAGGTTAAGTAGCAGGTTGGGTTTTATGATAGTGCAAGGAATGACTCATGCCTCTGAGCTTCTAACTGAAG
CTGCTGTAACATAAGGAATCTGAAAAGAACCAACCTGAAGCAGAGGCCTTTATTGTCTTGGTTGCCAGTAGTACC
TTGTTTTGCCATGTAGCAGACAACACACAAAATAATGCAGTTTGGTGTGCCATGCTATGTGCACAGCCCCTTGG
ATTACTTTGTTTTAAAAAGCATCAGAGTTGGGGGTACTTTAGGGAAACCTTTGCTTACCTTGTTTTGCCAGTGAT
AAGAGCAGTGGGTTGGAGGGCACTTGGCCAGTTTTCTGTTCAGCTTTTCAGTGAATGTACCCCTTTAAGGTTTCAG
ACTTAACTTCCTTAAAAAGTGGCGTTGTTCATAGAATCGTTGGACTCATTAAATGAATCGTTCAACTCCACTCAC
TGAAGCCCAGACCTCCGTGCCAGGCCAATCTCGTCAGGCTGCCAGAGAAAGTTGGTGTGCTCATACTGGTCT
CACAGTCTAAGTAAGTGTCTGTGATGCTCCCAAGCAAGGAAATGCAAGCTCTGGAAATTCGTTAATGTATTTGA
TGTCTTAGTGTTTTAGTGACTAGGGAGACCATTAACTAGTTTATCATTAAACCACTTATCAGTGTATTGATGTTAA
AGCATTTCCCTGTTAGCTAAAAGAGGCCTGTTACATAAGCCAACCTGGTATATACGTGTGGTTTCATCCATCATCT
GCTGCACATAGCAGACTAGAATTCTGGGAACCCCTGTGCAATTCAGTCTGCTCTCCCTTGTTGGACCCTGGTAAAGA
AAAGCCTCAGCTCATAGTGAACACAGCAGACCTAGAAATGTAGCAGCAGCCTACTGAGTAGCTTTTCACTTACTGA
TCATCTGCTGTGACTGTGGCCCTGTCTGGAGGTTCTTAGGTTTTGAGATTTAGAGCAATGCATTCTGGAGACAGA
ACCAGCAGAACAGCCATTTTTCAATTTTTCTTTAAATCAGTATCCATCAGGCAGATAACTGCTGTATTATGAA
TCTTGAGAGTGTCTTGAGACAGAATTAATGGTCATTTGGGAAAACCTATCGCCATGGCTTCCCATCTGTGGTTTT
CCTCTAAAAGCCTTGAGATTAGCCCTTCTTGGCAGTGAGAACGGTGACCGCCTCCTGCTCTGCACGGTCTGCG
GCAGTTGCCGCTTCTGGTTAGGTGTGTCAGGTTGGCTTATTTGGGTTTCAGGCCTGGCGTAGCACCCACAAGTGG
CAGACATATCACAAGAGTCCCCAGACTCTGCCTAGAAACAGTGTTTGGCCCTTTGGCCAGTGACGTGGTTTCATCCC
GGCCCATGTTTAGCCATGAGTGGAGTTTCCAACAGAGGGAGGAATGTGTGCCTTGTTCAAGGAGGGCACGACCTT
TAGGCCTTTTTCAACCAGATTTAGCTGAAGGGCTTGACACCTTTGAATTACAGCAGTTGACTCAGAGTGCAAGAA
GTCTGGCCATTTTGGAAAGCAAGGTTTCCTTTAGCCCTGTCTACTGACCAATACCCCGACTCACCTTGTTGGC
GCACTTCAGATCAGATATACCTAGAGTATACCTGTGGTTTGGTTTTATAATTAATCAGCTCGTTACTTCAGCCC
ATGAAAATGGCATCCAGGGCTGCCAGGAGATTAGAGCTCAAAACAAGGCGAGCTTGAGTTCTGCACTCCAGATA
TGTGCCAAAACTAGTAAAACCTAACGGACTTACAACCTTGTGAGTTTTTTAATGAGGCAGGGATACCTGTTTT
TCACACTAAACATATGAATGCAGCACTGCTGCCTCAGCTCAGCTTCGTGCCTGGGTTCCTTACTGCTACTTGCTGCTCTA
CCATGTTTTAAAGAAATATTTGGATGTTAAATTAACCTACTATGGTTTTTACCTGGGAAGGAAACAAATTACGTA
CTAGAGGGCATTTGACTGGTTAAAAACTTGTGTATCCCGGAAGGACCTGCGGTACAGGAGTCAGCCATGTCTGTG
CTGTGTGGAACCACTGATGACATGGTTAACGAGGAAGACGATGTGTTGACCGGCTGCCGTTTGAGGACTTTGGT
CACCCAGACTAGACACCTTCTGTGCTCATGTTTGGAAAGCTGAAAGGGAAGGACAGCTGTGCCCTCCTGGGAGCT
CATGTGTCCCTGGCGCTGTGCTAGCTTTCCTTTACAGCTGTTTACAGACAAGGCAGGCCTGAGGCAGATGGCCAC
TGCTCTTGTGATGTTTGCTCAGAGGAATATGAACATTTTATTTTGAAGGGATGATGTGGTTTTTTGCCAGGT
GTTTATAATTAATCCTTTAATATTATGTTATTAACCTCTTAAACATGAATGAATCTTGATTGTTTTAACACAG
TACCTAAGACTAATGCTTTCTGTGGACCACTGAGCTCTGCCTCAACTCCACCTCTGCGACCGGAGGACTATG
CCCCTAGTAACCTGCTGTGCGGTGTGGACGCTGTGCTGGTTCTGTTTTCTAAAGGAGCAGAAGGACAGGTCTCTGAG
ACAGGATCGTTGTCCCTACAGGAGGAACAGTGGCCTTGCTTCTAGACGGTCTTCACTGTGTGTTTTAAACAAC
AACAACAACAACAACAACATAAACTCTTTTGACCTGTAACTTAAAGATCATAAACTTCAGGCAATAATATT
TTCTGTGTAAGCTTTTAAATTTATTTTGGGGATCATAGCTTGTATTTTGTGCTATAAAATTAACAGTATTA
AATGACTTATATTCTTAGAATA

3285/5332
FIGURE 2878A

CGCGGGTCTTCGGGCTGCGTGGGCCTGGGAGGCGCCGGGAAGAGCAGTCGCGACGGGGCTAGGGACGACACACTG
CATTCACTGGAAGGGACAACGCAGCGCCAGTACATAGCCTGAAACGCTCCCCAGAAGTCCACGCTCGCCGCGC
GGTCGACAACCGCATCCTGCGCTCGCCCCGGGTGTCTCGGCAAGCGCTAGGCTTGTGCGGAAGAGCTGGAGGGCG
CAAGTGCGGGCGCTGGCCGGACGTGCCGCACCGTCAGCGCAGGGCTCGCCGGGAAATGTGGTTTCTCCAGCCGGCC
CGGGGCGGTGGCCGCAAGTTGGGCTTACAGCGCGGCCGATCCGGCGTGACCCGGGATGGCTGGACCGGGCAGCA
CGGGGGGGCAGATCGGGGCTGCGGCCCTGGCAGGCGGCGCGCGGTCCAAGGTAGCCCCGAGCGTGGACTTCGACC
ATAGCTGCTCGGACAGTGTGAGTACCTGACGCTCAACTTCGGGCCCTTCGAAACAGTGCATCGCTGGCGGCGCC
TCCCGCCCTGCGACGAGTTCGTGGGTGCCCGGCGCAGCAAGCACACAGTGGTGGCCTATAAAGATGCCATTATG
TATTTGGTGGAGACAATGGGAAGACCATGCTCAATGACCTCCTGCGGTTGATGTGAAAGACTGCTCCTGGTGCA
GGGCTTTTACCATTGGGACCCACCGGCCCCCGTTACCACCCTCGGCCGTCGCTATGGGAGCAGCATGTTTG
TCTTTGGGGGTTACACTGGGGACATTTATTCCAATTCTAAGTTGAAGAATAAAAACGACCTCTTTGAATACAAGT
TTGCAACTGGCCAGTGGACGGAGTGGAAAATTGAAGGACGGTTGCCAGTGCCTAGGTGAGCCCATGGGGCCACGG
TGTACAGTGACAAGCTGTGGATCTTTGCTGGCTATGACGGCAACGCCAGGTTGAATGACATGTGGACAATTGGCC
TCCAGGACCGAGAGCTCACCTGCTGGGAGGAGGTGGCCAGAGTGGCGAGATCCCCCATCTTGCTGCAACTTCC
CCGTGGCTGTGTGCCGGGACAAGATGTTTGTATCTCTGGGCAAAGCGGAGCCAAAATAACCAACAACCTCTTCC
AGTTTGAATTCAAGGACAAGACGTGGACACGCATCCCAACTGAACACCTGCTCCGGGGCTCCCCACCACCCCGC
AGCGGCGCTACGGGCATACCATGGTGGCCTTTGACCGCCACCTCTATGTGTTTGGGGGTGCGGCCGACAACACGC
TGCCCAACGAGCTGCACTGCTATGACGTGGACTTCCAGACCTGGGAGGTGCTCCAGCCAGCTCCGACAGCGAGG
TTGGTGGGGCTGAAGTCCCCGAGCGAGCCTGTGCTTCCGAGGAGGTGCCACCCCTGACCTATGAGGAGCGGGTTG
GCTTCAAGAAGTCCCAGATGTGTTTGGCCTGGACTTTGGCACCACCTCAGCCAAGCAGCCACCCAGCCTGCCT
CGGAGCTGCCAGTGGGAGGCTCTTCCACGCGGCTGCTGTATCTCGGACGCCATGTACATCTTCGGGGGCACGG
TGGACAACAACATCCGCAGCGGGGAGATGTACAGGTTCCAGTTCTCCTGTTACCTAAATGCACGCTGCACGAGG
ACTACGGGCGGCTGTGGGAGAGCCGCCAGTTCTGCGACGTGGAGTTCGTGCTGGGTGAGAAGGAGGAGTGCCTGC
AGGGCCACGTAGCCATTGTACAGCGCGGAGCCGCTGGCTTCGAGGAAGATCAGCAGGCGCGGGAGAGGCTGG
CCCAGAAGCTGGAGCAGGAGGCCGCCAGTTCCAGGGAGGCCCGGCGTGGCTGCTGGTGGGGCCCGGCCG
CCCTGCTGCACGTGGCCATCCGGGAGGCCGAGGCCCGCCCTTCGAGGTGCTCATGAGTTCCTCTACACGACA
AGATCAAATACCCACGGAAGGCCATGTGGAGGATGTGCTGCTCATCATGGATGTGTACAAACTGGCACTGAGCT
TCCAGTTGTGCGCCTGGAGCAGCTGTGCCGCCAGTACATCGAGGCCTCCGTGGACCTGCAGAACGTGCTGGTTG
TGTGCGAGAGTGCCGCCCGGCTGCAGCTGAGCCAACTCAAGGAGCACTGCCTGAACTTCGTGGTAAAGGAGTCCC
ACTTCAACCAGGTGATCATGATGAAGGAGTTCGAGCGCCTCTCCTCTCCACTGATAGTGGAGATTGTGCGGCGGA
AGCAGCAGCCGCCCTCGCACTCCCTTGGACCAGCCAGTGGACATTGGCACATCTCTGATCCAGGACATGAAGG
CATACCTGGAGGGAGCGGGCGCGGAATTCTGTGACATCACTCTGTTGCTTGACGGGCACCCACGGCCAGCCACA
AGGCTATCCTGGCCGCCCGCTCCAGCTACTTTGAAGCCATGTTCCGGTCTTCATGCCCCAAGATGGGCAGGTGA
ACATCTCCATCGGGGAGATGGTGGCCAGCAGGCAGGCCTTCGAGTCCATGCTGCGCTACATCTACTACGGCGAGG
TCAACATGCCGCCCGAGGACTCGCTCTACTTGTGTTGCGGCCCCCTACTACTACGGCTTCTACAACAACCGGCTGC
AGGCGTACTGCAAGCAGAACCTGGAGATGAACGTGACGGTGCAGAACGTGCTGCAGATCCTGGAGGCAGCTGACA
AAACGCAGGCACCTGGACATGAAGCGGCACTGCCGACATCATTGTGACACAGTTTACCAAGGTCTCCAAGTTGC
CCACCCTGCGGTGCTGAGCCAGCAGCTGCTGCTGGACATCATAGACTCCCTGGCCTCCACATCTCAGACAAGC
AGTGCGCAGAGCTGGGCGCCGACATCTGAGGCCCTGTGGCGCCTGCCCATGTGAAGAATCGCCGTGCTGCTG
CCCTGCCTACTGAGAAGACTACCGGCTATGCGCATGCCTATGGCAGTGGGTGCACCTGCCAGGCCAAGGGTCAGG
GTGCCAGAGCCTCCAAAGAGAGCTGAGGGGATGTGGGGCCCCAACTCATTAATCACTGAAGACACAGGTCCC
ACAGGGAGCGGATGATGAAGCAGACCCCTCCTGTGATCACCCTCTCCTGGTGTAGTGTGGATGCGAGGCCACGG
CTCAGTGTGGGCTCACCACCCAGAAGTGGGGAGAGACTTTGGGCCCTCCACCCAGTGGGGCTTGGCCTGGCTTC
TGTGGCCTGGGCTGTGTTGAGTCAAGGCTGTGACCAAGGCTCCTCCAACATGCGGGAGGAGGCTT
AGCAGACTTGCCTGACCAAGCACTGCTGCTGGGCTGCTCCTGTGTCACCCACCCCTCACTGAGATCCATGTAAG
GGGCTCCTCTTCCACCTGGAACCTGTGAGTGGGGACCCATGATGTACGGGTCTCACCTGACTTGAGGTGAATTT
TGGAGTGAAGGGCCCTGAGGTGAGTCCAGGTCGGTGTGCTGGGCCAGGCCTGGTTTTTACAGGGGCTGAAGG
ATCCCACTCCACTGTGTGATGTGAGGCTCGGCCGGGAAGAAGCCAGCAAAGTCCCCCGTGCCTTGTGAG

3286/5332
FIGURE 2878B

TATTCTGTCACAGACAAGCCTCCATTAAAGCCACAGCAGTGCTACCCACCACACACACCTTGCTGGCCCCGGCCAC
CACTGCTGGCTTCAGCCCCCTTGAGCAGCCCATGGCTTAGCAGACCCCCAGATGTAGGTCAGTGGCCTTACCTGTC
TCTATCCATGCTGTCAACTCCTGCCTCCACCTGGGGTCACCCAGTCACATTGGGAAGGGCTGTGAAGGCCTCCAG
GCTGGCCCCCTTCCAGGGGAATCCTGGAGGCCTGGGGTGGGCTCCTGCCCCCTTCTGCCCTGCCTTGCCCCCTGCACT
ATGCTCTTGGCTCCTGTGGAAGGAGGGCTGCCCTCTTGCCCTAGTGAGGGCCCCATGTGGATCCACTCTAGTGCT
GGGAGCCAGCGCTCCCTTACTGGGAACAGGATTCCAGGACCCCTTTCTTGTGTGGCTGCCATGAAGCCACAGCT
CCTTGGGGAAGTGACCTGCTCTCCTTTGGGTGTATGCAGGTGTGTGGGGGGCCCTGAGTGGCAAGTTGCTTAGCT
AACAGGAGATCCATAGGCAGCCTGCAGGCTAGGAAGTGGCCTAGTGCAAGATGAGCTGGGAACAAGGGAGGAGAG
AGCAGGAGCTGGGGCAGAGGCTGAGCCGGGAGGCCCTTGAGGTGAGGACACAGCAGGCCCCAGGACCATGGCTGGG
GAGGATATGTCAGCACCTGGAAGTGGAGTGCAGGCTGCAGCGCCAGCCATGTGGGCCAGGTGCATTCACTCAGA
GTGGGGCCACACACCCATCTACCCAGTTTCCACAAGATGTGGCTCCTGCCACACCCACAGGGCAGCCTCCTCCAA
ATCCCTCCTGGAGGGGCCTACCCAGAAGCCTCCTTGAACCAGTCTGCAACCCTGCTCTATGCTGACCCCTTGTCAC
TGAACCCTGATCTAGACTTATATGAATAAATGAAATTACATGCCAAGGGCCCTAAAAAGCAAATTTTACAAAATT
GTGTGGCAGTTTCTGGG

3287/5332
FIGURE 2879

CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCCAGATGCCGCGTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAGGACACAGTTACCCACCTGGCCCCGCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCACTCCATTTTCTCCACCTCCACC
TGCTGATGTACCTGCTTTCTGTGGAAGAGGCCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTTCAGACCTACTGGGGCCCTTGGGTGCCAGGCAGATGAAGCAGGCTGCAG
CGCCAGCCTTCACCAGAGCGGCAGCCCTCCCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCAGCGCCAGCTGCAGGCCTGCAAGCGGC GGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGGTGCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAG

3288/5332
FIGURE 2880

GGGTCGCGCTCTAAGTGAGGCGCCAAGCGGTCTCCGCCTCAGGGTCTGAGGCTGCGAAAAGGGGCGTAACGATGAG
CGGTTCCCTGCCAGAGGTCTGGGGAGGATAAAAAAGCAGGAGGAAGAGGCGACGGCGGCCTGTGGACGTCTTGCAAG
GGTCCCCGAAGCCAAGCAGGGTCCCAAGGCCGATTTCAGACTCCGACCTAGAGACGGAAGGTGCTCGGGGCAGGGG
CCAGGCCCCGTCTCTCCCTTGGGGGCTTCTCCCGCAGGGGTTGTGGGAGGTGGGCTGGCGCCGCCGAGGAGGCA
GGAGACCTCTGTCCAGCAGGGCACGTAGCCCTCTGCGGGGCGTCTCCAGCCCCCTGCCCTCTCCTCGGCGCTCCT
GGCGGCATCAGGAACTTTACCATGAGAAGGCGCTTCTAGAAGGAGGTAAAAATGGAAAAATCCCGCCAGACAGTGC
ACCAAAGGCTGTCCCGCCCTGAAATGCAATCAGAGCTGGGTTTTCCCAATCCACAGGCACCCATGGACTTGGAGA
ACTGGTCGGGGACACCCTGTACCTGAGGTCTTGCTGGATCCATAGCATTGTGCCCATCTTCTGCTTTCTGTGCCA
AGGGAGTGCCCCAGAGCTGAACCTGTGCACGGTGGCCTGGGGCCCCAGATGTGGACCTGTTGGAGAACCAGCTG
GGAGTGGCAGGAGCCAGGCCCTCTGTGCCGCCCTCACAGTGAACCAGGCCATGCGGAAGATGCAGCTGTCAGGG
AATGGCCTGGAGGAGCAGGCGGCCAGCACCTTGCCGAACCTCTGCTGGCCACACAGACCTGAAGTCCCTGGAC
CTGAGCTACAACCAGCTGAATGACCAAGCAGATCTGTGCATGGGACTGCAGGGCTTCCTCATCTTCCACAGCTTT
GGGGGCGGCACTGGCTCTGGGTTCTGTCTCTGTCTCATGAAGCGGCTCTCGGTGGACTACGGGAAGAAGTCCAAG
CTGGAGTTTGCCATTTGCCAGCCCCCAGGTCTCCATGGCCATGACGGAGCCCTACAACCTCCATCTGACCACC
TACACGACCCTGGAACATTCTGACTGTGCCTTCATAGTCGACAGCAAAGCCACCTATGACATGTCAGCACAACTT
GGACATCGAGTGTCCCATGTACACCAACCTCAGTCGTCTGGGCAGATCGTGTCTCCTCCATCACGGCCTCCCTGTGA

TTCGATGGGGCCCTGAATGTGTACTTGACAGAATTCCAAACCAACTTGGTGCCATACCCCCACATCCACCTCCCC
CTGGCCACCTACGCCCTGGTCATCTCAGCCAAGAAGGCCTACCATGAGCAGCTGTCCGTGGCCAAGATCGCCAGT
GCCCCTTTCGAGCCAGCCAATCAGATGGTCAAGTGTGACCCTCACCATGGCAAGTACATGGCCTGCTGCATGTTG
TACAGAGGGGATGTGGTCTGAAAGATGTCAAGTGGCGCTGTGCCACCATCAAGAGCAAGCACACCAACCAGTTT
GTGGACTGGTGTCCGATTGGATTTAAGGTAGGACTGGGTGATGTGGAGTCCTTGTGCCATCAGGAAGCAGGAGAC
CTGCAGAATAATGTGCCCCCTGAAGGCCCGCATCTTTATGGAGACAACCCCTTTTCACGTCAGCTAGGTTGCAA
GGATAATAATTTTAGTAATTTATTTCTACCGCCTTATACTTTACCAAATACTTTATGTTCCCTCATACCTTAAC
CACTACCCCTTTAAAGTTTCATGGGGCAATATTACCAGTATCTTACACTTTAGAAAACAGAGGCTGAGGCTGGGCAC
GGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGATTGAGACCA
TCCTGGCTAACACGGTGAAACCCCGGCTCTACTAAAAAATACAAAAAATTAGCCGGGTGTGGTGGCAGACACCTG
TGGTCCCAGCTATTTCGGGAGGCTGAGGCAGGAGGATGGCGTGAACCCGGGAGGCAGAGCTTGCAGTGAGTCGAGA
TTGCACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTACATCTCAAAAAAAAAAAAAAGAAAGAAAAAG

3289/5332
FIGURE 2881

CTGCCATGCTGACTCATGTGCCCCGAGCTAGCAGGAGCTGGCAGCATGGGCTCCCCAGGGGCTACGACAGGCTGG
GGGCTTCTGGATTATAAGACGGAGAAGTATGTGATGACCAGGAAGTGGCGGGTGGGCGCCCTGCAGAGGCTGCTG
CAGTTTGGGATCGTGGTCTATGTGGTAGGGTGGGCTCTCCTCGCCAAAAAGGCTACCAGGAGCGGGACCTGGAA
CCCCAGTTTTCATCATCACCAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGG
GATGTGGCCGACTTCGTGAAGCCACCTCAGGGAGAGAAGCTGTTCTTCTTGGTGACCAACTTCCTTGTGACGCCA
GCCAAGTTCAGGGCAGATGCCAGAGCACCCGTCCGTCCCCTGGCTAACTGCTGGGTCGACGAGGACTGCCCC
GAAGGGGAGGGAGGCACACACAGCCACGGTGTAACCAAGGCCAGTGTGTGGTGTCAATGGGACCCACAGGACC
TGTGAGATCTGGAGTTGGTGCCCCGTGGAGAGTGGCGTTGTGCCCTCGAGGCCCTGCTGGCCCCAGGCCAGAAC
TTCACACTGTTTCATCAAAAAACAGTCACTTCAGCAAGTTCAACTTCTCTAAGTCCAATGCCTTGGAGACCTGG
GACCCCACTTATTTTAAAGCACTGCCGCTATGAACCACAATTAGCCCCCTACTGTCCCGTGTTCGCGATTGGGGAC
CTCGTGGCCAAGGCTGGAGGGACCTTCGAGGACCTGGCGTTGCTGGGTGGCTCTGTAGGCATCAGAGTTCAGTGG
GATTGTGACCTGGACACCGGGGACTCTGGCTGCTGGCCTCACTACTCCTTCCAGCTGCAGGAGAAGAGCTACAAC
TTCAGGACAGCCACTCACTGGTGGGAGCAACCGGGTGTGGAGGCCCGCACCTGCTCAAGCTCTATGGAATCCGC
TTCGACATCCTCGTCACCGGGCAGGCAGGGAAGTTCGGGCTCATCCCCACGGCCGTCACACTGGGCACCGGGGCA
GCTTGGCTGGGCGTGGTCACCTTTTCTGTGACCTGCTACTGCTGTATGTGGATAGAGAAGCCCATTTCTACTGG
AGGACAAAGTATGAGGAGGCCAAGGCCCCGAAAGCAACCGCCAACCTCTGTGTGGAGGGAGCTGGCCCTTGCATCC
CAAGCCCGACTGGCCGAGTGCCCTCAGACGGAGCTCAGCACCTGCACCCACGGCCACTGCTGCTGGGAGTCAGACA
CAGACACCAGGATGGCCCTGTCCAAGTTCTGACACCCACTTGCCAACCCATTCCGGGAGCCTGTAGCCGTTCCCT
GCTGGTTGAGAGTTGGGGGCTGGGAAGGGCGGGGCCCTGCCTGGGGATCTCAAGGATGAGGCCCCAGCATGGAGG
ATTGGGGGTAGAATTCCACCCTTGAACCCACAGCAGACAGTCCCTCCCCTGACTCCCACCTTGGTAGGGTGTGCC
TCAGGGAGCCATAGAAGTCGGCTGTGTTTTGAGACGGCGACAGAACCTGACCCGTGGAGACTGGGAGAGCCCAGC
AGGCACCTGTATTGCAGGGCTCCGACTGCATGTGGCAGGGGCTCCTGCTGCGTCTGGGCCTGGAGGTCTCTCTCC
CAGTGTCTGTCCCCAGTGTTCCTAGCAGAGGTATGCTTACCAGCTGTGACACAGACCCTCTGCTGCTGGGT
CCTGGCCCTCCTCCCCATCTGCACCCCCATCATAGGTAGAGACCCACCTCCCATCGGTCTACATGGGGCTG
TGCAGCTGGAGCAAAAAGGCAAGGTAGAAAGAGGAGTGTATGGGGGAGGGGATTGTTTCAGCTTCTCTGGTGCT
GTGATGGCCAGGAGAGTCCTAATCTAGGGAATGGGTGGAGTAGGCAGATAATCCACCTCCCTATCCCCCAGGC
AAGGGCGGAGCATGTGTCTTGGGCCCACACCTGCTTAGTTTATGAGGACCGGCTGCTTTCCAGTGGTAGCCCTTT
TGCCATGGAGGTCTGGGAGAGAGAGCAGAGGGCGGCAGGGCTAAGTTGGTGATCATTGGGTCTTTCAGGACCTTC
TATATCCCTCCTCGGTAACCCCCCAGCCCAACCCCTTGAATCTTTCCTCCAGGCTTCTGAGAGCCCTGGGGGT
GGGAGGCTGTGGGAGGCTGTACATCTGAAATTCACCTCAGTCCAAGTCATACCTAGGAAGCTGTCTGGGCAGCTG
CTCGAGGGAGGCCCTGGCTCTGATCCCAGGCTGGATGGAGTGGCTGGAAGGAATGGTTCCAAACAACACCACGA
GATCTCCCTCAGGCTGGCCAGGTTTTCAGCTGGAATCTCCTCTTGGTCCCAGGGCGGGGCAGGGAATTCTAAG
TGTCCACCCAGGGAGGCAAGGGGCTGCTTTCCACTGTGGGTACCTGGTGATCAGGGCAAGCTGTGGAGGGCCAG
GGGTGGGGCTGAGACTGGGCTGACATCTAGAATCACCTGCCACCTGGAGCCTCAGTAAAATGCCTGGGGTCCCTG
CTGCCCTCTCAATCTCCAGAGCCATGTCCATGGGGAGGTGGGCTCTGAAGGGCGAAGGTGGGAGAGCAGGGCCCCCT
GAGGCCTGGGTATCCAAGGAGGGGCACGTGCACCTGATTCTCCTTGGGGCCCAGAGGAAGCTGATGTCTATGGCTG
GACAAAGTCACGGAGTAAAGCCAGCAAAGCCACCCTTCTCCTGTGTAGTCTTACAGGCATGACTGGAAAGTTGG
GGGGCATCTATGGTAGACATGGCACAGCCATGAAGAGACCAGTGGGGTGGTGCAGGGTGGACTTGGGGACCCCTAC
CCCTGAAGACTGAGGCCCTGCAGCTACCAGGTGGGCTAGAAGGTAAGTGAACAGGCCTGGGCACCTGTGCACCC
ATGTAGGAGCATGAGGGCCACACTCTTTTACCTCAAAGCCCTTGAAGAGTGGGCAAAGACAGCAAGAGAGCTGC
AGCCTGGGCCCCGAGCTCAGAAACAGCTGTGCGCTCAGTCTGCGCACAGGCATGCACCCAGGGTAGTGCTGCAG
GGATGCATGTGTCCCCGTGGGGTGCTGTGCCAGGCAGGCCTCAGGTGCATGCCATGCTCAGAACCCCTGCTGCC
CTTTCTAGGCAGCCTCCTTGGGGCCCAAGCTCTGCTCCCTGGATCTGCCACCTAGCAGACGTGGGGAGCCTGACC
CCATGCCCTGTCTGGAACCCCTCCTTGCCTGGTGTGTGTGGCTCCCCCTCTTCACTGGGCACCTGGATCCAGGCCCA
CCTGTGTCCCTGACTCAGGGTGGTCCCAGGACTGGCACCTACTCTTTAGAGAGCCCCAGCATCTTTGATGTGGAT
TGGAGACAATTGCCTGGTTCCCTGGGGCAGGTGAAGACTTGGTGCCACAAAGAATGCCACAGTGGATACGCCAGC
AGGCCACATGGCTGGCCAAGCAATTATTATTATGGATCCCTTGGGCTGTGGGCTTCCCATCCACCCACCACAA
CTGCCCAGGTAGCTGGAGCTGATCATAAA

3290/5332
FIGURE 2882

GCGGAGGCAGCGGCTGCGGCAGCAGCAGGTTCCAGTAGCTGGCTCGGTGCTCTTCTCGGCCACCTGCC**ATG**GGCC
GGGGGCTGCCCACCATTTGCTAGCCTGGCAGCCTTATGCCAGAAGCTGAACCGCCTGAAGCCGCTGGAGGACTCCA
CCATGGAGACGTCACCTGCGGCGCTGCCTGTCCACGCTGGACCTGACTCTTCTGGGCGTGGGTGGCATGGTGGGCT
CGGGTCTCTACGTGCTCACAGGTGCCGTGGCCAAGGAGGTGGCTGGCCCTGCTGTGCTCTTGTCTTCGGTGTGG
CCGCTGTGGCCTCCCTGCTGGCAGCCCTATGCTATGCAGAATTTGGGGCACGTGTGCCACGCACGGGCTCTGCCT
ACCTGTTACCTACGTATCCATGGGCGAGCTGTGGGCCTTCCTCATCGGCTGGAATGTTCTCCTCGAATACATCA
TCGGTGGCGCCGCGTGGCCCGTGCCTGGAGTGGCTACCTGGACTCTATGTTAGCCACAGCATCCGCAACTTCA
CTGAGACCCACGTGGGTTCTTGGCAGGTGCCCCCTCTGGGCCACTACCCGGACTTCCTGGCTGCTGGCATCATCC
TCCTGGCCTCTGCCTTTGTCTCCTGTGGAGCCCGGTGTCTCCTGGCTCAATCACACCTTCTCGGCCATCAGCC
TGCTTGTCATTCTCTTCAATTGTCTCCTGGGCTTCATCCTGGCCAGCCTCACAACCTGGAGCGCTGACGAAGGCG
GCTTGTACCCCTTCGGCTTCTCCGGCGTCATGGCCGGCACTGCCTCCTGCTTCTATGCTTTCTGGGCTTCGACG
TCATTGCCGCTCCAGTGAGGAGGCCAGAACCCACGGCGGTCTGTGCCTCTGGCCATCGCCATCTCGCTTGCCA
TTGCAGCTGGTGCCTACATCCTTGTCTCCACCGTGTAAACCTCATGGTGCCTTGGCACAGCCTGGACCCGACT
CAGCGCTTGAGATGCCTTCTACCAGCGGGCTACAGGTGGGCTGGCTTCATCGTGGCAGCTGGCTCCATCTGCG
CCATGAACACCGTCTCTGCTCAGCCTCCTCTTCTCCCTGCCACGCATTGTCTATGCCATGGCCGCGCATGGGCTCT
TCTTCCAGGTGTTTGGCCATGTGCACCCCGGACACAGGTGCCTGTGGCGGGCACCTGGCGTTCCGGCTCCTCA
CGGCCTTCTCTGGCACTGTGCTGGACCTGGAGTGCCTGGTTCAATTCTGTCCCTTGGCACACTCCTGGCCTACA
CATTCGTGGCCACCAGTATCATTGTGCTGCGCTTCCAGAAGTCTTCCCGCCAGCTCCCCAGGCCAGCCAGCC
CTGGCCCCCTGACCAAGCAGCAGAGCTCCTTCTCAGACCACCTACAGCTGGTGGGCACTGTACACGCCTCCGTCC
CTGAGCCAGGGGAGCTGAAGCCAGCCCTGAGGCCCTACCTGGGCTTCTTGGATGGGTACAGCCCTGGAGCAGTGG
TGACTTGGGCGCTTGGCGTTATGTTGGCCTCAGCCATCACCATAGGCTGCGTGCTTGTCTTTGGGAACCTCGACCC
TGCACCTCCACACTGGGGTTACATCCTGCTGCTCCTGCTCACCAGTGTATGTTTCTGCTCAGCCTCCTTGTCC
TGGGGGCTCACCAGCAACAGTATCGGGAAGACTTATTTAGATCCCCATGGTTCCCTGATTCCAGCCCTGAGCA
TCGTCTCAACATCTGCCTCATGCTGAAACTTAGCTATCTGACCTGGGTGCGCTTCTCCATCTGGCTGCTGATGG
GACTTGCACTGTATTTTCGGCTATGGCATCCGGCATAGCAAGGAGAACCAGCGGGAGCTGCCAGGGCTGAACTCCA
CACACTACGTGGTATTTCCCGAGGGGCAGCCTGGAGGAGACAGTGCAGGCTATGCAGCCCCCAGCCAGGCACCAG
CACAGGACCCTGGCCATATGGAG**TAG**CTGATCAGCCACACTTGCCCCGCCCTCCCACACCTGCTTGGGAGGCCA
GAGAGGCCAGACAAGCCGAGAGCCCCCTTCTGTTGTGGGCAGCCTGGGTTTGCAGGCCTGCACAGGCTGGGGAGTC
CTCAGGACCTTAGGACCTTCATCCAGGGGCTGGGCTTCGGGTCTTCAGGAGTGGGCCTTGGCTGGTGCTGGTGCC
ATGGACTCTGCCAGAGCCTTCTTGTATGATCAGCTCCAGCTACCTGGGCAGTTGTGGTGGGGTGGATGGGAA
GGCCACAGCCCAAGGGATCCATAATAATAATTGCTTGGCCAGCCATGTGGCCTGCTGGCGTA

3291/5332
FIGURE 2883

ATGACCAGGAAGTGGTGGGGGGCGCCCTGCAGAGGCTGCTGCAGTTTGGGATCGTCGTCTATGTGGTAGGGTGG
GCGCTCCTCGCCAAAAAAGGCTACCAGGAGCGGGACCTGGAACCCAGATTTCCATCACAACCAAACTCAAAGGG
GTTTCCGTGACTCAGATCAAGGAGCTTGGAACCGGCTGTGGGATGTGGCCGACTTCGTGAAGCCACCTCAGGGA
GAGAACGTGTTCTTCTTGGTGACCAACTTCCTTGTGACGCCAGCCCAAGATCAGGGCAGATGCCAGAGAGTACG
ATAGTCCAGTAG

3292/5332
FIGURE 2884

GGCCAACAACGTGTTGGAGGAACTCAACATGAGAGACAGTCTCCTGCTGGCCTTGAACCTTTGGGCTGAAGCAGT
CTTCCTGCCTCAGCCTCCCAAAGTGCTGGAATTACAGTCATGGGGAGTTCATCGTTGTTACATAGAGACCTGTGA
TTCTATAGCACAGGCGGATGGCTGCGAATTGCACACGGTGTATAAAGCATCTCCGGCAGAGCCTGGTGATGTA
ACAACCGCATCTCTGCGATGGGAGCCCTGAGCCTGGGCCTGGGCCTCCGGGTCAACCAGACGCTGAGGATTCTTG
TACCTCACCAGAGCATTCTGTCTGACTATCTGATGGAGACACCTTCTGAGCCGAAACAGTGTGGCCATAGTGGCT
GTGTCTCAGAGATGAGGAGCCCCCTCCTTCCCTTTCACATTGCTCTCTGGCCTTCCCGGACCTGGCTTCTCGCAG
CTTTGTGTGCGTGTTCCTCAGGTGTCCAGGAATCCCATGCGAAGTGAAGGCTGCTTTGGTCTCCTCAAGTCTGTC
CAGGACAATCCAGCCTCTGCCCTGGAAGTCTGCTGGATTCTCAGATATCCAGGTGAACGCAGAGTTTGATGGCCTT
GCTAGCTCAGTGAGGGGAATTCTTCCAGAACTCTGCATAAAGACTGGCGCTTGCAGAGTGGAGTATAAAAAGGAG
TTGCTGCCAGTCTTCAGATCAGCCCTGCCAGCGTCTGTCCCTAAGTACCTTGGAGTGTGGCTTCCATCATCTCCA
ATCAGCTGCTTTGACCTCCAGGGTATATACTTGAAAGAAATGAAGACATATGTCCCCACAAGAACTCGTGATGA
ATATCCATAGCAACATTATTTATAATATTCTAAGAGTGAATAATGCCACCAAGTGGATAAATGCAATGTGGTATAT
CCATACAGTGGAAATATTATTTGGCAATAAAAAGGAATTTGAGGTGATACCA

3293/5332
FIGURE 2885A

GGACACTTGACATCAGTGGTGTCAAGACAACCTCTAAGAAGGTTTTCCGTGATCCTGCAAGCCCTGCCTTCCTTCC
TGGGATCCTGCCTTCAATTTGATTGCACAGGTACCAAGCAAGCCAGTGCTGTGTGCTCCGAGTTCCAGGGCGTC
CTCCAGCTCAGCCACTGCACTGAGAACAATGGACTCTCTGTGGGGCCCAGGAGCCGGGAGTCACCCCTTTGGGGTC
CACAACACCCGGCTGTCCCCAGACTTGTGTCCAGGGAAGATAGTGTGAGGGCCCTCAAGGAGAGCGGGGCAGGG
ATGCCTGAGCAGGACAAGGACCCTAGAGTCCAAGAGAATCCTGGTGATCAGAGAAGGGTCCCCGAGGTACCCGGG
GATGCACCGTCTGCATTTCCGGCCCTGCGGGACAATGGAGGCCTCTCTCCCTTTGTGCCCGGGCCCGGGCCTCTG
CAGACAGACCTCCATGCCCAGAGGTGAGAAATCAGATATAACCAGACATCCAGACCTCCTGGACGAGCTCCTGC
ACCAACCGAAATGCCATCTCCAGCTCCTACAGCTCCACGGGAGGCTTGCCGGGGCTAAAGCGGAGGAGGGGCCA
GGCTCATCCCACTGCCAGTGACCCCTCAGTTCTCTCAAAGCAGTGAGTGAGGACAGGCCTCAGGCTGTCTCTTCA
GGTCACACCCAGTGTGAAAAGGCAGCAGATATAGCACACAGGGCAGACACTCGCCCTCAGGAATGACTCCTCCACA
TCCGAGGCCCTCTAGGCCCAGTACACACAAGTTTCCCTGCTGCCACGCAGGCGAGGGGAGCCTTTGATGCTGCCA
CCTCCCTTAGAGCTGGGGTACCGGTCACTGTTGAAGACCTTGACCGGGAGAAGGAGGCGGCATTCCAGCGCATC
AACAGTGCCTGCAAGTTGAGGACAAGGCCATCTCGGACTGCAGACCCTCACGGCCTTCCACACTTTGTCTCTCA
CTTGCAACAGGGGCTTCTGGTCTGCCTCCCGTTTTCTAAAGCACCCAGTATGGATGCACAGCAGGAGACACAAG
TCCCAAGACTGCCTGGGCCTACTGGCCCCCTTAGCATCTGCTGCAGGGGTCCCCTCTACAGCTCCCATGTCTGGG
AAGAAGCACAGACCACAGGCCCCCTGTTCTCTCTCCTCAGATCCCCTTCTGCCACCTCTTCCCATTCCAGGAC
TCAGCCCAGGTCACTCGCTGATTCTGCCCCCTTCCAGCTGCAAGCATGGATGCGGGCATGAGAAGAACAAGG
TGTGGCACTTCTGCTCCTGCAGCTGCCGCAGCAGCCCTCCCCCTCCACATGAACCCACGTTGGGGTCACTA
CTGGAGTGGATGGAGGCCCTTCACATTTCTGGGCCTCAGCCACAGCTGCAGCAGGTGCCCAGAGGTGAGAACCAG
AGATCCCAGACCTCCCGGACCAGCTCGTGCCCCAAACGAAATGCCATCTCGAGCCCTACCGCTCTACGGGAGGC
CTCCCGGAACGAAAGCGGAGAAGGGGGCCAGCCTCATCCCACTGCCAGCTGACCCTCAGTTCTCTGAAACACAGAC
CCAGGGTGCATGCCCATCTCCAGCCCAGGGCAGCTCCCCTGTAAGCTGGGTGAGCTACTGAAGCCAAGGCGGGAG
GCAGCTGACAACACCCACAGCCCATGCGGAGGTGGTGAAAGGCTGGACTCAGCAGCAACACCAATCCTGGACC
AGGCAGAAACCACCAAGACTGAGGGGCTCGTGCCAGAGCGGTGGCCACAGGGCTGAATGGTTGCTGAGACAGAG
ATGGAAGCCAGGACAAGGGAGCCACCGGGCCAGATAGAGACTTCAGAACCCTCCTGAGAACCAGCGGAGCCA
GGCGCTTAGAGGAAGACCAATGCTGCCAGGACAGGATTGTCCAGGGATTACATTCCAGCATCTTATTAGATGG
CCTGATTAGCCAGAGGTTTCCAGGCCGTCTGTCCGCCCTCCAGGAGATGGACTGGGACCTTTAGACATCGGTGGAG
AACAGGATGCTCTGTCCCTTGCTGTCCAGGGCAGGGATGGCCTCCAGCCGCAAGAAGTACAGCAGCACCTCGACC
TGCCCTCGCGGAGTGGGGAAGAGGAGAGTGGCTCGGAAGGGGGCGCACAGCTGCTGGTGGGAGGTCTTTGGGGCC
CAAGATCCCAAGTCCACCTCAGGTGCTAGAAACCCCTGCTGGTGTATGAACCCCTTACAGTGAGACGGGGGTGG
GGTGGGGTCTTGACAAGGCATGACTTGTGGGTGGGGGTGGTTATTTATTTTAGAGATGCACAGGGCCTTGCTC
TGTCCCCCAGGCTGGAGTACAGTGGCTCCATCATGGATCACTGCAGCCTCTAACTCCTGGGCTCAAGCAATCCTC
CTGTGTACGCTCCAGATACCTAGGATTACAGATATGTGCCCCAATGCCTGCCTAATTTTCTTTGTATTTTTT
CTGGAGATGGGGTTTGCTACATTGCCCAGACTGGTCTCAAACACCTGGGTTCAGTTGTCTCCTCGCCTCCCA
AAGTGCTGGGATTACAGGCATGAGCCACCACACTCGAACACTTGGGGTGGTTTTAAGCCCCCAGCAAGGTGCACC
AGCAGGACCAGGAGGTGGCCTAGGCACCCCTATCACTCCCATCCATGCAAACCTAGGCAAGTCCCTGTCTCTGA
ATCTCAGCCACCACCATACAATGCAAGTCGGAAGATGGGCAGGACTGGGGGTGGGGCAGGCAGAGGCCACCTC
TGTCAGGCTGGGGTTGCATGGGCTGGAGGCTGTCTTCCCATACCTGGGACATGACCTCCAAGGACCAGCTGTCTAG
TCATGGTGATGGGCTGGCTGGGGTTGGCAGGGAGCTTGCTCTCCTTCTCGGAGGGCCGGAGCAGCGTGGGGCCAA
ACACCGTGCCAAGGTTGTGCAGGGACATCTTATTGACTGCCCTCTCTCTGCCATCCTGTAGAGGACCGAAGCAG
AGGGTGCTGTTTCAACGCCACCACCAGGAGAGAGGACAGAGGGGCTGTGCCGTGCTAGAGTCTCAGGGAGGGAGT
GACCTCGACCTGGCTGTGCTGCAAGCTGACTCCAGCCTTGGGGTCAGCAGCACCCGGCAAACAGCAGCAGGAGG
AGCCGCTAGAGCAGCTGCTCATGGGCAGAGCTGCCCTCGGGCAACTCCTGCCACCACCCCTCCCCAGGGAGCCC
AAGGCAGGGGAGGCTCAGCATGGAATGAAACAGGGAGTGAGGGACACAAGGAGGTGGGAAGTGGGAGGGTCCCA
GCCCCACCAAGTACGACAGAGAGACCCCTCGACATCCTGGACACCACAGGGGCACCTGCAGGCTGGGAGACCAGGTC
CTCTGTGCATGGGCCCGGGAGGCAGACCTGCCCTAAGGGTGATGCACAGGCTACAGGTGCTGCACGCTCCAGCGC
CCACTCTAGACATCAGCCTCCAGGTTGACTAAGGGTCAGGTGATGTTTGAACCATGCTTGGCTGGACCAGGACC
CATGGCAAGAGCACCTGGGCACCAGTGTTTAGCCCTGGTCTGCAGGAAGGAGGACAGCAGACTTTAGGACCCAC

3294/5332
FIGURE 2885B

AGCACGGCAGTGCTGACCATTTCACCCACTTGGCCTCCTTGAGAAATATGGATGGGGAGCCCTCTGGGGATGGGC
AAGGCCTTCCAGGATAGGCTCAGTTTTGGTCCCCTGCTTTTGGAGTTGGGTAAAAATTCCGACCATGGCAGAGG
AAGCACAGCTCGGGTTCCACACCTCACTTTTACAGCCTCTGAGGGCAGCAGTGCACGTGGAGGAGACGTCTCC
CATGAGGCCAAGGCCTCCAGTGCTCACCAGATGCCCTCTGCGAAGTTGGGGTAGAACTCGTCAGTGAAGAGGGGCT
CGGGCAGCTCACGGAAGTACAGCTTACAGATGCCTGCGATGGCGTTACGTCCATCTCGCTCATCATCACTGACA
CGTCTTGTATCTGGAAGAGCACGGAATGCAGCGGCTCCTTGAAGATCCTGATAAATGAAGAAAAGACACA
GAGAAGGATGTGACATGCCTGGGCCATGGAGCACTCTGAGATCTCATCGTGGACACCACTGCCACACCTCCATC
CCGTCTGCGCAGGCCGACACTCACTGACGTTGAAGCCTGCCTTCAGTGCCCTGGATGTCTGCGGCCACCCAGAC
ATGCGGTAGATGCCACCTCCTCCATGCCTCGGCGCTCGATCTCCTCCACGCACTGACGCACGATGTAGGGCACC
TTGGACCTCTCTCTCCTGCGGAGGAGGGAATGTTCTCAGTGTCTAACAGCCCTGCTTGGGCCATAACACAGGA
GACCTGCTCCCTATCTGCGCACCCGGAGGTGGGGTGAGGACGGTGACGAAGGTACCCAGGTCTGGGGCTGCACAC
AGAGCCTTCTGCATGCCTGTCTCCCTCTGCAAGCTCTGTCTCATTTGCATGTACTTTCTCAGGAACCTTTCAAG
CGGCCAGAACCCTGCGAATCACACATGACCTTTGTGGGAAGGTGAGGAGGCTGTCTAAGTCAAGTCAGCACGG
GAAGGGCATCTGACAGATTCAGGCCTGGGGTTAGCAGCCTGTGCCCCGGCTGGGAGGTGAGACCCGGTGTGG
TCCTGCCACCCACGTGCTGTGTGAGAGGAGAATCCCTGACCCCTGCCCTGGGCCCTTAACACACATCCGACGAATG
AATGAAGGGTTGCCTCAGCACCGGTGCTCCAAGTCTGCGATGCTAAGTGCTTTCTCCTCTGAGTCTTAGCAAT
GGACAATTCCAATACCTCCACACAGGACACTAGAGTAAGAATCCTTCACAGTTAGAACGCAGTGCTGTGCGGAGG
CCTTAACCTTGAGTTCTGTTTTGCACCTGGATTTACCAGCACATCAAAGCTGCTTCGCAAGCCCCCTCATCAGCAG
GGCTTATGTGGGGGAGCTGCTGATGGAGTCTCGCTGCTCATGCCACAGCCCTCCCAGAGTGCTATGCGAGTGG
CTGCCGTGCAGTTGGGGGTGGGGCGTGGTGTGTTAGACACAGATAGGAGTCCAGGGTATGACTGATGGAGGCCCCG
GCCACGTGACCAGCAAGGTCAGAGGCCAGCCAGATTCCATCCTGGGGAAGCAAATGAATTCTCAGAGGAAGTG
GTCTGTGTCTGTATGAACTGCTCTCAAACCAACAAATAGGCTTCTCTTGGCAACTGACTCGTGACAAAGGGTTCA
AGATTGTTTGAAGAAAAAAGGGGGGGAACAGGGAGGCAGTAGGTCTGGAAAAGTAAATTCTTTATTTTA
CAATAAGAAAGTGATTACATATTTATTTTTTTTACAATGGTGAAAATTAGAAGTGATTGTGAAAATGATGTCT
ACCCGCTTGTGATGAGTAGGATGTGATTGGCTCTTAGGAACTGAATTGACAGAACTTAAGAATATTGATT
TATAAAGGGCATGGCCATTGACCCAGTCCATCTTATGCAAATCTGGATGCCATAAATAATATTTAAAAATGAAAG
TATTGGGGTGGAGGTTGCAGTGAGCGGAGATCGCCCCACTACACTCCAGCCTGGTCAACAGAGTGAGACTCTGTC
TCAAAACAAAAAAGGAAGAAGTCAATCCCAACATTGCTCATCAAATTATGACCATAAAATTC
CAGGATCAGACTAACGGCTAAAGAGACTGATGCATCAACACCAGGCAGAGAATAAAGCAGATTTTTTTTGTGTTG
TTTTGGAGAGCCTCTAGGAACCTGAAAAATACATATGCCACACTCTTAAGACCCGGTGGTTCTTAATCAGGGATG
TTCATTAAAAATGCTGAAAACCTGTAAAGACTTCCAGGTCCCATCCAAGGAGATTTTGCTTCTGATTGACTGGCTA
GTGGCCTGGCCATTGGTATTTGAAAAATCCCTCCAAGTGATTCTTTTACATCCCAGCTAGAAAACCTAAATTA
AAGGTGAAAAACCAGACACCAAGTGGCATTAAATAAATGTCAACTTTAACTCC

3295/5332
FIGURE 2886

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGATGACATCACCAGTGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACGGCCTT
CCATGAACAGATCGTCATTGCGAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCAGAGAAGACTC
TATCAGAGTGACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTGAAAACAACCTCCTTTATAATTATTCAGTCTTTTTGTGAGTGAATAGACATCTTGCCCTCTGAAGTAG
CTTCATCACAGAGTGTCATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTAATATGGTTTTAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTTCAAGTTTTTGAAGTAGATTTTGTAAATGTTTGTGATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCCTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAACAAAAAA

3296/5332
FIGURE 2887

GGTCCGGATGGTGGTGGGAGCTGCTGGGGGCACGCAGATCACCACAGACACTGCACTGGTATGTGTCACCCCTTT
TCTCCCTGGCCCTGCCCCTCTGCACAGCCCCAAGCCACCCTGATCACACTCCCATGCCCCAGGCCATCATCTA
CAACCTCTGGTTCGGCTATGACGTGAAGAGGGCCGTGGAGGAGCCCCGGCTGCACAACAAGCTTCTGCCAACGT
CACGACAGTGGAGAGAAACATTGACCAGGCAGTGACTGCAGCCCTGGAGACCCGGCACCATCACACCCAGATCGC
GTCCACCTTCATCGCTGTGGTGCAAGCCATCGTCCGCACGGCTGGTGGCTGGGCAGCTGCCTCGGACTCCAGGAA
AGGCGGGGAACCTGCTGGCTACTTGATTGCTCCAGGCAGACAAGGCTGACAAGCAATCCAGGGACAAGATACTCAC
CAGGATGAGGAAGAGGACTTTGGGGGACGGGCTTCCCCTGTGAGCAGCAGAGCAGCATAATAAATGAGGCCACTG
TGCCAGGCTCCAGGTGGCCTCCCTGGCCTGTC

3297/5332
FIGURE 2888

TTCTGTGGCCAAACACCCAGGCAAGGCTTGGGGCCCCCTCTGCTGCTGGACGGTAAGTCCTGGCCCCGTGGCAGT
GAATCTGTGGGGCGCTCTGATTGTGGGCACTATGGAAGCTAAACCCCATGCTCCAGGTGGGGTGGAGGGTCTTCA
GAGGACTCCTGGACAGTGCCAGGCTCTAGGCTGGGGTGGGGACGCAGGAGAAACCAGGCCAGGCCCATCCCTGC
TGGAGCTTCTCCCTAAGCAGTGGAGGCTCAGCCACTGTGAGGAGGTAGGCCAGGCCCTGCAGAAAGAGGGGTGTG
GAAATCTGGGGGCTCCCAGGAAGGGCCGCTGCTGGAGATGGGGTCTTACCAGGATGGGCTCTGAAGATAAGCAG
GGAGGATTTGGGAGGGCAGAGATGAGGCCCAGAGCTTCTGGCAGAGGGCATGGCCTGCGCAAAGGTCTGGGGGCC
GGACAGCCTGCACGTATTCTGGGAAGCGGGAAGGAGACTCCGGCCTTGTGTTCTGAGGCCGACTTTAGACTGT
GCCCTGTTGGGGAGGGGCCAGGGCATGTCTGAGGCTGGGCCCTGACCCTGCTCCTTACCCCGTGGGTGCAGCAGAG
CCATGAAGAAGAAGTTAGTGGTGTGGGCCCTGCTGGCCGTGGTCTGGTGTGGTTCATTGTGGGCCCTGTCTCT
GGCTGCCCTCGGCCCTCCAAGGAACCTGACAACCATGTGTACACCAGGGCTGCCATGGCCGCGGATGCCAAGCAGT
GCTTGGAGATTGGGAGGAGGGCTGTGGTGGCGGTGCCCTGGGGAGATCCGAGGCTATGAGCTGGCACACCAGCGG
CATGGGCGGCTGCCCTGGGCTCGCCTCTTCCAGCCCAGCATCCAGCTGGCCCCCAGGGCTTCCCTGTGGGCAAG
GGCTTGGCGGCAGTCTTGAAAAACAAGCGGACTGTATCGAGCAGCAGCCTGTCTTGTGGTATGTCTGTGGGTGC
GGCCCCCTGACACAGGCAGGGCAGGCACAGCCCAAGGACCTTGAGGCCGTAGCAGCAGTGGAGCGGCCCTCTGC
CTTCAGGACCTGTGCTGATAATGGGATGAGGAGATACAGACCTTCCCACCACGTGTGGGGACACATTCTGAGC
ATGGGGTCCAGTGGCCACTGTGGCTGGCCACGTGTCTGAGTGGCAAGGGACACTAGGAGGCTCCCGAAGGGA
CACTAGGAGGATGAGCGCTGAGTGACAGGGCCACCCACCTGTGACAGGTGCTGCCCTGCTTTGTGCTGGTCTCC
TGTGTGGCAGGTGTGGGGGTGGTCTAGCTGAGTCCACCCACCTGCTGCCTCACATGAGCCCCCTCTGCCCCG
GTGAGGTGTCTGCCGGGATAGAAAGGTGCTTCGGGAGGGGGAGAGACTGACCTTGCCGCGGCTGGCTGACACCT
ATGAGATGCTGGCCATCGAGGGTGCCAGGCCTTCTACAACGGCAGCCTCATGGCCAGATTGTGAAGGACATCC
AGGCGGCTGGTGTAGTGGGTAACCTCAAGGACCTGGGTGAGGAACTCTGCAGTGGAAACCTGAGCTGTAGCCCAG
AGCCATGGGGTCTCTCTGTCTTGCTGAGCCTGCAGGAAGTTCTGGTGGAGGAGGGTCAGTGACTGGCCATGTG
GGTCCACAGCTCCTGCTTATATCAAAACCAAGAGAGGCCACACAGTCCAGGAGAGCAAGTCCCTGTTGGGGTAA
TGCAGGTGTAGGCAAGAGCCAGGGCTAGGGAAGCACTAGAATACAGCCTGAAGATCCAGGAGGACTTCTTGGAGG
AGGTGGCGGCTGGGCTGCAGATAACTTCGTTAGGCAGAGAGAGGAAGGGATTCTAGCAGAGGAACAGCTGGGCT
AAGGCCCAGTAGAGGGCGCTTGTATTACCAAGAGGGTTACAAGGGATGAGGGTCCGCTTGAGAGAGGCATGGGG
AAGGGGATTTGTGGGGCAGGGGCTGGAGCTTGGCTGTGGCTTTCTTCAGGTAATTTTTGTCACTGTTCATGGA
GGAGGGTGATTAGCGTGTGACCTTTACCACTGAGGCTGGAAATTGGCATGCCAATACCCTGTCTGGAGCTGACT
CCAGGAGAATTAAGAGCCTCCCTCCCTCCTCTATCCATTATCGTGAGGAGAAGAGGCCAAGCAGCAGGGACAC
CGGCAGGAATTCTCCAGTTAGAAAAGGCCCTCTGAGCCAGGTGCGGTGGCTCACGTCTGTAATCCCAGCACTTTG
GGAGGCCGAGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAACCCCTGTCTC
TACTAAAAATGCAAAATTAGTCAGGCATGGTGGGTGTGCTGTAAATCCCAGCTACTTGGGAGGCTGTGGCAGGA
GAATCGCTAGAACCTGTGGGGCTGAGGTTGCAGTGAGCCGAGATTGCACCACTGCACTCCACAGAGTGAGACTCC
ATCTC

3298/5332
FIGURE 2889

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAGCTACA
GGAGGAACCTTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACTCCTTTTATAATTATTCACCTGCTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTGATATGTACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCCTAATCTC
TTTGGTATCTATACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAAATATGGTTTTTCACTGCTAAAA
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACTCCTTTTCAAGTTTTGCAAGTAGATTTGTAAATGTTTGTGTATGCAGCCTTGCTGTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTGATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

3299/5332
FIGURE 2890

GGGCTGAATGGTCGCTGAGACAGAGATGGAAGCCAGGACAAGGGAGCCCCACGGGGCCAGATAGAGACTTCAGAA
CCCCTCCTGAGAACAGCGGAGCCAGGCGCTTAGAGGAAGACCAAATGCTGCCAGGACACGGATTGTCCAGGGAT
TACATTCCAGCATCTTATTAGAGGACCGAAGCAGAGGGTGCTGTTTCAACGCCACCACCAGGAGAGAGGCAGAGG
GGCTGTGCCGTGCTAGAGTCCTCAGGGAGGGAGTGACCTCGACCCTGGCTGTGCTGCAAGCTGACTCCAGCCTTG
GGTCAGCAGCACCCCGCGAACAGCAGCAGGAGGAGCCGCTAGAGCAGCTGCTCATGGGCAGAGCTGCCCTCGGG
CAACTCCTGCCACCACCCCTCCCCAGGGAGCCCAAGGCAGGGGAGGCTCAGCATGGAATGAAACAGGGGAGTGA
GGGACACAAGGAGGTGGGAAGTGGGAGGGTCCCAGCCCCACCAAGTACGCAGAGACCCCTCGACATCCTGGACA
CCACAGGGGCACCTGCAGGCTGGGAGACCAGGTCTCTGTGCATGGGCCCCGGGAGGCAGACCTGCCCTAAGGGTG
ATGCACAGGCTACAGGTGCTGCACGCTCCAGCGCCCACTCTAGACATCAGCCTCCAGGTTGACTAAGGGTCAGGT
CATGTTTGAAACCATGCTTGGCTGGACCAGGACCCATGGCAAGAGCACCTGGGCACCAGTGTTTAGCCCTGGTCT
GCAGGAAGGAGGACAGCAGACTTAGGACCCACAGCAGGCGAGTGCTGACCATTTACCCACTTGGCCTCCTTG
AGAAATATGGATGGGGAGCCCTCTGGGGATGGGCAAGGCCTTCAGGATAGGCTCAGTTTTGGTCCCTGCTTTT
TGAGGTTGGGTAAATTCGACCATGGCAGAGGAAGCACAGCTCGGGTTCACACCTCACTTTTACAGCCTC
TGAGGGCAGCAGTGACGTGGAGGAGACGTCTCCATGAGGCCAAGGCCTCCAGTGCTCACCGATGCCCTCTGCG
AAGTTGGGGTAGAATCGTCAGTGAAGAGGGGCTCGGGCAGCTCACGGAAGTACAGCTTCAGCATGCCTGCGATG
GCGTTCACGTCCATCTCGCTCATCATCACTGACACGTCTTGTATCTGGAAAGAGCACGGAAATGCAGCGGCCT
CCTTGAAGATCCTGATAAATGAAGAAAAGACACAGAGAAGGATGTGACATGCCTGGGCCATGGAGCACTCTGAGA
TCTCATCGGGGACACCACTGCCCCACACCTCCATCCCGTCTGCGCAGGCCGACACTCACTGACGTTGAAGCCTGC
CTTCAGTGCCCTGGATGTCTGCGGCCACCCAGACATGCGGTAGATGCCACCTCCTCCATGCCCTCGGCGCTCGAT
CTCCTCCATGCACTGGCGCACGATGTAGGGCACCTTGGACCTCTCTCTCTGCGGGAGGAGGGAATGTTCTCAGT
GTCCTAACAGCCCTGCTTGGGCCATTAACACAGGAGACCTGCTCCCTATCTGCGCACCCGGAGGTGGGGTGAGGAC
GGTGACGAAGGTACCCAGGTCTGGGGCTGCACACAGAGCCTTCTGCATGCCTGTCTCCCTCTGCAAGCTCTGTC
CTCATTGCATGTACTTTCTCAGGAACCTTTCAAGCGGCCAGAACCCCTGCGAATCACACATGACCTTTGCGGGAA
GGTCAGGAGGCCTGTCTAAGTCAAGTCAGCACGGGAAGGGCATCTGACAGATTCCAGGCCTGGGGTTAGCAGCCT
GTGCCCCCGCTGGGAGGTCAGACCCGGTGTGGTCTGCCACCCACGTGCTGTGTGAGAGGAGAAACCTGACC
CCTGCCCTGGGCCTTAACACACATCCGACGAATGAATGAAGGGTTGCCTCAGCACCGGTGCTCCAAGTCTGCGA
TGCTAAGTGCTTTTCTCCTCTGAGTCTTAGCAATGGACAATTCCAATACCTCCACACAGGACACTAGAGTAAGAA
TCCTTCACAGTTAGAACGCAGTGCTGTGCGGAGGCCTTAAGTTGAGTTCTGTTTTGCACCTGGATTACCAGCAC
ATCAAAGCTGCTTCGCAAGCCCCCTCATCAGCAGGGCTTATGTGGGGAGCTGCTGATGGAGTCTCGCTGCTCA
TGCCCCACAGCCCTCCAGAGTGCTATGCGAGTGGCTGCCGTGCAAGTTGGGGTGGGGCGTGTGTTAGACACAGA
TAGGAGTCCAGGTATGACTGATGGAGGCCCGGCCACGTGACCAGCAAGGTCAGAGGCCAGCCAGATTCCAT
CCTGGGGAAGCAAATGAATTCTCAGAGGAAGTGGTCTGTGTCTGCATGAACTGCTCTCAAACCAACAAATAGGCT
TCTCTTGGCAACTGACTCGTGACAAAGGGTTCAAGATTGTTTGAAGAAAAAGGGGGGGGGAACAGGGAGG
CAGTAGGTCTGGAAAAGTAAATCTTTATTTTACAATAAGAAAGTGATTACATATTTTATTTTACAAATGG
TGGAAAATTAGAAGTGATTGTGAAAATGATGTCTACCCGCTTGTGATGAGTAGGATGTGATTTGGCTCTTTAG
GAACTGAATTTGCAGAACTTAAGAATATTGATTTATAAAGGGCATGGCCATTGACCCAGTCCATCTTATGCAAA
TCTGGATGCCATAAATAATTTAAAAATGAAAGTATTGGGGTGGAGGTTGCAGTGAGCGGAGATCGCCCCACTA
CACTCCAGCCTGGTCAACAGAGTGAGACTCTGTCTCA

3300/5332
FIGURE 2891

GAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGCGACAGAGCGGAGACTCC
ATTTAAAAAAAAAACACCAGGGCATCTGTAAGCCACTTTGGGAGTCAAAGAATGTAGAGCTGGGCTGGACTCC
TTAGAAGAAAGTTAAGTTCTGAGTGTGGGAGGAAGTGCCCTGCACCCCCACATCCAGACAGCCCGTCACTCCTGCT
GCCGAAGACTGACTTGCTGATTCGGGCTCTGCCTCCATAGTGGGGGCACAGAGCCAGGGAGAGTGCCCAAGGCC
CAGGGATCCTGGGTGTGGGACCAGGGAGAATGCCACAGGCCCCAGGGCCTTTTGTAGCCCAGGGCGCTCTCTGC
ACAGGCCCGCTACAACCTTCATCCGAAGCATGGCCGCCTACAGCCTCCTGCTGTTCTGCTGCAGATCAAGGACAG
ACACAACGGCAACATTATGCTGGACAAGAAGGGCCATATCATCCACATCGGTGAGCCAGCCACAGCGCCACCCTC
CTCTCCCTTCACCCCGGCACCCAGGGGTGGATAGGGATCCCCACCCACAGAGAGGAGAATGCCAGGACCACCC
TGCCAGGAGTGTGAGGGTCCAGCTCTGAGGTCCGAAGTGTGCGCCACCAAGCTGTTCTGCTGTAGAGGGTGCCTG
GCCCCGGCCCCAGGGAGCTGGGGCGAGAGCCGCCATTGCTCTGAGTCAGAAGCTGGAGCTGGGCGGAGTGGGGCT
GGTCCAGGTTCACTGCCCCAGCTTGGCTCCTTCCCTCACTTCCCTTCTCTTTCTCTGCCTGCTGCCCCACCA
CCCACCCCATCACTGTCTCCAAGAAAACACAACCTGCCTTTTGGGGGTGGAGGGGGTGCTCCTGTTGAAGAGTCC
TTTTCCACTCCTCAAAACAGACCACTCGTCTTGCCCGCCCTGGCTCCTACCCAGTCACAGGCAGCTCTTTGGGG
TTTTGCAGACTTTGGCTTCATGTTTGAAGCTCGCCGGGCGCAATCTCGGCTGGGAACCCGACATCAAGCTGAC
GGATGAGATGGTGATGATCATGGGGGGCAAGATGGAGGGCCACACCCTTCAAGTGGTTCATGGAGATGTGTGTCCA
GGCTACCTGGCTGTGCGGTGAGCCTGGGTGAGGGCCAGGGTGAGGGCGGAGGGGGTGTGTGGAACGTTCTGAGAT
CCCCTTTAGGATGAAGGGAATCGGGTTCAGAGAGTGAGGTAGGTGCTAGCAGCCACCTGCTGACCTACACCTGT
CCTTTGGTCACTCTGTCTGCCCACCTGTGCCAATAAATTCTTGCTCTGGGCATCTAATTCCAACCACCTTCCCC
ACAATCCTGCCCACGCCTTCAGCCATGGGCTCTCCCTTTCTGGGCATCCCATCCACCTTGTCAACAAAGCCTGAG
CACCTGCCACCCACAGGCTACGTGCCAAAGATGGGCTTTGTCCAGTTTCATATACAGGTCACCTTGGCCAAGGC
CACAGTCCAACCTGGGTTCATCCCCACTGCCCCGCAGAGAAAGGCAGGTGAGCGTGTCTGCATCCCACCCAGGTG
CAGAAGCCATGGCCGGCAGCCTTATGTGGGGACAGGGCAGGACACTCAGCCTGTCCAGAGTGCGTATGGGCAGC
CCTTGCCCTGGGCAGTACGGGTGACCGAGTGACAGAGTCGAAAGTTGCCTCGGGGATGTGCAAGATGTGGCAGGC
GAGGTGGGTGGCAGGAGCCACACCTGAGGCTGTTGGCATCAGCCAGTCCACAGGACTACAGGCAGGGCCACCAC
CTAGGCTGGCCTCAGCCCACCGCTCCCTCCTGTCTCTCCCCAGGCCCTACATGGATGTGGTCTGCTCCTGGTCA
CTATCATGTTGGACACGGGCCTGCCCTGTTTTCGCGGCCAGACAATCAAGCTCTTGAAGTTTAGCCCCAACATGA
CTGAGCGCGAGGCTGCAAATTTTCATCATGAAGGTTCATCCAGAGCTGCTTCCTCAGCAACAGGAGCCGGACCTACA
ACATGATCCAGTACTATCAGAATGACATCCCCTACTGAGGAGGGGACCTTCGAGGGCCTCTGCCCCATGTGCCCT
TGAAGCTGCCCCACAATCATGGAGCCCTGCGACCTACCCGCCCTGCCGCCACATGCAGTGGAGGAGAGGCCTGTG
GCCCCAAGAGCCTGGTAGCGCCTCCTGGGGCAGCACGTGGGTGGCGCAGGCTTAGTAACGCCGTGGACTGCAGCG
ACAATCAGTGGATGGTGTCTATGCACAGGTGTGAGTCCTCTGTTTGCAGTGGACATATTCCCTACCTGTTTT
ATTTCATAGGTACATGAAGTATTGTGTATAAAAAAAGAGATAAGATTTAACCAACATCAACAAAAATAAAACCCA
AAATAGTG

3301/5332
FIGURE 2892

GAGCTTGAAGAAATCCGCAAATGTGGGATGAAAACTTCCGTAACATCCAGGTTGATGAAGCTAATTTATTGACT
TGGCAAGGGCTTATTGTTCTTGACAACCTCCATATGATAAGGGAGCCTTCAGAATCGAAATCAACTTTCCAGCA
GAGTACCCATTCAAACCACCGAAGATCACATTTAAAAACAAAGATCTATCACCCAAACATCGACGAAAAGGGGCAG
GTCTGTCTGCCAGTAATTAGTGCCGAAAACCTGGAAGCCAGCAACCAAAACCGACCAAGTAATCCAGTCCCTCATA
GCACTGGTGAATGACCCCGAGCCTGAGCACCCGCTTCGGGCTGACCTAGCTGAAGAATACTCTAAGGACCGTAAA
AAATTCGTGAAGAATGCTGAAGAGTTTACAAAGAAATATGGGGAAAAGCGACCTGTGGACTAAAACTGCCACGA
TTGGTTCCAGCAAGTGTGAGCAGAGACCCCGTGCAGTGCATTAGACACCCCGCAAAGCAGGACTCTGTGGAAAT
TGACACGTGCCACCGCTGGCGTTTCGCTTGTGGCAGTTACTAATTTCTACAGTTTTCTTAATCAAAGTGGTCT
AGGTAACCTGTAAAGAAAGGATTAAAAATTTAAGATGTTCTAGTTCTGCTCTCTTTGTTTTAAAAATCACTGCTT
CAATCTACTTCAAAGAATGGTGTCTTTCTTTCTGTCCAATTTATCCAAAATCTTCAAGTTACATTTAACCCAT
AAGGTTTAAAAAAAAGGAAAAAAAACGGTTGTGGTTCCCTTTCTTCCCTACCCCTGCCACTCCCACTTTCTGGCA
CCGAGTTTATTTTTCACTTACTTACTTCCCCAGACCCCGGGCTCGCCTCCACAAAGGAGAAAAGACTGCCCTGGC
GGTCTGGTGGCTTTTCTTAGCATGTGTGGCACTGTTGCCAGTGTGGGAGTTGGTTTTAAATTCCTGACTCCA
GTTTATAACATCCTTTTAAAAAATTTAAAAACAAACAGCCACACCCCTCTCCAGTCTTCTCCTCAGTTCTTGT
GTGAAACTCCAGCTGATGTTACCACAGTAACATCAGTTAATTGGGCAAGCCCTGATGTGAGTGTGTAACTGAC
CTCTGGCCTGGCCTGCACAGAGAAGCCCTATAATCACAGGTCTGTGGTGGCCCCGAAATGGGGGGCCTGCTAGTC
AGGAGGATGCTGTGCACACTGTGTGTGATGAATCTCGCCAGAAAGGCTCCTGAGGTCCCAGGTTGGCACTTCTCC
CTGCAGCCATTGTAGAAGATCTGCTGGTCCCTTGCAAGGCAAAGCTACAGCCAGAATGTCCGTTTGAAGCTCCTAGC
TCATCTGTACCCGAGCTTCAATCCGAATGTGCCACGGAGCTTGCTCTCCACTTCCCTCCGTGAGTGGCCCTGCCAC
AGCCCTCCCTCGGCACACTTTGACCCCTTTGTAGGATTGGAATTAGCAGGACTCGGCTATTTAAAGCACCAGTCTG
GGGTGCGCTGGGCCCCTGCTGACCCCTCTCCAGAGCAGCCAGCCAGCCCGGGGAACAAGACGGACTTCTCTC
CCTTCGGACTCACAGCCTTTGCAGAGTCAAGCTCCACTTGAAGCTCACTCAGTAATATCCTTTCAATGTGTTTTA
TATTGTTTTGACTGCCTTTTTTGTAGAAATAAAAAATGACCTTAGAATTTATCGTCAGATAAACTGTAAAGAT
TTGAATATTAATGTCTTTTCAAGGCAAATGGGATTGTCCCGCACTAGTAGAGAATCCATGTGCTGACACCC
CAAGGAAGCCGACGATCCAAATGCCGTGTGTACCAACCCCGCTTCTGCCACTGGCGGCTTCCCTTCTTGGCTCT
TGGGGGGGACTAGATCCTGTGGAGAAGATGACTTAAACTTTGCTTTTTGTTTTAATTTAATTCTATAACTTGAG
ATCTTTCCGGGGCCTACAGGCGTGTAAGACAGCTTGGTCTGGTCTGTGCAGAAGTGGGGAGTGATGGGCAGGTTT
GGCAGCCTAACATTGTTAGGCGCATGGCCCTGCGGTGTGTACACGAACTCGGCTTCTTTGTCTAGGTACGC
CAAGGGCAGGTTTCTGGAGACTCCCTTGTGCCCCGGATGGCAAGGGCACCGGGCTGGCGTTTCCACATCTGTCTT
CATTAGCAGAAAAGTGATGATGGATTTTATTTCACTCACACTCCAGTTTGTAAATAAAATGCCAAATCTGTGACG
TATCCAAACAAGCCACCATTGTTCTTGTGCTTCTCTGGATCCAGAAATGTTGCCATTCTTGGAAGTGTCCCA
TTGCTTCGTATTTCTGCCAACGTAGCTCTGCCTGCCTGTCAACCCCTCACTGCACTCTGCTCATCAGGGAGGAT
ACCTGTGTGCCGGCAGCCCTCAGGGACTCTCAGCCCTGGCACTGGCACCCAGGGTTGGCCCCGTGAGCAGAGG
CTTGGCTTTGAGCCAGTGGGTGTCTCTCCTTTGGGCTGGGCGGCTTGTCTCTGCCAGCCATGCCCTCAGGGTA
GGCTCTGAGCAAGCTGGCGAACAGCCCTGGCTGTCCAAAACCAAAAAGCTGGGTCTCTGGAGGAGGGGCGAGC
TGTGGAGCAGCCACCCACTGCTGCCCCAAGCTCACTCAGGAATTCACACCCGCTGGTTTTCTGAAGTGTGCTGG
GTCCTTCCCTCTGCTCCCTACTCCCCACCACGGCAGAGAATAGGCTTTCTAAGATGCTGCGATCCCGTCTGCTG
CCCGTAATAAAAATGCTCTCAGACACTG

3302/5332
FIGURE 2893

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCC**ATGT**CCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCGCAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCCGTGGGTCCGGCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCGGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTGCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCCGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCA**ACTAAGCT**
GCTTCCGGGAGCTGCTGGGCAGGGCCCCACGCACGCGGACGGGACCCAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGCTACCCCAAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGCCCCGACGCTTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCAGGATGGCGTGAGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGTCCCCTGTGAGCCCACTCTGGAACCCCTTCTGGAACCCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGAGCCAGGA**TT**AGTCCTGGCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCTCATGCCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCCGAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTCAACACTGGGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGCTTTC

3303/5332
FIGURE 2894

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGGCGGCTCGGAGGGCGGGTGCCCGC
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTCCAGCATGTGGGCACCTCTG
TGTTCTGTCTAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACTCTGAGTGTGTGGATGGATGGGTGGATGGAGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGGTCTCAAGTGCCTTTGTGATTAAAGAAATGTTGGTCTATGA

3304/5332
FIGURE 2895

GAAC TCGGCTGCGGCTCCATGGTCTGAGTTGT CAGCCGTTGTTTTTTCGTGCTCGCTAGTCGCCGCCGCCGCTCC
GCCATGGGGGAAGCGACAGCACCAAAAAGGACAAAATGTACATTACCTGTGCTGAATACACTCACTTTTATGGTGGC
AAGAAGCCAGATCTCCACAAAACAAATTTTCGTGCTTTACCTTTTGACCACTGCAGTCTCTCTGACGCCCTTT
GTCTACCCAGTCTGCACTCCCGATGGCATCGTCTTTGACTTACTGAACATTGTTCCATGGCTTAAGAAGTACGGG
ACCAACCCCAGCAATGGAGAGAAGCTGGACGGGAGGTCCCTGATCAAGCTGAACTTTCCAAGAACAGTGAGGGG
AAGTACCACTGCCCAGTGTGTTTACCGTGTTACCAACAACACCCACATCGTGGCTGTGAGGACGACCGGCAAC
GTCTACGCCTATGAGGCAGTGGAACAGCTAAATATCAAGGCCAAGAAGTTCCGGGACCTGCTGACCGACGAGCCC
TTCTCCCGGCAGGACATCATCACCTCCAGGACCCACCAATTTGGACAAGTTCAATGTCTCTAACTTCTATCAT
GTGAAGAATAACATGAAAATAATAGACCCAGATGAAGAGAAGGCCAAACAGGACCCGCTTTATTATCTGAAAAAT
ACAAATGCCGAGACCCGAGAGACCCTGCAGGAGCTCTACAAGGAGTTCAAAGGGGACGAGATTCTGGCAGCCACC
ATGAAGGCCCGGAGAAGAAGAAAGTGGACAAGCTGAACGCTGCCACTATTCCACAGGGAAGGTACGCGCTTCC
TTCACCTCCACGCGATGGTCCCGGAGACCACATGAAGCAGCTGCCATCGACGAGGATGTGCTGCGCTACCAG
TTTGTGAAGAAGAAGGGCTACGTGCGGCTGCACACCAACAAGGGCGACCTCAACCTGGAGCTGCACTGCGACCTG
ACACCAAAAACCTGCGAAAACCTTCATCAGGCTTTGCAAGAAGCATTATTACGATGGCACCATCTTCCACAGATCC
ATCCGGAACCTTTGTGATCCAAGGGGGCGACCCACAGGCACAGGCACGGGTGGGGAGTCATACTGGGGGAAGCCC
TTCAAAGACGAGTTCCGGCCCAACCTCTCGCACACGGGCCGCGGCATCCTCAGCATGGCCAACCTCCGGGCCAAC
AGCAACAGGTCTCAATTCTTCATCACGTTTCGCTCCTGTGCCTACCTGGACAAGAAGCATACCATCTTTGGACGG
GTTGTTGGGGGCTTTGACGTACTGACAGCCATGGAGAATGTGGAGAGTGACCCCAAACTGACCGCCCTAAGGAG
GAGATCCGCATTGATGCCACTACAGTGTTTCGTGGACCCCTATGAGGAGGCCGATGCCCAGATTGCGCAGGAGCGG
AAGACACAGCTCAAGGTAGCCCCGGAGACCAAAAGTGAAGAGCAGCCAGCCCCAGGCAGGGAGCCAGGGCCCCCAG
ACCTTCCGCCAGGGCGTGGGCAAGTACATCAACCCAGCAGCCACGAAGCGAGCAGCAGAGGAAGAGCCCTCAACC
AGTGCCACTGTCCCATGTCCAAGAAGAAGCCAGTCGGGGTTTTGGGGACTTCAGCTCCTGGTAGCAGCAGGT
GGCCGCTGTGGACCTTGGTGGGGTTCAGGGCTGGGGGCCCATGTCCACATCTCCATTTCCAGCCTTTCTAGCCT
GCCCTCTGCTGCCAGCCAATAAATTGCTTGCCTGCTGCCTGCATCCCCTTTCTGGCCCCCTGGGAGCCACAGCC
TTCCCATCCCCTAACCTGTTGCCAAGGGCCTTGGCCCTGTTTCCAGGACCTGGCCCAGCCAGAGCCCACTGCTGG
GACCTTCAAGCACAAAGCCCTGCCCTACACCCAGGCTGGTGCCTCAGGCCTCCCTCTAGTAGGCAGGCCAGGTTA
GTGAGGAAGGACTGTGTCTCCAGATTGTGGTTTCCCTCTTAAAGACAGGGTCTTGCTCTGTTGCCCAGGCTCCAGT
GCAGTGGTGTGATCATGGCTCACTGCAGCCTCGACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCCTCGCAAG
TAGCTGGGACTACAGCCGTGCACCACTACATCCAGCTGTATATGTCTGGTTTCTTACCCCTACTTCTGTCTATCT
TCTCAGGGACAGCCTATTTATACAACAGTGTGGTCCCTGACCAACGCCATTACCTGGGACAAGTTTTAGACC
CCAGACTTACTGAGCCTAAGCCTCTGCAGGGTGGGCTTCTCGGTCTGTTTTGACAAAACCTCAGGGGCTTCTGAA
GGCTGGTGTGGACGGCAGCATTGAGTTTCTGCCGTGCCCTGCCTGAGCTCTCAGGGCCCTGCTCACCTGCTCT
GGCTGTGAACCACCTGGGCTTCATCTCAAGCCTGCCGTGGCTCTCTGTGCCCTGTGAGAATCTTGAGGGGACCC
ACACTGGGTTGAGGCCAGTGTCTCCTGCTGTGAGAACAAGTGATGTCCCTCTCCCCGCCCTCCTGTGAAGTGG
CCTTGCTGCTCTCAGGCCCGGCCA

3305/5332
FIGURE 2896

TAAATTTGCAGAACTTCAAATTGGCTATTCTCTTGCAAATGAACCCCTTAAAGTACAGTGTTATTTAAGAATCTT
CCAGAGGCAGTCAACAGACTTATACACTAAGGGCATTTTTGGTTTTAGCTTGTTCAAAAACAGAGGCCAGCACA
GATGACATTTTAGATACACTCTAAATTGAGAATGGTGCTAGTGGAACATGTTTATTTAAGCCAGTAGATTCTT
ATCTAGAAAAGCAGGTGAGCTAGCCCTTAGAGAAGGCTGTCCCGGGGCCCGCAGAGGTGCCCTTACTGAGGTGACA
GCCTCACAGGGTCTGGTACCAGGGGTGTGCCCTCAGCAGTGACAGCAGCTTAGGTGTGAGGCAGTTGCTGAGTG
GCTGGTCCATGTCTATAGAGTAACACACTGGACCGAGGAAAAGTCAGATTTCATTTTCTACCCTGGATGTACTTG
AAGAAAAAGAATTATTTTGCATATGAAAGAGGCCAGAACCCACAGGAAAACTTCAAACTTGACATTGCCCAG
AATGTTTAAATTTGTTTCAGAAAAGGTTAAAGCAACAAGTTTAGCCTTTGTGCATGAAGACGCCTGGCCTGCTAG
ACGCGTTGCCCGTCCCTGCGTGGTGCTGCCATGTCACTTGAAGTATAGAGGGGCTGTGCAATCTCCTAAGG
CCTGTGTTTCTGCCATATATTTTATTATAAATTACATCCACTCATCCACCTGCCCTCCACCAGGAGTGGGCACC
CCATAAGGGTTTAGGCCACTTTGCAGAGGATGGAGGTCAAAAACCACTCCCAGATAAGTTTGGTTTTCAACATTT
AGTAACTTGTCTCAGGGCAGAGGGCAGGCAGGGGGACCGAGGGGCAGCAGATAGGAGAGCACTGAGCCCGATAG
TTCTCAGCCTGGCAAGTGGCTCTGAAGCTGCCCTCAGACAAGGCTAGTCTAGGGGCAAGAGTGCGAGCTGGCTGA
CAATAAGAACGTGGCCACCTGCCAGCTTCACACCTCCCCGACTTCAGCCCTTCCTAAACCCAGACCTGCGGTC
CAGGCAGGCACTGGGCTGTGCCCACTCGAGCTCACTGCCACACACAGCATGCCTTTGGGTGCCATCTCTTTGCC
CAAGCCTGGAAGCCTTGGCAGGTGGGAAATGCCGCTGCCCTGGTGGGCATGCACTGAGATGCATCCACTCAGCA
GGAGTGACAGAGGCAGAAGTTCTTTAAAGCACATCTTCCACTTAGGAAAGGAAGGAAATCTTTGTACTGTCTTG
GAAGCCTCCACATCCGGCTATGCCCTGCAAGCTGCTTATCCCTGCGCTAGTCTCCCCCGAGGGTTTAGGCTGG
CCCAGCACATCCTGTCTCCTGAGCTCGCGTGCAGCCACCCAGAGCGCAGGGGTCACTGCACGCTGCAGGGCTCT
TGCTGCCATGGTCTCAAGCCTGAAGAGGCTCCGCCCAAGCTGGCCCATGAAGTTAGCAATGCCTGTGGCTTCA
GTCAATTGTCTTGAGACTGTGAAGAGGCTGAAAGACACCTTCCCGGTGGAAGAAGGAGTTCACTGAAACTTAT
CTTAACTGACCCTTCCCTTTGAGTGAGTCTTCATTCTCTCCCATGTGGGAACCCAGCCTCCGATGCCCCGGG
ACTAGGGGAAACAGTTGGAGGTTGCTGCCGTCCCCAGCCTGCCACGGGTGCGAGGACAGCCAAGTCTGAGTGAC
TCAAGATGCTTCACCTACATGGAAGAACTTCTAAACTCTACCGAGTGGTTTTGTATATACTAAAGTTCTATT
TAGAGCTTTCTGTTTTGGGCAAGTTCGCTGCTCCTTCTATTTGGGCACCTTGGTTTTTTGTACTGTCTTTTGTA
CGGCATTGATTGAACATTTTTTACTAGTAGTCTTATGACTTTTGTATTTTTTTTTTTTTTTTGTAAATTATACCAA
CAACACTTTTATCACTTTTTTTTTTGTGGGCTTCTGCAAAATACAAGCTCATTTTTAAACCAATGAACAGACCA
TGAGCTGGCTTCAGGGGAAGTGCTATTACAGGACCATATCCACCACCCTCTAAATTCCTAAACAATATCATCT
AGGACTTCTATTTAAGTTATTTAAAAATAAATCTTCTTGAGAGCCTTGGGAGGTGATGTCAGGGTTATAAATGGC
ACAGTGCAATTTGCTGTAGGAATGTGGTTTGGCATTGTTTTATACACACAGTATTTTTTATACCTTAATGCTTATT
CTTGATGGCATCTGTGAGATATTAGAATTGAAAATAAGAATCTTCCCAAATCCTTAAATTTACCTGATGCCCTC
ATCAGGTCGTAAAAAATCAAATGGTTTTAATAGCTAAAAAACTACAAATTAAGCTCTAAACAAACAACTACA
GAAATGTAAACCTTCATTTGCCAAAGGTCCTTGGTGGCCTGTCCCTGCCCTGGGAGCAGATGGCCCTGAAGCCC
TTCCCTCACTGTGCAGGCCACCGGTGAGGCTGGACGGTACCCATGGTGGCTTCACTGCAAGGAGCAGGACTGC
CGAGCTCAAGCACGGGGCCTTCAGCTTCCCTGTCTCTGCCACACCGCCAGCCCTTGGTCTTATCTGTGTGA
GGTTTACAAATAAAGCTTCTGATGTCAAATGTT

3306/5332
FIGURE 2897A

CTGTTTTCTCTTTATTTGCTTATATGTTAATATGGTTTTTAAATTGGTAACTTTTATATAGTATGGTAAACAGTAT
GTTAATACACACATACATACGCACACATGCTTTGGGTCCTTCCATAACTTTTATATTTGTAAATCAATGTTTT
GGAGCAATCCCAAGTTTAAAGGAAATATTTTTGTAAATGTAATGGTTTTGAAAATCTGAGCAATCCTTTTGCTTA
TACATTTTTAAAGCATTGTGCTTTAAAAATTGTTATGCTGGTGTGTTGAAACATGATACTCTGTGGTGCAGATGA
GAAGCTATAACAGTGAATATGTGGTTTCTCTTACGTATCCACCTTGACATGATGGGTCAGAAACAAATGGAAAT
CCAGAGCAAGTCTCCAGGGTTGCACCAGGTTTACCTAAAGCTTGTGCTTTTCTTGTGCTGTTTTATGCGTGTA
GAGCACTCAAGAAAGTTCTGAACTGCTTTGTATCTGCTTTGTACTGTTGGTGCCTTCTTGGTATTGTACCCCAA
AATTCTGCATAGATTATTTAGTATAATGGTAAGTTAAAAAATGTTAAAGGAAGATTTTATTAAGAATCTGAATGT
TTATTCATTATATGTTACAATTTAACATTAACATTTATTTGTGGTATTTGTGATTGGTTAATCTGTATAAAAA
TTGTAAGTAGAAAGGTTTATATTTTCATCTTAATCTTTTGTGTTGTAAACGTACTTTTAAAGATGGATTATT
TGAATGTTTATGGCACCTGACTTGTAAAAAATACTACAAAAAATCCTTAGAATCATTAAATTGTGTCCTT
GTATTACCAAAATAACACAGCACCGTGATGTATAGTTTAAATTGCAGTTTCTATCTGTGAAAACGTGAAATTGTCT
AGTCTTTCGTTATGTTCCCGAGATGCTTCCAGATTGCTCTGCATGTGGTAACTTGTGTTAGGGCTGTGAGCTG
TTCTTCGAGTTGAATGGGATGTCAGTGCTCTAGGGTTCTCCAGGTGGTTCTTCAGACCTTACCTGTGGGGGG
GGGGGTAGGCGGTGCCACGCCCATCTCCTCATCTCTGAACTTCTGCAACCCCACTGCTGGGCAGACATCCTG
GGCAACCCCTTTTTTCAGAGCAAGAAGTCATAAAGATAGGATTTCTTGACATTTGGTCTTATCAATATTGGGC
ATTATGTAATGACTTATTTACAAAACAAAGATACTGGAATGTTTGGATGTGGTGTATGGAAGAGCACAGG
CCTTGACCCATCCAGCTGGGTTTCAAGTACCCCTGCTTATAACTGCGGCTGGCTGTGGGCCAGTCATTCTGC
GTCTCTGCTTTCTCTCTGCTTCAAGTGTCTGAGCTGTAAAGTGGGAAGCAATATTACTTGCCTTGTATATGGTAA
AGATTATAAAAAATACATTTCAACTGTTTCAAGCATAGTACTTCAAAGCAAGTACTCAGTAAATAGCAAGTCTTTTAA
AATGCTGCTTTATTTCACTAAATTTTGTGTGAGGTGTCACTAAATGCCTGCAACAAACGTAACGTGTAATCT
GAGAGGAAACCCCTTACTAATCAGAGAAGAAACCCCTCTGTGCAAAACCTTCAGGGAAGTGAGCTGATCACACC
TAAACTGGGAGTTTGCAATGGGGTATTTGAAGCACTGTGGGAGTATCCACTGGCCCTCTCCCTGAGAGACTTAA
CAGTCTTCCCTGTTGTCCAGATTCTGTATAAGGCAATCAGAAATATCATCTTCTTGTTCAGCAGAGGAGCCTGG
TCCCATTTTCCCACTTTGTGATGGGCTTCTCTCAGCGGTAGCTCAGCAGTTCCAGATGGCAGTTTGGACCAGCA
TCTAGCTGGCCAGTTCGCTGTGTTTACTTAGAACCAACAGTTCAGAGCTGGCCTGGACCATCTGAGGGGAACA
GGAAACACCCCTAGGCTGTGGAAGCAAGTGCAGACCCCAACCCCGGCCCTGAAGCCAAGGGGGCAGGGTTTGGG
AGTGGCCAAAGAGAAGCAGTGCAGGGATGGGTTTTCTAGGGACAGGCTTAGCATTCCTGACTCTAGGAAGAAGG
AGCAGTGAGGCGGAGAAACAGTGGAGGGGATGGTGGCATTGGGCCCCATGGGGCCGAGATGGACACAGGGCTCGT
TCTCTTGAGTCTGGTGCCAAGGACAGCTGAAGACGACATCATTTTCAAGGTGGAGAGGAGAGAGTGGAGGGAGATC
ATGCCCTGTGATGTGTCTTTTGCAGGTGAAGGTGGGAGACAAGGTCTCTGCTGACGATGAGGCAGAGCCACCGTG
AAAGTTGTAATAGGAGGACTGCCCGCCGCTGGAAGGGCTGCAGTGACGCTAGGACACCCCTCTGCCTGCATGTCA
CGTTAGCTGGGCTGGGCGAAGTAGAAGACCAAGGGGAAGAGGTGCAGTGGGGAGACCAGGTGGGATGCAACCACA
GGACCAGTGGAGGGCTGTGGCACGTGGGCGGAGACTGAGTGGCTGGGCATGTGTTGTGGCTGAGCATGTGGTGT
GGGCAGTGGTCTTAGACCCCGCCATGTCCGACAATGATATAGAGCGTCTCAGCATCGCCAGTCTAGACTGTCTA
TGGAGAGCAGAAAGTTGTCTGGGGCTGCCTGGGGAACTGTGAGGCCAGCTATATCACCGTGCCTGATGGTGACAT
TACGGTGGTGGCAGGAGCAAGGAGAGAGGGGAAGAAGGACCCCGTCCAGCTTTAGTCACAAAATACCCAATGGAAAG
ATGCCAGTGCCAATCCTGTGGGTTTTCTTGGGACTTCACACTGGCTTTCTTATCTGCTCCAGATCCATTCACTAG
TCACTGAGTTCTGCCAAATACTTTGTAGCGCCAGAAGCCAGGAGCGGGGTCTGCAGCAGGGCAGTCCCCATTTT
CAGGAAATGCCTGGAGCTGCTGGTCCCTGAGAGAAAGGAAACATCTTTCAGCCGTACGCAGGCCAAGAAGGCCA
ATGTCCAGTAGCTTTGTGATTTTTTTATATTTTTTATTTATTTTATTTTGTAGATAGAGTCTTGTCTGTGCTGCT
CAGGCTGGAGTGCAGTGGCGTGATCTCACTCACTGCAACTTCCGCTCTGGGGTCAAGCAGTTCTGCTCAGC
CTCCCGAGTAGCTGGGATTACAGGCACACGCCACCAACCCAGCTAATTTTTGTGTTTTTAGTAGAGACGGTTTTT
ACCATGTGCGCCAGGCTGGTCTCAAACCTCCTGACCTCAGATGATTACGCTCCCAAAGTGTGGGATTACAGGTG
TGAGCCACTGCACCCAGCCTGTGATGTTTCTGTGGGGTTCCACAAATGTGTGTGTGTGTAAGAGCTGATGATTAC
AGCAAGAATGTGAACAGTAGCAGTTTTTCATTTGAAGGCAAGTTTTGTCTTTATCTGGGTATCAGAAGGACCCCTC
TGGGCCATTGTGCTTCTGTACTCAGAGCCACCCTAGTACTACGGGCACACACAGAAAACAGCAGCCTGCGTAC
TTTCAAAGGAAAGGCATCTTAAATACCAATGCCTGGAAAAATTATTTGTTTCCCTCTTCTTCCGTCTTGTTT

3307/5332
FIGURE 2897B

CCTAACTTCTTACCAAAGTTTAGAGTCTGAGTTTTTCGTATAATAATGTCCACATCCACACATCGGGCCTACAG
ATGCTCTCCCTTGAATCGACTGGAAACATGACACCGGTTCCATGCTCTGGAACGTGTACCTGTGATGTGCTGGGC
TGTGTCCCAAGCACAGGAATCCCAGCAGTTTCAGCTCGATGCAGAACCCACCATGCTCCAGACACAGGCTTGGGAA
AGACACGTCAAAATTAATACTAGGTAAGAGAAGCACCTGATTGGGTAGAAAGTTGGAGAGGAATCCTGGAATTT
TGTGGCCAGAAGGAGCCACTGCCCCCTTTTGTTTAGTAAGACTAGACAGTAACAGAAGCCAGTTGTCAGCTATGAA
AGTGGTGGGTGAAGCAGGGGAGGCTCCTCTATGGTGGGACCCTGGACAAGGGAAGCCGAATGTGTGAAGAAGGGG
TGCGGGGGTGTGCGGTGCCCTAGGACACTAGGGCAAAGGTTTCAAACCTGGAACAAGGCACTGGAGGAAGATCTG
CTGCCAGTCAGCAGTGCGGGCCCTCGAGTTAGCAGTCCGTGCGCAGAGGGGCCAGTTCTGAGACCAGTTTGGAGA
GTCAGGCAGTGACCCATTGGCCATGTCATAATTCCTTCAGCCTGCCCTCCTCTTTAATCCCAGAGAGTGCTCTTTC
TTCATACTTCTTTAAAAATACTAAATTGTTCCCATTCATGGGGAGCTGGCTAGGCTTTACAGGCTAGGAAATGT
AGGTTTTCTGAGATGGAACCATCTACACAAGGAGGAGGAAGGCACTAAGACTACAGATGAGACCCATGACAGGGC
TGAGCATTTGGAAGCCAACCTGGTTGCTTTTCAAGAATTGCTTTGTGGCTGGGTGCAGTGGTTCACACCTGTAA
TTGCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTGAACCCAGGAGTTCGAGACCAGCCTGGGCAACATATG
GGACACCCACCGCCCCCGGCTCTGCAAAAAAATTAAAAATTAGCCAGGCGTGGTGTCTATGAGCCTGTGGTCTCA
ACTACTCAGGAGGCTGAGGCTGGAGGATCGCTTGAACCTGGGAGGTCAAGGCTCCAGTGAACCATAATTGTGCCA
CTGCACTGCAGCCTGGGCGACAATTTGTTTTCTAAATTGCTTTTGAAGTCTACTGCATTACATATTCAAAAAG
CAGTGGTTTTCAAATACTTTATCACCGATATCCTTTTATGAAATGAAATCAGTAGAACTTTCTCTGCTCTGAAT
AAGCAAGGGTGGGAACCTGTCTACCTCCACAGATAGCATAATGTGCCTGCCATAGAGGAGCCAAAAATGGTGA
TGGGAACGTAGAGGAGAGCAAAATGTCAAAAAGACTGAGCAATTGAGAAAACAAAACAAGACCACAGATGACTGT
TAACGCCCTCCACAGTGGACCAAGAAAGGACAGAGAGCTGGCAGCATGGGCATCACTGTCTGGTCCGCAGCAGGAA
GGCCTCGCTAGGGAATTGAGTACAGTCATCTAACTAGTTTAAAAGTACAGGAAGGATGATTAAAGGCTATTGGAGA
GGTCATACAAATAGGGGAGGGGAGGCAATGGCTGATAAGACATGAATTTGTAAGGCGATGAGTATTGCAGTCAG
CAAAACAAACGAGACTGCTCTCCCAACACATAACTCAGCAGGGAGGCCAGGCATTGGTTTAAACCATTTAATATAA
AGAAGTTAAATTACAAATGCGCTAAGTGCCTAAAGAAGAATAAGTGCAGGAATGAGAGCAGCATGGACTGCCAC
AGTTTTAGAATAAGCACTGTCACTGCTAGATTGGAACAATAATCCATAAATTGGCCCCGTGTGGTGGCGGACG
CCTGTAGTCCAGCTACTTGGAGGCTGAGGCGTGAGAATCGCTTGAACCGGGAGGCGGAGGTTGCAGTGAGCCG
AGATGGCGCCACTGCACTCCAGCCTGGGCGTCAGAGTGAGAACTCTGTATCAAAAAATAAAAAATAAAAAAAGTC
CATAAATCTGCAATGTCTCAGTTAAGAAAGAAAGACTGGGCCAATGCAGATTTCAAACCGGAGAAAGTCATACTG
TCAGTGAAGGCCCGCTGTGGCCGGAAGGCGCCAGGGGATTAGCACCCCTGGACTCAGTGTTGCTGGGAAACAGGGC
CCCAAGGCTGGGAGCACAGTGTTTAAAGGGCATCTACCCAAGAAGGGAGCACAGGGCAAGGAGGAGCTGCAGGGG
GGCTTGGCTGCCAAAGTGAATTCTGAGGAGAGAGCTATTGCTGCCTACGATATGCAGGCTGCACAGAACACAAGT
GGAATCAGCAGGCAGGAGAGGCAGCTAACGACGCAGCCCGTTTCTTATTTCTGTTTTCTCACAAGCGATGAAAGT
GGAAAAGAGGGTGAGCAGGTGGCCACACATGTGCTCCAGTGCTGCGGCCCTCCGGGGACCATCAGCCAGGCC
CCGGGGAGGGAGCCAGCCACAGTGTGTCCGGCTTCTCTGAAGGGAAGAGACCTTGAATAGACTGAAGCGAAG
ACGGTTCTGCAAGGACAAGGCAGACCGAAGGCATTGGTTTTTTTTTTCAGATAAGGAGAATTAGACTCCCAAGTA
GACACCAGAGTCACTGTTTGGTTGGTGGGTGATAGTGGGGTCAAGTGGCTGCCTGTGCTCCCCAGGGTGAGCG
TGACTGTGCTAACCTGGGTGGGGCAGCATGCACACCCCTCTGGCAGCCCTTTGTTGCTCGCTGATGACAAGTTTG
GATGATCCCGCCAAACAGCTTGCTAAGATGTAGTCCCCAGTGTTGGAGGTGGGGCCTGATGGGAGGTGCTACCTT
TGTGAGATAAGGTTGTGTAAGGCCTGTGGCACCTCCCCACACTGACGCTCTCACCCCTGCTCTGGCCATGTGCC
GCGCCTGCTCCCACTTCCCCCTTCTGCCAGGAGTAAAGCCCCCGAGACCTCCAGAAGCCAAGCAGATGCTAGTG
CCATGCTTCTCTGCAGCCTGCAGAACTGTGAGCCAATTAAACCTCTTTTCTCTAT

[illegible]

3309/5332
FIGURE 2899A

GGACACGGAGCCGCGAGGAGACAGCTGAGGCCCGCGGAGACCAGGGGTGAAGCCTGGAGACCCTCTTGCCCTGG
CCTAGCTGCAGGCCCGGGATGCTTTGGGCATGTCCTCTGGAGCCCCACAGAAGAGCAGCCCAATGGCCAGTGG
AGCTGAGGAGACCCAGGCTTCCTGGACACGCTCCTGCAAGACTTCCCAGCCCTGCTGAACCCAGAGGACCCTCT
GCCATGGAAGGCCCCAGGGACGGTGCTCAGCCAGGAGGAGGTGGAGGGCGAGCTGGCTGAGCTGGCCATGGGCTT
TCTGGGCAGCAGGAAGGCCCCGCCACCACTTGCTGCTGCTCTGGCCACGAAGCAGTTTCACAGCTGCTACAGAC
AGACCTTTCCGAATTCAGGAAGTTGCCAGGGAGGAAGAAGAAGAGGAGGAGGACGATGACGAGGAGGAAAAGGC
CCCTGTGACCTTGCTGGATGCCCAAAGCCTGGCACAGAGTTTCTTTAACCGCCTTTGGGAAGTCGCCGGCCAGTG
GCAGAAGCAGGTGCCATTGGCTGCCCGGGCCTCACAGCGGCAGTGGCTGGTCTCCATCCACGCCATCCGGAACAC
TCGCCGCAAGATGGAGGACCGGCACGTGTCCCTCCCTTCCTTCAACCAGCTCTTCGGCTTGCTGACCCTGTGAA
CCGCGCCTACTTTGCTGTGTTTGATGGTCACGGAGGCGTGGATGCTGCGAGGTACGCCGCTGTCCACGTGCACAC
CAACGCTGCCCGCCAGCCAGAGCTGCCACAGACCCTGAGGGAGCCCTCAGAGAAGCCTTCGGCGCACCCAGCA
GATGTTTTCTCAGGAAAGCCAAGCGAGAGCGGCTGCAGAGCGGCACACAGGTGTGTGTGCGCTCATTGCAGGAGC
GACCCTGCACGTGCGCTGGCTCGGGGATTCCAGGTCATTTTGGTACAGCAGGGACAGGTGGTGAAGCTGATGGA
GCCACACAGACCAGAACGGCAGGATGAGAAGGCGCGCATTGAAGCATTGGGTGGCTTTGTGTCTCACATGGACTG
CTGGAGAGTCAACGGGACCCTGGCCGTCTCCAGAGCCATCGGGGATGTCTTCAGAAGCCCTACGTGTCTGGGGA
GGCCGATGCAGCTTCCCGGGCGCTGACGGGCTCCGAGGACTACCTGCTGCTTGCTGTGATGGCTTCTTTGACGT
CGTACCCACCAGGAAGTTGTTGGCCTGGTCCAGAGCCACCTGACCAGGCAGCAGGGCAGCGGGCTCCGTGTGCG
CGAGGAGCTGGTGGCTGCGGCCCGGGAGCGGGGCTCCACGACAACATCACGGTCATGGTGGTCTTCCTCAGGGA
CCCCCAAGAGCTGTGAGGGGCGGGAACAGGGAGAAGGGGACCCCAAGGCAGAAGGGAGGAGGCAGGACTTGCC
CTCCAGCCTTCCAGAACCTGAGACCCAGGCTCCACCAAGAAGCTAGGTGGTGGTTCAGGCCCCCTGCCCTCCCCCTC
CTCCCATCCTTGCTCTCTCTCCCTCAGAAGCCTCAGGACCCAAACAGGTGGCAGGCAGTGGACAGGGTGCCCGCC
CCACAGTGCTTTCCCCAGCACCCCAAGCCAGTCCGGGACACCCCGCAGCCCGTCTGGTGGCTGTGGAACCTGC
ACTGGGTGGCGGGCAGATGGTGGAAGGCAGCTTAGGAGACCTCACCAAAGAGAAGATGGACCGGCTCTTGCTCCC
AGCTCCTATTAGGCCCGGGGTGGGACCAGAGGTATAGGTGCCCAACGGCAGCCAAACCAAAGACACTGGTGTGC
ATGGGGCAGCATGGTTGTGCACGTGGGACCCTGGGGCGGACCAGGAGCCAAACTCTTGAAGCACCCCTGGGTG
AGGCCCAGCAGCGGAGTGGCCAGCCCCAGTTTCCATTGCTCCTCTCTGCGGCCAGGGCCAGGTGGGTTCATATT
TACAGATATGCCAGCCAGTCTGGTTCGCCACACCAAGTGTCCCAAAGAGGAGAGCGCAGCAGAGGCCAGGGTCT
GTTCTGTAGCAGCCACCCCTGCCCCACTCCAGGGCAGCCATGATGTGCTTGGGCCACCAAGGGCCTTCCGGG
CTGCTCTCTTCCCTGAGCCCCGAACCGGCAGCGCACATGTGCTTTTGTGGTGTGTTTGTGTTTTTCCAGGGAG
GTCTAATTCGAAGCAGTATTCCAGGTTTTCTCTTTGTTTTATCAGTGCCAAGATGACCTGTTGTGTATATAAT
TTAAGCAGAGCTTAGCATTTATTTTATTCTTTAGAAAACCTTAAGTATTTACTTTTTTAAAGCTATTTTTCAAGGA
ACCTTTTTTTTGAGTATTATTGAATTTATTTCTAAATCAGGATTGAAACAGGAACCTTTCCAGGTGGTGTAAAT
AAGCCATTCAAGTGCTTACACAGCTTTGAAGAACTAGGACTGCAGTGGGCTCGGATAGGCCCATTGAGGTTTT
TAGAAAAGCAGGATTTGTTTTGTTAGGGAGGCATGATTTGGTGAGATCTTCTGGAAGAGTTTCCGCCTCTTT
GTGATGCTGAACACCCCAAGGTTCTCCCTCCCCCGCTGCCAGGTGACTGGCAGGAGCTGCGACTGCCACGT
AGTGGTGCCTGGGCCCCAGACGGGGCTCTGGGCATCCCGGGTGACCTTGGCCCATCTGCCTGCATTCCACCCC
CTTGGGCCTGGCTGGATCCCAGGCAGAGGGACCTTGCTGCTGTGTGATTGGAACATTCCCAAATATCTTGTGAAT
TTGTAATCAAATTGGTCTCATTGGGAAAGACTCTTAATTAAGAGGCTCAGGCAAGCACAGAGGCAGCCCGTGGGT
CTCTGTCTCAGTCTGGAGGCAGCAGGGATGTGCTGGGAGTCCATGGCACAGGCCACAGCCCCACCTTGCCGC
GGTGGCTGGCAGCACGCCTGCCTTGCTCTGCCCCATGCCCTGAACAGGCATGAGAGCTCCACGTCCCCCTAGTGCA
CCCTGAGAGGGGGCTCACAAGTGACCGATCCTGGGTGCCTCAGGGAGCTCACTGAGGGCGTGCAAAGTTGAAAGT
GGCAAAGGCTGGGGGAGGTTGTCGGGTAGAGGGAAGAGGGCAGGGGGCTAGGGGAGGACTCAGAGGCCATCTGCAG
GGCCAAGCCACAGGAAGGGCTGAGCTGGAGGTGGGCAGGGCTGCTCCAGGCAGGTGAGAGCAGTGCAGGGGGAGG
AGAGGAGAAAAGGGAGGAAGCTGGGCTGTGTGGTCCCCATGAAGGCATTGAGAGTCCACCTGCAGACAGCGAGAGC
CCCAGGAAGGTTTGCACAGCTGTGCCCAAGCACCTTGGCCTCCTCTCAGCTCGCCGAGGAGGCACGCTAGAGCC
GCCTTCCCGGTGGGAGCCCTCTGTCCCACAGGGAGCGGGAGCCAGCTTGTGCTGGGGCCCTACCTGCATGCCAG
CCTTACCCCTCATTCTACAGCACAGATGAGGTTGAGACCATGAGTCAATGCATTGCTTAAGGTCTCTTATTTA
CAAAAAAAAAACCTTAACATAGTCGCTGTCATTGACACATTGAGAGATGGTTGGCCACAAACAATGACCAAGTA

3310/5332
FIGURE 2899B

TTGCTTGGCTTAACTTGAAGGCCTGCTGTCTCCTTCTGGGGGTCAGGGACGCAGCTCCACCCTCACCCTAGCCC
ACCCTGCCCCTGGGCATAACCTTGACGAAGAGAGAGAATGATTGGCATCTGCTTTTCTCTTTTCTTTGCTAATAA
TTCTGTTTCTGGCTGCCGAGAGTGAAGTTTCACCATGTGGAGGTTTGGCTCCTATCACCTGGTGGTCTGATTCTAT
ACCCTAGCCTGAGGCTCCACTGGAAGATCTCGCAGCCTCAGTGTATGGGAAACCCTTTCCCCAGGCTTGTCCAG
CACTGCCGCTCCCCACCCCTGAGCCAGGACCCAGAGGATGGCCATGCCCCGTGCCTGGCAGAGGTCTGGTGCCA
GCACTGGGAGCTGCTCCGCCCTTGCTTGGGGCCGAGGGAGCCCTCGTCCACCCTGCACAGCAGCTGGGCACAG
AGGAGCGCTCTTCCATCTTGACCAGGACTGCACCAAGAAGCACCAGGTGTCTTCAGCCTCCAACCTCCGGGGCGA
CCTTCTCTTCCAGCCACAGTCCCATGAGGGCCCTAGCCAGGGACACTGGTCTGTAAATTGTAATCCTTTCTCCA
GCCCAGCTCTCCACTTGTTCCTTGTGTGAGCTGAGCAGGCAGTGCACCTCTGAGTGTCCCTTTTGTAAGGCCAG
GGGTTGCACTGAGTCTGCAGAGGCCGCGACCTCCTAGAACGCTGTGGGTGCAGGTGAGCCGGCGTGTCTGGGGA
GATGCTGCCAGCACACAGGGGCCCTCCTGCTGCCAGCAGGTTGGGGTGGTTAAGTCTTATTAGTGTCTATTCTTA
AAATTAAGTGGGCTGGAGAAGAATGGAGCTCCACATGCCAGCACCGTATATGGAATACAAAAGCTGGGGAAGCAG
GGCCTGCCTTACAGGTGTGGCTGACTCTGAGCCCAGGCCTGCAGGGGTGGAGGGCAGTCCCTCAGAATCCCAGAG
GCAGTCCCAGCCTCAGAACCCAGGATAGGAAATGGGTGTGTTTAGTGGGGAAGGGACGGGGTGCAGACGGCAGG
GCCAGTATGGGGCCCCCTCCCTCTCCTCTCCTCTCCTATGGTGAGCCACGCTGGGCACCGGGCCGTCTCAGCCG
TGTTCCCAGGGCTGGGAGGACAGCTCTGGCCCTTCTTAGGCCTAGCCTCGTCCCAAGCTAAATGTAAGCCAGTTG
GGCTGTGTTAAAGGAAGCAGTGTGTTTTGGTTCGATCTGCTCTGTAGCTCAAGGGGGCAGCCCCCAGAGTCCT
GTGCATTCTGCCAAGGCTCCATAGCTTTGCCAAATGCACGGAGCTCTGCCATTCCGGTGCAGTGCAGGCCTTGCG
AAGGGTTTATCTGCGTTCGTCTCGGTGGGCTTCTCCTGCATGGGAGTTGTGTTCTGTGCAAGGGGGAGCTTTGC
TCCAGGACAGGATGACTGTCTTCCCTATTCTTAGGGACAAGTCCCAAGATGCCAGAAAGGCAGTCTCCCAAGGAC
CCACCATGCAGAAGTGCAATAAACCACAAGTTCTG

3311/5332
FIGURE 2900

GGCTGCGGAGAGTGTGCGGCTCCAGGTGGGCTCACGCGGTCGTGATGCTCTCGGGAGTCGGATGTTGAGGCTCAGC
AGTCTCATGGCAGCAGTGCCTGTTTACAGCCCCATGGCAGCGTTACCCAGTCCCAAGGCTCCTCCTCACAGTCCC
AGGGCATATCCAGTCTCTTACCAGCACGATGCCAACTCCAGCCAGTCTCTCACTCCAGCTCTGGGACACTGA
GCTCCTTAGAGACAGTGTCCACTCAGGAACCTCTATTCTATTCTCTGAGGACCAAGAACCTGAGGACCAAGAACCTG
AGGAGCCTACCCCTGCCCCCTGGGCTCGATTATGGGCCCTTCAGGATGGATTGCGCAATCTTGAATGTGTGAATG
ACAACTACTGGTTTGGGAGGGACAAAAGCTGTGAATATTGCTTTGATGAACCACTGCTGAAAAGAACAGATAAAT
ACCGAACATACAGCAAGAAACACTTTCGGATTTTCAGGGAAGTGGGTCTTAAAACTCTTACATTGCATACATAG
AAGATCACAGTGGCAATGGAACCTTTGTAAATACAGAGCTTGTAGGGAAGGAAAAACGCCGCTCCTTTGAATAACA
ATTCTGAAATTGCACTGTCTACTAAGCAGAAATAAAGTTTTGTCTTTTTTGTCTGACTGTAGATGATCAGTCAG
TTTTATCCTAAGGCATTAAGAGATGAATACATCATGTCAAAAACCTTTGGAAGTGGTGCCTGTGGAGAGGTAAAGC
TGGCTTTCGAGAGGAAAACATGTAAGAAAGTAGCCATAAAGATCATCAGCAAAAGGAAGTTTGCTATTGGTTTCAG
CAAGAGAGGCAGACCCAGCTCTCAATGTTGAAACAGAAATAGAAATTTTGAAAAAGCTAAATCATCCTTGCAATCA
TCAAGATTA AAAAC TTTTTTGATGCAGAAGATTATTATATTGTTTTGGAATTGATGGAAGGGGGAGAGCTGTTTG
ACAAAGTGGTGGGGAATAAACGCCCTGAAAGAAGCTACCTGCAAGCTCTATTTTTACCAGATGCTCTTGCTGTGC
AGTACCTTCATGAAAACGGTATTATACACCGTGACTTAAAGCCAGAGAATGTTTTACTGTCTCTCAAGAAGAGG
ACTGTCTTATAAAGATTACTGATTTTGGGCACTCCAAGATTTTGGGAGAGACCTCTCTCATGAGAACCTTATGTG
GAACCCCCACCTACTTGGCGCCTGAAGTTCTTGTTTCTGTTGGGACTGCTGGGTATAACCGTGCTGTGGACTGCT
GGAGTTTAGGAGTTATTCTTTTTATCTGCCTTAGTGGGTATCCACCTTTCTCTGAGCATAGGACTCAAGTGTAC
TGAAGGATCAGATCACCAGTGGAAAATACAACCTTCATTCCTGAAGTCTGGGCAGAAGTCTCAGAGAAAGCTCTGG
ACCTTGTCAGAAGTTGTTGGTAGTGGATCCAAAGGCACGTTTTACGACAGAAGAAGCCTTAAGACACCCGTGGC
TTCAGGATGAAGACATGAAGAGAAAGTTTCAAGATCTTCTGTCTGAGGAAAATGAATCCACAGCTCTACCCAGG
TTCTAGCCCAGCCTTCTACTAGTCGAAAGCGGCCCCGTGAAGGGGAAGCCGAGGGTGCCGAGACCACAAAGCGCC
CAGCTGTGTGTGCTGCTGTGTTGTCGAACTCCGTGGTTTGAACACGAAAGAAATGTACCTTCTTTCACTCTGTCTAT
CTTTCTTTTCTTTGAGTCTGTTTTTTTATAGTTTGTATTTAATTATGGGAATAATTGCTTTTTTACAGTCACTG
ATGTACAATTA AAAACCTGATGGAACCTGG

3312/5332
FIGURE 2901

GGCGCTGGGCGGCTGCGGCGCGCGGTGCGCGGTGCGTAGTCTGGAGCT**ATG**GTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCTGCTTCTGTCTGGGGCAGCCCGCTCCGCCGCCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCAGAGAGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCAGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTAGAAGAAGAGAAC
CAAAAACTTTTGTAGAAAATCAGCTTTTACGAGAGAAAACTCATGGCCTTGTAAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCCAAGTTGTACCCCTCCAG
AACATCTCCCATGGATTCTGGCGGTATTGACTCTTCAGATTACAGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCCTTACCAGCCTCCCTTTCTCTGTGAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAAC**TA**ATTCTGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAAATCGAGGAAGCACCTCTCAGCCCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCCTGTAGAAGATGACCTCGTTCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCCTTTCCCCATTTCAGTGACA
TGTCCTCTCTGCTTGGTGTAACCAATTCTTGGGAGGACACTTTTGCCAATGAACTCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTGACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTAAGGAATGATCCAATACTGTTGCCCTTTTCTTGACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGACTTTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCTAGAGAATTCCTCTATTTGTTTCAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTTAAGATTGTACTTTTATCTTAAAAGGTGGTAGTTTTCCCTAAAATACTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTGGCATCCTGGCTTGCCCTCCAGTTTTAGGTCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTCTCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAAACTACCCATG
CAATTAAAAGGTACAATGC

3313/5332
FIGURE 2902A

GCGGCCGCGGGGCCGCGCGCGGGCCAGGAGACGGCGTTTCGTGGAGGTGGTGTCTGTTTCGAGTCGAGCCCA
AGCGGCGATTACACCACCTACACCACCGGCCTCACGGGCGCGTTCTCGCGGGCCGGGGCCACGCTCAGCGCCGAG
GGCGAGATCGTGCAGATGCACCCACTGGGCCTATGTAATAACAATGACGAAGAGGACTTGTATGAATATGGCTGG
GTAGGAGTGGTGAAGCTGGAACAGCCAGAATTGGACCCGAAACCATGCCTCACTGTCTTAGGCAAGGCCAAGCGA
GCAGTACAGCGGGGAGCTACTGCAGTCATCTTTGATGTGTCTGAAAACCCAGAAGCTATTGATCAGCTGAACCAG
GGCTCTGAAGACCCGCTCAAGAGGCCGGTGGTGTATGTGAAGGGTGCAGATGCCATTAAGCTGATGAACATCGTC
AACAGCAGAAAGTGGCTCGAGCAAGGATCCAGCACCGCCCTCCTCGACAACCCACTGAATACTTTGACATGGGG
ATTTTCCTGGCTTTCTTCGTCTGTGGTCTCCTTGGTCTGCCTCATCTCCTTGTCAAAATCAAGCTGAAGCAGCGA
CGCAGTCAGAATTCCATGAACAGGCTGGCTGTGCAGGCTCTAGAGAAGATGGAACCCAGAAAGTTCAACTCCAAG
AGCAAGGGGCGCCGGGAGGGGAGCTGTGGGGCCCTGGACACACTCAGCAGCAGCTCCACGTCCGACTGTGCCATC
TGTCTGGAGAAGTACATTGATGGAGAGGAGCTGCGGGTCATCCCTGTACTCACC GGTTTTCACAGGAAGTGCGTG
GACCCCTGGCTGTCTGCAGCACACCTGCCCCACTGTGCGCACAAACATCATAGAACAAAAGGGAAACCCAAAGC
GCGGTGTGTGTGGAGACCAGCAACCTCTCACGTGGTGGCAGCAGAGGGTGACCCTGCCGGTGCATTACCCCGGC
CGCGTGCACAGGACCAACGCCATCCCAGCCTACCTACGAGGACAAGCATGGACTCCCACGGCAACCCCGTCACC
TTGCTGACCATGGACCGGCACGGGGAGCAGAGCCTCTATTCCCCGAGACCCCGCCTACATCCGCAGCTACCCA
CCCCCTCCACCTGGACCACAGCCTGGCCGCTCACCGCTGCGGCCTGGAGCACCGGGCCTACTCCCCAGCCACCCC
TTCCGCAGGCCCAAGTTGAGTGGCCGAGCTTCTCCAAGGCAGCTTGCTTCTCCAGTATGAGACCATGTACCAG
CACTACTACTTCCAGGGCCTCAGCTACCCGGAGCAGGAGGGGCAGTCCCCACCTAGCCTCGCACCCCGGGGCCCCG
GCCCCGTGCCCTTTCTCTCCGAGCGCAGTGGCAGCCTGCTCTTCCCCACCGTGGTGCACGTGGCCCCGCGCTCCAC
CTGGAGAGCGGCAGCACGTCCAGCTTCAGCTGCTATCACGGCCACCGCTCGGTGTGCAGTGGCTACCTGGCCGAC
TGCCAGGCAGCGACAGCAGCAGCAGCAGCAGCTCCGGCCAGTGCCACTGTTCTCCAGTGACTCTGTGGTAGAC
TGCACTGAGGTGAGCAACCAGGGCGTGTACGGGAGCTGCTCCACCTTCCGAGCTCCCTCAGCAGCGACTATGAC
CCCTTCATCTACCGCAGCCGGAGCCCCGTGCTGTGCCAGTGAGGCGGGGGGCTCGGGCAGCTCGGGCCGGGGACCT
GCCCTGTGCTTCGAGGGCTCCCCGCTCCCGAGGAGCTCCCGGCGGTGCACAGTCATGGTGTGGCGGGGCGAG
CCTTGGCCGGGCCCCGTGCTCTCCCTCGGGGGATCAGGTGTCCACCTGCAGCCTGGAGATGAATACAGCAGCAAC
TCCTCCCTGGAGACAGGGGGCCCAATAGCTCTACCTCAGAAGTGGGGCTCGAGGCTTCTCCTGGGGCCGCCCT
GACCTCAGGAGGACCTGGAAGGGGGGCCACGAGTTGCCGTGCTGTGCTGCTGCTGCGAGCCCCAGCCCTCCCCA
GCCGGCCTAGCGCCGGAGCAGCTGGCAGCAGCACCTTGTTCTCGGGGCCACCTCTACGAGGGCTCTGGCCCCG
GCGGGTGGGGAGCCCCAGTCAGGAAGCTCCAGGGCTGTACGGCCTTACCCCCGACCATTGCCCCAGGACAGAT
GGGGTGAAAATACGAGGGTCTGCCCTGCTGCTTCTATGAAGAGAAGCAGGTGGCCCGCGGGGGCGAGGGGGCAGC
GGCTGCTACACTGAGGACTACTCGGTGAGTGTGCAGTACACGCTCACCGAGGAACACCGCCCGGCTGCTACCCC
GGGGCCCGGACCTGAGCCAGCGCATCCCCATCATTCCAGAGGATGTGGACTGTGATCTGGGCCTGCCCTCGGAC
TGCCAAGGGACCCACAGCCTCGGCTCCTGGGGTGGGACGCGAGGCCCGGATACCCACGGCCCCACAGGGGCTG
GGAGCAACCCGGGAAGAGGAGCGGGCTCTGTGCTGCCAGGCTAGGGCCCTACTGCGGCCTGGCTGCCCTCCGGAG
GAGGCGGGTGTCTGTCAGGGCCAACCTCCCTAGTGCCCTCCAGGACACTCAGGAGTCCAGCACCCTGCCACTGAG
GCTGCAGGACCGAGATCTCACTCAGCAGACAGCAGCAGCCCCGGGAGCCTGAGCTCAGGAGGAACCTTACCTGGA
AATTGGGAACGTATGGAGACTCCAAACTGACTTCTTTCAAAAAACAAAAACAAAAATTTTTTTAGCTTTGACA
AACACACAAAAGTGGTAATAAAGAGAGCCCTCCTTGTCAACCCAAATGTGAGCCCCCTGTGGCAAAACACCCC
CTACCCCATTAACAAATCAACAGACAAAATTCTCCGAGTCCTTTGCCTCTTTTGATAACATGTTGTTCTGTTTTG
TAAAGTGTGTGTGCTTGGGGTTCCGAGGTGTGGGATTGAGTTCTCTGCTTTGTTTTTTTTAAGATATTGTATGT
AAATGTAAAAAGTTATTTAAATATATATTTTAAAGAACCCCTAACTGCCAACTTTTGCTGAAAAAGAAAAAAAT
CACTGCTGCATTAAATGAACCACATCATGTGTAGATACTGTTGTCTCCCTGAAGGGAGCTCAGGCCTTTGAAAAG
CTCAGGGCTTACCTGCTTAGAAAATGAACCAGAACTTGAAGTAAAGCTAGTTGATAGGGGTACAGGCTCTGA
GGAGCAGTGCAAAACTGCCTCTTCTTCTCGTGGCAATCCCAATGTACACGATTTCAAGGTCTCAGAGCCCATG
CCTCTCCAGCCCACGCCTTTAGGCAGGTGATGGCAGCAGCTAGGAATAGGGTGTACATGATCCACAGCCCTGCGG
AGCCAGGTCAAGCCGCTGCTATGAAAGCTCCAGGGTGTGGGGACGATTCTGCCAGTGTCTCAGTCTGTCCCC
TCAGGTCATGGTCCCAAGTGAAATGACAGAGTTACAGCCCTGGTCTTGGCTGAGGTCCAGGTATAGTAAGGGC
ATGTTCTTGGGGCCCTCGACCTGAACTCTGACCCTCCGGGCAGGGAAGAGGAGTTGTCCCTTTGGTTGTCTCTG

3314/5332
FIGURE 2902B

GCTTTGGAGTCCTTTGCAAAAATATTTTGGGCCCCCTGCCACTGGCTGCAGAAATGGCTCGACGGGGTGTGTGGG
GACAGACACCCAGAAGGAATGTACTTTTGTGGCCTTGGTGTCCGATGGGGCTGGGGGAGAGTGTCTCTCCACTGAC
CCAGCAGCACACCCATGTGCAGTGC GCCTGCATCTGTGTGGGGGAGCCACACCCCTTGGCTGTCTTCCCTTGG
GCTGCCTTTCTGGGGGATGTGACTGGACCTACGAGGTCTGCACTGAGCTCCATTGAAATGATACTTTCCCTATC
CCATTTCCCCACGGAAGCACCGCTTCAGGGTTATTAGTCTCTGCCTCATGGCTGAAATGTCTCATCTCGTCT
GCAGATGTCTACTATCCTGTCTACCTAATGCACTATTATGTATTGATTCTCCATGAGACAGAGAGAGAGAGAC
TATCAGATAGTTTACACCCAAAGGGTAGGTTTTGTATATTTTCCAGCCTTTTTTATTAAGGGGAAGGGGAGAG
TTTAAAAACCCAAACCGTTGTGGTTTTAAGGTGTTTCATTTTTTAAAGGGAGAGAGAATCTATTTAAAGCTATTT
CAGATCAGGGATTGTCACTCTTTTTTGTCCAATGTATTCTTGTCTTTAAAAAATTTTTTTAGAGGAACTA
ATATTAGTCTTTGTGTTCACTAACTCTTCTGGTCACTTGTATTTATTTATTCATTTCATCATCAGATATTTGTTG
CCATCTGAAAGAACTGGCCAGTGGGTCTGAAAGCTCGCTTGAGAAATAGGAACTTGAGACCTGGCCCCCTGTGG
GTAGGAGAACAAGGACCACCTGGGTTCTCCAGTCTTGAACGAGAATCTCACTCTTATCAGAATGTTTTTCTTAAC
CTCAGCGTATGATGAGGAAATTTACTTATCTCTAGCTAGGATTTGACAAATCCAACATCAAATGATCAAAACAT
TTGCCACTGAGGCTTCACTGGTGAGATCCGTTCTCCGTCTCGGGTGCAGTCCCTTGGGGGCTGCTCCTCGGACT
GCGCCCCGCACACCTGTTATCGAGGGTGTGAGAAGCGCCTAAGCTGGTGACATGTGATCTGGGACGCCTTCATTT
CTCGGGCCAGGAGTAGCAGCTGCTAAGGACAGCAGCTTGCAATTGCGTGGTTTTAGGGAAAGCAGGGTCTGGCTTTT
AATATGAAGTGC AAAAGCAGCTTCTCACTGATATTTTTTGTGTGTTTCTGGGGGGTTTTTTTTGTTTTGTTT
TTAATGCCTTTGAGTGCATATTTTCTTCCCTCGTCTGAAACCGAACTCCCAAAGTGGCTTTCTTTAGCCCTGGCTG
GAAACCACCTCTCAATAGCCTTAAGCAATAAATAGATGAGTAGAGAATGTGGCTTCAACTGGGCTTATTAAAGT
AAGTGTGTCTAGTTTTCACTTGAACAAGTGATAGCTGCAGATGGCGAAAGAAACCCATTTAATTTTTGTAGCTTA
CAGGTGGTAGAAACAAAATGCAATTTTAAACCTTAAATACCAATACCAACCATTGCCTTTTTTTTTTTTGAG
ATGGAATTTTGCTCTTGTCACCCAGGCTGGAGTGCAATGGCGGATCTCACCTCACTGCAACCTCTGCCTCCCGG
GTCCAAGTGATTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCGCCACCACACCCAGCTAATTT
TGATTTTTTGGTAGAGACAGGGTATCTCCATGTTGGTCAGGCTGGTCTTGGAATCCCGACCTCAGGTGATCCGCC
CACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCTGCCAGCAATACCAACCATTGTCTT
TTAAATTCGTGTTGGCTTCTCAGACAGGGAGATCACTGGAATAAAATAACCGATGGTCTTATTTTTGTACACGTA
AATCAAAAGAAATGTCTCTTTGAAGTTGTAAGACTCCACCAATGACAGACACCCTTTTCGGTGGA CTCTGAGTG
GTGTGTAGTGGTTTTATAGCCATGGAACTAGGAGTATCTCACTTTCCACTGAGAACCCTTGCCCCAATCCCTC
TAAGTTGGGGTGTGGCAGTTGGGCAGGGTCAAGTGACCCAGCCCTGGCTGTAGGACAGCCATATACAGTGAAGAG
TTCTAGAACCAGCTAAAAATGGAAGTTTGGGTGTTTACCAACAAGGTACCTCTTTATGGATGCAGCCCCAGTAAG
CTGGCTTTAACTCTCAGCTCCTTCCCTGTCTCCTCCTAATCCAAGCCCTTTTATAAAATAAAGCCCCCTTCTGTCC
CACTGCTCACATACTTATGTGCTGCTAGTCTCTACTCGAAGTTCGTGCAGGACTAATGCTTTTAAATGAGGTCT
AAAAAATAATTACTAGTGCAGACTATTATTCTTTAAACAGAAGTGCCTTTTTCTACTCTTTATGTAAACTCTTTC
TATTGTGTTGGTCTAACAAGGCACTATTTTAAATTTTTTAAATTTTCCCATAGCACTTAAAGAGATTTTGTA
AGACCTTGCTGTAAAGATTTTGTAATAAAATGGTCTAAGGGCTCTTTTCCAACATTACCATTTTTAAAAATGT
TTTAAAGCTAGAAAGCAACTTATGTATATTCTGTATATGTATAGCAGCACATTTTATTATGGAAATATGTTCT
CAGAATATTTATTTACTAATATATTTATCTTAAGCCATGTCTTATGTTGAGAGTGTGACATTGTTGGAATAATCA
TTGAAATGACTAACACAAGACCCTGTAAATACATGATAATTGCACACAGATTTTACATATTTGCAGACCAAAA
TGATTTAAACAAGTTGTAGTCTTCTATGTTTTGTAACAAATTGTACACATGACTGTAAAAAATAACAATT
TTATCAAGTATGTGTT

3315/5332
FIGURE 2903

TGCTGACTAATCCGCGGGCCGCGGGGAATGGGTGGCGGCCAGCCGGTCGGCAGGGGTACGCGGCCGGGTGTGC
GCGGAATGGATTAGGGTTCTCGGGTCGCGCCCGGAGCTAGAGTCCTGACTCCCAGCCGGGGTCCCGACCGGC
CTTTCGGGGTTGCCGGGCGCGCTCTGCAAAGGGGAACTGAGGCCCAAGGAAATTGAGTATCTCTGCAAAGTCAC
CAGCTGAGTTTGAACCAGACAGATCCTGGGACCCCTACTCTATCCGCCACCGGAAGAATCTCCGTCCTTGTCTT
TCCATTCTGCCCTCCCGGCTTCCCAGTAAGCACACAGCCCCAGGACCACCCTTGACCGTCCTCAACCAAGCGATG

CATGCCAGGGGCCCCCATGGCCAACTGTCCCCAGCACTGCCTCTGGCCTCCTCAGTCCTGATGCTGCTGATGAGC
ACCCTGTGGCTGGTGGGGCCGGCCCCGGCCTGGTCTGGCCCCGGAGCTGTTGCTGGACCCCTGGCAGGTGCAC
CGGCTGCTGACCATGCCCTGGGCCACACGGCCCTGCCAGGCCTGCTCCTGAGCCTGCTGCTCCTGCCACTGTG
GGCTGGCAGCAGGAGTGCCACCTGGGCACGCTGAGATTCTGTCATGCCTCAGCCCTGCTCGCCCTGGCTTCTGGG
CTGCTGGCAGTGCTGCTGGCAGGCCTTGGGCTGTCCAGTGCAGCCGGCAGCTGTGGATACATGCCTGTCCACCTG
GCCATGCTGGCTGGGGAGGGACACCGCCCTAGACGGCCCCGTGGGGCACTGCCACCGTGGCTGTGCGCGTGGCTG
CTGCTTGCCCTGACCCCACTGCTCAGCTCTGAGCCACCCTTCTGTCAGCTCCTTTGCGGCCTCCTTGCCGGCCTG
GCCTATGCAGCTGGGGCCTTCCGGTGGCTGGAACCCCTCAGAGCGACGGCTGCAGGTGCTGCAGGAGGGCGTCTTG
TGCAGGACCTTGGCGGGTGCTGGCCCTGAGGCTCCTTGCCACCCCGGGTAGCCTGGCGGAGCTGCCTGTCAAC
CATCCTGCCGGAGTGAGGCCTCCCATCCCTGGACCGCCTTATGTGGCCTCCCCTGACCTCTGGTCCCACTGGGAA
GACTCAGCCCTGCCCCACCAAGCCTGAGGCCTGTGCAGCCACCTGGGAGGGCTCCTCAGAGGCAGGCCTGGAC
TGGGCTGGGGCCAGCTTCTCCCCAGGGACTCCGATGTGGCGGGCCTTGATGAGCAGATGCTGCAGGAGGGCATC
CAGGCCTCGCTTCTTACGGGCCAGCCAGGAACCCAGAGCGCACCATGGCTGTCCAAGTCCTCTGTCTCCTCT
CTGCGGCTGCAGCAGCTGGAGCGCATGGGCTTCCCTACGGAGCAGGCGGTGGTGGCACTGGCAGCCACAGGCCGT
GTGGAGGGTGCCGTGTCACTGTTGGTTGGAGGACAAGTGGGCACTGAGACCCCTGGTGACCCATGGAAAGGGTGGG
CCTGCCCCACTCCGAGGGTCTTGGGCCTCCCTAGCCCCAGGCAGAGAGTGGGGCACAGGCAGGCCCTTGGGTGCTAA
GGGCTGGGCTGCATGTGGGTAGCCCGAGCTCCTACTCTGTCTAAAGAGGGCCACAGTGGGGAGCAGGGGCACCTC
TGGAGGCAGGAGAGGGCCCCCAGCATGCTGCCCTAGTACGTGTTTAGAATAAAAAACCAAGTTTGTTTTCAACCTG
GACCTCCTTGGAG

3316/5332
FIGURE 2904

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTGAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTACCCCAAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACTGCTACAGTACCAACCAAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCACTGCACC
TACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAAGCC
CAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCCCTCTACCAGCTATTCCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCACTAGTTACCCACCCCAAACTGGATCCTACAGCCAAGTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTCAATCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGCAGGGGAAGAGGGGGATTTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCACCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAGG
CGATGCCACAGTGTCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTCTG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCGCGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACCAGAACTTCGCCTG
GAGAACAGAGTGCAACCAAGTGTAAGGCCCAAGCCTGAAGGCTTCCTCCCGCCACCCCTTCCGCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTTCAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTTTACCATTTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCCTTCTTTAAAAATGGTTGTTTAAAGACTTTAACAATGG
GAACCCCTTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAAGTGTAAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCCAAATGTTTATAAA

3317/5332
FIGURE 2905

AGGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGGGGACGCATAGAGCTGCGGCTCGGGCGGGCG
CTCCCTGCGGCGGCCCCGGGCTCCGGCCCCGCTGGGGCAATGCTCCCCGGGGCCGCGGGATGAGCCAGCGA
TCCTGAACTGTGTTCTCTGCCACAGTGACTCGGCGCGGTCCGGGCATGGCAGACCCAGTGGCGGGCATCGCGGGCT
CGGCGGCCAAGAGCGTGCGGCCATTTTCGCTCCAGTGAGGCCTACGTGGAGGCCATGAAGGAGGACCTGGCCGAGT
GGCTCAATGCCCTGTACGGCTGGGTCTCCCGGGTGGTGGCGATGGCTTCCTGACAGGGCTGGCCACGGGCACGA
CCCTGTGCCAACATGCCAACGCCGTGACCGAGGCTGCCCGTGCAATTGGCAGCCGCCCGCCCGGCCGAGGTGTGG
CCTTCCAGGCGCACAGTGTAAGTGCTGGCTCCTTCATGGCGCGGACAACGTGGCCACCTTCATCGGCTGGTGCC
GCGTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGGACCTGGTGCTGCGCAAGAACGAGAAGAGCG
TGGTGCTGTGCCGTGCTGGAGGTGGCGCGGCGTGGGGCACGCCTGGGCTGCTGGCCCCACGCCCTCGTGAGTTTG
AGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCAACGCCCTGCCGCTGGGGAGGACACCACTG
AAACCGCCCCCGCACCAAGGACTCCTGCCCGCGGCCCCCGCATGACACCCAGCGACCTGCGCAACCTCGACGAGC
TGGTGAGGGAGATTCTGGGCGGCTGCACCTGCCCTGACCACTTTCCCATGATCAAGGTCTCAGAGGGGAAGTACC
GTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGAGCCACGTGATGGTGGCAGTGGGTGGTGCT
GGGACACGCTGGAGCATTACCTGGACAAGCAGACCCGCTGCCGCTGCTCCTCCACTGCTCATGCCCCACCCAGC
CGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCGCCACCACCACTCCCCGCCCTGCTAGCCAGTCCCTGGGA
GTGAGCGCCGGGGTCCCCGGCTGAGATGACTCCCCGTTAGCTTACGAAGCACAAAGGAGGGGGCCGAGACCCAC
CCAGGCCCCGGGATCAGCTGCCCCCCCATCCCCGCTCCCGCCGCTACTCCGGGGACAGTACTCCTCAGCCTCCT
CCGCCAGAGCGGCCCCCTTGGTACCCGCACTGATGACACAGGCACTGGCCCCCGGAGGGAGCGACCCAGCCGGC
GGCTGACCACAGGCACCCCGGCTCTCCGAGACGGCTCCTGCCGCGCAGCCAGTCCCGAGACCGGCTGGATCG
CGGCCGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCAGCTGTGGTCCCCAGCCCTGCCCGCGGGCCCCGGAG
CCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATCGAGACGGGCAGCACTCATGGGTGCCAAGGGG
CAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCCGTGCCCGCAGCCCTGCAGACCCCCGGCTTTC
CCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACACACCGGCCAGCATCTTCCGCACACCCCTGCAGCTCGACCC
GCAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCTGGCCAATGCCCGGGCCCTTGAGGCTGTTGC
TAGCGTGAACCCCACTGGACCAGCCCCTGACCCAGCTCGGGCCCCCGACCCCTCCAGCTCCTGACTCTGCCTATTG
TTCTCCAGTTCTCTCTTCTGTCCTCAGCGTCTGGGTGGCAAATGTGGCCAACCTGGGGACTCTGGCCGGAC
GGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCCAGCTCCTCCGATGAAGGCAGCCCTGCCCTGGCAT
GGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTGAACCCCTCGAGGACCTGGGCACGGGGTCGGAT
GGACACACAGCCAGACCGTAAACCCTCACGTATCCCCACGCCTCGGGGCCCCCGCCGCCCTCCGGACCCGAGA
GCTGGGGACATGGCATGCCCTGCACTCAGTACCCCGAGGGCTGAGCCAGATTCTGGATGTGATGGACCAGCTC
AGCTGTCCCCAGACCCCATCCCTTCTCCTTTTCTGTCCTTAACCCCTTCTGCATCAGGGAGCCCCCTCTGC
CTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCACATGGCACAATGGGACCTCTGTTGTACATTCC
GGTTGGGGGATGAGCGTGTCTATTTAATTACTAATATTATTGAATGCCTTAGAGGAGGCCGGCGAGCCCGGTGT
TCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTTGCTCCAGC

3318/5332
FIGURE 2906A

AAGCCTGGCTACAGATAAGGGACCAAAATGACTGACTCAAAATATTTCACCACGACCAAGAAAGGGGAGATCTTC
GAGCTGAAGGCAGAGCTCAACAGTGACAAGAAGGAGAAGAAGAAGGAGGCAGTGAAGAAAGTGATTGCATCGATG
ACCGTGGGCAAAGATGTCACTGCCCCTCTTCCCCGATGTGGTCAACTGCATGCAGACGGACAACCTGGAGCTGAAG
AAGCTAGTATACCTCTACTTGATGAATTACGCCAAGAGTCAGCCTGACATGGCCATTATGGCCGTCAACACCTTT
GTGAAGGACTGTGAGGACCCCAACCCCTCATCCGAGCCCTGGCAGTGGGACCATGGGCTGCATCCGCGTTGAC
AAGATCACAGAGTACCTGTGCGAGCCACTCCGGAAGTGCCTGAAGGACGAGGATCCATATGTGCGCAAGACAGCA
GCTGTGTGCGTGGCCAAGCTCCACGACATCAACGCCAGCTGGTGGAGGACCAGGGCTTCTGGACACCCTTAAA
GACCTCATCTCCGACTCTAACCCCATGGTGGTGGCCAATGCAGTGGCAGCGCTCTCAGAAATTGCCGAGTCTCAC
CCCAGCAGCAACCTGCTCGATCTGAACCCACAGTCCATCAACAAGCTGCTGACAGCCCTCAATGAGTGACCCGAG
TGGGGCCAGATCTTTCATCTGGACTGCCTCGCCAACTATATGCCCAAGGACGACCGCGAGGCCAGAGCATCTGT
GAGCGGGTCACCCCAAGGCTCTCCCATGCCAACTCCGCTGTGGTGTCTCTGCTGTGAAGGTGCTGATGAAGTTC
ATGGAGATGTTGTCTAAGGACTTGGACTACTACGGCACACTGCTCAAGAAGCTGGCCCCACCCCTGGTCACACTG
CTGTCAGCCGAGCCAGAGCTGCAGTATGTGGCCCTGCGCAACATCAATCTCATCGTGCAGAAAAGGCCTGAGATC
CTGAAGCATGAGATGAAGGTGTCTTCGTGAAGTACAACGACCCTATCTACGTGAAGCTGGAGAAGCTGGACATC
ATGATCCGCTGGCCTCTCAGGCCAACATCGCCAGGTGTTGGCAGAGCTGAAAGAGTACGCAACAGAAGTGGAT
GTGGACTTTGTACGGAAGGCTGTGCGTGTATTGGCCGCTGCGCCATCAAGGTGGAGCAATCTGCGGAGCGCTGT
GTGAGCACGCTGCTCGACCTCATCCAGACCAAGGTCAACTATGTGGTCCAGGAGGCCATCGTGGTTCATCAAGGAC
ATCTTCCGCAAGTACCCCAACAAGTATGAGAGTGTGATTGCCACACTGTGTGAGAATCTGGACTCCCTGGATGAG
CCTGAGGCCCCGGGCTGCCATGATCTGGATTGTGGCGAGTACGCGGAACGGATCGACAACGCAGATGAGCTGCTG
GAGAGCTTCTCGAGGGCTTCCATGACGAGAGCACACAGGTCCAGCTGCAGCTGCTGACAGCCATTGTGAAACTC
TTTCTAAAGAAGCCAACAGAGACCCAGGAGCTGGTGCAGCAGGTCTCAGTTTGGCCACTCAGGACTCAGATAAC
CCAGACCTGCGGGACCGTGGCTACATCTACTGGCGCTGCTGTCCACGGACCCGGTGGCAGCCAAGGAGGTGGTG
TTGGCTGAGAAGCCACTCATCTCTGAAGAGACGGACCTCATCGAGCCACACTGTTAGACGAGCTTATCTGCTAC
ATCGGCACGCTGGCTTCCGCTTACCATAAGCCTCCAGTGCCTTTGTGGAGGGGGGCGGGGCGTCTGTCACAAG
AGCCTGCCACCTCGCACGGCCTCGTGAAGCGCAGAGAGCCCTGAGACAGCCCTACTGGAGCACCTCCTGGGGAG
CAGCCAGATGTCTATCCCGCCGACCTGCTGGGTGACCTCTCAACCTGGACCTCGGCCCCCGAGCTGAGC
GGCCACCCCTGGCCACCTCTCGGTGCAGATGGGAGCTGTGGACCTTCTTGGCGGTGGCCTTGACAGCCTGATG
GGGATGAGCCTGAAGGGATTGGGGGCACCAACTTCGTGGCACCTCCAACAGCAGCAGTACCAGCCAATCTTGGA
GCACCCATCGGCAGTGGCCTGAGTGACCTCTTTGACCTGACCAGTGGCGTGGGCACCCCTGTGAGGATCATATGTG
GCCCCCAAAGCAGTCTGGCTCCCAGCCATGAAGGCTAAGGGGTGGAGATCTCAGGCACCTTACCCGCCAGGTG
GGCTCCATCTCCATGGACCTGCAGCTGACCAACAAGGCCTTGCAGGTGATGACCGACTTTGCCATCCAGTTCAAC
CGCAACAGCTTTGGCCTGGCCCCCGCCACCCCTCCAGGTCCACGCGCCACTCAGCCCCAACAGACAGTGGAG
ATCTCCCTGCCTCTCAGCACGGTGGGCTCGGTGATGAAGATGGAGCCTCTGAACAACCTCCAGGTGGCCGTGAAG
AACAACATCGATGTCTTCTACTTCAGCACCTTGTAACCACTGCACATCCTCTTTGTGGAGGACGGGAAGATGGAC
CGGCAGATGTTCTGGCCACATGGAAGGATATTCCAATGAGAATGAGGCCAGTTCCAGATCAGAGACTGCCCC
CTCAATGCAGAGGCTGCGAGCAGCAAGCTGCAGAGCAGCAACATCTTCACTGTGCGCAAGAGGAACGTGGAGGGC
CAGGACATGCTCTACCACTCCCTGAAGCTGACCAACGGCATCTGGGTGCTGGCGGAGCTGCGGATCCAGCCGGGC
AACCCAGCTGCACGCTGTCCCTGAAGTGTGAGCACCAGAGGTGTCCAGCACGTGTACCAGGCCTACGAGACC
ATCCTCAAGAACTGAGACCCCGCCAGCGCCACCCAGCCTTCTGCCCGCCCATCGAGGAGGCCCTCGGGGG
CAGCACATCTTCTCCTCGCAGGAGGGACAGGCGGGGTCCAGGCCACTCAGTGGGTCCCTGGTCTGATGGC
AGAACCCACCCGATCCCTGGGGTAGGGACACCCCTCCTGGGGTGAGAGCGCAGTGCCTCCCGTGTCTTGGG
ACACCCCTGCTCCTGTGGCTGTGATGTGGGGTTAAGTGAGGTGGGGACCAAGGAAACAGAGCCAGAGCAGCCAC
AGAAGCTGTGCTGAAGGGTGAGTGTGGAGCTTGCCCTCCGGCTCACAGCCCCGGCAGCCCTGGCTCCTTGGT
CTCTCCGGTTGGTGTAAAGGGCCCTCCACTGCCACCTCTCATGGGATGGACCTGCCAACCTGGCCTGGGTGTG
CAGGGAGGGGTCCCTTGGTACCAGGAGAGCTGCTCACTTAGGGCTGGGGCTCAAGGAGCTGTAGGTGCCGGC
AGAGGGGCAGAGCTAGGCTGGGAGGAGCCAGGGCCTGCACCACCACTTGCAACCACCAGGCTGGTGCCCTGCA
GCTGTGCCAGTTGGGGCACAGCCTCCCGAGTGTGACCCACATGGTCAAGACCAGGCAGAGCTCCAGAGCCCC
TGCTCGGGCTCCCAACCGACTGGCAGCTGCACTATCCCAACTCCCACTTCTGCCCCAAGGGTGGTCACTGCC

3319/5332
FIGURE 2906B

TGTGATACATTCTCAGTGTGCGCTCTGAGCCCAGGCCTCCTGCCACAAAGACTGGGCCGAGAGATGGGGCTGGG
TAAGCGGGTGC GCCTCCTGTTTGGGTTTCTTCGGGGTTTCTCTGTAGTGTCTGCTGCCCTCCTCCTGGCCTCCCA
GGTTTCAGTTGTGTCTGACAGAGCATTAGGTTTTCTGTACTGCTGTGTAATAATAAGAAAGATTTCGGCTTTT
GGC

3320/5332
FIGURE 2907A

ATGATGAGCTTCGGCGGCGCGGACGCGCTGCTGGGCGCCCCGTTTCGCGCCGCTGCATGGCGGCGGCAGCCTCCAC
TACGCGCTAGCCCCGAAAGGGTGGCGCAGGCGGGACGCGCTCCGCGCTGGCTCCTCCAGCGGCTTCCACTCGTGG
ACACGGACGTCCGTGAGCTCCGTGTCCGCTCGCCAGCCGCTTCCGTGGCGCAGGCGCCGCTCAAGCACCGAC
TCGCTGGACACGCTGAGCAACGGGCGGAGGGCTGCATGGTGGCGGTGGCCACCTCACGCAGTGAGAAGGAGCAG
CTGCAGGCGCTGAACGACCGCTTCGCCGGGTACATCGACAAGGTGCGGCAGCTGGAGGCGCACAACCCGACCCCTG
GAGGGCGAGGTGCGGCGCTGCGGCAGCAGCAGGCGGGCCGCTCCGCTATGGGCGAGCTGTACGAGCGCGAGGTC
CGCGAGATGCGCGGCGCGGTGCTGCGCCTGGGCGCGCGCGGTACGCTACGCCTGGAGCAGGAGCACCTGCTC
GAGGACATCGCGCACGTGCGCCAGCGCTAGACGACGAGGCCCGGCGAGCGAGAGGAGGCCGAGGCGGCGGCCGC
GCGCTGGCGCGCTTCGCGCAGGAGGCCGAGGCGCGCGCTGGACCTGCAGAAGAAGGCGCAGGCGCTGCAGGAG
GAGTGGCGGTACCTGCGGCGCCACCACCAGGAAGAGGTGGGCGAGCTGCTCGGCCAGATCCAGGGCTCCGGCGCC
GCGCAGGCGCAGATGCAGGCCGAGACGCGCGACGCCCTGAAGTGCACGTGACGTGCGCGCTGCGCGAGATTTCG
GCGCAGCTTGAAGGCCACGCGGTGCAGAGCACGCTGCAGTCCGAGGAGTGTTCCGAGTGAGGCTGGACCGACTG
TCGGAGGCAGCCAAGGTGAACACAGACGCTATGCGCTCAGCGCAGGAGGAGATAACTGAGTACCGGCGCTCAGCTG
CAGGCCAGGACCACAGAGCTGGAGGCACTGAAAAGCACAAGGACTCACTGGAGAGGCAGCGCTCTGAGCTGGAG
GACCGTCATCAGGCCGACATTGCCTCCTACCAGGAAGCCATTACGACGCTGGACGCTGAGCTGAGGAACACCAAG
TGGGAGATGGCCGCCCAGCTGCGAGAATACCAGGACCTGCTCAATGTCAAGATGGCTCTGGATATAGAGATAGCT
GCTTACAGAAAACCTCCTGGAAGGTGAAGAGTGTGCGATTGGCTTTGGCCCAATTCCTTTCTCGCTTCAGAAAGGA
CTCCCCAAAATTCCCTCTGTGTCCACTCACATAAAGGTGAAAAGCGAAGAGAAGATCAAAGTGGTGGAGAAGTCT
GAGAAAGAACTGTGATTGTGGAGGAACAGACAGAGGAGACCCAAGTGACTGAAGAAGTGACTGAAGAAGAGGAG
AAAGAGGCCAAAGAGGAGGAGGGCAAGGAGGAAGAAGGGGTGAAGAAGAGGAGGCAGAAGGGGGAGAAGAAGAA
ACAAAGTCTCCCCAGCAGAAGAGGCTGCATCCCCAGAGAAGGAAGCCAAGTCACCAGTAAAGGAAGAGGCCAAAG
TCACCGGCTGAGGCCAAGTCCCCAGAGAAGGAGGAAGCAAAATCCCCAGCCGAAGTCAAGTCCCCTGAGAAGGCC
AAGTCTCCAGCAAAGGAAGAGGCCAAAGTCACCGCTGAGGCCAAGTCCCCAGAGAAGGAGGAAGCAAAATCTCCA
GCTGAGGTCAAGTCCCCGAGAAGGCCAAAGTCCCCAGCAAAAGGAAGAGGCCAAAGTCACCGGCTGAGGCCAAGTCT
CCAGAGAAGGCCAAGTCCCCAGTGAAGGAAGAAGCAAAAGTCACCGGCTGAGGCCAAGTCCCCAGTGAAGGAAGAA
GCAAAATCTCCAGCTGAGGTCAAGTCCCCGAAAAGGCCAAGTCTCCAACGAAGGAGGAAGCAAAAGTCCCCTGAG
AAGGCCAAGTCCCCAGAGAAGGAAGAGGCCAAGTCCCCTGAGAAGGCCAAGTCCCCAGTGAAGGCAGAAGCAAAAG
TCCCCTGAGAAGGCCAAGTCCCCAGTGAAGGCAGAAGCAAAAGTCCCCTGAGAAGGCCAAGTCCCCAGTGAAGGAA
GAAGCAAAAGTCCCCTGAGAAGGCCAAGTCCCCAGTGAAGGAAGAAGCAAAAGTCCCCTGAGAAGGCCAAGTCCCCA
GTGAAGGAAGAAGCAAAAGACCCCCGAGAAGGCCAAGTCCCCAGTGAAGGAAGAAGCCAAGTCCCCAGAGAAGGCC
AAGTCCCCAGAGAAGGCCAAGACTCTTGATGTGAAGTCTCCAGAAGCCAAGACTCCAGCGAAGGAGGAAGCAAGG
TCCCCTGCAGACAAATTCCTGAAAAGGCCAAAAGCCCTGTCAAGGAGGAGGTCAAGTCCCCAGAGAAGGCCAAA
TCTCCCCTGAAGGCGGATGCCAAGGCCCTGAGAAGGAGATCCCAAAAAGGAAGAGGTGAAGTCCCCAGTGAAG
GAGGAGGAGAAGCCCCAGGAGGTGAAAGTCAAAGACCCCCCAAAGAAGGCAGAGGAAGAGAAGGCCCTGCCACA
CCAAAAACAGAGGAGAAGAGGACAGCAAGAAAGAGGAGGCCACCAAGAGGAGGCTCCAAAGGCCAAGGTGGAG
GAGAAGAAGGAACCTGCTGTGCGAAAAGCCCCAAAGAATCCAAAGTTGAAGCCAAGAAGGAAGAGGCTGAAGATAAG
AAAAAAGTCCCCACCCAGAGAAGGAGGCTCCTGCCAAGGTGGAGGTGAAGGAAGACGCTAAACCCAAAGAAAAG
ACAGAGGTGGCCAAGAAGGAACAGATGATGCCAAGGCCAAGGAACCCAGCAAACAGCAGAGAAGAAGGAGGCA
GCACCGGAGAAAAAAGACACCAAGGAGGAGAAGGCCAAGAAGCCTGAGGAGAAACCAAGACAGAGGCCAAAGCC
AAGGAAGATGACAAGACCTCTCAAAAGAGCCTAGCAAGCCTAAGGCAGAAAAGGCTGAAAAATCCTCCAGCACA
GACCAAAAAGACAGCAAGCCTCCAGAGAAGGCCACAGAAGACAAGGCCGCAAGGGGAAGTAAGGCAGGGAGAAA
GGAACATCCGGAACAGCCAAAGAACTCAGAAGAGTCCCGAGCTCAAGGATCAGAGTAACACAATTTTCACTTT
TTCTGTCTTTATGTAAGAAGAACTGCTTAGATGACGGGGCCTCCTTCTTCAACAGGAATTTCTGTTAGCAATA
TGTTAGCAAGAGAGGGCACTCCAGGCCCTGCCCGAGGCCCTCCCCAGGCGATGGACAATTATGATAGCTTAT
GTAGCTGAATGTGATACATGCCGAATGCCACACGTAACACTTGACTATAAAAACTGCCCCCTCCTTTCCAAAT
AAGTGCATTTATTGCCTCTATGTGCAACTGACAGATGACCGCAATAATGAATGAGCAGTTAGAAATACATTATGC
TTGAGATGTCTTAACCTATTCCCAATGCCTTCTGTTTTCAAAGGAGTGGTCAAGCCCTTGCCAGAGCTCTCT
ATTCTGGAAGAGCGGTCCAGGTGGGGCGGGGACTGGCCACTGAATTATGCCAGGGCGCACTTTCCACTGGAGTT

3321/5332
FIGURE 2907B

CACTTTCAATTGCTTCTGTGCAATAAAACCAAGTGCTTATAAAATGAAAATGTTGCTGCTGTTATTCTCTTTCCC
TGGGAAGGCTGGGGGCAGGGCAGGGGAGGTCTGGATGTGACACCCAGACTGCATGGGACTGAGCAAGCATCAGT

3322/5332
FIGURE 2908A

ACCACTTGAAGAGAGGTTCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACCTTAAATGTGTAGTTCCAGTCTTCTATGCAGAGTCTCTCTGCGCTCCCTCCTTCTCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCTCCGCGCTGAGCTTCCGGCCTCTACGCTCGCTTCCGGTTCGGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGC GCGGGCAAGCTTTGCTCCGCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGAGCTGTGAGGAGGAACAACCATGTCATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTTAAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTATAGGAGTTTATATA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCAACATGGGAGACCCCTACCAGCAAACTGTCACGCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCTCCAGCCCCGCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTGACACAGGCTCAACAAGCAGTATGAGACAGCCAGACACCTGCCGCTCC
CCTCTATGTCTCTTTGTTTCCAGGCTGCGTATGGGCGAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCGGAGACCCACACTGGGGGTTTCAAGTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTGCTCGACCTGAAGTGCAAAGATGACAGTGTGCTTACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAGGCCAAAGTGACAACCTGCCATGGAGCTGATCACCCTCATCAGTGCAGG
TGACTTGGCTGTCTCTGACTCAGTCTGAGTTGCTTGTATCCTGGGGATCATGGAAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTAAGTGGAGCTAGGTCACCCCTATTT
GTGGGTGAGCAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAACTTCTGAAGACCAGGGTGCAGTCCCGCTGGCCCTCCACAAACA
GTTTGATCCCTAGAACATGGCATTGTGCCAGTTACAGTGATTGCGAGTACCTCTTCCCTGCCAAGGTGTGTCTC
TCGCTTGGTGAAATGGGTGACAGTTGCCATGAGGATTACATGGAGCTGCACTTCACCAAGACATGTGGATGC
GGGACTGGCTGGGGACACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTGAACCTGGCTACTCTCCATCCACCTGTTTTCCAGCTCTGTTTGAAGTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTGCGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCAAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCCAGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTT
CCCCAAGGCCTCACCTGAGCACTGGGCTTCTGCTTCTGCTCTGGCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGGCGTCACCTGACCAAGTGGCCTTTGTCTGTGGTTCCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGAAAAAGATTCCAATTCTGCAGAGAGATGCTCACCTCTTGTCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCTCATGATCTTGATTTTATTATCCCAAGTTTCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAACTCTTCCCTCCCCACCCGCTCTTCCCATAGTCTGTGAGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAAAACAGAAGACAACTCAGTTGATC
CTTGAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAACTTAATAAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTCAATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTACAAGGGGGCTGAGTGCAGTGGCTCAGCTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGTGGATCAGTTAGGTCAGGATTTGAGACCAGCTGGCCGACATGGTGAAACCCTGTCTACTAAAAAA
CATGGAAATTAGCCTAAGCGTGGTGGCGCATGCCTGTAGTCCAGTTACTCAGGAGGCTGAGGCAGAAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAAATAATAAATAAGAAAGCCATAAGGAAGAAAATATATCTACTATTAAGTAGAAGTGGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

3323/5332
FIGURE 2908B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTTTATGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCTCAACCTCTCCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCTCAAATATAATTATTTGATTAA
GAGAAGTCTTGGAAGATAGGTAACAACCTTTAAATGTTTCAAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGATCTTGACCCCAACATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGC GCGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

3324/5332
FIGURE 2909

CCACGCTCCCATTTTACCGAGGTGGATCCTGAGGCCAGAGTGGGCAAAGGGCTTGCCAAGGTCGCAGAGCGCGC
AGAGGATTAGAACCTTGACTTCCGTCCAGCACCTGCGGAGTTGGAGACGCCCACAGGAAACGCCCACCTGACCGG
GTGAGTGAGGGGCGGGCGAGCCGAGGGGTGGAGTTTATTCGCGCCCCGCTCCGCCACCAGGGCTTGGGGCG
GGGCCTTCTGCAACCTTTGCGGCTCCAACATGGCTCCGCGGCTGTGCAGCATCTCTGTGACGGCGCGGCGGGT
CTGGGGGGCCCCGGGCTCGCGCTGGGGACGTTGCGTCTGCAGCTGCGGCGCGTTTCTATTCCAAGGACAATGAA
GGCAGCTGGTTCCGCTCCCTCTTTGTTTACAAAGTGGATCCCCGGAAGGATGCCACTCCACCCTGCTGTCCAAG
AAGGAAACCAGCAACCTCTATAAGATCCAGTTTCACAATGTAAAGCCTGAATACCTGGATGCCTACAACAGCCTC
ACGGAGGCTGTGCTGCCCCAAGCTTACCTGGATGAGGACTACCCATGCTCACTCGTGGGCAACTGGAACACGTGG
TATGGGGAGCAGGACCAGGCAGTGCACCTGTGGCGATTCTCAGGTGGCTACCCAGCCCTCATGGACTGCATGAAC
AAGCTCAAAAACAATAAGGAGTACCTGGAGTTCCGAAGGGAGCGGAGCCAGATGCTGCTGTCCAGGAGAAACCAG
CTGCTCCTCGAGTTCAGCTTCTGGAATGAGCCACAGCCCAGAATGGGTCCCAACATCTATGAGCTGAGGACATAC
AAGCTCAAGCCAGGAACCATGATCGAGTGGGGGAACAACCTGGGCTCGGGCCATCAAGTACCGGCAGGAGAACCAG
GAGGCAGTGGGCGGCTTCTTCTCACAGATAGGAGAGCTCTACGTGGTGCACCATCTCTGGGCTATAAAGACCTG
CAGTCTCGGGAGGAGACTCGAAACGCTGCCTGGAGGAAGAGAGGCTGGGATGAAAATGTCTACTATACAGTCCCC
CTGGTGGACACATGGAGTCTAGGATCATGATCCCCCTTGAAGATCTCGCCTCTGCAGTGATGCTGCCTACACCTC
CACCTCCTTCCCCTTCTCCCTCAGGCAACCCCGACAGACAGTGGCACTCCTGGTCTGCTGTCTTGGTTTTGTCT
TGGCTCTGGGAGGACTCTGAGGGGCGAGTGTCTAGTTTCAAGACAAGGGGGAACCTGAAGGCTGACAAGTTCTGAGGAT
TACAGCTCTGCCCAGGCCCTTTCTACTTTCCCTGCCTGCCTCCCTCCCCCTGCTAGAAAGTAGTTTCTGATTTCCC
TGAATGAAAGATAGTGATCTTTTAGGCCTTCATTTATCTTCTAAAATTCCTCATCTCAAGGCCACCAGTCCCCAG
TTATCACCTTGGAAATCCTCTGTTTAGCTTAGTTGCACAAAAGGTAGTATGTCCAGTGGCTAGAGGTGGGGTGG
GAAGAGAGGAGGCCAGGCCAGGCCCTCAGGAATTCCCTGGTTTCCACTGGGCCACCCACTTGCTGGACAGTCTGA
GCCAAGTCCCTCCTGCTGGAGAAAAGCCTGGAACTGCCAAAACAAAAACAAATACAAACAAACCTCGTCACCA
CGGTGAGGAGGAGGTTTCAACATTCTGCCAGAGGGGCTGGGGAAAGGGATGGGAGCCAGGAAAGATTTAGGGGC
AGGAGACAGACACGTAACAGGAACCTCGGAAGGTAGAATTAGAATTCAGAACTTGGGTTTCAATTGTAGAAATTTG
GAATCTGGAATACAGAATTGGGAAGAAGAACAGAGATGACAAAAGACCACTTGAAGAGAGGTTTCTAATACTAGA
CAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTGAAAACCTAAATGTGTAGTTCCAGTCTTCT
ATGCAGAGTCTCTCTGCCCTCCCTCCTTCTGCGAGGCAATATACAAGCTAGACCCTGTTCCCTCACCTGTAT
CCTGTCTCCCTAATTGACATTCTATCAGCCCAACCCTCATTCTGCAGGGCCACCTGGTGTGTGGAGGTGGCGGG
AGGGGTGAGTACTCTGGGGGTCTCTCAGTGACCCCCATACCTCATCATGAACCCTTGGGTAGCTTGATTCTGC
CTACCATCCAGGAAAACCTGTGCTGGAATTGCTGATGGAAACAATTAAATATTTACTAT

3325/5332
FIGURE 2910

GCAGCCGTCAGGGCCCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCCTCGCGGCCCATGCTGGCCGCTGGG
GACCCGCGCAGCCCAGACCGTTCCCGGGCCGGGCAGCCGGCCACCATGGTGGCCCTGAGGCCTGTGCAGCAACTC
CAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCAGGGTCCCGGGCTGAGCCCCGCGCCATGCGCGG
GGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCGTGAGGATCGTCAC
CATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTGGTGTGCCGGAC
TCTGGGGTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATGGA
CAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACCTTCTTGCCAAATTTTATCCTGA
GAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTAGA
TGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTACTA
CGACCCAGTGTTCACAAGCGGGGATTTTTGGCCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTATCA
GATGACTCCGGAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGC
TGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACCTTTGCAATCCGGAATAAAAA
GGGCACAGAGCTGTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCAA
GATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGATAA
GAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGGAA
CCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAGGA
GAAGGCTAGAAAGCAGATGGAGCGGCAGCGCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACGAG
GGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCTGA
GGAGACAGCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAGGAGGAGGCAAACTTCTGGCCCAGAAGGCCGC
AGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTCCGACGGAGGAGGAGAAGCGCCTGATGGAGCA
GAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGATCA
GCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACCAA
GCCCACGTACCCGCCCATGAACCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGA
CAGCCTGTCTTTGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGAATA
CATGGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAACCTGAAAGA
GAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAAATACCATTAA
AAAGCTCACCTTGAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTCTAGCAGGTGACCCAGCCACCCCA
GGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTGGC
TGGGGGTTTCCGTGGGAGCTCCAGAACTTTCCCCAGCTGAGTGAAGAGCCAGCCCCTCTTATGTGCAATTGCCT
TGAACCTACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTATT
TGCTCT

3326/5332
FIGURE 2911

ATGCCGTTCCACCCGGTGACGGCGGCGTTGATGTACCGGGGCATCTACACCGTGCCCAACCTGCTGTCGGAGCAG
CGCCCCGGTGGACATCCCGGAGGACGAGCTGGAGGGTGCCGGTTGCCAGGTGGGCGCCCCAGCTAGCAGCTGTGCC
CCGCGGCAAGACCTGTCCGCACCCCGGGCGCCGCGGTGGGGTTCGCTCAGGCGGAGAGCGGCCCAGCCCCTGCC
CGCGTGGTCCCCAGCGCTGCGGAACTTGCCGGGCCCCGCAGCGGGGTACGGGGCCGCGCAGTCGGCGGTGACG
GGCGGTCTGGGCGAGACCCAGGCCCTCTGCCGGGAGGACGCCATTTCGCGGAGGAGCCACATGTGCCAGGAAGAGG
GAGCTGGGCAGCCCGGGATGGAATGCTGCAGACACCTGCCAGAGGTCCCAGAATACGGCACCCCTTGTGCACCCT
CGGGCCATGCTCTCACCAGATCTGCAGGCTCTGGGTGGGCTCTCAAGGCCATGCTCAGGCTGCAGGAGATCCGA
GAGGCCCTCAAGGTGTTTGACCGTGACGGCAATGGCTTCATCTCCAAGCAGGAGCTGGGCACAGCCATGCGCTCA
CTGGGTTACATGCCCAACGAGGTGGAGCTGGAGGTCATCATCCAGCGGCTGGACATGGATGGTGATGGTCAAGTG
GACTTTGAGGAGTTTGTGACCCCTTCTGGGACCCAAACTCTCCACCTCAGGGATCCCAGAGAAGTTCCATGGCACC
GACTTTGATACTGTCTTCTGGAAGTGCGACATGCAGAAGCTGACGGTGGATGAGCTGAAGCGGCTGCTCTACGAC
ACCTTCTGCGAGCACCTGTCCATGAAGGACATAGAGAACATCATCATGACGGAGGAGGAGAGCCACCTGGGCACA
GCCGAGGAGTGTCCCGTGGATGTGGAGACCTGCTCCAACCAGCAGATCCGCCAGACTTGCGTGCGCAAGAGTCTC
ATCTGCGCCTTCGCCATCGCCTTCATCATCAGTGTCTGCTCATTGCGGCCAACCAGGTGCTGCGCAGTGGCATG
AAGGGCTCCTGGGAAATTAAGGAGGGATTTGCACAGGAACCCCCAGGACCCAGTCGCTGCTGTGACCCCCCTTTTC
TCCATGTACCTGCTGGGCCAGCCCATTTACAGGGATTTTCAGGAAAGGCAGAAGCTCGTGGAGGATGGGCATCT
GAGGTGGCCCTGCAGCCCCCACCTTCTGGCCCTCCCACCAGAGGCCAGCTACCAAGGCCACATTGTCCACCAC
CCCAGCCTAGAGCCTAGAACTGTAGTCCAGCTGAGGAAGGAGGCAGAGCTGGGGCCTGAAGGCTCTGAGCAGCCT
CCAGCCAGGGGGCTCCTCCAGGGCTGA

3327/5332
FIGURE 2912

GGAGCCCGGAGCTGCAGCCACCGGGGAGCCAGGTACCTTCCGCGAGACGTCGAGGGGCGAGTCCTAGTCTCTTTT
CTCCGCACTGGAAGACTTGAACACTTCCTTCTCTGGTCTCTGTACCCAGGCTGGAGTGTAGTGGCGCAATCTCA
GCTGGCTGGAGCCTTGACCTCCTTGGGCTCAAGCTATCCTCCACCTCAGCCTCTCAAATAGCTGGGACTACAGG
CAGCAAAGCACCTGCTCTGAGTGGCCATGGGGAAGCGATACTTCTGTGACTACTGCGACCGCTCCTTCCAGGACA
ACCTCCACAACCGCAAGAAGCACCTGAACGGGCTGCAGCACCTCAAGGCCAAGAAGGTCTGGTACGACATGTTCC
GAGATGCAGCTGCCATCTTGCTGGATGAGCAGAACAAGCGGCCCTGCAGGAAGTTTCTACTGACAGGCCAGTGCG
ACTTTGGCTCCAACTGCAGATTTTCCACATGTCAGAGCGAGACCTGCAGGAGCTGAGCATCCAGGTGGAGGAGG
AGAGGCGAGCCAGGGAGTGGCTACTAGATGCTCCTGAGCTCCCCGAGGGCCATCTGGAGGACTGGCTGGAGAAGA
GAGCCAAGCGGCTGAGCTCAGCCCCAAGTAGCAGGGCTGAACCCATCAGAACCACTGTCTTCCAGTACCCCGTGG
GCTGGCCACCAGTTCAGGAGCTGCCTCCATCCCTGCGGGCACCCCCACCTGGGGGGTGGCCTCTGCAGCCCAGAG
TCCAGTGGGGCTTGACCCCCTTGCCCCGACTGACCCCCACGTGGTCACTTTTCTCATCAGTCACAATAGGAAGCC
AAGCCCGGTTTCTGCTACGCCCCATGGAGGCTCCGAGACCATCTGCCCAGCCTCACTGAGGCTCAGGACACGGCC
ACACCAAGTGCAGCCCTCGTCTGGGTCTGCACCGGGCAGCTCTCCCTCACTCTCCTCCACCTGCCCCCTGCT
TCTTAAGAAGATGGGGGAGAAAACCTTCAAATGTTTATAAAGAAAGTCTGTCACCA

3328/5332
FIGURE 2913

CTGTGAAGAAACATGGCGGCCGCGACGTTGACTTCGAAATTGTACTCCCTGCTGTTCCGCAGGACCTCCACCTTC
GCCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCCTTCGATCAAGGCGCGGACGCTATCTACGACCAC
ATCAACGAGGGGAAGCTGTGGAAACACATCAAGCACAAGTATGAGAACAAGTAGTTCCTTGGAGGCCCCATCCA
GGCCAGAAGGACCAGGTCCACCCAGCAGCTGTTTGCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAGGT
ACTCTTCATGGACCACCATTGCTGTTGGCAAGAAACGGCTTTACTTACAAAACAGACTCTTTACCTTCTGCTGT
GTTTGAAGTATGTTTAGTCAGCATGCTCAGGAATAAATGTGAATTGCCCTTG

3329/5332
FIGURE 2914

CCGGAAGTGC GGGCGCTCAGGGAGCTGTACCGTGGTTCGGCGGCGGGCGGGCGGGCGGGCGGCACAGAGCCGGTGG
TGGAGCCGCGGAGGAGGGTCACGCAGCACAATGCCAGCTCTGCCCCTGACCAACTCCAGATCACCACAAAGGAC
CCGAAGACAGGAAAGCTGAGGACTTCACGAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTGTGTTATAC
AAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTAGCCAATGAC
CTCGACTGGCTCCTGGCCTTGCCCTACGATAAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTACAGAAGTGC
CTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCTGAGGTTGTTGACATG
CAGAAGCGCCTCCATCGAAGTGTTTTTCTCACCTTCTCCGCATGTCCACTCACAAGGAATCCAAAGATCACTTC
ATTTCCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCTCTTTGACATTCCAAAGATCCTGGACCTCTGC
GTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAGCCAAGTTAC
TACAGTGACCTGGATGAAACCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGTGGTTTGCAA
GGGGACGGGGCCAATACCACACCCCGAGAAGCTTGAGGAGAGGGGGCGATTGACCCCGAGTACATGCCTCTCCTG
GAATTAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCCTTCTGGATATCTCCCTTTG
GCTTGCCAGACCTTCAGAAGCAGCACTTTTGTACAGACTAGCTTCCTTCTACGAAGCAGCAATTCGGAAATG
GAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTCTCCCATTC
AGGAAGAAGCTAATGGAGATTTCCACATCATCTGAACCAGATCTGCCTCCTTCCCATCCTAGAAAGCAGCTGT
GACAACATTCAGGGCTTCATCGAAGAGTTCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGGTTCTCCGG
GACTATGATGCACTCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCCTCATCAGTCTTGACGAGACG
CGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGATGGGAAGGGGTGGACAGACGGAAAGCCACAGATGCTAAA
GACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTCAGTCAAGCA
TCATCACATCCGGAGAACTCGGAGGAAGAGGAGTGATGGGAGCAGCCGCGGCTGTGGGCCCTGCCATGTGTGGG
GTGGAAGTGGACTCTCTCATCTCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATCCTGGCCTGC
CTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCCACCCTCAGC
CAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCTACACCCCTGCTGACGTCTCGCCACAACGTCTTC
CAGAAATGACGAGTTTGATGTGTTTCAGCAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAGAGCACCAGG
AAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGCACTGGCGGCACAGCGGCAGCGCTACGAGCAGTAC
AGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTACGAGGATGAG
TACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATCAGCCGAGG
CCATTACCATCCCTCAGGTGCTGAGAACCAAAGTGCTAGAGAAGGGCAGGAGGAGGATGACGACGATGAGGAA
GACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTGTTTCAGGACCCTGCAGTGCTGAGAGAGAAGGCAGAA
GCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGCAGCCCCGA
GGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGAGCCAACCAC
AACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTGAGACCTGGTGCAGGGCCAGTGG
GGAGGCAGCGGCACCAGACTCACCAGGCCGCGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGCCCAAGTTCAA
CTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCTGAGAAGGCCGCTCTCATCTACCAGCCAGCCATGAGCGCC
TTCTTGCAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACCTTCCCCCAG
CTGCGCTAGCGGGAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCCAAACCTCGGGCCACAAGACCACTT
CCCCTTTACCCTGGACAGCAGGAAACCTGTATATTCAAAAAACAAAAAGTCCTGCTAATAAAATTTTGACCTT
TTC

3330/5332
FIGURE 2915A

GACGTCCCAGCGGCTCAGGCGCTGCCAGCGCCGGCCCTGGCAGGGAGCCTGGTGGGGTGGCGGAGGGGGAGACT
GTGCCGTGGAGGGCCTCGCCATGTCTCTGCTGCCCGACTTCCTTGTGAAACCTCCTAGTAGAAAAAGTTCTTGGGA
CAAACCTCATTGACTTCACCATAAGGGAAAGAAGAGAGCCCTTGTGGACACTGAAGAAGGGACGGGGATTTCTC
CTCCTAATCTGGGCCTCTTGT**CATG**GATGAAGAGACTCGGCACAGCCTTGAGTGCATCCAGGCCAATCAGATCTT
TCCCAGGAAGCAGCTGATCCGGGAGGATGAGAATCTTCAGGTTCCCTTTCCTTGAACCTTCATGGAGAGAGCACAGA
GTTTGTGGGCCGTGCCGAGGATGCCATCATTGCCCTTTCCAATTACAGACTTCACATCAAGTTCAAGGAGTCTCT
TGTTAATGTTCATTACAGCTTATAGAAAGTGTGAATGCCGAGATATATTCAGCTTCATTGACTTGCAAAGA
CTGCAAAGTTATCAGGTGTCAAGTTTCAACCTTTGAGCAGTGTCAAGAGTGGCTGAAGAGACTGAACAACGCAAT
CCGACCACCTGCTAAAAATAGAAGATCTCTTCTCATTTCATACCATGCTTGGTGCATGGAGGTCATGCCAGTGA
AAAAGAGCAACATGGAGACCTGTGCAGACCAGGGGAGCATGTAACCTCAAGGTTTAAAAACGAGGTGGAGAGGAT
GGGTTTTGATATGAACAACGCCCTGGAGGATTTCCAACATCAATGAGAAGTACAAATTATGTGGTAGCTATCCTCA
AGAGCTCATAGTGCCTGCCTGGATCACTGACAAAGAAGTGGAAAGTGTATCAAGTTTCAGGTCTTGAAGCGCAT
CCCTGCCGTCTATACAGGCCACAGCAATGGAGCTGTCTTGCCTGTGGACAGCCAGAGGTTAGCTGGTG
GGGCTGGCGAAATGCAGATGATGAGCATCTGGTACAGTCAGTAGCCAAAGCTTGTGCCTCTGACTCCCGATCGAG
TGGCAGCAAGCTGTCAACTAGGAACACTTCTCGAGACTTTCCCAATGGGGGAGACCTTTCTGACGTGGAGTTTGA
TTCTTCTCTGTCAAATGCTTCAGGAGCAGAGAGTTTAGCCATCCAACCGAGAAGCTTTTGATCTTGGATGCACG
CTCCTATGCAGCTGCTGTGGCAAACCGAGCCAAAGGAGGAGGCTGCGAATGCCAGAGTATTACCCAAACTGTGA
AGTTGTGTTTATGGGGATGGCAAACATTCATTCTATTTCGGAGGAGTTTTCAGTCTCTGCGGTTGCTGTGCACTCA
GATGCCAGATCCGGGAAATTGGCTATCAGCTCTTGAAAGCACAAAATGGCTCCATCACTTGTCTGTGCTTCTGAA
ATCAGCGCTTCTGGTAGTGCATGCTGTGGATCAGGATCAGCGGCCGGTGCTAGTACACTGCTCAGATGGCTGGGA
CCGCACCCCCCAGATTGTGGCATTGGCTAAGCTCTTGTGAGCCCTTATTACCGAACCATAGAGGGTTTCCAGGT
CCTCGTGGAATGGAGTGGCTGGATTTTGGCCATAAAATTTGCTGACCGGTGTGGTCAATGGGGAGAACTCGGATGA
TCTGAATGAACGTTGCCAGTGTCTGTGAGTGGCTTACTGTGTTTATCAGCTTCAGAGGCAATTTCTTGTCTC
TTTTGAGTTCAATGAAGCATTCTTGTGAAACTGGTGACATACCTATTCTGCTGTTTGGAAACATTCTGTG
CAACAACGCCAAGGAGAGAGGGGAAAAGCATACTCAGGAACGGACATGTTCCGTGTGGTCACTTCTCGGGCAGG
CAACAAGGCTTTCAAAAACCTACTGTATTCTCTCAGTCAGAAGCCGTGCTGTACCCTGTGTGCCATGTGCGTAA
CCTGATGCTGTGGAGTGCAGTGTACCTGCCCTGCCATCCCCAACCACCCTGTGGACGACAGCTGTGCACCATA
CCCAGCCCCAGGCACCAGCCCTGATGATCCCCCTGAGCCGGCTACCAAAGACTAGATCATACGACAATCTGAC
CACAGCCTGTGACAACACAGTGCTCTGGCCAGCCGGCGCTGCAGCGACCCAGCCTGAACGAGAAGTGGCAGGA
GCACCGGCGCTCACTAGAGCTGAGCAGCCTGGCTGGCCCTGGAGAGGATCCCCTTTCTGCCGACAGCCTAGGGAA
GCCCACCAGAGTGCCGGGGGTGCCGAGCTTTCTGTTGCAGCCGGAGTAGCTGAGGGGCAGATGGAGAACATCTT
GCAGGAGGCCACCAAAGAGGAGAGTGGAGTAGAGGAACCTGCCACAGGGCAGGCATTGAGATACAGGAGGGTAA
AGAGGACCTCTCTTAGAAAAGGAGAGCAGGAGGAAGACACCTGAGGCCTCAGCCATTGGACTTCACCAAGACCC
AGAAGTGGGTGATGCTGCTCTGAGGAGCCATCTGGATATGAGCTGGCCTCTGTTCTCACAGGGCATTTCTGAACA
GCAGAGTGGGCTCAGTGTCTCTCCTCAGTTCTCTCCAGGTCCCCCCCAGGGGAGAGGATTCCCTGGAGGTCCCTGT
GGAGCAGTTTCGAATAGAAGAGATTGCAGAGGGTAGGGAGGAAGCAGTTCTTCCAATCCCAGTAGATGCAAAAGT
TGGCTATGGTACCTCACAGTCATGTTCTCTGTCTACCTTCCCAAGTCCCTTTTGGAGACCAGAGGACCAACGTGGA
CAGTTCTACAGACATGTTAGTGGAAAGATAAGGTGAAGTCAGTAAGTGGGCCCCAAGGTATCATAGATCTTGCCT
TGTAATAGTGGCAAGGACAGGCTTCCTCAGACCATGGAAACCCAGCCCTTCAGAGACAAGCCTGGTCGAGAGGCC
CCAAGTGGGGTCTGTGGTGCATAGGACTTCCCTTGGCAGCACTCTCAGCCTGACAGCTTCCCTTGTGCCTTGCC
TTTAGCCGAATGTAAAGAGGGGCTTGTGTGCAATGGTGCCCCAGAGACTGAAAACAGGGCCTCAGAGCAGCCCCC
AGGTCTTAGCACCCCTCCAGATGTACCCACACCCAATGGGCATTGCGCCAATGGGGAGGCTGGTAGGAGCAAGGA
CTCACTGAGCCGTCAGTGTCTGCTATGAGCTGCAGCTTGCCCACTTACACTCAAGGAACCTGCACCACAAGTG
GCTGCATAGCCACTCAGGAAGGCCATCTGCAACCAGCAGCCCCGACCAGCCTTCCCGCAGCCACCTGGACGATGA
TGGCATGTCACTGTACACAGACACGATCCAACAGCGCTGCGTCAGATTGAGTCAGGCCACCAGCAGGAAGTAGA
AACTTTGAAGAAAACAGTCCAGGAGCTGAAGAGTCGCTGGAGAGCCAGTACCTGACCAGCTCCCTACACTTTAA
TGGAGACTTTGGGGATGAGGTGACTTCAATCCCCGACTCGGAAAGCAATCTGGATCAGAAGTGTGTCTCGCTG
CAGCACAGAGATTTTCTCTGAAGCCAGCTGGGAGCAGGTGGATAAACAGGACACAGAGATGACCCGTTGGCTTCC

3331/5332
FIGURE 2915B

TGACCACCTGGCCGCCACTGCTATGCGTGCGACAGTGCCTTCTGGCTTGCCAGCAGGAAGCACCCTGCAGGAA
TTGTGGGAACGTATTCTGCTCCAGTTGTTGTAACCAGAAGGTTCCAGTTCCCAGCCAGCAGCTCTTTGAACCCAG
TCGAGTATGCAAGTCTTGCTATAGCAGCCTACATCCCACAAGCTCCAGCATTGACCTTGAAGTGGATAAGCCCAT
TGCTGCCACTTCCAACTGAAGCTCAGTGACCTGGGTGGGCAGTGGCCAAGCTGCTGTTCCCTATGACAGGCCCACT
CAACCTGGGCAGACCAGAGGCCCGTGCACCTTGGGAATGGGAGCGTGGAACCACCTGTACAGAGTGACAGATTG
GGATGCACCAGTGGATTGTAGATTGATTTTCTTTCCCTGTCCCCCTACTCCCTCCCTACCTTTTCCATCCTCCTC
CTCTGCCTTCAAAAAAGGAAACTTTCCCTTGGTTGTCTTAATTTTTTTTTTTTTTGGATGGAAGACCAAGGGTTGC
CAGGCCCACTGTAACTGCCGAGCTGCCTGCTGTACGTGACACTGAGGGATGGCTTGTCTTCCGGGTGGGAGG
ATGGTGGTCAGAGCCAGGAGTATGGAGATCTGAGACCGTGAGCAGGGAAGAAAGCCAGTGCTAACATGCAACCAT
TCCTCACGCCACCGCCACATCAGAGCTGGTTGGGAACCCTTTGCTGCTGGGGAGGCTGGAAGCATATTCCCCAAG
AGCACTGCCCTGGGCATCATCTCCCTCCTGCGAGGAGCTGAGCCAGTCCCCTCACAGATGGATAAATGAGGCTGA
TGTTTGGAGGGAGAGGCACACGGTAAATGGCATCCCCTTAGGCGCCTCTTTGGGAAAGGAAAGTGGATGCTCCTT
TGAGGCAGGCGAGGGGCTGGGAGTGGGTAGCCGTCATGTTGTCCCCCGTGGGATCCCATTTTAACTTGACCCAG
ATTGCTTGGGCTCCTTTTACTTTTCAAGGGGCTGCTTTCCCTGGGCCAGGCTGTGTAGCACTTCCCACCCTCAGGC
ATGAGTACAGACTGGTCAAAATGTTTATGCAGTCAAGGCCAAAGCCTGCCCTGAGCCCAGACACACCTGGGTCCC
CATTCTGGGGCCTGGTCCCCTAAACAATCTCTTCCCTCAGCCAGCACAGGGAAATCCAGACTCAGGGTTCCAGAAA
TCCCCCGTTCCCAAACCAAACCAATCATGGATCTTCCCTTTAAGGGGTAGAATCAGCCTTTAGAGTTACAAGCCC
CTGGAAGGGGAGCAGGTCCCATAACAATCAGCCTTTCTCCTCTTCTTCTTCTTGGGACAGGAATAACTGCTGAGCA
GTCCCCCTTTGCCACTCCTGGCTGTCTGAGTGGGCACCTGTCTGGCTGCTGGCCAGCAGTGAAGGGCCACTTGGT
GACTTCGTAGGGTTCCCTTAGAGAAGTGACATGGCCTTGAGGAGATTCAGGGCACCTTTCCCTCAGTGAGCTTTGAT
ATGGTCCAAAAACAGCCTTAAATCAAGAATATTTGTGGAGGTAGGTGTGGGAAGGTTGGAGAAGAGTTAGGTTT
GTGCTTTGTAATCTTGGCATCCATGTTTGTGCCTGCCCTCCCTCTTGGGGAGGCCATGCTTGACTCTGCTGAAA
GCTGCTAACTGGTGACAGGGTGGATCATGGTGAGGACTAGGGGTAAGGTGAGGGAATGCTTAAGCTCTGGCCCTG
CCCTGTATTCTCTTCCCCTTGGTAGCAGTTCCCTGACCAAGGGCAAGGTGTGTCTCAGGAAGGTGGTTCTGTGC
ATGCCTGGGTGTGGTTAAGGCGTGGCCAGAAAGGCTTCCCTGGTGCTCTCAGTCCAGGCAAGCCCAGAGCATCT
GAGCACGTCTCTGACTTCCAGTGGCAACACAGTTTGAACGTGGTGAAACAGGGTGTAGTTCTTTCCACATTCTG
TGTCATCTAGTCGTGCAGGTAGGGAAAAAGTTGGTCTAATTGAAGATTGTGCATTTCCCTAGTGACAGGTGCCAAG
AGGTTATGATACGGGTTTCTTGGGTCTGATGTACAGTGTGAATAAATGCTTGACAGCTCTTAGCTCTTTTTTGATC
GATGAAGCACTTTTTTATTAATATTTTCCCTTGTAAAGGAGGAACCGTAACCTCTCCATAGCTGTACATATAACC
CTTTTCTCCTAAAGAGGAGTCAGTCAGTGCTCCTATATTTTTCATTTTTTGTCAAAGCAAGAAGTAAATACTTTA
GAATTGTTAAATATATAAATAAAGCAAATAAAGTTG

3332/5332
FIGURE 2916

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACTCATGTAG

3333/5332
FIGURE 2917A

ATGAACCTCTGAAAACCTGCCGGCATCTGAGGTTTCTCTCAAGGCCCTCTGAAGTGCAGCCCATAATGAAGGTCTT
GGCGGCAGGAGTTGTGCCCTCTGCTGTTGGTTCTGCACTGGAAACATGGGGCGGGGAGCCCCCTCCCCATCACCCC
TGTC AACGCCACCTGTGCCATACGCCACCCATGTCAACAACCTCATGAACCAGATCAGGAGCCAACTGGCACA
GCTCAATGGCAGTGCCAATGCCCTCTTTATTCTCTATTACACAGCCCAGGGGGAGCCGTTCCCCAACAACTTGA
CAAGCTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGA
GCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATCCTCAACCCCAG
TGCCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGAGGCCTCCTTAGCAACGTGCTGTGCCG
CCTGTGCAGCAAGTACCACGTGGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCA
GAAGAAGAAGCTGGGCTGTCAACTCTGGGGAAGTATAAGCAGATCATCGCCGTGTTGGCCCAGGCCTTCTAGCA
GGAGGTCTTGAAGTGTGCTGTGAACCGAGGGATCTCAGGAGTTGGGTCCAGATGTGGGGGCCTGTCCAAGGGTGG
CTGGGGCCAGGGCATCGCTAAACCCAAATGGGGGCTGCTGGCAGACCCGAGGGTGCCTGGCCAGTCCACTCCA
CTCTGGGCTGGGCTGTGATGAAGCTGAGCAGAGTGGAACTTCCATAGGGAGGGAGCTAGAAGAAGGTGCCCTT
CCTCTGGGAGATTGTGGACTGGGGAGCGTGGGCTGGACTTCTGCCTCTACTTGTCCCTTTGGCCCTTGCTCACT
TTGTGCAGTGAACAACTACACAAGTCATCTACAAGACCCCTGACCACAGGGTGAGACAGCAGGGCCAGGGGAG
TGGACCAGCCCCAGCAAATTATCACCATCTGTGCCCTTGTGCCCCCTTAGGTTGGGACTTAGGTGGCCAGAGG
GGCTAGGATCCCAAAGGACTCCTTGTCCCTAGAAGTTTGATGAGTGGAAAGATAGAGAGGGGCCCTCTGGGATGGA
AGGCTGTCTCTTTTGGAGTATCAGAGAACTTGGGCATAGGAACAATCTGGCAGAAGTTTCCAGAAGGAGGTC
ACTTGGCATTACAGGCTCTTGGGGAGGCAGAGAAGCCACCTTCAGGCCTGGGAAGGAAGACACTGGGAGGAGGAGA
GGCCTGGAAAGCTTTGGTAGGTTCTTCGTTCTCTTCCCGTGATCTTCCCTGCAGCCTGGGATGGCCAGGGTCTG
ATGGCTGGACCTGCAGCAGGGGTTTGTGGAGGTGGGTAGGGCAGGGGCAGGTTGCTAAGTCAGGTGCAGAGGTTT
TGAGGGACCCAGGCTCTTCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACAT
CTGAGGCCCTGGGAGGCCTTGTGAGGTACACAGAGGTACTTGAGGGGACTGGAGGCCGTCTCTGGTCCCCAGG
GCAAGGGAACAGCAGAACTTAGGGTCAGGGTCTCAGGGAACCCCTGAGCTCCAAGCGTGCTGTGCGTCTGACCTGG
CATGATTTCTATTTATTATGATATCCTATTTATATTAAGTCTTATGGTGCTTTCAGTGGCCAAGTTAATTCCTT
TCCCTGGTCCCTACTCAACAAAATATGATGATGGTCCCGACACAAGCGCCAGGGCCAGGGCTTAGCAGGGCCTG
GTCTGGAAGTCGACAATGTTACAAGTGAATAAGCCTTACGGGTGAAGCTCAGAGAAGGGTCGGATCTGAGAGAA
TGGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCCCATCCCTACTGTGACTTGCTTTAGGGTGT
CAGGGTCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGATTCCAGGGGGCTG
GTTACACTGTCTTGGGGCGCCCCAGCATTGTGTTGTGAGGCGCACTGTTCTGGCAGATATTGTCCCCCTGGA
GCAGTGGGCAAGACAGTCCTTGTGGCCCACCCTGTCTTGTCTGTGTCCTCATGCTGCCTCTGAAATAGCGCC
CTGGAACAACCCCTGCCCCCTGCACCCAGCATGCTCCGACACAGCAGGGAAGCTCCTCCTGTGGCCCGACACCCAT
AGACGGTGCGGGGGGCTGGCTGGGCCAGACCCAGGAAGGTGGGGTAGACTGGGGGATCAGCTGCCCATTTGCT
CCCAAGAGGAGGAGAGGGAGGCTGCAGATGCCTGGGACTCAGACCAGGAAGCTGTGGGCCCTCCTGCTCCACCCC
CATCCCACTCCCAACCATGTCTGGGCTCCCAGGCAGGGAACCCGATCTCTTCTTTGTGCTGGGGCCAGGCGAGT
GGAGAAACGCCCTCCAGTCTGAGAGCAGGGGAGGGAAGGAGGCAGCAGAGTTGGGGCAGCTGCTCAGAGCAGTGT
TCTGGCTTCTTCTCAAACCCCTGAGCGGGCTGCCGGCCTCCAAGTTCTCCGACAAGATGATGGTACTAATTATGG
TACTTTTCACTCACTTTGCACCTTTCCCTGTGCTCTCTAAGCACTTTACCTGGATGGCGCGTGGGCAGTGTGCA
GGCAGGTCTGAGGCCTGGGGTTGGGGTGGAGGGTGCGGCCCGGAGTTGTCCATCTGTCCATCCCAACAGCAAGA
CGAGGATGTGGCTGTTGAGATGTGGGCCACACTACCCCTTGTCCAGGATGCAGGGACTGCCTTCTCCTTCTGCT
TCATCCGGCTTAGCTTGGGGCTGGCTGCATTCCCCAGGATGGGCTTCGAGAAAGACAACTTGTCTGGAACCA
GAGTTGCTGATTCCACCCGGGGGGCCCGGCTGACTCGCCATCACCTCATCTCCCTGTGGACTTGGGAGCTCTGT
GCCAGGCCACCTTGGCGCCCTGGCTCTGAGTCGCTCTCCACCCAGCCTGGACTTGGCCCATGGGACCCATCC
TCAGTGTCTCCCTCCAGATCCCGTCCGGCAGCTTGGCCTCCACCTGCACAGCATCACTGAATCACAGAGCCTTTG
CGTGAAACAGCTCTGCCAGGCCGGGAGCTGGGTTCTCTTCCCTTTTTATCTGCTGGTGTGGACACACCTGGGC
CTGGCCGGGAGGAAGAGAGAGTTTACCAAGAGAGATGTCTCCGGGCCCTTATTATTATTTAAACATTTTTTAAA
AAGCACTGCTAGTTTACTTGTCTCTCTCCCATCGTCCCATCGTCTCTCTTGTCCCTGACTTGGGGCACTTCC
ACCCTGACCAGCCAGTCCAGCTCTGCCTTGGCGGCTCTCCAGAGTAGACATAGTGTGTGGGGTTGGAGCTCTGG
CACCCGGGGAGGTAGCATTTCCCTGCAGATGGTACAGATGTTCTGCCTTAGAGTCATCTCTAGTTCCTCCACCTC

3334/5332
FIGURE 2917B

AATCCCGGCATCCAGCCTTCAGTCCCGCCACGTGCTAGCTCCGTGGGCCCACCGTGCGGCCTTAGAGGTTTCCC
TCCTTCCTTTCCACTGAAAAGCACATGGCCTTGGGTGACAAATTCCTCTTTGATGAATGTACCCTGTGGGGATGT
TTCATACTGACAGATTATTTTATTTATTCAATGTCATTTAAATATTTATTTTATACCAAATGAATACTT
TTTTTTTAAGAAAAAAGAGAAATGAATAAAGAATCTACTCTTG

3335/5332
FIGURE 2918

GTCAACCCAGCGGGCGGGCCGGAGCACGGGCACCCAGCATGGGGGTACTGCTCACACAGAGGACGCTGCTCA
GTCTGGTCCTTGCACTCCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCAGCTGCTCGAAAGAGTACCGCG
TGCTCCTTGGCCAGCTCCAGAAGCAGACAGATCTCATGCAGGACACCAGCAGACTCCTGGACCCCTATATACGTA
TCCAAGGCCTGGATGTTCCCTAAACTGAGAGAGCACTGCAGGGAGCGCCCCGGGGCCTTCCCCAGTGAGGAGACCC
TGAGGGGGCTGGGCAGGCGGGGCTTCCTGCAGACCCTCAATGCCACACTGGGCTGCGTCCTGCACAGACTGGCCG
ACTTAGAGCAGCGCTCCCCAAGGCCCAGGATTTGGAGAGGTCTGGGCTGAACATCGAGGACTTGGAGAAGCTGC
AGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACATCTACTGCATGGCCCAGCTGCTGGACAACCTCAGACA
CGGCTGAGCCACGAAGGCTGGCCGGGGGGCCTCTCAGCCGCCACCCCCACCCCTGCCTCGGATGCTTTTCAGC
GCAAGCTGGAGGGCTGCAGGTTCTTGATGGCTACCAATCGCTTCATGCACTCAGTGGGGCGGGTCTTCAGCAAGT
GGGGGGAGAGCCCGAACCAGGAGCCGGAGACACAGCCCCACCAGGCCCTGAGGAAGGGGGTGCGCAGGACCAGAC
CCTCCAGGAAAGGCAAGAGACTCATGACCAGGGGACAGCTGCCCGGTAGCCTCGAGAGCACCCCTTGCCGGTGA
AGGATGCGGCAGGTGCTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAACCTGTTCCC
CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTACCTCCTCCAGGCTGG
GAGACAGAGTCAGGCTGTTGCGCTCCACCTCAGCCCCAAGTTCCCCAGGCCAGTGGGGTGGCCGGGCGGGCCA
CGCGGGACCGACTTTCCATTGATTGAGGGGTCTGATGACACAGGCTGACTCATGGCCGGGCTGACTGCCCCCTG
CCTTGCTCCCCGAGGCCTGCCGGTCTTCCCTCTCATGACTTGAGGGCCGTTGCCCCAGACTTCCTCCTTTCC
GTGTTTCTGAAGGGGAGGTACAGCCTGAGCTGGCTCCTATGCCTCATCATGTCCCAAACCAGACACCTGGATG
TCTGGGTGACCTCACTTTAGGCAGCTGTAACAGCGGCAGGGTGTCCCAGGAGCCCTGATCCGGGGGTCCAGGGAA
TGGAGCTCAGGTCCCAGGCCAGCCCCGAAGTCGCCACGTGGCCTGGGGCAGGTCACTTTACCTCTGTGGACCTGT
TTTCTCTTTGTGAAGCTAGGGAGTTAGAGGCTGTACAAGGCCCCACTGCCTGTGCGTTGCTTGGATTCCCTGAC
GTAAGGTGGATATTAAAAATCTGTAAATCAGGACAGGTGGTGCAAATGGCGCTGGGAGGTGTACACGGAGGTCTC
TGTAAGAGCAGACCCACCTCCCAGCGCCGGGAAGCCCGTCTTGGGTCTCGCTGCTGGCTGCTCCCCCTGGTGGT
GGATCCTGGAATTTTCTCAGCAGGAGCCATTGCTCTCCTAGAGGGGTCTCAGAACTGCGAGGCCAGTTCCTT
GGAGGGACATGACTAATTTATCGATTTTATCAATTTTATCAGTTTATATTATAAGCCTTATTTATGATGTA
TATTTAATGTAAATATTGTGCAAACTTATATTTAAACTTGCCCTGGTTTCT

3336/5332
FIGURE 2919

GCTCAGGCGGCGGGCGCGGCTGGGATGGCGAAGAGCAACGGAGAGAATGGGCCGCGCGCGCCGCGGCCGGGGAA
AGCCTGTCTGGGAACCCGGGAGAGCCTGGCCAGGGCCCCGACGCCGCAACCAACGACGAACCTCAGCTCTCTCGGG
TCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGTGGGCTCGCAGGGCGCC
GAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAGGGAGTCCAAGTGGCTGGACATGCTCAACAAC
TGGGACAAATGGATGGCCAAGAAGCACAAAAAGATTTCGTCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGG
GGCCGTGCTTGGCAGTACCTGTCTAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAGTTTGACGAGCTGGAC
ATGTCCCTTGGGGACCCCAAGTGGCTGGACGTGATTGAGCGTGACCTGCACCGGCAGTTCCCATTCATGAGATG
TTTGTGTCCCGGGGGGGCCACGGCCAGCAGGACCTATTCCGTGTGCTGAAGGCCTACACGCTGTACCGGCCCGAG
GAGGGCTACTGCCAGGCCAGGCCGCCATTGCCGCTGTCTTGCTCATGCATATGCCTGCTGAGCAAGCCTTCTGG
TGCTTGGTACAGATCTGTGAGAAGTACCTGCCCGGCTACTACAGCGAGAACTGGAGGCGATCCAGCTGGACGGG
GAGATCCTTTTTCTCGCTGTTGCAGAAGGTGTGCGCGGTGGCCACAAAGCACCTCAGCCGTGAGAAGATCGACCCG
CTCCTCTATATGACAGAATGGTTTCATGTGCGCCTTCTCCGAACCTTGCCCTGGAGCTCTGTGCTGCGTGTCTGG
GACATGTTCTTCTGTGAAGGGGTCAAGATCATCTTCCGGGTGGGGCTGGTGTGCTGAAGCACGCGCTGGGCTCC
CCTGAGAAGGTCAAAGCCTGCCAGGGCCAGTACGAGACCATCGAGCGACTGCGGAGCCTCAGCCCCAAGATCATG
CAGGAGGCCCTTTCTGGTCCAGGAGGTGGTGGAGTTGCCCCTGACAGAGCGCCAGATTGAGCGCAACACCTCATT
CAGCTGCGGCGCTGGCAGGAGACCCGGGGTGAGCTGCAGTGCCGCTCCCCGCCAGGCTGCATGGTGCCAAGGCT
ATCTTGGATGCAGAACCTGGTCCCCGGCCTGCCCTACAACCTTCACCATCCATCCGCCTGCCCTTAGATGCCCCC
CTCCCTGGCTCCAAAGCCAAGCCCAAGCCACCCAAGCAGGCCCAGAAGGAGCAGCGGAAACAGATGAAGGGGAGA
GGGCAGCTGGAGAAGCCCCAGCCCCAAATCAAGCCATGGTGGTGGCCGCTGCAGGAGATGCATGTCCCCACAG
CATGTGCCCCCGAAGGACTCAGCCCCAAGGACTCAGCCCCTCAGGATTTGGCTCCCCAGGTCTCAGCCCACCAC
CGCTCCCAGGAGAGCTTGACGTCCCAAGAGAGTGAGGACACCTACTTGTAATAACCCTGGCAGCTAAGGCCTCCAGGG
CGGGGTCTCCATATAACTACACGGTTCATGAACTGACATTCCACATCCTGCCCACCCTCTGAGGGCCAAGCTGCC
TGGCCACTGGGCTGGGCTGGAGTCTGGCTGGTCCAACACAGATTCTGCCTGGTCCAACACAGATTCTGCCTGAGC
CTCCTTATTTATTTTCTTTACAGTGGCACTCAGGCTGGCCAGCCAGGGCAGGCAGAAGCTAGGGCCTGGGGGGT
GGGGCCTCCTTCAGCCCCCTCTCCTGGGGGATGCTCCCCAGGGTTAGGGTGCTGGTGTGAGGGGAAAGGGTGGG
GTGTTCTTTGTGTAAAAATAGAAACATGGTTTTGTACAGAAATAAACAGCCTTGTATAGAG

3337/5332

FIGURE 2920A

GGCCGCAACTCGCTCGGCCGCCGCGCCATCTTGCGAGCTCGTCTGACTGACCGAGCGGGGAGGCTGTCTTGAGGCGG
CACCGCTCACCGACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCAATGCGGCCGGACCCGTGCAGGCGGT
GCCCCCGCCGCGCCCGTGGCCACGGAGCCCAAACAGCCACAGAAGAAGAAGCATCTTCAAAGGAGGATTCTGC
ACCTTCTAAGCCAGTTGTGGGGATTATTTACCTCCTCCAGAGGTCAGAAATATTGTTGACAAGACTGCCAGCTT
TGTGGCCAGAAACGGGCTGAATTTGAAGCTAGGATCCGACAGAACGAGATCAACAACCCCAAGTTCAACTTTCT
GAACCCCAATGACCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTCAGGAGCC
GTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC
CCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTCATTGCTGATCCTCCCTCTAT
CTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTCTGACCCA
GCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCAGCAGCCTCTTCAACTACTTCAC
GAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAAGAGGCTGA
AAACCCCGGAGAAGTTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGAGGAAGAA
GGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGGTGGAAC
AGTGGACTTCCAACCCAATGAGCAAGGGAACCTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCCGAATCCT
CATTAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTCGAGTCTGATGAGGAGGATGA
CAAACAGGAGAAGGCGGAGGAGCCTCCTTCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATGAGGGTTC
AGATGATGAAGAAGAAGGGCAGAAAGTGCCCCACCCCAAGAGACACCCATGCCTCCACCTTGCCCCCAACTCC
AGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCTGCTCCAGATGA
GTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTGGACTTCT
TGACCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACGCACCAGG
TCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAACAGCCAT
TGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAGGCAGCAT
GGCCCGGACCCAGCAGGCTGCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATTACAAGGCCAAAGG
CCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGCCACCGCC
ACCATCTTCCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCACTGAGTCCCGGACCCACAATGCCACC
TCCAGTTTCGTACTACAGTTGTCTCCGAGTACCCGTATGCCCCGGCCCCCAATGGCATCTGTGGTCCGGCTGCC
CCCAGGCTCAGTGATCGCCCCATGCCGCCATCATCCACGCGCCAGAAATCAACGTGGTGCCCATGCCTCCCTC
GGCCCCCTCCTATTATGGCCCCCGCCACCCCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCACCTGTGGC
ACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCACCTCCAAAAA
ACTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTGCGCAGAAACAAGGGTCCAGTGTCCATCAAAGT
CCAGGTGCCCAACATGCAGGATAAGACGGAATGGAACCTGAATGGGCAGGTGCTGGTCTTACCCTCCCACTCAC
GGACCAGGTCTCTGTCTAAGGTGAAGATTATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGCTACAGTA
TGAGGGTATCTTCATCAAAGATTCCAACCTACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCCACCTGGC
CCTCAAGGAGAGAGGCGGGAGGAAGAAGTAGACAAGAGGAACCTGCTGTCAGTCCCTGCCATTTTGCTCTCCT
GTCTCCCACCCCTGCCCCAGCCAGGAGCCCCCTGAGGCTTTGCCCTGCCTGCATATTGTTTCGCTCTTAC
TCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTCACTCCCTGACCCCTTTCCCCACATTGGTAAGAGTAGCTGG
GTTTTCTAAGCCACTCTCTGGAATCTCTTTGTGTTAGGGTCTCGATTTGAGGACATTCACTTCTTCAGCAGCCCA
TTAGCAACTGAGAGCCCAGGGATGTCCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGGCTAATAGAATATG
GCTGATATTGTCAATTAATCATTTTGTACCTTGACATGGGTGTCTAATAAACTCGGACCCCTCTGTGAAATCA
GTTAAATAAGACTTGTCTCGGTACCTGTGCCCTGTCCAGACTCGAGGCAGTGGTAACACTGCACAGTGCTATGT
GGCTTCTCTTTGAGGATTTTGGGTTTTGTAACATAATCTTGTGCTCCCTCATACTTTTTATGTATTAGAATCAT
ATTCGTATTGCCCTTTTAAACATTGGGATCCTCCAAAGGCCTGCCCATGTATTTAACAGTAATACAGGAAGCA
TGGCAGGCACCATGCAACCAAGGATGGATGGTGCAGTCCCTGTGTCAGTGGGCGGTGGTTTTCTGTGGCCTGG
AATCACTCATCACCTGATTGATTGGCTCTGTGGTCTGGGCGAGGTGCCCTCATAGGTGTGTGGATATGATGACGTT
TCTTTAAATGTATGTATTTAACAATACTTAATTGTATTAAGGTGATGTACCAAGGATTTGATAAAGTTTAAAT
AATTTACTCTCTACTTTTATCCATTTTATCCATTTTAACTCATGTAATCCTCATGTGAGTATTCCTGTTTAAACAC
TTGAGTAAACTGAGGCACAGAGAACATAAGTTGCATGCCATAGTCACACACTGTGAAAGTGAAAAGAGAATGTGT
GCAAAACACGTCACAGTCCCTGGTTTCTGAGTAAAGGCAGGCTGTTATCTTTAGAATCAAGCTATCACAGGGAGAT

3338/5332

FIGURE 2920B

AGGCAATGCTGTGGGTGTTGGAGGAAGGTGAGAGCCTGTTGCTAACAAATTCCTGGTTTTAAAGCTAAGGCTGAT
TTTATTGGGAAGATCTCACATGTGTGTGGCCCCTGAGAGTTCCTAGTGCCTTTTATTGTCAGTCCCTCCATTG
ACCTCCTAGCTGCCCCATCAGGTCATCTCCAGGGCTCAGAGGGGTGAGACCATTTCCTAAGGTCACAGAACCAGC
TCTCTAGTCACCACCCTGCCTCTCCCTCTCACCAGAGTCAGTACCAGTTTATGGCTTTATTACAACTGCTGG
GTCCCTCCCATTTTCAACTTGATTGATGGGATGTCATCCCTTATCCTGTCTGACATTTGCCTCTGGCCTGGTTGC
TAGAAGTTTGCCCCAGGGGCAAGAGTTGAAATTTGGCTTCCTGAGGTGGGCTTTGTGGTTTGCGTCCCTAAAGTG
AGCCCACTACTGGTTGCTTGTCCATGGCCAACACCAGAAATCCCTGAGCACTACCTGGGTCTCATTCCAAGAAG
GAAGAGGGTCAGGAGACCTGGGGAGTCTCATATTCCAAGTTCTTCTTTCTTTCTGGGAGCAGTGGGCAGTTCATG
GTGTAGGGCACTCACCCCCACAGACTGGCAAACCCTGCAGGACTTCCGTGGCTGAGGCTGTGACCGGAGGCCAG
GAATGCCGTTGGGTGGATTGTGAGTGAATGGGCCCTTTGAGCTGCCCTCTAGAGAGCAAATCCAGTTTCTGGAG
CTCCTGAATGAATATCTGTACTGGCTCGCTCAGATGCAGAAGCTCCATTGACCATGAGGCCCTGTGAACATCAGT
GGCCACAGGCCCAGTGTGCTGCTTGGCACTGCACTAGTTTAGGACCTGCAGCATGTAGGTAGCGTCTAGTGTTT
ATAATACAAAGCTGCTCTGCACAGCTTTTCTGATTCTTCTTGCAATCTCCTGAGGATTATCTGCCCCATTTTAA
AACGAGGTGGAATACCCAAGGTCATGTAGCCAGTGAGTGCTCTGGAAAGCCAAAGCAGCTCATCCCTTCCTGGGG
ACCACACTGCTCTGCTCCACCAGACCACACTATGAAATAGGAATAAGTGCTCCTGTTGCAGGACTGCTGGGAAAA
CAGGTGGTGTGGGACTTAAGTCACCATAATTTTGAAGACTTGCATGCAGAGGGCTCCAGGAATTGTAGACATTAA
GGAATTTCACTTTTCACTTCTACCCACTACTTAAGTACTTGTCTGCTACTCTTAGAGGAGGCCAGTAATGATCAGA
ACCATTTTACTTTTAAATTAATAATATTGTATTAGAGAATATATTAATGGTTATATTGGGTTATGTTAGGATAT
ATACTTGAATGGAAATACATGTACTATTAGCAATCATATTTTATCCCTGTAATTAGACAAGAAAGCATAAT
ATAGCTCTACTCATGGGTACACATACCAGTGTATAAGATTTTATAGAAAGTTTACTTTTTAAAAATAAAAGCAAAAT
GT

3339/5332
FIGURE 2921

GGCTGATGCTCCAGCAGACCTGCCCACCTGTGCAAATTCAACGTCCTGGGGAACCGCTACTCCG**ATG**ATTAGCTGC
CCAGCTGGACTCTGCACATGGGGATGGACCCCTTCCTGCCTGCACCCCGGTCCTCAGCCTGGGCTCCCAGGACAGG
ACAGGATGGGACAGCAGGATAGACAGGACAGCAAGCCAGTGGGTGGGAGGAAGGATGAGGGCCCCACCATGTCC
ACACTGGGAAGGAGGGCCCCACAGCTTCAGACTGAGGATCTAGGGCTGGGACCTGTCAGTCAAGGAAGAGAGGTC
ACTTTGGGACCTTCTCTGCAATCCTGTGACGTGAGTCTGCCCTCCTTACAGGCAGCTCCCAGGTCAATAAGGAAA
GAGAATATGGGGCCAGTGT**TAG**CTGTCGCCAGGGTTCTGGGAGCTCCCTGTGGCCTGTCTGGGAATTCCTGGGGGC
TGAGACTACAGTGGCCAGGTTTTGTGCTTATTTATTGGGGGGTGGGTGAGGGAAGAGCTATCTGGCCTTGGGGT
ACCCTGGCCTGACCGTCTTTCAGGATACTTCTTGTCAGGCTGTCTGCCTGTTGCCTTTGGTCCTCAAGCACTGG
GAGCCATGGGTCCCACTGCCTGTCCAGCCTGGCTCCCTTCCTGGGCCTGGCTAGGACCAGAGGTCTTAGAAACCG
TCCTGTTCTGGAATCCTTGGCTGCGGCTTTGTGTTGCTGACCGGGATACTCGAAGCCACAGGATCAATGTGGTGC
CTCATCCAGGGGCATCCTTTTTTTTTTTTTTTTTTTTTTAAAGAGTTGGAGTAGGGAAGGTTTAATAGTAAAA
TAAACGTGGCTATATTTTAACATAAGATG

3340/5332
FIGURE 2922

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCCT
ACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCCAGCCCTGAAGCAGGCCGCGAGCGCCA
GGGTGACTGTGGCTGTGGTGGACACCTTTGTATGSCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATCA
ACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCTGGCTGTCCGCAAGTGGACCA
CCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCCTCCTGGACT
CCAGCCTGCGCAAGCTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTGA

3341/5332
FIGURE 2923

GAGGAAGTGGAGCTCCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCG**AT**GGGAGGCCTTGAGAAGAA
GAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTTGGC
TGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAAGGG
TTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAAGTT
CCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCGTTT
AAAGGACAATAAGCCCAACTACAACTCGACCACATCATCAAGGAACGGTATCCACGTTTCATCGATGCCCTGCG
GGACCTGGACGATGCCCTCTCCATGTGCTTCCGTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCAGAC
CATTAGCTGTGCCCGCGGCTCACTGTGGAGTTTCACTGCACTTATCGCTGCCCGTGCCCTGCGCAAGGTCTT
CCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGCCTT
CTCCCATGACCACCCGACAGACGTGGACTACAGGGTCATGGCCACCTTACCAGATTCTACACCACGCTGCTGGG
CTTTGTCAACTTCCGCCCTTTACCAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAGGCCCAAGCAGA
GGCAAAGGCCGGTGAGGGCACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGCCAG
CCTGGCCCGCGTGTTGGTGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGATGTC
AGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTTGAGGGCCTGAAGTT
CTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGAAGTGTCTTGGA
CAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCATCAGATTGTGACCGGCCTGG
GCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCTCCT
TCTCCCCGTGGCAGAGTACTTCTCTGGGGTGACGTGCCCCACACCTTTACCCCTTTGTGACCGAGAAGGAAGG
AGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGAGAGGACCCAGGAAACCTGAATGAGTC
AGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGAGGA
AGATGCAGAGGCTGGTTTCAAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGGGAA
GAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGTGAAGC
CAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAGGCG
AAAAATCCGAGAGGCCAACAAGCTGGCGGAGAAGCGGAAAGCCCACGATGAGCGGCTGAGGTCTGAGAAGAAGGC
CAAGAAGGCAAGCCGGAG**TGAG**TGCCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGTGGC
AGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTTTTCTCCAGCCAGCCCTGACC
CCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGGTCA
GAGAAGAGGCCTCTGTGCCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACCCAG
CCCCCTACCTACTGCCCCATTATCCTGGCTTTCCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTCAGG
GTGCTGTGATGGGGTGAGGGTAGGGGAGCATTGTATTAAATGACTGGACTTTTG

3342/5332
FIGURE 2924

CCGATTCTTGCTCACTGCTCACCACCTGCTGCTGCCATGAGGCACCTTGGGGCCTTCCTCTTCCTTCTGGGGGT
CCTGGGGGGCCCTCACTGAGATGTGTGAAATACCAGAGATGGACAGCCATCTGGTAGAGAAGTTGGGCCAGCACCT
CTTACCTTGGATGGACCGGCTTTCCCTGGAGCACTTGAACCCAGCATCTATGTGGGCCTACGCCTCTCCAGTCT
GCAGGCTGGGACCAAGGAAGACCTCTACCTGCACAGCCTCAAGCTTGGTTACCAGCAGTGCCTCCTAGGGTCTGC
CTTCAGCGAGGATGACGGTGACTGCCAGGGCAAGCCTTCCATGGGCCAGCTGGCCCTCTACCTGCTCGCTCTCAG
AGCCAACCTGTGAGTTTGTGAGGGGCCACAAGGGGGACAGGCTGGTCTCACAGCTCAAATGGTTCCCTGGAGGATGA
GAAGAGAGCCATTGGGCATGATCACAAGGGGCCACCCCACTAGCTACTACCAGTATGGCCTGGGCATTCTGGC
CCTGTGTCTCCACCAGAAGCGGGTCCATGACAGCGTGGTGGACAACTTCTGTATGCTGTGGAACCTTTCCACCA
GGGCCACCAATTCTGTGGACACAGCAGCCATGGCAGGCTTGGCATTACCTGTCTGAAGCGCTCAAACCTTCAACCC
TGGTCGGAGACAACGGATCACCATGGCCATCAGAACAGTGGCAGAGGAGATCTTGAAGGCCAGACCCCGAGGG
CCACTTTGGGAATGTCTACAGCACCCCATTTGGCATTACAGTTTCTCATGACTTCCCCATGCGTGGGGCAGAACT
GGGAACAGCATGTCTCAAGGCGAGGGTTGCTTTGCTGGCCAGTCTGCAGGATGGAGCCTTCCAGAATGCTCTCAT
GATTTCCAGCTGCTGCCCGTTCTGAACCACAAGACCTACATTGATCTGATCTTCCAGACTGTCTGGCACCACG
AGTCATGTTGGAACCAGCTGCTGAGACCATTCTCAGACCCAAGAGATCATCAGTGTACGCTGCAGGTGCTTAG
TCTCTTGCCGCGTACAGACAGTCCATCTCTGTTCTGGCCGGGTCCACCGTGGGAAGATGTCTGAAGAAGGCCCA
TGAGTTAGGAGGATTACATATGAAACACAGGCCTCCTTGTGAGGCCCTACTTAACCTCCGTGATGGGGAAAGC
GGCCGGAGAAAGGGAGTTCTGGCAGCTTCTCCGAGACCCCAACACCCCACTGTTGCAAGGTATTGCTGACTACAG
ACCCAAGGATGGAGAAACCATTTAGCTGAGGCTGGTTAGCTGGTAGCCCTGAGCTCCCTCATCCAGCAGCCTC
GCACACTCCCTAGGCTTCTACCCTCCCTCCTGATGTCCCTGGAACAGGAACTCGCCTGACCCTGCTGCCACCTCC
TGTGCACTTTGAGCAATGCCCCCTGGGATCACCCAGCCACAAGCCCTTCGAGGGCCCTATACCATGGCCCACCT
TGGAGCAGAGAGCCAAGCATCTTCCCTGGGAAGTCTTCTGGCCAAGTCTGGCCAGCCTGGCCCTGCAGGTCTCC
CATGAAGGCCACCCCATGGTCTGATGGGCATGAAGCATCTCAGACTCCTTGGCAAAAAACGGAGTCCGCAGGCCG
CAGGTGTTGTGAAGACCACTCGTTCTGTGGTTGGGGTCCCTGCAAGAAGGCCTCCTCAGCCCGGGGGCTATGGCCC
TGACCCAGCTCTCCACTCTGCTGTTAGAGTGGCAGCTCCGAGCTGGTTGTGGCACAGTAGCTGGGGAGACCTCA
GCAGGGCTGCTCAGTGCCTGCCTCTGACAAAATTAAAGCATTGATGGCCTGTGGACCTGC

3343/5332
FIGURE 2925

CGAGTGGCCCCCTGGCAGCCCTCAGGCCCTCCGGCAGCCTGGCCGGGCCCCGAGTGGCCATGG CAGCACTGGTGTG
GCTGCTGGCGGGAGCCAGCATGTCAAGCCTCAACAAGTGGATCTTCACAGTGCACGGCTTTGGGCGGCCCTGCT
GCTGTCGGCCCTGCACATGCTGGTGGCAGCCCTGGCATGCCACCGGGGGGCACGGCGCCCCATGCCAGGCGGCAC
TCGCTGCCGAGTCCTACTGCTCAGTCTCACCTTTGGCACGTCCATGGCCTGCGGCAACGTGGGCCTAAGGGCTGT
GCCCCTGGA CCTGGCACA A CTGGTTACTACCACCACACCTCTGTTACCCTGGCCCTGTCGGCGCTGCTGCTGGG
CCGCCGCCACCACCCACTTCAGTTGGCCGCCATGGGTCCGCTCTGCCTGGGGGCCGCTGCAGCCTGGCTGGAGA
GTTCCGGACACCCCTACCGGCTGTGGCTTCCTGCTCGCAGCCACCTGCCTCCGCGGACTCAAGTCGGTTCAGCA
AAATCCTGATCTGGTCCATT CAGCAGAGGACTGCAGAAGTCTGAGGAGCCTTAAGATATCAACTTAAAGCAATGG
GCTCGTCGCAGAAAGGAATAGCCTGTGCCGGGTCTTCAGAGAAATCCTGGCCTCGGCTCCACGCCC

3344/5332
FIGURE 2926

GCTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA
GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATTGCTGACCATAT
CCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTG
CCTCGCCTACCTCATGAAGTACCACGCCATGTCCCTGCTGGACGCCACACGTGGACCAAGTCATGCCGGCCCAT
CATCCGACCCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATGTTTGGCAAGAACACTGTGCA
CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGATGATTCCACTGTGAGC
CATCCACGAGCCCCCTGCATTGGAGTCAGAGGTACAGATCTATTGTTGATCTTACACCAAGATCCAACTTGAAC
ATTCTACTTTTGTGATACAGAAAAAACAGATGATGCCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTA
ACTTTATAATCCATTTTTTTTAAAGATTAACTAATTGTGAGATGGTGAAGATAAATTTTCTGCCCTGTGAGTGAC
ACTGGCCAGGGGATAGGTTGAGGCAGATGGTGCCCAAGAAAGAGGGCAGCACCCATTGCACATGGCAGGCCTG
GAATCCTGCAGCCCTCCCCAAAAACAGATTGACCCAGGAATGAATCTGCTACAATTCCACCTCATTCTTTCACAC
CCAGAGCCAGAGCCTTAAGCATCATGGTACCTCTTGCGCTTCTTACAGTGAGTGCCAATCTACTAGATAAATGGC
CTTCAGGCAGTGCTCCAGGAATCCTGGGGGGTCCCAGGCCACCTCTGCTTCCACCTTCACTATAAGTGGCCAGT
TCTGGTTTTCTAGATTGTACTTATGCATAAGATAGTTTTTAAAGAAAGCATTCCACTGTGTAAATTTTTTTTGT
CTTTTTTTGAAACTGTCCTGCTCTGTCACCCATCCTAGAGTGCAAGTAGTGATCATGGCTCACTGTAGCCACAA
CCTCTCAGGCTCAAGTGATCCTCTTACCTTAGCCTCCTGCGTGGCTGGGACTACAGATGTTTGCCACCATGCCCG
CCTCATTTTTTTTTCTTTTTTATAGAGATGAGATTTTACTATGTGCGCCAGACTGGTCTCAAACCTCCTGGCCTCA
AGCAATCCTCACGCCTCAGCCTCCCAAAGTGTTGATGAGCCACTGTACCCCGATAACCACTGTATAAAAAATTTAA
AAAAAATTGTGAGTGCTATTGTACATGGCAAAGTTTCAAAGAGCTCTTGCCCATCCCTCACCAAACCTTTGGCAA
AGATGGTGTTAGTCCCCTTCTCCAGGGCACATGAGAAAAACAGGCCTAACATCAGGTCTCAGCGGTTCTCTCAC
AGGCCTTGGCTTGGAAGGCTGGAGCTTCGGACCAAGGCCAGCCCTGTACCTCCTCTTCATGTGATGTGGACCC
CTGGGAGCATCAGTGTCTCATCTGTCCAATGACAGCCCTTTTCTCACAGAGTTATTGTGAAGATTCAACAATTT
CTTGGCATAGTGCTGGCACATGGTGTGTGCTTAGCGCAAATGGCAGCTCTCATCATGAATGATAGACTCTTTCA
CCCTGCTGGTCCCAGGTCGGCACACACATCCCCATAATGGCATTCTCCTTCTGTGCACAGCACTTATTGTTA
CAAAGTACTCTTCCAAAAAGTTACCCTGTGTGTAAAAA

3345/5332
FIGURE 2927

GGGATTGCGGAAGCCCTCCACAGTTCATAACCGTTGGCTGGTTATGAACCGTTCATAACGGGCGTTAATAACCAT
ACCCGTGTTAGACTAAGCATGGTCCACCCGCGAATCCTCTACAGAGATGGCCAAGCGCTGGGGTCGTGGCTGCGTC
CTCTAGGCCAGCCTTGTGCAAAGGACCTTCTCACCACAGATCAGCCAGACCATCTTCCTCCTTCCAAGTCATCAA
AGAGTTCCAAGCTGGTCACCTGTCCCTTGATGTTCCCAGGAAACCAGGAAAGAGGACCCCTGCATTTTATCTTCC
CATCCAGAGTGGCAGGATCTCTGCCTGGGAAACAGGCTTCATTAGCACAGCTGTGGTAGCATTAACAAAGCAAA
GTGGGCACATGTAGAAGTTGAAGCTAAAACATTCAAGAACTCCAGTCTGTTTCTGTGGATGTTAAGGGGGTGAAG
ATAAAACAATGGAGGTGATGAGGAGGAATAACTTGAAGACAGTTTAAAGCCACAGTGATACAAAGAATGAAGAGA
AGGAAGGTGCTGGATTTTACTAAGAAAACAGACTGAGTTCAGGAGTCTCACCAGTAGAACTTTATAGTATTGCGT
TTCGATTACATGTGTGTGAATTTTAAAACTGATTACCCTCCAGTAAAAATGTGGAACCAATTTGCATTGGAAT
AAAACATTAGGTTTGGGGACAAAAGTGGACCCCATGCTGCCTGAGATGAAGAGAGAGAGCAGGATGGCAGAGGAA
TCACCAGCTCAAGAAACCCCAAGACTTGGACAGTCTTCCAGCAGAAGAGGCCAGGGTCTCTCAGTGTACTACTCC
AAACAGGCCTCTCCTAGAGATGTAGTCTGGGAAGGTCCAAAACCCACCAGACAGGCACATCCAGTGGGGAAAAGA
CTTCCCATTCAGTGTGGCCTGCATCCCTCACCTCTGCTTCCCAGTCTTCTGCTGACCTCAGAGGAGCAGGGTGG
CCATTGCTGATCTGGGTAGGGAGATGCCAGAAACACACCCAGGTTTGAACCACAGGTTAGTGGTACAAAGTCAC
AGTCCTTGTCCTTCAGAAAACCCAGAGGCCCAATACGAGTGGGAAGAGAGTTGGGAAAACTGAACCAGACT
CTTCCAATGGCCATTAAAGAGAAAATTTCAGCAA

3346/5332
FIGURE 2928A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCACTGCTTCCTTGATATTATATGGAATCGTTTCC
CCAGAAAATTTTGCTTTTTCACCTTTTGGAGATGTATCCCACTGGAGTGAAATGTGTCACCTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTCTAATCCAGAAGAATCTGATTTTGTATTATGGATCAAA
ATTTTCTAAATGCAAACCTTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCAATCAAGTGTTTATAGGAATCCA
ACAAATACCTGCTCTATTGGATCGCCAAATGTTGGACTATTTAGTATCAACCGTTTCCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTTACTTTCTAACAGAAAACAGAAGACATTTAAATGACAACCTTTCA
AGAAGAAAATTTTATTTTTTTCAGAAGTTGGCATTATCTTCTGGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTATATCTCTATTAGATAGTCTTCCCCAAAATTTCCACAGAAAACATA
CAGTGTTCATGGTTCTTGAGTTTATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCCTCTCTTGGAGGCTGTCCAGTAGCGTCAAACTTTAGTGTTTAATACATTCACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCTGTAAATCCAGCACTTTGGGAGGCCGAGAACCACTCACGAATCTTGTGTTGGTGCCC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCAAGCGAACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTAAAAATCGGGCT
CAATGCGCATTGGGAAGGATTTTATCCTGTTTACCAGAAAGGAAGACACCATGACCTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCACTGCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTCATGG
ATAATGGAGAGCCAGAACTAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCCAGAGGGCA
CGAAGCCAGAGCGGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGACAGCAAGAGGCTCTCCTGCTGCTGTACAAGCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGACAGTACGTAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAAGCTCGGACATTAGAAGTACGCCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAAGTGAATTTTGTGTTTGGTGTCAACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAAGTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTGGAGCCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAAGCCCCATCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTGTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCTGACACCTGGGTTTGTCTCCATGAACCTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACCTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCCTTCTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTCTATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCTCTGGTGCAGCAACTGTCAACATCTTACTGCCCAACTCCAAGAGCCCTCGG
AGGTTCTTCTCCCAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACCTCCCCGGCTA
CCCCTAGTCCGAAGCGGAGTGTCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGGAAGGAGA
GGTGCAAGCGGGGAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

3347/5332
FIGURE 2928B

ACACGGGCCGTGTCACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGCGCACTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCTGCCACCTGCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

3348/5332
FIGURE 2929

TGTCTGAAAAAATCAATTGACTATTCCCTTTTCTAAAGGGCAGAGACAGATAATCTCACTTCCAGAGAAATGAC
TTGGAGAAAAAAGTGTGGTCTTTTGTCTTTTGTAAATTAAATCCGGATGTACCTCAAAAGACTTAAGACTG
TGGTGATAAGATGCTTTTCTCAGCAGAAAGGAGGGAAAAAACAACCTGGAACCTCAAAGCTTGAAATTCTGTGGC
AAAACATGAGATGTCCAGGATTGGAGGTTGAAAAGATTTCACTACAGTGTCTGCAATAGTTGGAGCAGATAACT
TTCAGTGTAGCCACAGCCATGGACTCCAGATTTCCAGATTTTCAAGACCTGGACCTGGAACCCGAAAGAGCTTGT
CACGATGCGGCAGGAACACTGGAGGTAGATTTTTTTTTTATTTTTGAATTTTGGGACTGTTGACCTTGCTGTGAGA
AAAGAGACAACGACTGAGCAAGCACTACCACCAGCACTGTTACTGGGAATTAGAAGACCTGAGTTTCTGTCCAGA
CCCTCAGTGCAAACCTGAGGATGCTCCATCCAAAGTGAATTATGTCCTGTGCCTCCTGATTGCTGAGTGTTCACCT
GGACCTTCTGACTACCTTCCCTGTGCTATTCCATCAGCCTACAGACCTGGTACCTGGATTTTTGCCCCGAGATGAT
TCCTACCACCTTACTACTGACGAAGACACCCATTCCAGTGGACCACTGTGACCCAGGAGGCATTTCAGCCATCATG
ATGTGGCCTTTACCTCCACTCCTGTCTTGTCTTACCCAGATTTCAGCACAGCCCTTTATAGTGAAGTCAGAGTCCT
CAAGCCAAATAGCTAAAGCTGTTTTATCACAACAAAGGCCTAGTTTGTTCATGAGTGTGCATTTTCAATTTCTTCA
GTTAAAGCCTTCAGAGACACACAATAAATTTGGACCAGGGGATTTTTTAGTTATTAATGCTCTCTGAAGAAAGGC
AACATCTTTTTGAGAGCAGCATTGGACCACACCCCAATCTCAAATGATTGAAATTCATGAACATCTAGGATCC
CGTGAAGGTCACTGGACCCTGTTTTTCTACTTCAAATCCTGTAGTAGCCTACTGAATGAGAAAACATATTCTGA
CCCATTGGGATCAAATCAAAGGCACAGTGAACCTCCTCATAGCATCTTCTTGGGAATTACTCAGGAACCAGAACTT
TTTACACAAATGTAAGAAATTCTACCAAGGAGTCCCTTACCTAACAGCATCTCACAAGGCTGCACCAGATTCCA
GAAAAGGCTTCTCTTGATACATCAAGCATTTTGTGACCGACTTATTCTTAGATCATTGGTTTTCCAAAGGCTTTG
TGGCCATGAAGCCCTTTGAGTGAAAACCTGTGCAGAAGCCAGAGTAAAGTGAAGCTGCTCTGGATGAAGTAGTG
AAGCAAGAGTAGGGGCTGAATCCTGCTACAACATATCTTCTTTACCACCGTGGTGACACCTAAGGGGACTTCCT
TACAACACCTTGAACCTTCCGAACACAGTTTGAAGAACCTGCCCCAGACAGCAATATGTTTGACCTGAATGGC
ATTCCAATCTTTTCTGTACCTCCACTCAGCACAGTTCATGTTCACTAGATGCTGAACATTCTTAGAAATACTGTG
TGTGAACCTAGAAAAGTGCAAGAAGACAGGCATGTCTTTGACCCAGGAATGATCATTGTGCTGAAGATGGTGTCA
AGTGAACCTAGATTAACAGCCCTCCACTCCAGATGGATATCCAGTGATTCCCTAGAATGGGATATAGCCAGAGAAC
AATTCTATGCACCCTACACTGACAGACTCCCTTAAGCAACACCAGATGCTCTACTGGTACTTGAAGTACATGACT
TTGAAGTCTTGACCCTCCATGAATACCTGAATTATCAGCAAGCGGGTTTTGAAGCTGGTGCCTCATTGAGGCCAT
ATTAGAGCAACTTGTACATTTGACCTCTTGTATCAGCCATGGTACTCTACTTCGTGTGCAAGAGATAACTATGA
AAGCCAAATTCAAATACTGGCAACATTTCTAAAGGGGCTCAATATCTATCATTTCGTCTTCTTTTCCAAACTACA
CATCACTGTATGACTCAACCAGTAGCAGTTATATTGCCCTTGGTTTTTATTTCAGTTTAACTACTGTTTCCAAGA
TAAATGAGCTAATAAGCTTT

3349/5332
FIGURE 2930

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAAATCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGGCCAGCGAGATGGCGG
ACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAACTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTCCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCAGCTCTCAGCAGCGGGAAGCTGAGCAGCGGGCT
GCCCTGGCAGCGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCT
GGTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACC
TTGGCTGGGAGGTTGTACAGCGGGCTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGG
CTGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCT
GAAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCT
GCCTACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACA
GCTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCA
ACGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGC
CCCACCAGAGGCCCTCTGACACCAAGAGAGCAGAGCTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTGGTG
CTCAGCCCCCGCCAACCAGCCAGAACCAGAGTCCACCCCTTGCCAGCGGACCTTCCTCATTCAGCGGGCT
GGCTCTGTGCGGGATCGTGTCCACAAGTTACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCC
CAGGCTGCCCTAAGTCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCC
TCCAGCGGCTCCTCCTCTCGGGCCCCAGTGATACCTCCTCCCGGTTACGAAGGAGCAACGAGGAGTAGCCACG
CCCCTGCCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCTTGAA
AACAGAGCAGGGGGGCGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAG
CCAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTG
CTGCTGCCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAGT
AGTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCTTGCTCGGCTGGGCAGTGTCACTCATGTC
ACCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCT
CTCGCTGCAGCATGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGCGCCT
CTGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTT
GAAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGG
GAACGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGG
CACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGTCAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGAT
GGCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACC
ATGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAG
GCCAGCCCACGGGCGGGCAGCCTGGCGGGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCG
CAGAGTCTGCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCC
GGCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAG
CAGATGCTGCTGGAAGTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTCGACATCCAGAACTTCTCCTCCAGC
TGGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACCTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGC
CCTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCCGAGCTCCTG
GATACAGAGGACATGGTGCGGCTTCGAGAGCCTGACTGGAAGTGCGTGTACACGTACATCCAGGAATTCTACCGC
TGTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAGTCTTAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGAC
TGTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTAT
GTGCACTCGCTCTACAACCACCTGCGACGCCACGAAGTGGCGCTGCGCGGCAAGAATGTCTAGCCTGCCCCGCCG
CATGGCCAGCCAGTGGCAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCTGTGCGTCCGCCCCACCGCTG
CCCTGTCTGTTGCGACACCTCCCCCCCCACATACACGCGAGCGTTTTGATAAATTATTGGTTTTCAACG

3350/5332
FIGURE 2931

CGTGGCGCAGCGACTCGGAGGTTGCGCTCCAGCTTGCGCATCATCTGCGGCCGGGTCCCGATGAGCCTCCTGTTG
CCTCCGCTGGCGCTGCTGCTGCTTCTCGCGGCGCTTGTGGCCCCAGCCACAGCCGCCACTGCCTACCGGCCGGAC
TGGAACCGTCTGAGCGGCCTAACCCGCGCCCGGGTAGAGACCTGCGGGGGATGACAGCTGAACCGCCTAAAGGAG
GTGAAGGCTTTCGTCACGCAGGACATTCCATTCTATCACAACCTGGTGATGAAACACCTCCCTGGGGCCGACCT
GAGCTCGTGCTGCTGGGCCGCCGCTACGAGGAACTAGAGCGCATCCCACTCAGTGAAATGACCCGCGAAGAGATC
AATGCGCTAGTGACAGGAGCTCGGCTTCTACCGCAAGGCGGCGCCCGACGCGCAGGTGCCCCCGAGTACGTGTGG
GCGCCCGCGAAGCCCCCAGAGGAACTTCGGACCACGCTGACCTGTAGGTCCGGGGGCGCGGCGGAGCTGGGACC
TACCTGCCTGAGTCCTGGAGACAGAATGAAGCGCTCAGCATCCCGGAATACTTCTCTTGCTGAGAGCCGATGCC
CGTCCCCGGGCCAGCAGGGATGGGGTTGGGGAGGTTCTCCCAACCCCACTTCTTCCTTCCCCAGCTCCACTAA
TTCCCTCCTGCCTT

3351/5332
FIGURE 2932

GAGAGGGGCGGCTCCGCGTCATGTGACTGGAGTCCGCGTAGGAGGGGTCGGAGGTCTTACCCAACAGATTGACGC
GGCGTTAGTATTGGCCGTGTACCCGAAAACTGATTGACTGGGCTGGCGTTAACTGTGCGGAGGCAGGATTTCCC
TGGGGAAAGTCTTCACTCAGAGCTTCGCTGACAGCCAAGGATGGCAAGCAAGGGGCCCTCGGCCTCTGCATCTCC
TGAGAACTCCAGTGCAGGGGGGGCCAGTGGGAGCAGCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACTTT
CGAGTGCACATCTGCTTGGACACAGCCAAGGATGCCGTATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTG
TTTACATCAGTGGTTGGAGACCAGACCTAACAGACAGGTGTGTCTGTTTGCAAAGCTGGCATCAGCCGAGACAA
GGTCATCCCCCTCTATGGAAGGGGCAGCACTGGGCAACAGGACCCAGAGAGAAGACCCCTCCTCGTCTCAAGG
ACAGAGGCCAGAGCCGGAGAATAGAGGGGGATTCAAGGATTGGATTGGAGATGGTGGCTTCCAGATGTCTTT
TGGAATTGGGGCATTTCCTTTGGGATATTTGCCACAGCATTTAATATAAATGATGGGCGGCCTCCTCCAGCTGT
CCCTGGGACACCCAGTATGTGGACGAGCAGTTCCTGTACGCCCTCTCTATTTGTGGCCCTGGTGATCATGTT
CTGGCTCCTGATTGCCATAATGCTGGGCTCCTGCCTACATCCGTGGCAGGGCTCTGGACTGGTGACGTGCCACCCC
AACTCCTGGTGTGTTGGCTTCTGGCTAATCTTGACTCCTGGAATCAGTGGGATCAGTAACACATCAAGGAGTCTT
GTTTCTTCATCAGAGCTTTGGAACCTGAGACCAAGTGGCGATGACCCCTGAATATCGCCACCGCTGTAAACACTC
TATAACTTCAGGCCTTGGCATTGAGTCATCTCTCATGGGTGACACCATGAAATCTTGTTTCAGCCAGTTCTGCAG
GTCTTGACTCTGCAGAGGGAAGAGGCAGAAAGAGAGAACTGTGAGTATAATTTACCTGAGTTTAAATTAC
AGAAACAAAGGGATGCACCAAATGGTATTTCTGGAAATTTTCATGTCTTTAAATACCCCTTGGTAAGTTGCTTCT
GAAGCCAGTGGGGGCTCCTCAGATAGAGAGGTTCCCTTTCAAATCCCAGTGCCGCTCTGTTCTCTTTCCTTCCC
CTCCCACTCCCCCTCTTCTCTCTGTAGAGATGCAAGAAATTGCTGTCCATAAAAATCATAATTGCAGTAGCT
AAAGCTGGGGTCACTTCGTGAATTCACCAGAGACTCAAAGATCTTTTATTGGCTCTGGGCTGTGCTCAGTGTCTT
TGGCCTCAGAGAACAACCTGAATGACTTCCTGGTTTCTGGCATAAATTATTCTGGTGAGACATGTGGCTTAAC
TCACAGGTTTCCCATCAGCTTTCTCCCTAAACATATGTTTCATCTGCCTCTCTCTGCCAGAGAACATACAGCCGAG
AATACTGCCGAAGCTGAGACTGACTACTGTGCATTAGGAAAGACCTGGAGTCAGGACTTTGGTGGGATTGGAGC
TCCGAGGCAGTAATAACTGAACAAGCAGCCCTGTCCCTAGGCTGCAGAAGCTTGAATGCATCCTCTCCAGAAC
CTGCCACAGGAACTGGGGGCTTTGTGAGGTGAGCCCACTGCATGCAAAAGACCACCATCCTCAGAAGCCAAGT
TGTCTTTTATGAAGAGGCAAGGAAAGGGGAAACCCACATGTGACCTGATTTTGGTATGGCTTGATAGAGTTCCC
TGAAAACCTCCTTGATGTGTGCTAAAACCAGGGAGCATGTGACTGCCAAGCAGGCAACCCCTGATGATTGTAA
AGCCAGGTGGCAGGGCCTTGGGGAGCCCCAGCACAAATGATATTGTGTGGTCTTCCCTCCTGTGGAATCGAGGGGA
AATTATTCTTCCCAATACCTTGATTGATTTTCAGTTTCATAAGCTTCTCCTCTGAATCTTATTGAGGGACTAT
GGTACCAAGCAGGTAGGACTGTTACCTGGTGGAAACAGTCTTGCTCTGCCTTCTAGGCTTCATCCCAGAAATCC
AGCCTCTTTCTGGAGACCCCAAAGCTGGAGGGAGATGGGCTTTCTCTGGGCTCTCTCTCTACTTTGCCATCCAC
ACTGCTCCTGGCTAACCCAGCAATAACCAACAAATGGTAGGAAGCCCCATCTATTGCTTTTTCTCAATTATGAC
TGCATAGTTTATGGAACAAAGATCTTGAGGAAGATGAGGGAAGCCCTCCCTCTTCACAGTCCCCATCTCTTCT
CCTTTGTACCTGTCAACACCAGAGTTCAGTGTTTAAACAGACAAAATATAAAGTATTGAGTAGGTGGTTTCATATG
CCGAATCCACTTGGTAGGAAGAAACCACCAGCTTTATAGTGTGCCTGATAGATTTTAAACATTCTGGGCACCCA
CTCAAGAGTGCTCTTTTTATCACCTTCTGGAAATCCGCAAAGTTGCAGGGGCTCTGGAGTGTCTCTTCTCTAGA
GAGAATTGGTGGGACCCCCCTCAGTGCAGTGGCCCCAACTAGTGGAGGGAGAGAGGACTTAAGTCAGATGGACTC
AACAGAAATGGGTTTCCAGAAGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTGGACTCTTCAATGAAA
TGGAGTGAGCCAGGAGAGCTCAGCCAACAGAGGCACCTCTGGGAACCTGTTAGTAAAGCCAGGCTGGCCAAATGC
CATTGATTTTGAACCTCGTAGGTCCCCACTCACCTCTGCCAGGAGCTAAGTAAGGCAGGAGAGCTGACTTGGG
ACTCCTGGCTCGGCCCCAACAGGGAGCCCCCTTCCCACCATCCCTCGGCAAGCTCACCACTCATCCTTCTGCCA
AGGCAGCTTTTCTTTCTTTTGTGTGTTTTCTGTGTTCTTAGCCTCCACCCTCCTCTGCCACCCTTGTGGACTAG
GACCAGGTCTGACCCAGTCAGAAAATGATGATATGTACAGTGGCACACCTTAACCAGTCACTAATTTTCACTG
TTGTGAAAGTGATTGATTTAGAATTAAACAAATGGTTTTACATTA

3352/5332
FIGURE 2933A

CTCAAGAATGCCAGTGTGTGTGTAGCCTCCACAGAGAGGTCGTTTTCTCGGAGTCCAGAGGGGCCGCTGAGCTT
CTGAGAACTAGGGAGGAGCCATCCAGCCATGAGCCCCTGTGGGAATCTGCTGGGGGCCAAGTGGCCTGGAGTCC
TCAGGCTCCCGCAGCTGCTCCGGAGGGAGAGGTGAGCTCAGGGCAGCCTGCCTGCAGCCAGAGGTGCCGGGAGCC
CCGGCCCTGTCTATGGTGGCCATCTACAGCCGGCCTGAGGCAGTCACAGACGGATTTGCAGCTGAGCCTGTCTATC
TGGTGTGGGAAGAAGATGGGGAGTTACTTGTCTAGTCCCGGCTTACTTCACCTCCAGAGACCTGTTTCGGTGTTC
GAATGCCAGGATTCCTCACCACCTGGTACTATGAGAAGGATGGGAAGCTCTACTGCCCCAAGGACTACTGGGG
AAGTTTGGGGAGTTCTGTCTATGGGTGCTCCCTGCTGATGACAGGGCCTTTTATGGTGGCTGGGGAGTTCAAGTAC
CACCCAGAGTGTCTTGCTGTATGAGCTGCAAGGTGATCATTGAGGATGGGGATGCATATGCACTGGTGCAGCAT
GCCACCCTCTACTGTGGGAAGTGCCACAATGAGGTGGTGTGGCACCCTGTTTGAGAGACTCTCCACAGAGTCT
GTTCAGGAGCAGCTGCCCTACTCTGTCTACGCTCATCTCCATGCCGGCCACCCTGAAGGCAGGGGGCTTCTCC
GTGTCCGTGGAGAGTGCCTGCTCCAACCTACGCCACCCTGCTGCAAGTGAAGAGAGGTCAACCGGATGCACATCAGT
CCCAACAATCGAAACGCCATCCACCCTGGGGACCGCATCTGGAGATCAATGGGACCCCGTCCGCACACTTCGA
GTGGAGGAGGTGGAGGATGCAATTAGCCAGACGAGCCAGACACTTCAGCTGTTGATTGAACATGACCCCGTCTCC
CAACGCCTGGACCACTGCGGCTGGAGGCCCGCTCGCTCCTCACATGCAGAATGCCGGACACCCCAACGCCCTC
AGCACCCCTGGACACCAAGGAGAATCTGGAGGGGACACTGAGGAGACGTTCCCTAAGGCGCAGTAACAGTATCTCC
AAGTCCCCTGGCCCCAGCTCCCCAAAGGAGCCCTGCTGTTTCAGCCGTGACATCAGCCGCTCAGAATCCCTTCGT
TGTTCCAGCAGCTATTACAGCAGATCTTCCGGCCCTGTGACCTAATCCATGGGGAGGTCTGGGAAGGGCTTC
TTTGGGCAGGCTATCAAGGTGACACACAAAGCCACGGGCAAAGTGATGGTCATGAAAGAGTTAATTCGATGTGAT
GAGGAGACCCAGAAAACCTTTCTGACTGAGGTGAAAGTGATGCGCAGCCTGGACCACCCCAATGTGCTCAAGTTC
ATTGGTGTGCTGTACAAGGATAAGAAGCTGAACCTCTGACAGAGTACATTGAGGGGGGCACACTGAAGGACTTT
CTGCGCAGTATGGATCCGTTCCCTGGCAGCAGAAGGTGAGGTTTGCCAAAGGAATCGCCTCCGGAATGGCCTAT
TTGCACTCTATGTGCATCATCCACGGGATCTGAACTCGCACAACTGCCTCATCAAGTTGGACAAGACTGTGGTG
GTGGCAGACTTTGGGCTGTACGGCTCATAGTGGAGAGAGGAAAAGGGCCCCCATGGAGAAGGCCACCACCAAG
AAACGCACCTTGCGCAAGAAGACGACCGCAAGAAGCGCTACACGGTGGTGGGAAACCCCTACTGGATGGCCCTGAG
ATGCTGAACGGAAAGAGCTATGATGAGACGGTGGATATCTTCTCCTTTGGGATCGTTCTCTGTGAGATCATTGGG
CAGGTGTATGCAGATCCTGACTGCCTTCCCCGAACACTGGACTTTGGCCTCAACGTGAAGCTTTTCTGGGAGAAG
TTTGTTCACAGATTGTCCCCCGCCTTCTTCCCGCTGGCCGCCATCTGCTGCAGACTGGAGCCTGAGAGCAGA
CCAGCATCTCGAAATTGGAGGACTCCTTTGAGGCCCTCTCCCTGTACCTGGGGGAGCTGGGCATCCCGCTGCCT
GCAGAGCTGGAGGAGTTGGACCACACTGTGAGCATGAGTACCGCCTGACCCGGGACTCACCTCCCTAGCCCTGG
CCCAGCCCCCTGCAGGGGGGTGTTCTACAGCCAGCATGCCCCCTGTGTGCCCATTCCTGCTGTGAGCAGGGCCG
TCCGGCTTCTCTGTGGATTGGCGGAATGTTTGAAGCAGAAACAGCCATTCTATTACCTCCCCAGGAGGCAAGT
GGGCGCAGCACCAGGAAATGTATCTCCACAGGTTCTGGGGCCTAGTTACTGTCTGTAAATCCAATACTTGCTG
AAAGCTGTGAAGAAGAAAAAACCCCTGGCCTTTGGGCCAGGAGGAATCTGTTACTCGAATCCACCCAGGAATC
CCTGGCAGTGGATTGTGGGAGGCTCTTGCTTACACTAATCAGCGTGACCTGGACCTGCTGGGCAGGATCCAGGG
TGAACCTGCCTGTGAACCTCTGAAGTCACTAGTCCAGCTGGGTGCAGGAGGACTTCAAGTGTGTGGACGAAAGAA
GACTGATGGCTCAAAGGGTGTGAAAAAGTCAGTGATGCTCCCCCTTTCTACTCCAGATCCTGTCTTCTGGAGC
AAGGTTGAGGGAGTAGGTTTTGAAGAGTCCCTTAATATGTGGTGAACAGGCCAGGAGTTAGAGAAAGGGCTGGC
TTCTGTTTACCTGCTCACTGGCTCTAGCCAGCCCAGGGACCACATCAATGTGAGAGGAAGCCTCCACCTCATGTT
TTCAAACCTAATACTGGAGACTGGCTGAGAACTTACGGACAACATCCTTTCTGTCTGAAACAAACAGTCACAAGC
AAAGGAAGAGGCTGGGGGACTAGAAAGAGGCCCTGCCCTCTAGAAAGCTCAGATCTTGCTTCTGTTACTCATAC
TCGGGTGGGCTCCTTAGTCAGATGCCTAAAAACATTTTGCTAAAGCTCGATGGGTTCTGGAGGACAGTGTGGCTT
GTCACAGGCCCTAGAGTCTGAGGGAGGGAGTGGGAGTCTCAGCAATCTCTTGGTCTTGGCTTCATGGCAACCACT
GCTCACCTTCAACATGCCTGGTTTAGGCAGCAGCTTGGGCTGGGAAGAGGTGGTGGCAGAGTCTCAAAGCTGAG
ATGCTGAGAGAGATAGCTCCCTGAGCTGGGCCATCTGACTTCTACCTCCCATGTTTGCTCTCCCAACTCATTAGC
TCCTGGGCAGCATCCTCCTGAGCCACATGTGCAGGTACTGGAAACCTCCATCTTGGCTCCAGAGCTTAGGAA
CTCTTATCACAACCTAGATTTGCCTCTTCTAAGTGTCTATGAGCTGCACCATATTTAATAAATGGGAATGGGT
TTGGGTATTAAATGCAATGTGTGGTGGTTGATTGGAGCAGGGGGAATTGATAAAGGAGAGTGGTGTGTTAAT
ATTATCTTATCTATTGGGTGGTATGTGAAATATTGTACATAGACCTGATGAGTTGTGGGACAGATGTCTCTCT

3353/5332
FIGURE 2933B

GGTCAGAGTTTACTTGCTATATAGACTGTACTTATGTGTGAAGTTTGCAAGCTTGCTTTAGGGCTGAGCCCTGGA
CTCCCAGCAGCAGCACAGTTCAGCATTGTGTGGCTGTTGTTTCCTGGCTGTCCCAGCAAGTGTAGGAGTGGTG
GGCCTGAACTGGGCCATTGATCAGACTAAATAAATTAAGCAGTTAACATAACTGGC

3354/5332
FIGURE 2934A

GGGCTACTCTGCGCCGCCGCCGCCGCCGCCGCTCCAGCCGCCGCCGCCGCCGCCACCGCCCTCCAGGCTCCGGG
ACCCGGCCCCGCGCCACCGCCCCGCTGCGCGCCCCGCCGCCGCCCTTCGCCTTCGCCTTTTGTTCCTCCGCTC
CGCGCCCCCGCCCCGGCTCGCGCTTTGCAGGGGACGCAGCGCGCCCCCAGCGGGCCCCGGGAAAAGCCGCGGC
GCGCGCGCGCCTGCGCGGCGGACCCCTCTTCTCTCCCGCGTGCAGCTGCCCTTCTTGGCTGCGCGCCGGC
GCCGCTTGGCGGGCGGGAGGGGAGGTGGCAGGCGCGTTTGACGAGGGGGCGACCTCTTCGCTGCGCACCCCCC
CGGAAGGTAGACCGGGAAGGGGAGGCGGGCGGGCGGAGAGAGAGAGTGGCGCGCAGTCCAGCGAGGGCGGGGGT
TGCTATGTGGGGGGTGGTGCACCCCGAGTCTAGACAGTCTGATCCGGGGTGGGGGCGTGTACACTCGGCGCAC
CTGCGAGACTACAGAGCCTCGGGCCGGCACGTGTGGGGAGTGTGGACACGTCTGCTGCGCCCCGCTTCTCGCTGC
TGAGGGGAAGGGAGGGGGCGGGCAGGTGCAGCGGCCGGGCTAGTGGGAGGGGGCGGCGGCCATGAGCGGGTGA
CGACGCTTCGTGCGGCCCGTCTGGCTGCTACACATACCAGGTGAGCAGACACAGCACGGAGATGCTGCACAACCT
GAACCAGCAGCGCAAAAACGGCGGGCGCTTCTGCGACGTGCTCTTGCGGGTAGGCGACGAGAGCTTCCAGCGCA
CCGCGCCGTGCTGGCCGCTGACGCGAGTACTTTAGTTCGTGTTTCAGCGCCAGTGTGGGCGACGGCGGAGCTGC
GGACGGGGCTCCGGCTGATGTAGGGGCGCGCAGCGCACGACAGGCGCGGGCGGGGGCAGCCGGGAGCTGGA
GATGCACACTACTCAGTCCAAGGTATTTGGGGACATTGAGACTTCGCCCTACACTTCCCGCATCTGGTGGCTGC
GGAGAGCTTTCCCGAACTCATGACGGCGCCCAAGTTCTTGTGATGAGGTGCGTTATCGAGATCTGCCAGGAAGT
CATCAAACAGTCCAACGTACAGATCCTGGTACCCCTGCCCGCGCGGATATAATGCTCTTTGCCCCCCCTGGGAC
CTCGGACTTGGGCTTCCCTTTGGACATGACCAACGGGGCAGCCTTGGCAGCCAACAGCAATGGCATCGCCGGCAG
CATGCAGCCAGAGGAGGAGGCAGCTCGGGCGGCTGGTGCAGCCATTGCAGGCCAAGCCTCTTTGCTGTGTTAC
TGGGGTGGACCGCTTGCCCATGGTGGCTGGACCCCTATCCCCCAACTGCTGACTTCCCCATTCCCCAGTGTGGC
ATCCAGTGGCCCTCCCTGACTGGCAAGCGAGGCGGGGCGGCCCAAGGAAGGCCAACCTGCTGGACTCAATGTT
TGGGTCCCCAGGGGGCTGAGGGAGGCAGGCATCCTTCCATGCGGTCTATGTGTAAGGTGTTACTGATGCCAA
CCGCTCCGGCAGCACGAGGCCCAGCACGGTGTACCAGCTCCAGCTGGGTACATCGACCTTCTCTCCGAG
GCTGGGTGAGAATGGGCTACCCATCTCTGAAGACCCGACGCCCCCGAAAGAGGAGCCGACCGAGGAAGCAGGT
GGCTTGTGAGATCTGCGGCAAGATCTTCGTGATGTGTATCATCTTAACCGGCACAAGCTGTCCCACTCTGGGGA
GAAGCCCTACTCTGCCCTGTGTGTGGGTTGCGGTTCAAGAGAAAAGACCGCATGTCTACCATGTGCGGTCCCA
TGATGGGTCCGTGGGCAAGCCTTACATCTGCCAGAGCTGTGGGAAAGGCTTCTCCAGGCCTGATCACTTGAACGG
ACATATCAAGCAGGTGCACACTTCTGAGCGGCCTCACAAGTGTGAGACCTGCAATGCTTCTTTGCCACCCGAGA
CCGTCTGCGCTCCCACTGGCCTGTATGAAGACAAGGTGCCCTGCCAGGTGTGTGGGAAGTACTTGCGGGCAGC
ATACATGGCAGACCACCTGAAGAAGCACAGCGAGGGGCCAGCAACTTCTGCAGTATCTGTAACCGAGGTTTCTC
CTCTGCTCTCACTTAAGGTCCATGTTAAAGCCACCACGCTGTCCCCCTCCCCAGGTCTCCAGGCACCGAGA
GCCCATCTGTAATGGGGAGCAGCTTCCACTGCGCCAGGAGCTATGGCAACAAGAAGGCCAGGAATGCTCACA
TCAGGATCCGATTGAGAGCTCTGACTCCTATGGTGACCTCTCAGATGCCAGCGACCTGAAGACGCCAGAGAAGCA
GAGTGCCAATGGCTCTTTCTCTGCGACATGGCAGTCCCCAAAAACAATGGAGTCTGATGGGGAGAAGAAGTA
CCCATGCCCTGAATGTGGGAGCTTCTTCCGCTCTAAGTCTACTTGAAACAAACACATCCAGAAGGTGCATGTCCG
GGCTCTCGGGGGCCCCCTGGGGGACCTGGGCCCTGCCCTTGGCTCACCTTTCTCTCTCAGCAGAACATGTCTCT
CCTCGAGTCTTTGGGTTTCAGATTGTTTTCAGTCGGCATTTCGCTCATCTTTAGTAGATCTGAGGTTGACCAGCA
GCCCATGGGGCTGAAGGGAATGAGGCGAGCTGCTGTGTCCCAACGGAACAACCATCTGGGGACTGCTGGGAAA
TGCTGTGAATGCGGAGGGAAGTGATGTTTGGGTTCTGTAGCTGAGAGATTTTATTCAATTTTAACTGCCCCCA
ACCCCACTCCAACCTCTCTCCACCACCAATCTCCCAATGGTCTTTAGAAATAGATTTTCACTGATATTCTGC
AGAAATATCAATGAGACTTGGTATGGGACAGGGGCAGAAAACACTACATAGGCTTCCAAGGCAAAACCAGTCCCA
GTTTCTTTAATGGGAAGAAGCTGGAATTCTTGGTGCTCAATTCTTAGTGACCCCAATCCTATACCCAAATCTATG
ATATTCTGGGACCTCAGTGATTTTGGTCCCTCCCACTTCTCTAGTTCGTATCCTCCCTTCCCATATCCTTCAA
AAGAACCACACTAGGGTCTCCACCTACTTATACAATGCGGATGCCCAACTGTTTTAAGGAAGCCAGAAGCATCC
CATGGACCATGGGGTGAGTGTCTTCCAAGAGCCCCCTGAGCTCAGCCCTCTGCCGAGGGGCTCCAGACCTTCT
GAGCCCTGTCTGGAGGCGCAGATTTTCACTGTAGGACAAGCTCAGCTGCTGTGAGGACACCCCCACCCCAATTTCT
AGTTCTTACGTGATTTTGAACCATTCAACTGCTGTGGGTTTTAATGTTCTTAATTTATTATTATTTGATTTAT
TTTTTAGCCAGTTTGTAGTGAATTGCTACTGAAAGCTATCCAGGTGATACAGAGCTCTTTGTAAACCGCAGTC
ACACATTAGGGTTAGTATTAAGCTTTGTTTAGATGTACCATTAATAACTTGGCTAGTTGATTGTTTGAAGTCTAT

3355/5332
FIGURE 2934B

GGAAGAAATAGTTTTATGCAAAATTTTAAAAAATGCCAGTCTGGTCAGGGAAGTAGGGGGTTTCAATGCTGTTGG
GAACCAGGAAGGTGGGACAGCCGGCAGGTAGGGACATTGTGTACCTCAGTTGTGTCACATGTGAGCAAGCCCAGG
TTGACCTTGTGATGTGAATTGATCTGATCAGACTGTATTAAAAATGTTAGTACATTACTCTA

3356/5332
FIGURE 2935

GCGGTGGCAGTTTCCCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGC
ACCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAGAACAAGGCCACAGCACACCACTTA
GGGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCCA
GGAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTGTGGTTTTCCATCTGTGGGGAAGTCA
ACACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCACACTCTGACCACTGTGCCT
GGTGTGATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCAGGTATCATTGAAGGTGCCAAGGATGGG
AAAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCCGAACCTGTAACCTTGATCTTGATTGTTCTGGATGTCTGAAA
CCTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCAAC
ATTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCAGAGTGAGCTGGATGCTGAA
ACTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGAT
GACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATC
TCCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTT
GATGACCTATTGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCA
GATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCAAAAAAT
CTTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGAC
CATACGTTGGAGGATGAGGATGTCAATCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGA
ACCACAACAGCGTTCCCCATGATCAAGCACCCCTACCCAGTTCCTTTCTGGTTTTGGCAGTCACTGGATCAGGATC
CAGGGGAGGGAGATGGAGGCACCCAACTGGAACCTTCATTTGTCTTACCTTGGTGTACCTTGTATGTGCAACTG
CATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

3357/5332
FIGURE 2936A

GAGACAGCCCCAAGCCGGTTCGGGGTGGGGGCGCGAGAGCGAAGGCTGCGGGGAGCGGCGCTGGGACCGGTGCGGGC
AGCGGGGAGGGGAGCGGCGGCCGAGGCAAAGGGCCGCCGAGCGGCGGAGGCACCGAGTGCAGAGCATTGTAGACC
AAGGAGCCATGGATAGGAGAAGTATGGGTGAAACAGAAAGTGGAGATGCTTTCCCTTGACCTGAAGAAGCCTCCTG
CCTCCAAATGCCCCATCGCTATACAAAAGAAGAACTCTTGGATATAAAAGAACTCCCCATTCCAAACAGAGGC
CTTCATGCCTTTCTGAAAAATATGACAGTGATGGTGTCTGGGACCCTGAGAAGTGGCATGCCTCTCTTACCCAG
CTTCAGGGCGGAGCTCACCAGTGGAAAGTCTGAAGAAAGAGTTGGATACAGACCGGCCTTCCCTGGTGCAGGAG
TAGTAGATCCACGAGAGCGTGTGAAAGAAGATGACTTAGATGTTGTTCTCAGCCCTCAGAGACGGAGCTTTGGAG
GGGGCTGCCACGTGACAGCCGCTGTTAGCTCCCGGCGCTCAGGAAGTCCATTAGAGAAAGATAGTGATGGGCTTC
GTCTGCTTGGTGGACGTAGGATTGGCAGTGGGAGGATAATCTCTGCCCGGACCTTTGAGAAGGATCACCCTCTTA
GCGATAAGGACCTGCGGGACTTGAGAGACAGAGACCGAGAGAGGGACTTCAAGGACAAGCGTTTCAGGAGAGAGT
TTGGAGATAGTAAGCGTGTCTTTGGTGGAGCGTAGAAGAAATGATTCTTACACAGAAGAAGAACCAGAGTGGTTCT
CTGCTGGACCCACAAGTCAGTCTGAAACCATCGAACTGACTGGCTTTGATGATAAGATACTAGAAGAAGATCACA
AAGGAGAAAAAGAACAAGGCGACGGACAGCCTCTGTGAAGGAAGGTATAGTAGAGTGCAATGGAGGAGTGGCCG
AAGAGGATGAAGTGGAGGTCTCCTTGCACAGGAGCCTGCGGCTGATCAGGAAGTGCCAAGGGATGCTGTCTTGC
CTGAGCAGTCCCCAGGAGACTTTGACTTTAATGAGTTCTTTAACCTTGATAAGGTGCCATGCTTGGCTTCGATGA
TAGAAGATGTTTTGGGAGAAGGGTCAGTCTCTGCCAGTCGGTTCAGTAGGTGGTTCTCTAACCCGAGCAGATCAG
GAAGCCGATCCAGCAGTCTTGGGTCAACACCACATGAAGAGCTAGAGAGACTTGCAGGTCTGGAGCAAGCCATCC
TCTCTCCTGGACAGAAGCTCGGGGAATTACTTTGCTCCTATACCATTGGAAGACCATGCTGAAAATAAAGTGGATA
TTTTAGAAATGCTACAGAAAGCCAAAGTGGATTGAAACCTCTTCTTCCAGCCTTTCTGCAAATAAAGAAAAAC
TTAAAGAAAGCTCACATTCAGGGGTTGTGCTTTTCACTGGAGGAGGTAGAAGCAGGTCTGAAGGGCTTGAAGGTTG
ACCAGCAAGTGAAGAATTCAACTCCCTTCATGGCAGAACACCTAGAAGAGACCTTGAGTGCCGTAACCAACAATC
GACAAGTGAAGAAAGACGGAGACATGACTGCGTTCAACAAGCTAGTGAGCACAATGAAGGCAAGTGGGACTTTGC
CTTCTCAGCCCAAAGTCAGCCGAAACCTTGAAAGCCATTTGATGTCCCTGCTGAGATTCCAGGCCAGCCTGTCC
CTAAGAACATCCTGCAGGAACCTCTGGGTCAACCAGTTTCAGAGACCTGCTTCTTCCAATCTTCTGAGTGGCCTTA
TGGGGAGCTTGGAGCCTACAACATCTTTACTGGGCCAAAGAGCACCCCTCTCCTCCCTTGTCACAGGTGTTTCAAA
CTCGAGCAGCCTCAGCTGACTACCTTCGCCCCAAGAATACCATCACCAATTGGTTTTCACACCAGGACCACAGCAGC
TACTCGGAGATCCATTCCAAGGCATGCGCAAACCCATGAGCCCCATCACAGCCCAGATGAGCCAGCTGGAGTTGC
AACAGGCAGCTTTAGAAGGGCTGGCCTTGCCACATGACCTTGCTGTACAGGCAGCAAACCTTCTACCAGCCTGGTT
TTGGCAAACCACAGGTGGACAGAACCCAGAGATGGATTGAGAAACAGATTCAATGTTCTTATCAAACCTCCCTTGAT
GCAGGTTTGCTACATCAGCAGTTTTTTGGCCAGAGCTGACAGGCAACAGCGAGTGACCAAGTCACCAGCACCCGT
GCATCGAGGGAATTCTCTTCCCTGCCCCCTGCTGCTCCATCACAAGCATGCTTTCTCTCTCTTTACCCCTAC
CTCAGTGATTCTGTAAGATGTACGAGAGCAAAGAGAAAAGCAAGGAGGAGCCAGCATCTGGAAGAGCAGCTCTTGG
TGACAGTAAAGAGGATACTCAGAAGGCCAGTGAAGAAAACCTCCTGTCATCCAGCTCTGTATCCAGTGCCTGATCG
AGACTCTTCTCCCACTACAAATTCAAACTGTGAGCATTACAGAGGTCTTCGTGTTCCACCCCACTGTCCAGGC
CAACCGTTACACCAAAGAACAAGATTATCGACCTAAAGCAACTGGGAGAAAAACACCCACCTTGGCATCCCCAGT
TCCTACAAACACCTTTTCTCCGCCCTGTCCACCAAGTTCCCTTGTCCCCCATGTCCCTATGGTTAGGCTGCTCA
CCAGCTTCCACCCAGGGTTGGTACAGAGGATGCTGGCCAGGGAGTACATCCACAGCATCTTCCAAGTTTGCTCCA
AACTGGTGTGCTTCTCTCTGGGATGGACTTGAGTCATTTACAGGGAATATCTGGCCCCATCTGGGTGAGCCCTT
TTACCCCTTACCTGCTGCTAGTACCCTCTCTTAAACCCCTCGTCTGGAACACCTCTGCATCTGGCAATGGTGCA
ACAGCAGCTACAGCGCTCAGTTCTGCATCCTCCAGGCTCTGGTTCCCATGCAGCAGCTGTCAGCGTTTCAGACAAC
CCCTCAGAACGTGCCCAGCCGGTCAGGCCTGCCCCACATGCACTCCCAGCTGGAGCATCGCCCCAGCCAGAGGAG
CAGCTCCCCCTGTGGGCCTTGCCAAATGGTTTGGCTCAGATGTGCTACAGCAACCCCTGCCCTCCATGCCCGCCAA
AGTTATCAGTGTAGATGAATTGGAATACCGACAGTGAGCAGGGCAGGCAGACTCAACTAAGCCCGGACCTGTGGT
GGCACACTGGGCAGGACCCCTGCTTCACTCGGGTTGGTTTATGGGCTTTTACTTTGGAGCACTCTGTGTGAAGCT
GTTTGGTGGAAACCATGCATCTGGTGTGGTCCGCATTATGATGGAAGGATCTTAACCAAGTCGAGTGGAGTGTACA
TTGCTCTGAATACAGGATGCACAATGTTGTCAATCCTGGAATGGTCTTTCTTTTTTGTAAAGATATGTGAATGAAG
TGTGGTGTCTCTACCAAGAGGTGGCACCTAAGGGTTCTGAGGAAATAAATGTATAGACCCTTATGTACAGACCT
GTGTATAACAACCTTTTGTATATACATATAGGATAGCTTTTTTGAAGTATACAGCTGTACATAAAGTAGCTGAT

3358/5332
FIGURE 2936B

ATTAGTTAGGCCTGTGTCAACAGTTTGGATTTTTTCACTTGTACATTGGGATTTTCTTTTGGTTGATTAAAT
TGCATATGCTAAGTGTGTGAATG

3359/5332
FIGURE 2937A

AGCAAGCTGAGCTCAGAGCGAAGCTGGCGAGCCAAGGAGATAAAGAACCCCTCGGTGGGGATGCCAGAGGGTGCA
TGCTCCACGCCCTCGAAACCGATTCTCATTGCTGCTGCTGCAAAGCAACCCGAAGTGCGCCACCTACCCGACTG
AGGCTGCGCAAGCCCCGGGGTCTGGGCGGGGTGGTCCTCGTGCGCGCCGCTCGCCGTGGAGACGAGGGCGGGCC
CGCGCGAGACTGGCGTCTAGAGGCGCGCAAGCGCTGAGGCGGGCGTGGACCGCGCGGGAGTTAAGAAGCAGGTC
CCGGATCGCCGTATACCGCCGGGTTTTCTCCCAACGTACAGGCCGATGGCTCGGCTTCCCATGTTAGAAGGGAA
GATAAAAGACTTTGATTCATGAAGAATCTGCTCACTGAGAAGTGTATATCAAGCCACAATTTCCATCAAAAAGTG
ATTAAGCAGAGAATGGAGAAGAAGGTTGATTCCAGGTATTTTAAGGATGGTGCAGTTAAGAAACCTTATTCTGCA
AAGACACTGTCCAACAAGAAGTCTTCTGCATCCTTTGGGATCCGGAGGGAGTTACCTAGTACCAGTCATCTAGTG
CAGTATCGTGGCACACATACTTGTACCCGACAGGGCCGGTTAAGAGAAGTGCATCAGATGCGTGGCCAGAAAG
TTCTTATATTTATGGATTGCAATGACTTTTGGAAAGAGTATTTCCCTCTAAAGCCAGATTTTACTATGAGCAGCGA
TTACTACGGAAGGCTTTCGAAGAATGGAAGAGGAGTGGTGGGTTTTCCAGCACGAGTGGAACTCTGTGTTTCGA
GCTGACTGTCACTACAGGTATTACCTGTACAACCTGATGTTCCAGACGTGGAAGACCTATGTGCGTCAGCAGCAG
GAGATGAGGAACAAGTACATTAGAGCCGAGGTTTCATGATGCAAGCAAAGATGCGACAGGCCCTGGAAGCTCCTGG
TTGATCTACGTGGTTGTTTCGTAGGACCAAACCTTCAGATGCAGACTACAGCTCTGGAGTTTAGCAACCGATTATC
TTACGGGTGTGGTGGAGCACGTGGAGGCAGCGACTAGGACAGGTCCTGTGAGCCGTGCCCTCCATGCCTCTGCT
TTGAAGCACAGGGCCCTGAGCCTCCAGGTGCAGGCTTGGTCACAGTGGCGGGAACAGCTCCTGTATGTCCAGAAG
GAGAAACAAAAGGTTGTCTCTGCAGTGAACATCATCAGCACTGGCAAAAACGAGATTTCTAAAGGCCTGGCTT
GAATACCTGCAAGTCCGCGAGAGTGAAGAGACAGCAGAATGAGATGGCTGAGCGATTCCATCATGTCACTGTGCTC
CAGATATACTTCTGTGACTGGCAGCAGGCCCTGGGAGCGGAGGGAGAGCTTGTACGCTCACCATGCCAGGTGGAG
AAACTGGCCAGGAAGATGGCCCTGCGGCGCGCCTTTACTCACTGGAAACACTACATGCTGCTGTGTGCAGAAGAA
GCTGCCCAGTTTGAGATGGCAGAAGAGCACCACAGGCACAGCCAGCTGCTGCTGCACAGGTTCTGGAACCTCTGG
CGGTCTCAGATTGAGCAGAAAAAGGAAAGAGAGCTGCTCCCTTACTGCATGCTGCCTGGGACCACTACAGAATA
GCACTGCTGTGCAAAATGTATCGAATTGTGGCTACAGTATACTCAGAAGAGGCGGTACAAGCAGCTGCTACAGGCC
AGAGCGGATGGTCATTTCCAGCAGAGAGCCCTGCCTGCTGCCTTCCACACATGGAACAGACTCTGGCGATGGCGC
CACCAGGAAAATGTCTCAGTGCAAGAGCAACACGTTTTCCACAGGGAGACATTAGAGAAGCAAGTATTTTCTCTC
TGGAGGCAGAAGATGTTTACGATCGAGAAAACCGCCTGGCAGAGAGAATGGCCATCCTTACCGCAGAGCGACAG
CTTCTGTATAGGTCTTGGTTTCATGTGGCACCAGCAGGCAGCAGCACGTACACCAGGAGCAGGAGTGGCAACAGTG
GCCTGTGCCCACCACCGCCACGGGCGGCTCAAGAAAGCTTTCTGCCTCTGGAGGGAAAGTGCCCAAGGGCTCAGA
ACAGAGAGGACGGGCAGGGTGGCGGCAGCAGAATTCACATGGCCAGCTCCTGCGTTGGGCTGGAGCCAGTGG
AGGGAGTGCCTGGCCCTGCGGGGAGCGGAGCGGCAGAAGCTGATGCGAGCAGACCTGCACCACAGCAGCGTG
CTGCACAGGGCTGTCAGGCATGGGTGACTTACCAGGCGAGGTGCGAAGCATCCTCCGGGAGGTGGCAGCCAGG
GAGAGCCAGCACAAACAGCGAGCTGCTGCAGCGGGGATTACGTGCTGGAAGAGAACACCATGGCCCCAGTGGA
TGAAGCCAAAAAAACCTTTCAAGCAAGTACTCATTACAGAAGGACCATATGTTCCAAGGTCCTGGTCCAGTGGCG
GGAAGCTGTGTCACTGCAGATGTATTACCGACAGCAGGAGGACTGTGCCATCTGGGAGGCCCAAGGTTGCTGGA
CAGGGGCTGTCTGCGGACCTGGTTTTCAGCGCTGGTGGGACTGCAGCCGAGGTCAGCCCAGCAGAGACTGCAGCT
GGAGAGGGCAGTGCAACACCACCACCGGCAGCTGCTGCTGGAGGGGCTGGCCCGGTGGAAGACGCACCATCTGCA
GTGTGTAGGAAGAGGCTCCTGCACAGGCAGAGCACCCAACTGCTGGCACAGAGACTCAGCCGACCTGCTTCCG
CCAGTGGAGACAACAGCTGGCAGCCAGGAGGCAGGAGCAGCGGGCGACAGTGCGGGCCCTGTGGTTCTGGGCCTT
CTCGCTGCAGGCAAAGGTGTGGGCCACGTGGCTGGCCTTTGTACTGGAAGGAGGAGAAAGAAGGCGCGGCTGCA
GTGGGCGCTCCAGGCCATACAGGGGCAGCTCCTCAGGAGGGTGCCACGCGGCTCCTGCGCTTTGCAGCCAGCAT
GAAGGCCTCCCGGCAGCAGCTGCAGGCCAGCAGAGGTCCAGGCGGCTCACAGTCTCCATCGTGCCGTCCGCCG
CTGTGCCACGCTCTGGAACAGAAAGTGTGGGCGGGGCGGGAAGCCTCAGCCCCTGGCAGCCATCGCACCCAG
CAGGAAAGTGACGTTTGAGGGTCCCCTTCTCAACCGCATTGCTGCTGGGGCTGGGGATGGCACCCCTTGAGACAA
GAGGCCACAGGCTTCTCGGCCTCTGGGAGCTCTGGGCCGCTGGCTGCTGAGGAGCCCCACGCCCTGGAGCTGCC
TCAGAAGCCACAGGAACATGGCCTAGGCATGGCTCAGCCAGCAGCCCCCTCCCTGACGCGGCCCTTCTGGCAGA
GGCCCCGACAGCACTGGTCCCACACAGCCCCCTGCTGGGGCCCTGTCAAGCGCCCCCTGGCCCGAAGCAGCCCCC
GACGGCAAGCACAGGCCCGGAGCTGCTGCTGCTGCTGCTTCTCCTTCATGCCCTGCGGGGCGGCTGCACCAGC
CAGGGTGTGAGCACAGCGGGCTACTCCTAGGGATAAGCCCCCGGTCCCTCATCCCTGGCCAGTGTCCCTGACCC

3360/5332
FIGURE 2937B

CCATCTACTCCTTCCTGGGGACTTCTCAGCCACCAGGGCTGGGCCTGGACTTTCAACTGCAGGCAGCCTGGACCT
TGAGGCTGAACTTGAGGAGATCCAGCAGCACTACTGCACTACCAGACCACCAAGCAGAACCTCTGGTCCTGTCG
GCGGCAAGCGAGCAGCCTGCGCAGGTGGCTGGAGCTGAACAGAGAGGAGCCGGGGCCTGAGGACCAGGAAGTAGA
GCAGCAGGTGCAGAAAGAGCTGGAACAGGTGAGGCCCCAGGCCATCCCCAGGTGTCCCTGGGGACGCCCCGGGCT
GTGCTCCCTCTCAGCCCTGCCTGTCCCTCCATGGCCCCAGGTGGAAATGCAGATCCAGCTGCTGGCAGAGGAGCT
CCAGGCTCAGCGCCAGCCCATTGGCGCCTGCGTTGCCCCGATCCAGGCCCTGCGGCAGGCCCTGTGCTAGCGTGT
TCGCACCAGGAACGCAGGTGCTGGGCTGTCGGGGAGGCCTCAGGCCACCTCCAGGAACAGAACACAGTTTTAAGT
TTGATTTTTTTTATTTCAAAATGCTTTGCAATTAAATGAATTACTGTTC

3361/5332
FIGURE 2938

CGGAAGCTGGAGCCACCTGCAGCTCTGAGAGGGACAGACGGTGCTCAGCCTGTGTCTCTGGGGCAAAGCTGGATTTC
ATTTTCCTCCCTGGCGATCTTCTGGGGCCACAGCTGGTGATATGGAGGCACTGACACCCTGGTCTCGGCGCTTG
TTTTAGAAGAGGCAGAACAGTGATAAAGACAAGGATCTAAATGGGCAAGGACGCCCTGCCCTCACTGGGCTCACT
GGCAGCCCTGACCCTCTATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGCCCAAC
CAGCCTCGCAGAGGCAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGTCTGGCTCGGGGGAAGGGGAGGAAAG
AGGAAACAAAGGGAGTGATCGAGTGAGCCTCGCCCCGCCCTCCCTGCGCCGGGCCATGATGTGTCTCAGTCAGAGG
CGCGGCAAGGACCAGAGCTCCGCGCGGGCGAAATGGTTGCACTTCCCCCAGCTGGCCCTGAGGCGGAGGCTGGGGC
AGCTGAGCTGCATGTCCAGACCCGCTCTGAACTGCGCTCCTGGCCCTTGACCGTCTCTACTACCTCCTGCCCT
TCGGCGCCCTCAGACCGCTCAGCCGGGTGGGATGGAGGCCCGTAAGCAGGGTGGCTTTGTACAAGTCAGTGCCAA
CGCGCTTGCTGTACAGGGCCTGGGGTGCCTCAATCAGGTGGAGCTGCCACACTGGCTGCGCAGGCCCGTCTACA
GCCTGTACATCTGGACGTTTGGGGTGAACATGAAAGAGGCCGCTGTGGAGGACCTGCATCACTACCGCAACCTCA
GCGAGTTCTTCCGGCGCAAGCTGAAGCCGACAGGCCCGGCCCTGTCTGTGGCCTGCACAGCGTGATTAGCCCATCGG
ATGGAAGGATCCTCAACTTTGGGCAGGTGAAGAACTGTGAGGTGGAGCAGGTAAAGGGGGTACCTACTCCCTGG
AGTCGTTCTTGGGCCCGCTATGTGCACAGAGGACCTGCCCTTCCACCAGCCGCGTCTGTGACTCCTTCAAGA
ACCAGCTGGTCACCCGGAAGGGAATGAGCTCTATCACTGTGTCTACTACCTGGCCCTGGGGACTACCACTGCT
TCCACTCCCCACCGACTGGACTGTGTCCACCGGCCCACTTCCCAGGCTCCCTGATGTCTAGTGAACCTGGCA
TGGCTCGCTGGATCAAAGAGCTCTTCTGCCATAACGAGCGGGTGGTCTGACGGGGGACTGGAAACATGGCTTCT
TCTCACTGACAGCTGTGGGGGCCACCAACGTGGGCTCCATTGCGATCTACTTTGACGGGGACCTGCACACAAACA
GCCCCAAGGCACAGCAAGGGCTCCTACAATGACTTCAGCTTCGTGACGCACACCAATAGAGAGGGCGTCCCCATGC
GTAAGGGCGAGCACCTGGGCGAGTTCAACCTGGGCTCCACCATCGTGCTCATCTTCGAGGCCCCCAAGGACTTCA
ATTTCCAGCTGAAAACAGGACAGAAAATCCGCTTTGGGGAAGCCCTGGGCTCGCTCTAGAGTCTCTTCTCTGATT
ATGGCTGCTAAGGGATCTTTTCCAAACAGAGTGAGGGTCTTTTCAAGAGGGAGGCCCATGAGGCCATCCAGGTAA
GGGCTGCTCAGCGTGGTTGGGAGTCTGACCAGGTAGGACTTGAATGATTGCGCTACCACCTGTTCCAGAGGTG
CAGACAAGAGGTGGCGAGAGCCCCATCATGCCCTCAACCTATCCCGTTCTTCTGCTACAAATAAAAAGTGC
AGGCTGGAATGATCTCAGTCACATTTGGATCTTTTAAACACTGTATAGACGGAAGAGCCTGCATTCCTGACCGA
ACCTTCAGTTGGTCTCGGTTGTCTTTTTCTTGCTGCTCCTCCCCCATCACCTGAGCTGTTTTCTGTTGGCC
CTTTTGTTTTTTGGCCTTAACGCTCCTGCTGCACAGGGTGGGTGCTCCTTGGCACAGACTGTGGATGCCTCTC
CCCCAGCAGAGCCACACAGCCTTCGTGACAACTGCTTTCCGTTCCACATTACCTCATCTGCTCTTTAGAAAA
AGCAGTCTTTGTGCTTGTGGCTGAACGCATCACCTGGACTCTGCTAGTGTCTTCTGAGGACACTGATGACACTG
ATTAATGATACAGACCTTTGCAGGACCTGATGAGTGACCTTCTGGAGCTGGCCAGGTCTCTGCAGCAGGCAAG
ACCAATCAATCACTGAACCTGCCTCATGGCACCAGAGTGAACAGGGCAGGCAGGTAGTAGGCCAGCTGGGGAAA
TGGGAGAGTTCTGTCCCCCTCCACATATCCCTACATGAAATATGGGAAAGTTGCTGCTATTGATTAGGGTCTG
TCTTGGAGGCAGAGGACCTTGGTGGATAGTTGGTCAGTGCTGGAAAACCTGTCCAGTTTATCAGGAACGCAG
GCCTGGGGAGCCCCAGTGGCGGGGACAGGGCCAGATTTTCATGTTGACCCTGGGGATGCTGTGAATTTCTCCTGC
AGGAGAGACATCATTGAATTTTTTCAACTGTATCAGTAGCACAGTATTTTGTATGAAAAGTGGGAGACTTCTGA
ACAGTAATTCATTTAATTGCAAAGCATTTTGAATAAAAAAATCAAACCTAAAA

3362/5332
FIGURE 2939

GCAGACTAGCAGTGAGTCAACAGAGCCCTGTTTGGCCAGCTCTGTTGCCAGTATAGATGCAGTGATGTGGCGGCTA
TGTTTCCCAGAGACAACAGTGGGCACAGCTATAGTGTACCAACATGGCAGAGATAGTTTCAACTGTGCCTGTTA
CAGGTGTGGCACTCGAAGGACCAGAAGCAGCGGTTTGGAAACATGGGTAAC TGGGAGCAGAGGACTGGAAGAAACA
GAGCTGGGCTCCTTCCCTGTCTGACAATGTAGGAGAGGAGTTGTTGTGAGGCCAGCCCTGCCCCGTGTTGAAAT
TCTGGACCTACCCTCTAGCTAGGTCCCTTCCCTGTCCAAAGTTGAGAAGGGGGCCCCACTGCAAACCTGAAAT
TACTTACCTGAAGGTGATGTATATACCTAGGCTCCAGCTGCGCTCAGCCACACCTGTCTTAACATTAGTTTCGG
CACTGAGCCAGCTGCAGTGTGTGTCAGGGGTCCCCAGGCCCGTGGTCCCTAACCCAGATGGGACATGGTAATCGGC
TGCTGGCACACCACCTGCCCAGAGCTACAGGAGGTCTGGTCTGCGGTGGAGTTGGTACAGTTTCTGAGTATGGG
AACTTCCCTCCCCAAGTGGTGGGAAGTTACAGTTAACTACAGCTTACTCAACTATCACTTCCAGAGGTTTAGTGT
TTTTAATATGGGAAAGAGGAGAAATCTCAGGTCTAATCAGGGTTCTGCCCATCAGCTTTTCACTGAAACTTCAA
CTGTGTTTTGTTTTTTTTTTTTTCCATCTTTCAGTTTCTAGCTGTGTTTGCCCTTCTCCCTCCGCGTTCCCTC
CTCTTTTTTTGCTTTTGGTCTCCTTTCCAGCTTCATGTCTCCATGAGTTTCAGCTGTACCTCATCTCCTGTTAAAG
CAGATCATGTCCACTTTTTCTTACTGACCTTACTCTAAGCTACAGTAGCTGAGGGAGGTACGGTGAAGACATGTA
GCGTTTGCCTTATTCGGAGCCTGAGGAGCCCAGAAACCCATGCTGTGAATCCCAAACTCAGCGCTCCTCAAGAG
CTGTGAAAATCATGATACTTTGTACAATTTTGCCTGAAAGGGTCTTTGGCACGGGCTCCAGAGCCAACCTGAGG
TCCATTCCAGATCCCACTATCTGGGCGTGAGACCTCCCCCGTGGCTCCTTCCTTGCCCACTGAGCCAAGAGCAGC
AGGGAGCGTACAGGACGGGAGCAGCAGATCCAAGGCCGCGGTGCAGCCAATGAATGCACGGCCGTCGCTCCGTCT
CCAGGCTGGAATTCCGTCTCATAATCAATGCCATGTACATTAAGATCTGCGAAAGACCAACTTTTAGGCAGTGAT
ACTTTTCTCCCATTCCTGGGGTGGGGGAGTATGCAGTTGGTGCTTTCTGTAATTCCTTGTTCTGTTTGTGTT
CTGTAAGCTTTTCCCTGGTGTGTCATGGAAAGGACTTCTTAAATAACCACATTGTGGGTGGCTGTATCCAAAGTTT
AAATAATTGGCCAGAAGTGCAGAGTATCCTTTCCCTGGATTCTGTGTCAGAAAAGGGCTCCTTGCCACAACCTGAACT
TACTGTATAAAAACCTGGCTAGGGAGATTTAATTTTACTAAAATTACAGTTTAATGTTACCGTCTAGCCACAAAT
CAAGCAGCAAAAGCTATTTTGATGATGAAAGGGGTCCCCGTTGAGCTGGCCATCTAGTGCAGTGTGCTCTCAGA
TTCCATGTTTGTGATTGTGTGCTTTCACAAGCCCCCTCTCTGGTGTGTAATTGGATTGTAATCTTGGTGAGAGG
CCTCAGCATCTCCTTGGGCTGGTCTGGGCCAGTAAAAATAGCTGCCTGACATGTTTATATATTATCATGGTCAGT
AGTTCAATGAAATTTGTACATTTTGGTAACATTGGTATACATGATGCCCTGCAGTTCCTTTTCTGTTTGGTAG
TTTGTGACTCTAAGATTCCACTGTTATGTGTGTTAATTTATGAAAATAAATTTTTTTGAAAACCTTTC

3363/5332
FIGURE 2940A

GAGGCAAGATGACTTCTCTGCCCCAAGCTTGGAAACAGCTAAAGGGAAAAACAGTGCAAGATGAGAAACAACAAAGG
TCTACAAACTCGTCATCCACAAGAAGGGCTTTGGGGGCAGTGATGATGAGCTAGTTGTGAACCCCAAGTGTTCC
CTCACATCAAGCTTGGAGACATTGTAGAGATTGCACACCCCAACGATGAATACAGCCCTCTGCTTTTGAGGTCA
AGTCTCTTAAGGAAGATTTACAGAAGGAACTATCAGTGTGGACCAGACTGTGACTCAAGTGTTCCGGCTGAGAC
CTTATCAGGATGTCTATGTTAATGTCTGATAGCCCTAAGGATGTGACCCTTGACCTAGTGGAATTAACCTTTAAGG
ATCAGTATATTGGCCGTGGGGATATGTGGCGACTAAAGAAAAGTTTGGTCAGCACATGTGCCATATACCCAGA
AGGTGGAGTTTGTGGCATCAGAGCACAGGCTGGTGAACGTGTGGGTAAAGAATGAGAAGGTGATGTGTGGCTACA
TCAGTGAAGATACCAGGGTGGTGTTCGTTCTACGTCGGCTATGGTTTACATATTTATTTCAGATGAGCTGTGAAA
TGTGGGATTTTGATATTTATGGGGATTTGTATTTGAGAAAGCTGTGAATGGTTTCCCTTGCTGATCTATTTACCA
AGTGGGAAGGAGAAGAACTGTAGTCATGAAGTGACAGTGGTCTGTTTTCTAGAAGTTTCTATGATGCAAAATCTG
TTGATGAATTTCTGAAATAAACCGAGCCTCAATTCGACAGGATCACAAGGGGAGATTCTATGAAGACTTTTACA
AAGTGGTGGTGCAGAATGAGAGAAGAGAAGAGTGGACTTCACTTCTCGTAACCATTAATAAACTCTTCATCCAGT
ATCCAGTGTGGTGGCGACTGGAACAGGCAGAGGGCTTTCCTCAAGGAGATAATTCTACCTCAGCACAAAGGAACT
ACCTGGAGGCCATCAATCTGTCTATTCAATGTGTTTGATAAGCACTACATCAACCGCAACTTTGACCGCACTGGGC
AGATGTCTAGTGGTGATCAGCCCCGGGTGGGTGTCTTTGAAGTGACCGCCTACTCATGATCTCTGACCAAGCAGC
GGATGATAGATAATGGAATTGGTGTGGATTGGTGTGCATGGGAGAGCAACCGTTACATGCTGTCCATTGTTCA
AGCTCCATAATCGGAGTGCTCCCCGTGATTCTCGTCTGGGCGATGACTATAATATCCCTCACTGGATAAACCACA
GTTTCTACACATCCAAAAGCCAGCTCTTTGTAATAGTTTACCCACGAATAAACTGGCAGGAAAGAAGCCCCG
CCTCTGAGAAAGCAAAAATGGCCGTGATACATCTCTCGGGAGTCCAAAAGAATCTGAGAACGCCCTTCCCATCC
AAGTAGATTATGACGCCATGACGCTCAAGTGTTCAAGGTGCCCGGCCATCCCGGGCCAGTGCCCTACCCACCT
GCAGATCTGTGCGAGAGCGAGAGAGTACAGTCGAAAGAGTGCCAGCTCCTGTGATGTTTCATCCAGCCCTTCCC
TACCAAGCCGCACACTGCCCCTGAGGAAGTGAGGAGCCAGGCTTCTGACGACAGCTCCCTAGGCAAGAGTGCCA
ACATCCTGATGATCCACACCCCCACCTGCACCAGTATGAAGTCAGCAGCTCCTTGGGATACACCAGCACTCGAG
ATGTCCTGGAGAACATGATGGAGCCACCACAGCGAGACTCCAGTGCAACAGGGAGGTTTCACGTTGGCAGTGCGAG
AATCCATGCTGCATGTTTCGACCTGGTGGATACAGCCCCAGAGAGCACTGATTAACCCCTTCGCTCCCTCTCGGA
TGCCCATGAAGCTTACGTCCAACAGAAGGCGCTGGATGCACACTTTTCTGTGGGGCCATCCGGAGAAGCCATCC
AGATCCACCACCAGACCCGACAGAATATGGCGGAGCTACAAGGCAGCGGGCAGAGGGATCCAACTCACTCCTCTG
CAGAGCTGCTGGAGTTAGCATATCATGAAGCTGCTGGAAGGCACAGCAATTCGCCAGCCTGGTGACGGCATGT
CCTTCTTGAACTTCAGTGGAAACAGAGGAGCTTTCTGTGCGCCTGCTTAGCAACAGTGGTGAGGTATGAATCCTA
GGACCCAGAATAAGGATTCTCTAGAGGACAGTGTCTTCACTCTCCAGACCCAATGCCAGGCTTCTGTTGCACAG
TTGGAGTGGACTGGAAGTCTCTCACTACTCCGGCGTGCTTCCCCCTTACCACCGACTACTTCCCTGACCGCCAGG
GCCTGCAGAATGACTACACAGAGGCTGTTATGATCTCCTCCAGAAGCAGACATCGACAGGAGGACGAAGATG
GTGTGCAGATGACAGCCAGCAGGTATTTGAAGAGTTTATTTGCCAACGTCTCATGCAAGGGCTACCAATCATAG
TGCAGCCCAAGACACAGAAACCCAATCCTGCTGTCCCGCCCCGCTGAGCAGTAGCCCACTCTATAGCCGAGGCC
TTGTGTCCCGAAACCGCCCTGAGGAGGAGGACCAGTATTGGCTGAGTATGGGCAGAACGTTCCACAAAGTGACGC
TGAAGGATAAGATGATCACAGTGACGCGATACCTTCCCAAGTATCCTTATGAATCTGCCAGATCCACTACACCT
ACAGCCTCTGTCTTCCCACTCAGACTCAGAGTTCGTCTCCTGCTGGGTGGAATTCTCCACGAACGGCTGGAGG
AGTACAAGTGGAAATTACTTAGATCAGTATATCTGTTCTGCCGGCTCTGAAGACTTCAGCTTAATTGAGTCCCTGA
AGTTCTGGAGGACCCGCTTCTGCTGCTGCCAGCCTGTGTACCGCCACCAAGCGCATCACGGAGGGGGAGGCC
ACTGCGACATCTATGGGGACAGCCCCGTGACAGCAGGACGAGTGGCAACTCCTGGATGGTTTTGTCCGCTTTG
TGGAGGGCTTGAATCGCATTCCGAGGCGGCATCGCTCGATCGCATGATGCGGAAAGGGACCGCCATGAAAGGCT
TGCAGATGACTGGGCCATTTCACGCATTCTCTGGAGTCAACTGCACCCCACTGGGGGAAGAAGGGAACCTCAG
CTCTCTCTGCCCTGTTGGAGATGGAGGCCAGTCAGAAGTGCTGGGAGAACAGCAGGCAGCTGTGCATGGTGGGA
AGAGCTCCGCCCAGTCAGCCGAGAGCAGCAGCGTTGCCATGACTCCCACCTACATGGACAGCCCACGAAAGGTAT
CTGTGGACCAAACAGCCACTCCTATGTTGGACGGCACCAGTTTGGGCATATGCACAGGCCAATCCATGGACAGAG
GCAACAGCCAGACCTTTGGGAACTCCAGAACATAGGAGAACAGGGCTACTCCTCCACAACTCCAGTGACAGCA
GCTCTCAGCAGCTGGTGGCAAGCTCCTTGACCTCATCTCTACCCTGACAGAGATCCTGGAAGCCATGAAGCACC
CCTCGACAGGAGTCCAGCTGCTCTCTGAACAGAAGGGCCTCTCACCCTACTGCTTCATCAGCGCGGAGGTGGTAC

[illegible]

3365/5332
FIGURE 2941

GCGCGAGCCACAGCGCGCGGGGCGAGCCAGCGAGAGGGCGCGAGCGGGCGCTGCCTGCAGCCTGCAGCCTGCA
GCCTCCGGCCCGCCGGCGAGCCAGTGC CGCTGCGCGGGCGGGCGGCCTCCGCAGCGACCGGGGAGCGGACTGACCGG
CGGGAGGGCTAGCGAGCCAGCGGTGTGAGGCGCGAGGCGAGGCCGAGCCGCGAGCGACATGGGGGACCGGGAGCA
GCTGCTGCAGCGGGCGCGGCTGGCCGAGCAGGCGGAGCGCTACGACGACATGGCCTCCGCTATGAAGCGGTGAC
AGAGCTGAATGAACCTCTCTCCAATGAAGATCGAAATCTCCTCTCTGTGGCCTACAAGAATGTGGTTGGTGCCAG
GCGATCTTCTGGAGGGTCATTAGCAGCATTGAGCAGAAAACCATGGCTGATGGAAACGAAAAGAAATTGGAGAA
AGTTAAAGCTTACCGGGAGAAGATTGAGAAGGAGCTGGAGACAGTTTGAATGATGTCTGTCTGCTTGGACAA
GTTCTGATCAAGAACTGCAATGATTTCCAGTATGAGAGCAAGGTGTTTTACCTGAAAATGAAGGGTGATTACTA
CCGCTACTTAGCAGAGGTGCTTCTG GGGAGAAGAAAAACAGTGTGGTCGAAGCTTCTGAAGCTGCCTACAAGGA
AGCCTTTGAAATCAGCAAAGAGCAGATGCAACCCACGCATCCCATCCGGCTGGGCCTGGCCCTCAACTTCTCCGT
GTTCTACTATGAGATCCAGAATGCACCTGAGCAAGCCTGCCTCTTAGCCAAACAAGCCTTCGATGATGCCATAGC
TGAGCTGGACACACTAAACGAGGATTCTTATAAGGACTCCACGCTGATCATGCAGTTGCTGCGAGACAACCTCAC
CCTCTGGACGAGCGACCAGCAGGATGAAGAAGCAGGAGAAGGCAACTGAAGATCCTTCAGGTCCCCTGGCCCTTC
CTTCACCCACCACCCCATCATCACCGATTCTTCCTTGCCACAATCACTAAATATCTAGTGCTAAACCTATCTGT
ATTGGCAGCACAGCTACTCAGATCTGCACTCCTGTCTCTTGGAAGCAGTTTCAGATAAATCATGGGCATTGCTG
GACTGATGGTTGCTTTGAGCCACAGGAGCTCCCTTTTTGAATTGTGTGGAGAAGTGTGTTCTGATGAGGCATTT
TACTATGCCTGTTGATCTATGGGAAATCTAGGCGAAAGTAATGGGGAAGATTAGAAAGAATTAGCCAACCAGGCT
ACAGTTGATATTTAAAAGATCCATTTAAAACAAGCTGATAGTGTTCGTTAAGCAGTACATCTTGTGCATGCAAA
AATGAATTCACCCCTCCACCTCTTTCTTCAATTAATGAAAACCTGTTAAGGGAAGCTGATACAGAGAGACAACT
TGCTCCTTTCCATCAGCTTTATAATAAACTGTTTAACGTGAGGTTTCAGTAGCTCCTTGGTTTTGCCTCTTTAAA
TTATGACGTGCACAAACCTTCTTTTCAATGCAATGCATCTGAAAGTTTGTACTTGTAACTTTTTTTTTTTTT
GGTTGCAATTGTTAAGAATCATGGATTTATTTTTGTAACCTTTGGCTATTGTCCTTGTGTATCCTGACAGCG
CCATGTGTGTGACCCATGTCAATCAAGATGGGTGATTATGAAATGCCAGACTTCTAAAATAAATGTTTTGGAAT
TCAATGGGTAAATAAATGC

3366/5332
FIGURE 2942

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTGAGAGAGGCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGAGAGAAAAGGAGAGACAATTATGTTTCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

3367/5332
FIGURE 2943

ATGGCGGGCCATCACCGGCAGAACACAGCAGGGCGGAGGAAAGTGCAGGTTTCCTATGTTATTTCGAGATGAAGTG
GAGAAGTACAACCGAAATGGAGTCAATGCTCTGCAGCTGGATCCAGCACTAAATAGACTTTTCACAGCCGGTCGA
GACTCTATCATAAGAATATGGAGTGTCAATCAGCACAAAGCAAGATCCATATATAGCATCTATGGAACACCATACT
GATTGGGTAAACGACATTGTACTCTGTTGTAATGGGAAAAACATTAATATCTGCTTCTTCTGACACGACAGTAAAA
GTATGGAATGCACACAAGGGATTTTGCATGTCAACATTAAGGACACATAAGGATTACGTAAAGGCCTTAGCATAT
GCCAAGGATAAAGAAGCTAGTAGCATCAGCTGGGTGGACAGACAAATATTCCTTTGGGATGTGAATACTCTAACA
GCATTGACTGCCTCAAATAACACTGTCACAACCTTCTTCTTAAGTGGAAACAAAGATTCCATTTATAGCCTGGCC
ATGAATCAACTGGGAACAATCATTGTATCAGGGTCCACTGAAAAGGTGTTACGGGTATGGGATCCAAGAACATGT
GCAAAACTAATGAAGCTTAAAGGGCACACGGATAATGTGAAGGCATTGCTATTAACAGAGATGGCAGCAATGC
CTGTCAGGCAGTTCTGATGGGACAATTCGCCCTTTGGTCCCTTGGCCAGCAGAGATGTATAGCAACATACCGAGTC
CATGATGAAGGTGTTTGGGCGCTGCAAGTCAATGATGCCTTCACACATGTGTATTCTGGTGGAAAGGGACAGGAAG
ATTTATTGTACAGACCTAAGAAAACCTGACATTCGGGTGCTAATTTGTGAAGAAAAAGCACCAGTTCTCAAGATG
GAGCTTGATAGATCAGCTGATCCTCCTCCTGCAATTTGGGTTGCAACAACCTAAGTCTACAGTAAATAAATGGACT
TTGAAAGGAATTCATAATTTTAGAGCCTCTGGAGATTATGACAATGACTGTACAAATCCTATAACACCTCTTTGT
ACACAACCTGACCAGGTTATTAAAGGGGGTGCTAGTATTATTAGTCCACATTCTTAATGATAAGAGACATATA
TTAACCAAAGATACCAATAATAATGTGGCATATTGGGATGTATTGAAGGCATGTAAAGTTGAAGATCTGGGCAAA
GTGGATTTTGAAGATGAAATTAAGAAAAGATTTAAATGGTGTATGTGCCAAATTGGTTCTCAGTAGACTTAAAA
ACAGGGATGTTAACTATTACTTTGGATGAAAGTGATTGTTTTGCTGCCTGGGTTTCTGCAAAAGATGCTGGTTTC
AGCAGCCCTGATGGGTGAGATCCAAAATGTGAATTTAGGAGGACTTTTACTCCAAGCACTCCTGGAATATTGGCC
TAGAACACATGTGAATCCAATGGATGAAGAGGAAAAATGAAGTAAACCATGTAAATGGGGAGCAGGAGAACCGAGT
GCAGAAGGGAAATGGATATTTTCAAGTGCCCCCACAACACCCGTGATCTTTGGTGAAGCTGGAGGTCCGACACT
GTTTCAAGCTGCTCTGCCGAGATTCCGGGGGTGAGACTGAGTCTATGCTTCTTAATGAAACAGTGCCACAATGGGT
AATTGACATCACTGTGGATAAAAAATATGCCCAAATTCACAAAATTCCTTTCTACCTCCAACCTCATGCATCTTC
AGGAGCAAAAACCTTAAAAAAGATAGACTCTCTGCTAGTGACATGCTCCAAGTCCGAAAAGTTATGGAACATGT
TTATGAAAAAATTATCAACTTGGATAATGAGTCTCAAACCACTAGCTCTTCTAATAATGAAAAACCAGGAGAACA
GGAAAAAGAAGAAGATATTGCTGTGTTGGCAGAGGAGAAAATTGAACTTTGTGCCAGGACCAGGTTTGGATCC
AAATATGGACCTTCGAACAGTGAAACACTTCATATGGAAGAGCGGTGGAGACCTCACCTCCATTACCGTCAGAA
GTCCACGTGA

3368/5332
FIGURE 2944

GTCAAAGCAGCACCAGCTCTGATCGACCCCTGTATTTGATGGCTCAGGTCAGGTATTACTCAGAGCTAGAGAAT
GCCCAGAGCATCCTGCAGCGTTGCCTGGAGCTGGACCCCGCCTCCGTGGATGCCATCTCCTCATGTGTGAGATC
TACTTGGCTCAGGGCAACTTTGGCATGTGCTTCCACTGCTTAGAGCTGGGTGTCAGCCACAACCTCCAGGTCCGA
GATCACCCCTCTACCACCTCATCAAGGCCAGGGCCCTCAACAAGGCTGGAGACTATCCAGAGGCCATAAAGACG
CTGAAAATGGTCATCAAATTGCCAGCTCTGAAGAAGGAAGAAGGCAGAAAGTTCCCTCAGGCCCTCTGTGCAGCCT
AGCCAGCGGGCATCCATCTTATTGGAAGTGGTGGAGGCCCTCCGGCTGAATGGGGAGCTACATGAGGCCACCAAG
GTCATGCAGGACACCATCAATGAGTTCGGTGGCACACCAGAAGAGAACCGCATCACCATTGCCAACGTGGACTTG
GTCCTGAGCAAGGGCAATGTGGACGTGGCGCTGAACATGCTAAGGAACATCTTGCCCAAGCAGTCCTGCTATATG
GAAGCCAGAGAGAAGATGGCCAACATCTACCTGCAGACCCTCAGAGACAGGCGCCTCTACATCAGATGCTACCGT
GAGCTCTGTGAACATCTGCCTGGCCCCCACACCAGCCTGCTACTGGGCGATGCCTTAATGAGCATTCTGGAGCCC
GAGAAGGCCCTGGAGGTCTATGATGAGGCCTATAGACAGAACCCACATGACGCCTCCCTGGCCAGCAGAATTGGG
CACGCTTATGTGAAGGCCACCAGTATACTGAGGTCAGGCTGGGCTAGGGTGTGAAGGGCAGGGAGGGCCAGCC
CAGCAGGGAAGGAGGAGGACGGTACATG

3369/5332
FIGURE 2945

CTACATGGAGAAGAAGGAGTTGGAGCAGCAGGGTGTGAGCACCGCCGAGAACTGCTGCGTGAGTTTTACCCACA
TTCAGACTCCAGCCAGACCCAGCTGCGGCTGCTGCAGGGCCTCTGCCGGCTGGCCACCAGGGAGAAGGCTAACAT
GGAGGCTGCGCTGGGCAGCTTCATCCAGATAGCGCAGGCTGAGAAGGACAGCGTCCCTGCCCTGCTGGCCTTGGC
ACAAGCCTACGTGTTCTGAAGCAGATCCCCAAGGCGCGTATGCAGTTGAAGCGCCTGGCCAAGACCCCCTGGGT
GCTGAGTGAGGCTGAGGACCTGGAGAAGAGCTGGCTCCTGCTGGCTGACATTTACTGCCAGGGCAGCAAGTTCGA
CCTCGCCTTAGAACTGCTGCGGGCGCTGTGTGCAATACAACAAGTCCTGCTACAAGGCCTATGAGTACATGGGCTT
CATCATGGAGAAGGAGCAGTCCTACAAGGATGCAGTCACCAACTACAACTGGCCTGGAAGTACAGTCATCACGC
CAACCCTGCCATTGGCTTCAAACCTTGCTTTCAACTACCTGAAGGACAAGAAATTTGTGGAGGCCATCGAAATCTG
CAACGATGTCCTCAGGGAGCACCCCGACTACCCCAAGATCAGGGAGGAAATTTTGAAAAGGCCCGAAAGTCCCT
GAGGCCCTAGCTGGGGTCAAGGGGCTGGACCAAGTAGAAGCCATCAACCTACTGAAGTTGTGTGGAGGGATGGAA
AGTGGGTCAGTGGAGAAGGGATTGAGA

3370/5332
FIGURE 2946

GGCGGGGCTGGGCGCAGGCAGTCTCCCGCCGCCGCCGCTGCCGGACGCGCAGAGCGAGGGGCGGCTGGACCG
ACGGCTGCCGGGCGGAGCGCACAGAGTCGCGGCGCAGGGGGCGTCCCGGCCGGGACGCGGGTCGCGTCTGTTGTC
CTCCGCGAGCGTCCGGATTGCAGGCTGTCTGTCCCCAGACCCAGAGCACGTCCGGCACCACCATGACTGGGCTG
TTGAAGAGGAAATTTGACCAGCTGGATGAGGACAACTCCTCGGTCTCCTCCTCCTCCTCCTCCTGCGGTGCCAG
TCTCGCTCCTGCTCCCCAAGCTCTTCTGTCTCCCGTGCCTGGGACTCAGAGGAGGAAGGCCCTGGGATCAGATG
CCCCTGCCTGACCGTGACTTCTGCGGCCCCAGAAGTTTACCCCCCTGTCTATCCTGAAGCGGGCTCGCCGGGAG
CGCCAGGCCGTGTAGCCTTTGATGGGATCACCGTCTTCTACTTCCCCCGCTGCCAGGGCTTCACCAAGTGTGCCC
AGCCGTGGTGGCTGTACTCTGGGTATGGCCCTTCGCCACAGTGTGCGCTCGCTTCTCTTTGGCTGAGTTTGGC
CAGGAGCAAGCCCGTGCACGGCACGAGAAGCTCCGCCAGCGCTTGAAGAGGAGAAGTTGGAGATGCTGCAGTGG
AAGCTTTCGGCAGCTGGGGTACCCAGGCAGAGGCAGGGCTGCCACCTGTGGTGGATGCCATTGATGACGCCCTCT
GTGGAGGAGGACTTGGCAGTCGCTGTGGCAGGTGGCCGGTTGGAAGAAGTGAGCTTCTTACAGCCCTACCCAGCC
CGCGCAGCTCGAGCTCTGCTGAGGGCTTCAAGTGTGCGAAGGATCGATCGGGAGGAGAAGCGGGAGCTGCAGGCA
CTGCGCCAATCCCGGGAGGATTGTGGCTGTCACTGCGATAGGATCTGCGACCCTGAGACCTGCAGCTGCAGCCTG
GCAGGCATCAAGTGCCAGATGGACCACACAGCATTCCCCTGTGGCTGCTGCAGGGAGGGCTGTGAGAACCCCATG
GGCGTGTGGAATTTAATCAGGCAAGAGTTCAGACCCATTTCATCCACACACTACCCGCTGCAGTTGGAACAG
GAGGCTGAGAGCTTAGGGAGCTGGAGGCCCTGCCAGGGCAGCCACCCAGCCCTGGTGAGGAGGCCCTGGTC
CCTACTTTCCCACTGGCCAAGCCCCCATGAACAATGAGCTGGGAGACAACAGCTGCAGCAGCGACATGACTGAT
TCTTCTACAGCATCTTCATCAGCATCGGGCACTAGTGAGGCTCCTGACTGCCCCACCCACCCAGGCCTGCCTGGC
CCTGGCTTCCAGCCTGGCGTTGATGATGACAGCCTGGCAGCATCTTGAGTTTCACTGACTCTGACTTCGGTGGG
GAGGAGGAGGAAGAGGAGGAAGGGAGCGTGGGGAACCTGGACAACCTCAGCTGCTTCCATCCAGCTGACATCTTT
GGTACTAGTGACCCTGGTGGCCTGGCCAGCTGGACCCACAGCTATCTGGCTGTAGCTTACATCAGGCGTCCTG
GATGAGAATGCCAACCTGGATGCCAGCTGCTTCTAAATGGTGGCCTTGAAGGGTCAAGGGAAGGCAGCCTTCCT
GGCACCTCAGTGCCACCCAGCATGGACGCTGGCCGGAGTAGCTCAGTGGATCTCAGCTTGTCTTCTTGTGACTCC
TTTGAGTTACTCCAGGCTCTGCCAGATTATAGTCTGGGGCCTCACTACACATCACAGAAGGTGTCTGACAGCCTG
GACAACATCGAGGCACCTCACTTCCCCCTGCCTGGCCTGTCTCCACCTGGGGATGCCAGCAGTTGCTTCTTGGAG
TCCCTCATGGGCTTCTCCGAGCCAGCCGCCGAAGCCCTAGATCCCTTTATTGACAGCCAGTTTGAGGACACTGTC
CCAGCATCTTAATGGAGCCTGTGCCGGTGTGAGGACCAGGATGTCTTTCCAGCCCCAAGAGACCTGTTGCTG
CTTTCTTGTAATTATGGGGCTCCCCAGAGTCTGCGTAACAGTCTCCCACTGGCTGGCTCACCACAGGTGCCATG
TGCACACTCCTGGTTTTTCAAACAATTCTCTGGATTTATTTATTTGTTTTAACTTTTCTGTGCTGAAGAGAGGACT
GGGGGGAGGGGCTTCCCTTTTCACTGCCCCGGCCCCCACACCCACAGCTTGTCTTCTATCTCCACAACGTGA
GCCTGGAAGAGGAGAAAAATGTGGCTCCTCTGGAGCTTGGCAGACCCTTTTCGGTCTTTCGCTGATGTTCTTAG
CCCAAAGACCGTGAGACAGGGCTGAAATCAGGTGGCTTCTGCCACCCTGAGCCCTAGACCCATGGGTGGCTAAAT
CCACTGGACTGTGAAGACTATAATTTATTTCCATAATTTATTTGGAGATTGAGGAGGCTTTGGTTGCACTTCTTT
GGCTGGTGGGTAATGCCAGGGGTGGGGTGGGCACAGGCCCTCAAGAGCCCTTTTGCCTTGTAGTCTTACACCTT
GCCCTGCCTGGGCTTTGGTGCAGACTAGGTGTGGATTTGAGCTCTGTGATCTATGTCTGCTGCCTGGCTCCTAGA
TGGCTCTGTGGCAGGTGCTGGCCAAGGACATCATCTAGGCAGGGGGAGAGCCTGGGCTGAACAGCTGTGACCAA
AACTCCCTTCTGCCCCACCCTGCCCCCTCCACTTCTGCCCTCTGTTCCATCTTCCCCCTTCCCAAAGGCCACAG
CCTTTATTCCAGGCCCAGGGATGTAGGAGGGGGAAGGAGGAAACAGGAAGCCCAGAGAGGGCAAAGGGCCTACCT
CGGGGCGCGAACCATGCCCCAGACTATTATCTCAGGGCTTTCTGGGCACTGCACTTCAGCGTGGCCACCTGCCC
ATGCCCTGAGGCCAGTTGGCGAGGGGTGGCTCCTGAGGGTTTTTATACCCTTTGTTTGCTAATGTTTAAATTTG
ATCATAATTTCTACATTGTCCCTGAGTGTGAGAACTATAATTTATTCATTTCTCTGTGTCTGTGCCAAGAAA
CGCAGGCTCTGGGCTGCCCCCTGCCCAGGAGGCTTGGCAGCCTGTGTGCTTGTGGGAACACCTTGTACCTGAG
CTTACAGGTACCAATAAAGAGGCTTTATTTT

3371/5332
FIGURE 2947

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTACCATTGGATCAGTTCCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTGTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTACCCGACATTACCTCCTG
AACCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACCTACCGCCTTCTTCTTCATCGGCTTTTTTGGGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTCATGTTTCAAAAGCAGAAA
GAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAAACAAAT
TTTCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTCTCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCACTGTTTCTCTCTCTGACACCCC
TACAACGTTATGATTTTCTGAGAGCGTTAAGCTCTATGACTTCTTCCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCAATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTCTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTGTGTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCTTAGAGTGTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATGAACCTCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAAATGTCATCAGAACTTTTGGTTTGAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTGACTCTCAAATCTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGCAAA
ATTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGG
AAGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGAT
GGGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCCTTACCATGTGCCTGATCCAGCCTCTCCC
CTGATTACACCAGCCTCGTCTTCAATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCT
ACTGCATCGAGTCAAAACTCAAATGCTTGGCTTCTCATACTGTCACCATGGGGTCTACCAATAGATTCCCCATT
GCCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTG
CTCCCAGGCCAGTAAGGGAAATAGAAAAACCTTGCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGT
AGCTTGGGACAAATCAAGCTTCAGTTTCTGTTGCTGTAGAAAGAGGGATAAGGTACCTTTCACATAGAGATCATCC
TTTCCAGCATGAGGAACTAGCCACCAACTCTTGAGGTCTCAACCCCTTTTGTCTGCCTCTTAGACTTCTGCTTTC
CACACCTGGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTGACAAAGCTTGAAGAGCCTGCAGGTGCTGTGCG
TGGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCCTCCAGTCACCTTGTGGCAAGCCCCTGCCCA
TCTGGGAAAATACCCCATCATTCATGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCC
CCCTAGAAACGTTTGAACAATCTAAAGTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATC
CAATCTAACCACATCAATATTGTCAATTCCTGTATTACCCGTCCAGACCTTGTTCACACTCTCAGATGTTTAGAG
TTGCAATCGTAATGTACAGATGGTTTATAATCTGATTGTTTTCTCTTAACGTTAGACCACAAATAGTGCTCG
CTTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTATTGAAGTCAGATGTGGTA
ACTGTTAAATGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCAT
GTTCCCTTCAAGATCATGTACCCCAATTTACTTGCATTACTCAATTGATAAACATTTAACTTGTTCATGTTT
AGCAAATACATATTTTATAGAACTTC

3372/5332
FIGURE 2948

ATTGCCACATGGTCCACATTGCATGCAAGATTGCTGAGCTGAAGGAAAAGATTGATTGCCGTTCTGGTAAAAAGC
CAGAAGATTGCCCTAAATTCTTGAAGTCTGATGATGCTGCCATCATTGACATGGTTCCTGGCAAGCCCATGTGTG
TTGAGAGCTTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAA
TGCATCATAAAACCTTCAGATGGAAAGGAGAATGTTTGTGGACCACTTTGGTTTTCTTTTTTGCATCTGGCAGT
TTTAAGTTATTAGTTTTTAAATCAGTACTTTTAAATGGAA

3373/5332
FIGURE 2949

GAAGCGAAATCTCCCCCTTCTACAGAGTTCTCTCCGGCGCTTCTCCACCCCGGGATACACAGAACCTCATCTCCTA
CGGTGCTGAAGCCTGCAGCAGGGCAGGATGGGCAGGAGAGCAGAGCCGCGGAGTCTGCGGCGCGGGTGAAGAGCG
GCGCGTAATTCCCGCAGCAAGATTGTTCCGCGCCCGCAGCCCTGGACTAGCAGGATCCGAACCCCGGCGGCTGC
GTGCTTATAGGCGCAGACGTCAGAGAGCCCGCGGCTTAAAGCGCGTGCCTGGCTAGCGCCACCCCTAGCCTTC
TTCAAGGCCCTCCAGGGCTGGGCCCCAAGCGCCCGTGCAGCGCACCTGGGCCCAGAGGACTCGCGGGCCTCATCTC
CAATGATTCAGAACTCACGTCCGTCGCTGCTGCAACCCCAAGATGTGCGAGACACGGTGGAAACGCTTATGTTAC
ATCCGGTGATCAAGGCTTTCTGTGTGGCTCCATCAGTGGGACCTGCTCTACCCCTCCTTTTCCAACCTCTGGATC
TCCTTAAACACGCCTGCAAACCTCCAGCCCTCAGATCATGGGTCTAGACGTGTTGGGATGTTGGCTGTACTCT
TGAAGGTGGTTCGCACGGAGAGTCTTTTGGGCCTTTGGAAAGGGATGTCCCTTCCATTGTGAGATGTGTCCTG
GCGTTGGAATCTACTTTGGCACTCTCTACTCTTTGAAGCAGTATTTCTTGGCAGGCCATCCCCAACCGCCCTGG
AGTCAGTCATGCTGGGGGTGGGCTCTCGCTCTGTTGCAGGGGTCTGTATGTCACCTATCACTGTAATCAAGACGC
GCTATGAGAGTGGGAAATATGGCTATGAGAGTATCTACGCTGCCCTGAGGAGCATCTATCACAGTGAGGGGCACC
GGGGCCTCTTCAGTGGCCTGACAGCAACTCTCCTTCGAGATGCGCCCTTCTCAGGAATCTACCTGATGTTTTACA
ACCAGACCAAAAATATAGTGCCTCATGACCAGGTGGATGCAACCCCTTATTCTATTACAAATTTAGCTGTGGGA
TATTTGCTGGTATTCTGGCCTCACTGGTAACCTCAACCTGCGGATGTTATCAAACTCATATGCAGCTTTATCCAC
TGAAGTTTCAATGGATTGGCCAAGCAGTGACACTTATTTTCAAAGACTATGGACTACGTGGCTTCTTCCAAGGTG
GCATCCCCCGAGCCCTCCGCAGAACTCTAATGGCAGCAATGGCGTGGACGGTGTATGAAGAGATGATGGCCAAGA
TGGGCCTGAAGTCCTGACCAAGAGAGGACTGGGAACGGGTGAAATCTGTTGCCCTGCTTGGTTTTCTGCCAAGGGC
TGCTGCTTCTTACTATTCTGCAGTAAGATGAAGTCTACCTGGAAAACAGGCAGAAATTGTGTTGCCTTTGCCT
TCAGTAATCCCCTTAAGGAGAAAAATATATGGACCTGATTTACGCCTTCAGAACTCCAAAAGAGGAGTCATCAAT
TCATAGAGCACACTAGGGTGTTAGGAGAGAGCTTTGCATACTCTGAGAGGCTACTTGGAAAGGCATTTTCCCAGG
AGAGCTCTGTACAGGTGGCTGCGCTTCAGCCCCACCCCTACACCACAGGGTCTCCTTGGGTATGTTCTTGGGCAAG
CAATCACAAAGCCAGAGAAGCTGTAAGCTGCCTGCCGGGCTGAGGAGCTCCAACCAGGGAAGACTGGATGTGAG
GAGAGGAGTCAGTGTACCAGGTCACAGACTGACTGAGGTGATGGTAGGATGAGGAGGAACAGATGCCCTTCTTT
AATTGGTTCTCAGTTAACTTCTCAGAGGCTCTGGAGAACGGGACAGTGGCTTTCTAGCCTCTGAATGTTCCAAAT
AAAATTTTTTGGTCTTGGCCCTGTACTGTTTTACCTCTAAATTCTGGCATTTTTTTTTCCCTGCAATTAAAGTG
CTGTACTTTATTTATTGAACCTTATCATTGAAAGCTGTTTGAAAACCT

3374/5332
FIGURE 2950

GCCTGTCCTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGAA
ATTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACGACAGGA
ACCCACTTAGGTGGCACCCTTCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTAT
ATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCAATTGTTGCCATTGAAAACCTGCT
GATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACT
CCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTT
GTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTG
TGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGT
TTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTCCCGTGAACACCCATGGGAGGTC
ATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTG
ACCAAGGAGGAATTTCAAGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGAC
TGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTGAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCC
ACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCT
GTTCTTGATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

3375/5332
FIGURE 2951

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAACCATCAAACTATTCCACAGACGCCACATGAGC
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTTCGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT
CAAAGACTGGATTCTGGCCCAAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTCTGAATCA
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAAGGAGCCACCACAGAACGAGCTCGGCACCC
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC
AATCACCTTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGGAGCCATCATTAGGTCAGTGGAAAATGATATC
TTCTGGAGGTTGATACTGGCTTCACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA
GGCACCTGCCATCCACATCAAATCACAGAGCCATGCTTAAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTCATCATTCTCTCCTACACAACAAACCCT
GAACCTTTAGAAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTCAGCCGGCTTTCTCTACTTGTCTCTCAT
TCCATGATCACAGAAAACAGCTCCATTAAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA
TGTTTTCTTCGGCATTACTCAAAGTGCAGCTACACTCAGCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTTCTGTTGGAAC
CCTCAGGAGTGGAAGAAATTGTTCAAACCTGTGCTGCCAGAGACTCTTTCTTCCGATCAACCTGGAGCTCTAC
GCCTCCTACGTTTACCTGTCCATGCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATAC
TTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA
ATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT
GACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG
GGAGACAGTGATAACGAAAGCTTAA

3376/5332
FIGURE 2952

ATGCTGACCCCGGCGTTTCGACCTCAGCCAGGATCCGGACTTCCTGACTATCGCCATCCGCGTGCCCTACGCCCCG
GTCTCCGAGTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGTTCTACGCCAAGCCATACTTTCTCAGGCGAGTT
CGGGGAATTTTTACCATTTCGCCTGCCCCAAAGAAACCCCTGGCCAGCATTTTGAGGGGCTGAACATGTAACTGCT
CTTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGGAAGAAATAGGTGCTTCTGAGATTCTTGAGGAA
GTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCTGTGAAGAGGTATCAGAAAGTGCTTTGAAT
CCGCAGTGCCACTATGGATTGGAACCTTACGATCAGGAGTGTTGCAACGGTTACAGCTGCTGTTTATGGCAGCC
GTAACAAGTGGTTCAAACTGAGTGATCATGATGAACTGAGTGATGTTATTGATATTAAGGATCCAGATTTACC
CCTGCAGCTGAACGAAGACAGAAGCGCCTGGCCGCTGAGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGAC
TTTTTTGAAGATGAGGCGATTGAACAGATTTGAAGTATAATCCTTGGTGGACTGACAAATATCAAAAATGATG
GCCTTTTTGGAAAAGAGTCAGGAACAAGAAAATCATGCTACATTAGCGTGGGCTGTTGTCTGTTAACACCTCCT
CATCAGGTGTCGCCAGGCAGATACAACAGTGCACTGCCTCCCTATTCTGTGATCTTAAAAGTGACACCCTTGCC
ACAACCATAGCATTGCTCAGTACTCTCAACATAAACCAAGCTTAGATCGCAATGAACTGCGGACCTGCAGGCT
GCCTTGCTTCACTTGA

3377/5332
FIGURE 2953

ATGATCTTTAATTTTGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATTGAGGAATAC
ATACGACAACCTGCCTCCGAATTTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAACCCAGGAGTTTCCAAGCT
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG
CTCAAATCAGCTGTGCTTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTT
TCTGTTGGAAACCCTCAGGAGTGGAAGAAATTGTTCAAACCCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAAC
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACC
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG
GATGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAA
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAAATATCTCTTTGAC
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTAA

3378/5332
FIGURE 2954

AGTAGTTGCGCAGCTGGGGTTGGTAAGGTCGGGCCATGGTGGGGCAGAGGTTGGGAAGATGGCGTGGCGAGGCTG
GGCGCAGAGAGGCTGGGGCTGCGGCCAGGCGTGGGGTGCCTCGGTGGGCGGCCGCAGCTGCGAGGAGCTCACTGC
GGTCCTAACCCCGCCGCAGCTCCTCGGACGCAGGTTAACTTCTTTATTCAACAAAAATGCGGATTCAGAAAAGC
ACCCAGGAAGGTTGAACCTCGAAGATCAGACCCAGGGACAAGTGGTGAAGCATACAAGAGAAGTGCTTTGATTCC
TCCTGTGGAAGAAACAGTCTTTTATCCTTCTCCCTATCCTATAAGGAGTCTCATAAAACCTTTATTTTTTACTGT
TGGGTTTACAGGCTGTGCATTTGGATCAGCTGCTATTTGGCAATATGAATCACTGAAATCCAGGGTCCAGAGTTA
TTTTGATGGTATAAAAGCTGATTGGTTGGATAGCATAAGACCACAAAAAGAAGGAGACTTCAGAAAGGAGATTAA
CAAGTGGTGGAATAACCTAAGTGATGGCCAGCGGACTGTGACAGGTTTGTGTAGCTTACACGTTTTAACCATT
AAGGGAAGAGAAATCAAACCAAAGGTA

3379/5332
FIGURE 2955

ATGTCTAGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTA
GGTGGTACCAACCTTGACTTCCAAATGGACAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGA
GCCACTCAAATTGTTGGCCGCTTCACTCCTGGAACCTTCACTAGCCAGACCCAGGCAGCCTTCAGGGAGCCACGG
CTTCTAGTGGTTACTGATCCCAGGGCTGACCACCAGCCTCTCACAGAGACATCTTATGTTAACCTACCTACCATT
GCTCTATGTCACACAGATTTTCTCTGCGCTATGTGGACATTGCCATCACATGCAACAACAAGGGAGCTCCCTCA
GTGGGTCCGAGCTGGTGGATGCTGGCCCTGGAAGTTCTGCGCGTGTGTGGCACCATTTCCTTCGAACACCCATGG
GAGGTCATGCCGTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGGAAAAGAGGAGCAGGTTGCTGCTGAAAAG
ACTGTGACCAAGGAGGAATTCAGGGCAAATGGACTGCTCCAGCTCCTGAGTTCACCGCTATTGAGCCTGAGGTT
GGAGACTGGTCTGATGGTGTACAGGTGCCCTCTGTGCCTATTCATCAGGTCCCTACTGAAGACTGGAGTGCTCAG
CCTGCCACAGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGAAACAACCACTGAATGGTCT
TAA

3380/5332
FIGURE 2956A

GGCTCATGCTCGGGAGCGTGGTTGAGCGGCTGGCGCGGTTGTCTCTGGAGCAGGGGCGCAGGAATTCTGATGTGAA
ACTAACAGTCTGTGAGCCCTGGAACCTCCACTCAGAGAAGATGAAGGATATCGACATAGGAAAAGAGTATATCAT
CCCCAGTCTTGGGTATAGAAGTGTGAGGGAGAGAACCAGCACTTCTGGGACGCACAGAGACCGTGAAGATTCCAA
GTTTCAAGGAACTCGACCGTTGGAATGCCAAGATGCCCTTGAAACAGCAGCCCGAGCCGAGGGCCCTCTCTCTTGA
TGCTCCATGCATTCTCAGCTCAGAATCCTGGATGAGGAGCATCCCAAGGGAAAGTACCATCATGGCTTGAGTGC
TCTGAAGCCCATCCGGACTACTTCCAAACACCAGCACCCAGTGGACAATGCTGGGCTTTTTTCTGTATGACTTT
TTCGTGGCTTTCTTCTCTGGCCCGTGTGGCCACAGAAGGGGGAGCTCTCAATGGAAGACGTGTGGTCTCTGTCT
CAAGCACGAGTCTTCTGACGTGAAGTGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGGCC
AGACGCTGCTTCCCTGCGAAGGGTTGTGTGGATCTTCTGCCGACCAGGCTCATCCTGTCCATCGTGTGCCTGAT
GATCACGCAGCTGGCTGGCTTCAGTGGACCAGCCTTCATGGTGAACACCTCTTGGAGTATACCCAGGCAACAGA
GTCTAACCTGCAGTACAGCTTGTGTAGTGTCTGGGCTCCTCCTGACGGAAATCGTGGCGTCTTGGTCTGCTTGC
ACTGACTTGGGCATTGAATTACCGAACCAGGTGTCCGCTTGGGGGGGCCATCCTAACCATGGCATTTAAGAAGAT
CCTTAAGTTAAAGAACATTAAAGAGAAATCCCTGGGTGAGCTCATCAACATTTGCTCCAACGATGGGCAGAGAAT
GTTTGAAGGCAGCAGCCGTTGGCAGCCTGCTGGCTGGAGGACCCGTTGTTGCCATCTTAGGCATGATTTATAATGT
AATTATTCTGGGACCAACAGGCTTCTGGGATCAGCTGTTTTTATCCTCTTTTACCCAGCAATGATGTTTGCATC
ACGGCTCACAGCATATTTAGGAGAAAATGCGTGGCCGCCACGGATGAACGTGTCCAGAAGATGAATGAAGTTCT
TACTTACATTAAATTTATCAAAATGTATGCCTGGGTCAAGCATTCTCTCAGAGTGTTCAAAAAATCCGCGAGGA
GGAGCGTCGGATATTGGAAGAAAGCTGGGTACTTCCAGAGCATCACTGTGGGTGTGGCTCCCATTTGTTGGTGGT
TGCCAGCGTGGTGACCTTCTCTGTTTATATGACCTGGGCTTCGATCTGACAGCAGCACAGGCTTTCACAGTGGT
GACAGTCTTCAATTCATGACTTTTGTCTTGAAGTAACACCGTTTTTCACTAAAGTCCCTCTCAGAAGCCTCAGT
GGCTGTTGACAGATTTAAGAGTTTGTCTTCTAATGGAAGAGGTTTACATGATAAAGAACAAACCAGCCAGTCTCTCA
CATCAAGATAGAGATGAAAAATGCCACCTTGGCATGGGACTCCTCCCACTCCAGTATCCAGAATCGCCCCAAGCT
GACCCCCAAAATGAAAAAGACAAGAGGGCTTCCAGGGGCAAGAAAGAGAAGGTGAGGCAGCTGCAGCGCACTGA
GCATCAGGCGGTGCTGGCAGAGCAGAAAGGCCACCTCCTCCTGGACAGTGACGAGCGGCCAGTCCCGAAGAGGA
AGAAGGCAAGCACATCCACCTGGGCCACCTGCGCTTACAGAGGACACTGCACAGCATCGATCTGGAGATCCAAGA
GGGTAAACTGTTGGAATCTGTGGCAGTGTGGGAAGTGGAAAAACCTCTCTCATTTACGCCATTTTAGGCCAGAT
GACGCTTCTAGAGGGCAGCATGCAATCAGTGAACCTTCGCTTATGTGGCCAGCAGGCTTGGATCCTCAATGC
TACTCTGAGAGACAACATCCTGTTTGGGAAGGAATATGATGAAGAAAGATACAACCTCTGTGCTGAACAGTGTCTG
CCTGAGGCCTGACCTGGCCATTCTTCCAGCAGCGACCTGACGGAGATTGGAGAGCGAGGACCACTGAGCGG
TGGGCAGCGCCAGAGGATCAGCCTTGGCCGGGCTTGTATAGTGACAGGAGCATCTACATCCTGGACGACCCCT
CAGTGCCTTAGATGCCCATGTGGGCAACCACATCTTCAATAGTGCTATCCGGAACATCTCAAGTCCAAGACAGT
TCTGTTTGTACCCACCAGTTACAGTACCTGGTTGACTGTGATGAAGTATCTTCATGAAAGAGGGCTGTATTAC
GGAAAGAGGCACCCATGAGGAATGATGAATTTAAATGGTGAATGCTATGCTACCATTTTTTAATAACCTGTTGCTGGG
AGAGACACCGCCAGTTGAGATCAATTTAAAAAAGGAAACAGTGGTTACAGAAGAAGTCACAAGACAAGGGTCC
TAAACAGGATCAGTAAAGAAGGAAAAAGCAGTAAAGCCAGAGGAAGGCGAGCTTGTGCAGCTGGAAGAGAAAGG
GCAGGGTTCAGTGCCTTGGTCAATATGTTGTCTACATCCAGGCTGCTGGGGGCCCTTGGCATTCCTGTTTAT
TATGGCCCTTTTCATGCTGAATGTAGGCAGCACCGCCTTCAGCACCTGGTGGTTGAGTTACTGGATCAAGCAAGG
AAGCGGGAACACCACTGTGACTCGAGGGAACGAGACCTCGGTGAGTGACAGCATGAAGGACAATCCTCATATGCA
GTACTATGCCAGCATCTACGCCCTCTCCATGGCAGTCATGCTGATCTGAAAGCCATTTCGAGGAGTTGTCTTTGT
CAAGGGCAGCTGCGAGCTTCTCCCGGCTGCATGACGAGCTTTTCCGAAGGATCCTTCGAAGCCCTATGAAGTT
TTTTGACACGACCCCAACAGGGAGGATTCTCAACAGGTTTTTCCAAAGACATGGATGAAGTTGACGTGCGGCTGCC
GTTCCAGGCCGAGATGTTTATCCAGAACGTTATCCTGGTGTCTTCTGTGTGGGAATGATCGCAGGAGTCTTCCC
GTGGTTCCTTGTGGCAGTGGGGCCCTTGTCTATCCTCTTTTCACTCCTGCACATTGTCTCCAGGGTCTGATTCCG
GGAGCTGAAGCGTCTGGACAATATCACGCAGTCACCTTTCTCTCCACATCACGTCCAGCATACAGGGCCTTGC
CACCATCCACGCCTACAATAAAGGGCAGGAGTTTCTGCACAGATACCAGGAGCTGCTGGATGACAACCAAGCTCC
TTTTTTTTTGTGTACGTGTGCGATGCGGTGGCTGGCTGTGGCTGACCTCATCAGCATCGCCCTCATCACCAC
CACGGGGCTGATGATCGTTCTTATGCACGGGCAAGTCCCCAGCCTATGCGGGTCTCGCCATCTCTTATGCTGT
CCAGTTAACGGGGCTGTTCCAGTTTACGGTCAGACTGGCATCTGAGACAGAAGCTCGATTACCTCGGTGGAGAG

3381/5332
FIGURE 2956B

GATCAATCACTACATTAAGACTCTGTCCTTGGGAAGCACCTGCCAGAATTAAGAACAAGGCTCCCTCCCCTGACTG
GCCCCAGGAGGGGAGAGGTGACCTTTGAGAACGCAGAGATGAGGTACCGAGAAAACCTCCCTCTCGTCCCTAAAGAA
AGTATCCTTCACGATCAAACCTAAAGAGAAGATTGGCATTGTGGGGCGGACAGGATCAGGGAAGTCTCGCTGGG
GATGGCCCTCTCCGTCTGGTGGAGTTATCTGGAGGCTGCATCAAGATTGATGGAGTGAGAAATCAGTGATATTGG
CCTTGCCGACCTCCGAAGCAAACCTCTCTATCATTCTCAAGAGCCGGTGCTGTTTCACTGGGCACTGTCTAGATCAAA
TTTGGACCCCTTCAACCAGTACACTGAAGACCAGATTTGGGATGCCCTGGAGAGGACACACATGAAAGAATGTAT
TGCTCAGCTACCTCTGAAACTTGAATCTGAAGTGATGGAGAATGGGGATAACTTCTCAGTGGGGGAACGGCAGCT
CTTGTGCATAGCTAGAGCCCTGCTCCGCCACTGTAAGATTCTGATTTTAGATGAAGCCACAGCTGCCATGGACAC
AGAGACAGACTTATTGATTCAAGAGACCATCCGAGAAGCATTGTCAGACTGTACCATGCTGACCATTGCCCATCG
CCTGCACACGGTTCTAGGCTCCGATAGGATTATGGTGCTGGCCAGGGACAGGTGGTGGAGTTTGACACCCCATC
GGTCCTTCTGTCCAACGACAGTTCCTGATTCTATGCCATGTTTGCTGCTGCAGAGAACAAGGTGCTGTCAAGGG
CTGACTCCTCCCTGTTGACGAAGTCTCTTTCTTTAGAGCATTGCCATTCCCTGCCTGGGGCGGGCCCTCATCG
CGTCTCTCTACCGAAACCTTGCCCTTTCTCGATTTTATCTTTTCGCACAGCAGTTCCGGATTGGCTTGTGTGTTTCA
CTTTTAGGGAGAGTCATATTTTGATTATTGTATTTATTCATATTCATGTAAACAAAATTTAGTTTTTGTCTTA
ATTGCACTCTAAAAGGTTTCCGGGAACCGTTATTATAATTGTATCAGAGGCCTATAATGAAGCTTTATACGTGTAG
CTATATCTATATATAATTCTGTACATAGCCTATATTTACAGTGAAAATGTAAGCTGTTTATTTATATTAAATA
AGCACTGTGCTAATAACAGTGCATATTCCTTTCTATCATTTTTGTACAGTTTGCTGTACTAGAGATCTGGTTTTG
CTATTAGACTGTAGGAAGAGTAGCATTTCATTCTTCTCTAGCTGGTGGTTTCACGGTGCCAGGTTTTCTGGGTGT
CCAAAGGAAGACGTGTGGCAATAGTGGGCCCTCCGACAGCCCCCTCTGCCGCTCCACGCGCTCCAGGGGT
GGCTGGAGACGGGTGGGCGGCTGGAGACCATGCAGAGCGCCGTGAGTTCTCAGGGCTCCTGCCTTCTGTCTGGT
GTCACCTACTGTTTCTGTCTCAGGAGAGCAGCGGGGCGAAGCCCAGGCCCTTTTCACTCCCTCCATCAAGAATGGG
GATCACAGAGACATTCCTCCGAGCCGGGGAGTTTTCTTTCTGCTTCTTTCTTTTGTGTTTCTAAACAAGA
ATCAGTCTATCCACAGAGAGTCCCACTGCCTCAGGTTTCTATGGCTGGCCACTGCACAGAGCTCTCCAGCTCCAA
GACCTGTTGGTTCCAAGCCCTGGAGCCAACCTGCTGCTTTTTGAGGTGGCACTTTTTCACTTGCCTATTCCACAC
CTCCACAGTTCACTGGCAGGGCTCAGGATTTCTGTTGGTCTGTTTTCTTTCTCACCAGTCTGTCGCACAGTCTC
TCTCTCTCTCCCCCTCAAAGTCTGCAACTTTAAGCAGCTCTTGCTAATCAGTGTCTCACACTGGCGTAGAAGTT
TTTGTACTGTAAAGAGACCTACCTCAGGTTGCTGGTTGCTGTGTGGTTTGGTGTGTTCCCGCAAACCCCTTTGT
GCTGTGGGGCTGGTAGCTCAGGTGGGCGTGGTCACTGCTGTCAATGAATGGTCAGCGTTGCATGTCGTGAC
CAACTAGACATTCTGTTCGCTTAGCATGTTTGTGTAACACCTTGTGGAAGCAAAAATCTGAAAATGTGAATAAAA
TTATTTTGGATTTTGT

3382/5332
FIGURE 2957

TGCGTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGGCGGCCCTGTAGTGGCGCCGC
CTGGTGTGGTGGTTAGTCGGGCTAACAAAGCGCAGCGCGCGGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAG
GGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCA
TCTCCAAGGACCAGCCTCGGGTCTCTTGCCCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGA
CTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGTGCTGGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGT
CAAAGTGGTGCCGCCCTACATCTCTCAATGTGGTTCGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATG
TCCTCCGTGATGTTGATGCCAAGGCTTTGGTGCGCTCTGACTTTCTTCTGGTGTATGGGGATGTCATCTCAAACA
TCAATATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA
TCTTCAAGGAGTCATCCCCAGCCACCCAACCTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCA
CAAACAGGGTTCTCCATTTTCAAGAAGACCAGGGTCTCCGGCGTTTTGCATTTCTCTGAGCCTGTTTCAGGGCA
GTAGTGATGGAGTGGAGGTTTCGATATGATTTACTGGATTGTCTATATCAGCATCTGTTCTCCTCAGGTGGCACAAC
TCTTTACAGACAACCTTGACTACCAAACCTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG
GGAACCAGATCCACATGCACGTAACAGCTAAGGAATATGGTGCCCGTGTCTCCAACCTACACATGTACTCAGCTG
TCTGTGCTGACGTATCCGCCGATGGGTCTACCCTCTCACCCAGAGGGCGAACTTCACTGACAGCACCACCCAGA
GCTGCACTCATTCCCGGCACAACATCTACCGAGGGCTGAGGTGAGCCTGGGCCATGGCAGCATCCTAGAGGAAA
ATGTGCTCCTGGGCTCTGGCACTGTCAATTGGCAGCAATTGCTTTATCACCAACAGTGTCAATTGGCCCCGGCTGCC
ACATTGGTGATAACGTGGTGTGGACCAGACCTACCTGTGGCAGGGTGTTCGAGTGGCGGCTGGAGCACAGATCC
ATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGACACTGAAACCACGCTCTGTCTCTCACTTCCC
AGGTGGTCTGGGCCCCAAATATCACGCTGCCTGAGGGCTCGGTGATCTCTTTGCACCCCTCCAGATGCAGAGGAAG
ATGAAGATGATGGCGAGTTCAGTGATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA
ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGGAAGCTGCAGGCATGAACATGGAGGAAGAGGAGG
AACTGCAGCAGAATCTGTGGGGACTCAAGATCAACATGGAAGAAGAGAGTGAAGTGAAGTGAAGTGAAGTATGG
ATTCTGAGGAGCCGGACAGCCGGGGAGGCTCCCCTCAGATGGATGACATCAAAGTGTTCAGAATGAAGTTTATG
GAACACTACAGCGGGGCAAAGAGGAGAACATTTCTTGTGACAATCTCGTCTGGAATCAACTCTCTCAAGTATG
CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCTGAGTTCCCCCTGCAACAGATGG
ATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGTGCTTCTCTGCTAAAGGCCTGGAGCCCTGTTTTTAGGA
ACTACATAAAGCGCGCAGCCGACCATTTGGAAGCGTTAGCAGCCATTGAGGACTTCTTCTCTAGAGCATGAAGCTC
TTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT
GGTTCAGCCAAAGAGATACAACCTGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGCAGAGGTTTCATCCAGT
GGCTAAAAAGAGGCAGAAGAGGAGTCATCTGAAGATGACTGAAGTCACTGCCTGCTCCTTTGGGTGTGATTGAG
TGCCCTCCTGGCTCCTGGGCTGGGACAAGTGAGGAAGTACTGAGAGGGATGAGTGACCACCATCCAGGCTGAG
ACTGAAAGGAGCAGAGGCTGGAACCTACAGTATTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG
GAGTTGGGATGTGGAAGTGGGGCTGGAACAAAGCTTCTGCCTAGGGAGGAGCTAAGCAGGCCCCGGCAGTTGGAGG
AAGGCCAGAGGAACAGCTTTGTGCTCCGGCTTTCCCTCAGGGAACAGCAGAGAGCAGTTGGCTCTTTCTGCTGCT
TGTATATGTTAATATTAAAGAGAGTGGTGT

3383/5332
FIGURE 2958

GGAGCGTGGCGGCAAGATGGCTGTGCAAATTTCCAAGAAGAGGATGTTTGTCACTGATGACATCTTCAAAGCTGA
ACTGAATGAGTTTCTTACTCAGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGATGCAAGTTACACCAACCAG
GACAGAAATCATTATCTTAGCCACCAGAACACAGAAATATTCCTGGTGAGAAGGGCTGACGGATTCTGGGAACTGAC
TGCTATAGTTTCAGAAGAGGTTTGGCTTTCCAGAGGGCAGTGTAAGAGCTTTATGCTGAAAAGGTTGCCACTAGAGG
TCTGTGTGCCATTGCCCAGGCAGAGTCTCTGCGTTACAAACTCCTAGGAGGGCTTGCTGTGTGGAGGGCCTGCTA
TGGTGTGTGCGGTTTCATCATGAGAGTGGGGCCAAAGGCTGCAAGGTCATGGCGTCTGGGAAACTCCGAGGACA
GAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGACGATCCACAGTGGAGACCCTATTAATACTACTACGTTGGCAC
TGCTGTGTGCCACGTGTTGCTCAGACAGGGTGTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCAAC
TGGTAAGACTGGCCCTAAGAAGCCCCTGCCTGACCACGTGAGCATCGTGGAACCCAAAGATGAGATACTGCCCAC
CACCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCCATCTGCCATGCCCCAGCCAGTCCCTACAGCATTAACA
GGGTCTCCTTAGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTGTAAAGACCTTTAATAAAATCTCATACAAAGA
C

3384/5332
FIGURE 2959

TCCGGTCTTGTCCACGCTAGGGGGTGCACGTACTCCCAACTGTGGTCGCGCTCTCACCCCTTCTGCTGCTCTCGT
GGCCCCCTCGCGATGGCGGGCATCCTGTTTGAGGATATTTTCGATGTGAAGGATATTGACCCGGAGGGCAAGAAG
TTTGACCGAGTGTCTCGACTGCATTGTGAGAGTGAATCTTTCAAGATGGATCTAATCTTAGATGTAAACATTCAA
ATTTACCCCTGTAGACTTGGGTGACAAGTTTCGGTTGGTCATAGCTAGTACCTTGTATGAAGATGGTACCCTGGAT
GATGGTGAATACAACCCCACTGATGATAGGCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGTATGGAAAAGTG
TACAGGATTGAGGGAGATGAACTTCTACTGAAGCAGCAACACGCCTCTCTGCGTACGTGTCCTATGGGGGCCTG
CTCATGAGGCTGCAGGGGGATGCCAACACCTGCATGGATTGAGGTGGACTCCAGAGTTTATCTCCTGATGAAG
AAGCTAGCCTTCTGAACCTCGCCTGAAGCCAGCCTCTCTGCCAAGTCACTCAGGTCATGGGCATTGTTCAAGCCT
GAGTGGCAGCCGCTCTTGCTCACCTGTTGAGGAAGGGCTGGCTCACTGTCCACCGTGGCGGCATCTTTAACTGGC
CTCCACTCAATGGGAACTGACTCGCCTGTGAAAGACACAGTGGGAGAGCTGAAAATGAATCAGAAGCTTTATGT
ATATGATTTTTAAATTAACTTTACTTTTTCAGACTGCCCCCTCCCCTTTTGTAAAAAGTCCATTTACTGT

3385/5332
FIGURE 2960A

TTTATGTATTTATTTATTTGAGACGGAGTTTCGCTCTTGTTGCCAGGCTGGAATGCAATGGTGCGATCTCGGCT
CACCGCAGCCTCTGCCTCTGGGGTTCAAGCGATTATCCTGCCTCAGCCTCCAGAGTAGCTGGGATTACAGGCATG
CGCTGCCACGCCCCGCTGATTTTGTATTTTAGTAGAGGCGGGGTTTACCATGTTGGCCAGGCTGGTCTCCAAC
TCCCGACCTCAGGTGATCCGCCTGCTTCGGCCTCCCAAAATGCTGGGATTACAGGCGTGAGCCACTGCGCCCCGGC
CTGAGAAGGGGGTTTATTGGGCAGAGGAGATCAGCAGTGGATTCAAAGGAGGCTTGGAAGGAGGCAAGGGTGT
CACAGAGTGGGATCCTTCAGGGCCTGGGTATGATGCCTGCACTAACCTCACTGGACAGTAGCGTAGGCTAGACAA
GATTTTAGAGATGTGTTGTGACCAGCTGCACTCCAGGAAAACGTGTTACATTATATCTTACCTCATTTCATCCAGC
CTTTGCATTTTTGTGTTGCTTGTGTTTTGAGACAGAGTCTTTTTCTGTCGCCAGGCTGGAGTGAGTGGCACAATC
TTGGCTCAGTCAATCTCCGCCTCCTGGGTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATAACA
GGCACCCGCCACCATGCCCTGCCATTTTTAAATTATTTTAGTGAGATGGGGTTTACCATGTTGGCCTGGC
TGGTCTCAAACCTCTGACCTCAGATGATCTACCCACCTTGGCCCTTGGCCTCCCAAAGTGCTGGAATTACAGGC
GTGAGCCACCACGCTGGCCAGCCTATGCATTTTTTTTTTTTTTTTTTTTTTTTGGATGGAGTCTTGCACCGT
AGCCTAAGCTGGAGTGAGTGGTGCGATCTCGGCTCACCGCAACCTCCGCTCCCGGGTCTGGTTCAAGCAATT
TTCTTGCTCAGCCTCCTGAGTAGCTGGGATTACAGGAACGTGCCACCATGCCAGCTAATTTTTGTATTTTTAG
TAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACGTGACCTCATGATCCGCTCAGCTCGGCCTCC
CAAAGTGCTGGGATTACAGGCATGAGCCACTGACGCTGGCCAGCCTATGCATTTTTAAGAAATTATTCTGTATT
AGGTGCTGTGCTAAACATTGGGCACTACAGTGACAAAACAGACTGAATCCCCAAGAGCCAAAGACCAGTGAGG
GAGACCAACAAGAAACAGGAAATGCAAAAGAGACCATTATTACTACTATGACTAAGGGCCACAAATGGGGTACG
TTGATGGAGAGTGATTTGTTAAGAGACTACAGAGGGAGGACAGACTACCAAGAGGGGGCCAGGAAAGCTCCTCT
GACGAGGTGGTATTTAGCCCAAACCTGGAAGAATGAGAAAGAGCTAGCCAGCCATCAGAATAGTCCAGAAGAGAT
GGGGAGCACTACACTCACTACACTTTGGCCTGAGAAAATAGCATGGGATTGGAGGAGGCTGGGGGAACACCCTT
CTGCCGACCTGGGCAGGAGGCATTGAGGGCTTGAGAAAGGGCAATGGCAGTAGCAGTAGAAAGAACAGGGTAGGA
GCAGGGACTTTGCAGGTAGAATCATTAGGTCTTATCAACAGATATGGGCAAGCAAAGCCAGGGGAGAATTGATGG
TAATGCTGAGGTTTGGAGCCAGGCTAGATGGGACAGTGGTGGGTGATGCAAAGGAAAGAGGTGAGGAAGCAGGGC
CAGACGTGGGGAGAAGGTGTGGGGTTTGGTTTCCATCTTGCCGAGTCTGCCGGAATGTGGATGGGAAGACCAAG
AGGAGGACGAAGGGGCAGAGGGGAAGGGAATCTTAAAGAAGTCTGGATGCCACACTCTTCTTCTCTCCTCTCT
TCCCTCTCCTCAGAGGTCTACTCGTGGTTCTTTCATTTCTGCCCCTGCCTCCATCTCCTCTGGGTGCTGGGAAAG
TGGAGGATTAGCTGAAGTTTTGCTTCTCGGGGCTGTCTGAATCTCCATTGCTTTCTGGGAGGACATAATTACC
TGTCCTAGCTTCTTATCATCTTACATTTCCCTGTAGCCACTGGGACATATGTGGTGTTCCTTCCTAGCTCCTGTC
TCCTCCTCATGCCTTTGCTGGGTATGGGCATGTTAGGGGAAGGTCATTGCTGTGAGGGGCACTGACTTCTTA
ATGGTGTACCCAAGGTGAATGTTGGAGACACAGTCGCGATGCTGCCCAAGTCCCGCGAGCCCTAAGTATCCAG
GAGATCGCTGCGCTGGCCAGGTCTCCTGCTGATGGTATGCAGCCCCCTCCCATGTTTCTGGCCACTTTGTCTTTTC
TCCTCCCGTTTGACATCCCTTTGGAAGTGTTCCTGTGAGTACATGCTGGGGTCTCCCTTTCTTCCCTTGCTC
AGGTGAATCTCAGCCCTTCTCCACCCAAAGGTTACATGGATCCTAACTACTGCCACCTTCCACCTCCCTGC
ACCTGTGCTCCCTGGCCTGGTCTTTACCAGGCTTCTCCACCTCCCTATCTCCAGGTATTTCCAGGTGGTGA
AGGACCACGTGACCAAGCCTACCGCCATGGCCAGGGCCGAGTGGCTCACCTCATTGAGTGGAAGGGCTGGAGCA
AGCCGAGTGACTACCTGCTGCCCTGGAATCAGCCTTTTCTCCTATTAGACCTCAGCGAGGGCGAACAAGAGG
CTCGCTTTGAGCAGGTGGATGGCAGAAAGGGGATAAGCTACACTCTTGGCACAGGGCTGCTTTCTTTCTTTATT
TTATTTAAATTTTTTTTTTGGAGACGGAGTCTCACTCTGTCCCCAGGCTGGAGTGAGTGATGCAATCTCAGCTCAC
TGCAACCTCTGCCACCCAGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGTTGCCTGC
CACCGTGCTGGCTAATTTTTGTAGTTTTAGTAGAGATGGGGTTTACCCTTAGGCCAGGCTGGTCTTGAATC
CTGACCTAGTGATCCACCTGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCATAAGCCACCACCCGGCCAGG
GCTGCTTTCTTATCTCCTCGGTCTGACATGGGGTTGGAGTCTTCCATACCTGTTTCTCCTCTCCTGTCT
TCAAGCTGAGCCCTAGACTTAGCTCACCTTCTCTGCTTATGCATTCTGTCCCTGCGACAGGAGTGGCTGAGCAGT
TTGCCATCGCGGAAGCCAAGCTCCGAGCATGGTCTTCGTTGGATGGCGAGGACTCACTGATGACTCCTATGATG
AGGACTTTGCTGGGGGAATGGACACAGGTGAGGGACATCTGGGCTAGGGCTGTGGTGGACCCACCTGATAGACC
TTGGCATTCTTTAGAGCCACATCCAGAACACTCTCAGCCTTTGCAAGGGGAGGGAGAGGGACAGACTCAGTCCA
GGCAGGCCTGGACACTCCAGGGACAGGAAGGCTGTCCACACTCATGGGTGGGAAATGAGCAGACAGAAATGGATT

3386/5332
FIGURE 2960B

CGTTCCITTTCCACAGGTGCTGAGGCTTCTCTGCCTGTCTGCACAGTTGTGCCTTGCAGTCCTC

3387/5332
FIGURE 2961A

CAAGCGACACAAATGAACACGCCTTCTCAGCCCCGCCAGCACTTCTACCCTAGCCGGGCCAGCCCCGAGCAGT
GCAGCCTCCCGAGTGCAGAGTGCAGCCCTGCCCGCCCTGGCCAGCTGCCCATGTCTACCCTGCTGGATCCCAA
GTAATGATGATCCCTTCCAGATCTCTACCCAGCCTCCCAGGGGCCTACTACATCCCTGGACAGGGGCGTTCC
ACATACGTTGTCCCGACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCAAGCCCTACA
GAATTTGGGACCTACGCTGGCGCCTACTATCCAGCCCAAGGGGTGCAGCAGTTTCCCCTGGCGTGGCCCCCACC
CCAGTTTTGATGAACCAGCCACCCAGATTGCTCCCAAGAGGGAGCGTAAGACGATCCGAATTTCGAGATCCAAAC
CAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGGCCCGCACTGCCTCCACACCCACCCCTCCCCAGACG
GGAGGCGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCTGTTCATTGTCCGGCCAGATGACCGGTCA
CAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTGGCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTCTG
CCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAAACGGGGTCTGAGCCTAATCTCGCAGTCCCTCTCTATTCT
GGGGACACTATGACAATAACAAATGTCTGTAGAAGAATCAACCCCATCTCCCGTGAAACTGGGGAGCCATAT
CGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCATACTGGAAGTAGAAGTGACACTTAGCAAACGGTTCCA
GAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCACCCCTTTGGCATCTCACACAGTGGAATTCATGAGCCT
AATGGCATGGTCCCATCTGAAGATCTGGAACAGAGGTGGAGTCAAGCCAGAGCTTGCTCCTCCCCAGCTTGC
CCCTCCGAATCCCCTGTGCCATTGCTCCAACCTGCCAACCTGAGGAAGTCTCAACGGAGCCCCCTCGCCACCA
GCTGTGGACTTAAGCCCAGTCAGTGAGCCAGAGGAGCAGGCCAAGGAGGTGACAGCATCAATGGCGCCCCCACC
ATCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTACTTCCCAGCTCAGGAGGAGGAAATGGAAGAAGAAGAA
GAAGAGGAAGAAGGAGAAGCAGGAGAAGCAGGAGAAGCTGAGAGTGAGAAAGGAGGAGAGGAACTGCTCCCCCA
GAGAGTACCCTATTCCAGCCAACTTGTCTCAGAATTTGAGGCGAGCAGCAGCCACTCAAGTGGCAGTATCTGTG
CCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGAAGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAG
GCGAACC CGCAGTACCAGAGGTGGAATAACAGCCTCCTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGT
GGTGTGCCCCCAGTCTTGAGGAAGCAGATGAGACCTGGGACTCAAAGGAAGACAAAATTCAATGCTGAGAAC
ATCCAGCCCCGGGAACAGAGTATGAATATAAGTCAGATCAGTGGAAGCCTCTAAACCTAGAGGAGAAAAACGT
TACGACCGTGAGTTCTGCTTGGTTTTAGTTTCTTTGCCAGTATGCAGAAGCCAGAGGGATTGCCACATATC
AGTGACCTGGTGCTGGACAAGGCCAATAAAACACCACTGCGGCCACTGGATCCCCTAGACTACAAGGCATAAAT
TGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTGCCCGGCAACCCCTAGCACCCGTGGGCCCCCAAGGGGT
GGGCCAGGTGGGGAGCTGCCCCGTGGGCGGGCTGGCCTGGGACCCCGGCGCTCTCAGCAGGAGCCCCGAAAAGAA
CCACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAACCC
AGCAGCAAGCGGACGGCGGCTGATAAGGATCGAGGGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTC
CGCAGGGTGCGCTCCATCCTGAATAAACTGACACCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTG
GCCATCGACACCGAGGAACGCCTCAAAGGGGTCAATGACCTCATTTTTGAGAAGGCCATTTTCAAGCCCCAATT
TCTGTGGCCTATGCCAACATGTGCCGCTGCCTCATGGCGCTGAAAGTGCCCACTACGGAAGGCCAACAGTGA
GTGAACCTCCGAAAGCTGTTGTTGAATCGATGTCAGAAGGAGTTTGAGAAAGACAAAGATGATGATGAGGTTTTT
GAGAAGAAGCAAAAAGAGATGGATGAAGCTGCTACGGCAGAGGAACGAGGACGCCTGAAGGAAGAGCTGGAAGAG
GCTCGGGACATAGCCCGGCGGCTCTTTAGGGAAATCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTA
ACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGCTTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGT
CGTCTGCTCACCACCATTTGGCAAAGACCTGGACTTTGAAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAG
ATGGAATAATCATTAAAGAAAAGAAGACGTCATCCCGCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGA
GGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCAAGACCATTGACCAGATCCATAAGGAGGCTGAGATG
GAAGAATCGAGAGCACATCAAAGTGCAGCAGCTCATGGCCAAGGGCAGTGACAAGCGTCGGGGCGGTCTCCA
GGCCCTCCCATCAGCCGTGGACTTCCCCTTGTGGATGATGGTGGCTGGAACACAGTTCCCATCAGCAAAGGTAGC
CGCCCCATTGACACCTCAGACTCACCAAGATCACCAAGCCTGGCTCCATCGATTCTAACAACCAGCTCTTTGCA
CCTGGAGGGGCACTGAGCTGGGGCAAGGGCAGCAGCGGAGGCTCAGGAGCCAAGCCCTCAGACGCAGCATCAGAA
GCTGCTCGCCAGCTACTAGTACTTTGAATCGCTTCTCAGCCCTTCAACAAGCGGTACCCACAGAAAGCAGAT
AATAGACGTGTGGTGCAGAGGAGTAGCTTGAAGCGAGAACGAGGCGAGAAAGCTGGAGACCGGAGACCGCTTA
GAGCGGAGTGAACGGGAGGGGACCGTGGGGACCGGCTTGATCGTGCAGGACACCTGCTACCAAGCGGAGCTTC
AGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCAGCCTGAGGGGCTGCGCAAGGCAGCTAGCCTCACG
GAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTGCCCTACCCCAAGTGAAGCCCCCTGAAGGCGGCT

3388/5332
FIGURE 2961B

CTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTGAGGAATATCTCCATCTCAATGACATGAAAGTA
GGCAGTCCAGTGCGTGCAGGAGCTGGCCTCACCCCTCCTTGCTCTTCATCTTTGTACGGCATGGTGTGAGTCTAC
GCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGCTGCACCAGCTGCTCTGTGCTGGGCATCTGTC
TACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGGCTGAGGACATGGAAATTGACATCCCCACGT
GTGGCTCTACCTAGCGGAACCTGGTAACACCCATTCTGCAGGAAGGTGGGGTGCCCATGGGGGAGCTGTTTCAGGGA
GATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGTTGCTGGAGATCCTGGGCCTCCTGTGCAAAAG
CATGGGTCCTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTACCTGAAGGCCA
GGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCCTGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAG
GGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGCTGAAGGAGGGCAGCAGTAACCAGCGGGTGTT
CGACTGGATAGAGGCCAACCTGAGTGAGCAGCAGATAGTATCCAACACGTTAGTTCGAGCCCTCATGACGGCTGT
CTGCTATTCTGCAATTATTTTTGAGACTCCCCCTCCGAGTGGACGTTGCAGTGCTGAAAGCGCGAGCGAAGCTGCT
GCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCCCTCCAGGCCCTTGTTAGTGACCTTAGA
ACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTA
CAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTACAGCCTTCTT
CAAGTGGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAACCTGAGGGCTGGTGGGGCCGGGGACCTGGAGCCCCAT
GGACACACAGATGGCCCGCTAGCCGCCTGGACTGCAGGGGGGCGGCAGCAGCGGCGGTGGCAGTGGGTGCCTGT
AGTGTGATGTGTCTGAACATAATAAGTGGCTGAAGAGGCAGGATGGCTTGGGGCTGCCTGGGCCCCCTCCAGGA
TGCCGCCAGGTGTCCCTCTCCTCCCCCTGGGGCACAGAGATATATTATATATAAAGTCTTGAAATTTGGTGTGTC
TTGGGGTGGGAGGGGCACCAACGCCTGCCCTGGGGTCCTTTTTTTTTATTTTCTGAAAATCACTCTCGGGACTG
CCGTCTCGCTGCTGGGGGCATATGCCCCAGCCCTGTACCACCCCTGCTGTTGCCTGGGCAGGGGGAAGGGGGG
GCACGGTGCCTGTAATTATTAAACAT

3389/5332
FIGURE 2962A

GCCGCGGCCACCGGAAGAGTCGCGGTGCGCAGTCCAGTCGGGAGAGTGGGGAGCGGAAGCGGCGGCCGCGCGGC
GGCGGGCGGCGCTGGGACCCGGTAGCGGCCGAGAACAAAGGGAGCTGGCGCCGCGCAGCAGCCGCGAGCTGGGTT
GAGCCGCTGGGCGCGCCGCGCGCGCCGCGCTCTGGGAGGCTCGGCCCCGCGCCGCGAGCAGCCGCGCGCGGG
CCGCGGGGCGGAGGCCAGAGCCATGGGCGAGACCAAGATCATCTACCACTTGATGGGCAGGAGACGCCGTACC
TTGTGAAGCTGCCCTGCCCCGCGAGCGCGTCACCTTGGCGGACTTTAAGGGCGTTTTGACGCGACCCAGCTATA
AGTTCTTCTTCAAGTCTATGGACGACGATTTGCGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTAC
CATGCTTCAATGGCCGGGTGGTGTCTTGGCTGGTGTGAGCTGAGGGCTCACACCCAGACCCAGCCCCCTTCTGTG
CTGATAACCCATCGGAGCTGCCACCACCTATGGAGCGCACGGGAGGCATCGGGGACTCCCGACCCCCATGCTTCC
ACCCTCATGTGGTGGGGGCGAGCCAGGAGAACCTGGACAATGACACAGAGACGGACTCTTTGGTGTCTGCCGAGC
GAGAGCGGCCACGCCGAGGGATGGCCAGAGCATGCAACCCGGCTAAATGGAAGTGCAGAGGGGGAACGGCGGC
GAGAACCAGGGGTTATGATAGCTCATCCACCCTTATGAGCAGTGAAGTGGAGACCACCGCTTCTTTGACTCAG
ATGAGGATGACTCCACCAGCAGGTTGAGCAGCTCCACAGAACAGAGCAGTGCCTCACGCCTGATGAGAAGACACA
AGCGGGCGGCGCGGAAGCAGAAGTTTTCTCGATTGAGCGGTCTCGTCTTACGAGCATCACGGACTCCACCA
TGTAATCAACATCATCAGGTCACTCTCAACATGGAATAATAACTTCTTGGGCATCTCCATTGTGGGCCAAA
GCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCTATCATGAAGGGTGGGGCCGTGGCTGTGATGGACGCA
TCGAGCCAGGAGATATGTTGTTACAGGTAAACGAGATCAACTTTGAGAACATGAGTAATGACGATGCAGTCCGGG
TACTGCGGGAGATTGTGCACAAACCGGGGCCATCACCTGACTGTAGCCAAGTGTGGGACCCAAGTCCACGTG
GTTGCTTACATTGCCCAGGAGCGAGCCCATCCGGCCCCATTGACCCTGCGGCCTGGGTCTCCACACTGCAGCCA
TGACCGGCACCTTCCCTGCATACGGCATGAGCCCCCTCCCTGAGCACCATCACCTCCACCAGTCTCTCCATACCA
GTTCCATCCCTGACACAGAGCGCCTAGACGACTTCCACTTGTCCATCCACAGTGACATGGGTGCCATCGTAAAG
CCATGGCCTCCCTGAATCAGGGTGGAGGTCCGTGACCGCATGTGGCTCAAGATTACCATCCCTAATGCTTTCA
TCGGCTCAGATGTGGTGGACTGGCTGTACCACAATGTGGAAGGCTTACGGACCGGAGGGAGGCCCGCAAGTATG
CCAGCAACCTGCTGAAAGCTGGCTTCATCCGCCATACCGTCAACAAGATCACCTTCTCCGAGCAGTGCTACTACA
TCTTCGGTGACCTCTGCGGCAACATGGCCAACCTGTCTCTCCACGATCACGATGGCTCCAGTGGCGCCTCTGACC
AGGACACACTGGCCCCCTTTGCCGCACCCGGGGGCGGCCCTTGGCCCATGGCTTTCCCGTACCAGTACCCGCCAC
CCCCGACCCATACAACCCGCACCCGGGCTTCCCGGAGCTGGGTACAGCTACGGCGGGGCGAGCGCCAGCAGTC
AGCACAGCGAAGGCAGTCGGAGCAGTGGTCCAAACCGTAGCGGCAGCGATCGGAGGAAGGAGAAGGCCGGAAGG
CCGGGGACTCCAAGTCCGGGGGCGAGCGGCAGCGAATCGGACCACACACAGCAGCAGCCTGCGGGGGCGCGGG
AGCGGGCGCCAGCGAGCGCTCAGGGCGCGCGGCCAGCGAGCACAGCCACCGCAGCCACCATTCCTTGGCCAGCA
GCCTTCGACAGCCACCACACACACCCGAGCTACGGTCTCTCCGGAGTGCCCCCTCTCTACGGCCCCCCCCATGCTGA
TGATGCCCCCGCGCCCGCGGCCATGGGGCCCCAGGAGCCCCCTCCGGGCGCGACCTGGCCTCAGTGCCCCCGG
AACTGACCGCCAGCAGACAGTCTTCCGCATGGCCATGGGAAACCCAGTGAGTCTTTGTGGATGTGATGTGAG
CAGGGCCCCCTCCCCAGCTCCATTCCGCTCCACCCAGCCGGCTGCGTTCTCTCTCCATCCGTCCGTCTTTTT
TACTTTGTCTGGTACCTGAAAGGGAAATAAAAGGAACTAAATCCAGGTGCGCTAACTGCTCGCAGGGTGTGCGA
GGGTGGGGTGCACCTACCGATTGGCTCTGCAGCCCCCTAACCTGCCTCTGGCCCCAGTTCGTTTCTCTGCCAC
TAATCCCTGCGCAGGACTTCCAGGACCCCTTTGTCTCTGGGACCAGACTTGTGGTGTACCCCTTACTCCCC
TCTGCAACCCCATTTTGGGAGTTGACCCAGCAATGACCTTGGTGGCACGCTCACTCCCTATTCTCTCGTTTC
CCCTTTAGCTCCCTTTACCATTTTATTAGCTACATCATCCCTCTATTAACCCACCCCATCAGGCACGTGTGCA
AACCTCTTGACTTTACCCACATTACTGAAACCAAAATATATTTGCTTCATCTGCCCCCTACTAACCATCCCCCTG
CCTGCTGCCTCAGTCTGCAACCTAAAGCTGTAGTCGCCTCCAATAGCCATCCATGCCATCCCTGCCTGTGCCTA
GATCAGAGGCCAGAGGGCCCCCTCAGTTGCCTGAGCAGCTGGTGGCTTCCAGGGAGCATCTCTGCTTACCCCT
GCCCCATGCCTGCCCTGCGTGTGGTTCCTTCAGACCCCTAACCTACTAACAGCAGGCTCATCTACCTCCAG
GCCTGAAACATTTCTTTCTTTCTTTTCTTCCCTCCCCAATTTTCCCTGGGCCTGGAGCAGCCAAGAATTTGGGC
TGTTTGACTTTCTGTGAGCCCCAGCGAGGGGAGGCCAGCCTCCGAGGAGACCAGGAACCTGCTTACAGAGCC
CTCAGGGCTTCCCAAGGATGTCCAGCCCCACACCCGTAACATAATGAGTCACTAGGCTTCTGGGGAGG
GCCCAACTTCACCATGAGAGACTCTCTCTTTCCAGAGAGAATCGGATCGCACACCGTGTGGCAGCCTG
CGGCGGGGGAGGGGGGCTCTTTAGCTCTCTTTATCTTTCTCTCACTCATGTATGCATACATGCACAGAGAT
GCATACACAGGTGCCTATGCAAGTTCATTTAAGCCTCAGGGCTGGTCCCTGCCCAAAGGGCTGGACCCCTCTAAT

3390/5332
FIGURE 2962B

CCTCTCCTAGGTTGTGGGGCTGGTCCCCTGACACCCTTCTCCCCCTTCCTGGTAGACCTTAAACCTCGCACACATG
TCCCCAGCATTCTTCACCTGGATAAAGCCCATAAGCTGGGTCTCAGGCTGGGCTCAGCAAAGGACTCGCCTTGC
AACCGACAGGCCATTCCCACCCCCACACACAACCTCCCCTGTTTTACATTACCATGGCATCCCAGAGCAAGGA
CACAGGAGCCACAGGCCAGTTGAGGTTGGGCAAGGAGACTTCCAGGACTTCCAGACAGAGTACCAGGTTTTATT
TTTACCTTATTCTCTACTTTAAACAAATCATACTTCTCTTTAAGCCTCTGCTATAAATTCTCCTGGCTCTCC
TGGGCTTCCATATTTTGGGGGCTGGGGTGTCAAAAGTGAGATGAAGTTCTTAGCTCCAGGTTTTGGGGTAAACCA
AGGTAGGAACATTTTGGCATTATTTCAATTAACAATACTTCCTTGGACGGGTGCGGTGGCTCACGCTGTGAATC
CCAGCACTTTGGGAGGCTGAGACAGGTGGATCACTTGAGGTGCGGAGTTCGAGACCAGCCTGGCCAACATAGCAA
AACCCTGTCTCTACTAAAAATACAAAATTAGATGGGTGTTTTGGCACCTGCCTGTAATCTCAGCTACTCAGGAG
GCTGAGGCACAAGAATCGCTTGAATCCAGGAAGCAAGCGGAGGTTGCAGTGAGTTGAGATCGCACTCCAGCCTGG
GTGACAGAGTGAGATTCTGTCTCAAAAGCAAACCTAACAAAGAAAAACAATACTTCCTGGGGTTTTGGTGTGCAGA
GGGCTTTGTTGGAAGTGTGACTCAATCTTGCCTGCCTTCTGGGAGCTCTAGAATTGTTCCCAACCCAGTCCATGG
CTTCTAGCCACCACTACAGGGCTGTTTCATGTACTTCTCTCTGACTCTGTCTTGTCCGACTCTCTTGAGAATT
TCTCAACGATTGCTCATGCCTGTGAGTATCAGTGCTTCCATCGTTCCATCTTGATTCACTTCTCTTTCTTTCT
ATTTACTCCCAAAATGGAGTCATTATCCTGATGTCTCAATTGCTGCTGATATGCTGGTGATTCCCAATACAT
AGCTCCAACCCCCAAGTTCCTCCTGATGTCTCAATTGCTGCTGATATGCTGGTGATTCCCAATACAT
CGTATAGACTCAACTCATCTGCCCAACCAAGTATGTTTCTCCTGAATTCCCTCTCCTGGTTACTTCATCACAATCT
ACATAGGCTCACCAGCTAGAAACATTTATGAGCTTACATTCTTCTTCCCATATCTTATCAGCATATCATATCCA
TTTCACTCCAACACTCTGTCTTGAATTTGGCCCTCCCTCTCCCTCTCTACTTTAATTCATTGGAGCATGGGATT
TGGAGTTAGGTGTTTTGGGTTTTGAATTCAGCTCTACTATTTTTGGTTGTGTGATAGAGTTATTTAACCTCTCT
GAGCCTCAGTTCCCTCGTATGTAAAATGATGATAATAATACCTACCTCAGGGTTGTTGTGAGGATTTAAATTA
GATATTGTACGAAAAGTGCCTAGCACAGTGCTGGCACACAGTAGAGTAGGTGCTCAATAAATGGTAGCTATTAT
TATT

3391/5332
FIGURE 2963

CCGAGGCAGCGGGCAGACGAGCAGGGGGCGGGCGGACATCTTGGGATCCGGAGAGTGGCCGGGCGGGCAGAGCAG
GGGGCCGAGGACACCAGGTCTGTTCTCAGAGCGATGGGCGCGGAGACTGATCTGCCGCCATGATTGGAGGCTTA
TTCATCTATAATCACAAGGGGGAGGTGCTCATCTCCCAGTCTACCGAGATGACATCGGGAGGAACGCAGTGGAT
GCCTTTCGGGTCAATGTTATCCATGCCCAGCAGGTGCGCAGCCCCGTCACCAACATTGCTCGCACCAGCTTC
TTCCACGTTAAGCGGTCCAACATTTGGCTGGCAGCAGTCAACCAAGCAGAATGTCAACGCTGCCATGGTCTTCGAA
TTCCTCTATAAGATGTGTGACGTGATGGCTGCCTACTTTGGCAAGATCAGCGAGGAAAACATCAAGAACAATTTT
GTGCTCATATATGAGCTGCTGGATGAGATTCTAGACTTTGGCTACCCACAGAATTCGAGACAGGCGCGCTGAAA
ACCTTCATCACGCAGCAGGGCATCAAGAGTCAGATGTAGACAAAAGAAGAGCAGTCACAGATCACCAGCCAGGTA
ACTGGGCAGATTGGCTGGCGGCGAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCCTGGATGTGCTGGAGAGT
GTGAACCTGCTCATGTCCCCACAAGGGCAGGTGCTGAGTGCCCATGTGTCGGGCGGGGTGGTGATGAAGAGCTAC
CTGAGTGGCATGCCATGAATGCAAGTTTGGGATGAATGACAAGATTGTTATTGAAAAGCAGGGCAAAGGCACAGCT
GATGAAACAAGCAAGAGCGGGAAGCAATCAATTGCCATTGATGACTGCACCTTCCACCAGTGTGTGCGACTCAGC
AAGTTTGACTCTGAACGCAGCATCAGCTTTATCCCCCGAGATGGAGAGTTTGAGCTTATGAGGTATCGCACAAACC
AAGGACATCATCCTTCCCTTCCGGGTGATCCCGCTAGTGCGAGAAGTGGGACGCACCAAACCTGGAGGTCAAGGTG
GTCATCAAGTCCAACCTTTAAACCCTCACTGCTGGCTCAGAAGATCGAGGTGAGGATCCCAACCCCACTGAACACA
AGCGGGGTGCAGGTGATCTGCATGAAGGGGAAGGCCAAGTACAAGGCCAGCGAGAATGCCATCGTGTGGAAGATC
AAGCGCATGGCAGGCATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGCCTACCAACGACAAGAAGAAA
TGGGCTCGACCCCCCATTTCCATGAACTTTGAGGTGCCATTTCGCGCCCTCTGGCCTCAAGGTGCGCTACTTGAAG
GTGTTTGAACCGAAGCTGAACTACAGCGACCATGATGTCATCAAATGGGTGCGCTACATTGGCCGAGTGGCATT
TATGAAACTCGCTGCTAGCTGCCACTAGGCAGCTAGCCACCTCCCCAGCCACCCTCCTCCACAGGTCCAGGTGC
CGCTCCCTCCCCACCACACACTAGTGTCTCCTCCTCCTGCTTTGCTGCCCTTCCCTTTGCACCAGCCGAGTCT
AGGTCTGGGCCAAGCACATTACAAGTGGGACCGGTGGAGCAGCCCTGGGCTCCCTGGGCAGGGGAGTTCTGAGG
CTCCTGCTCTCCCATCCACCTGTCTGTCTTGGCCTAATGCCAGGCTCTGAGTTCTGTGACCAAAGCCAGGTGGGT
TCCCTTTCCCTTCCCACCCCTGTGGCCACAGCTCTGGAGTGGGAGGGTTGGTTGCCCTCACCTCAGAGCTCCCCC
AAAGGCCAGTAATGGATCCCCGGCCTCAGTCCCTACTCTGCTTTGGGATAGTGTGAGCTTCATTTGTACACGTG
TGACTTCGTCCAGTTACAAACCCAATAAACTCTGTAGAGTGG

3392/5332
FIGURE 2964

CTGGTGTCCACGATGAGCGCTTTATCAGGCTGGTGTGCCGGGAGTTGTGGGTATGCGAAGGAGGCGGCGTCACC
CGTGTGGAAGGAGGACTCGCCCAGGACATGGACTGGTCTCTCAGACCCCTGGGCCACCATGTAGGCCACCACTCC
AGGCCGTGGACTTCCCCAACTTGGGGACAGCCTTATCCCAAATGTCTCTATCCTTTTGAAGGAGCATCTTCT
GCACAACCTTGGGAGCCCATCCAAGGGTTGGTGAGGACTGGTCTCCCGGGGGTGGGGGTCTGGGGGGTACCCCTCT
GGGGTTATAGATTCCCCCACTGCCCCAGCTCTGACTGGACCCCAAGTGGCTGCTATGTAAATTAAATCTCTCCCC
GCGTC

3393/5332
FIGURE 2965

GGAAGGCTGGACCTGCAGGCTCCTCCTGGACAGTGAAGTGGGCACTTGGGGTCCAGAGGCAGGGCCTTCCTTGA
CAGAATTGTGTCTCTCCTCTCAGAGCCCCATCAGCCACACCTGATGCTGGAGGGCGGCAGCCTGAGCTCAGCAG
AATATGAGGCCCCGGGTGAGGGCCCCGCGAGATTTTCAGAGGCTACAGCGAAGGGACAGTGATGGGGACCGGCAGG
TGTGGTTTCTGCAGCGACGCTTCCACAAGGACATCCTGCTGAACCCCGTGTGGCGCTGAGCTTCTGCCAGACC
TGAGCTCCAAGCCCCGACACCTGGGGACAGCTACTCGGGAGCTACTCTTCTTTGGATAGCAGCAGCGTGGCAC
ACAAGGATGCCATTGTTTTGGCTGTGAAGTCCCTCCCGCCCCAGACGCTTATCAACCTGGCCGTGTTTGGGACGT
TGGTGCAGCCACTCTTCCCAGAGAGCCGGCCTTGCACTGATGATGCTGTGCAGCTGATCTGCGAGAGCATTGAGA
CCCTGCAGGTTCCGAGTGGGCCCCCAGACGTGCTGGCTGCTCTGGACTGGGCCGTGGGGCAGCCCCAGCACAGGG
CCTACCCCTCGGCAGCTGTCTCTGCTCACTGCTGCCTCACCCATGGCCGCCACTACCCACCGAACCCTGGAGCTCA
TGAGGTGGCACAGGGGGACAGCCAGATGCTTCTCCTTTGGGCTGGGGCCACCTGCCACCAGCTGCTCCAGGGTT
TATCTGCCCTCAGCAGAGGCCAGGCCTACTTCTGAGGCCTGGGCAGAGGCTGCAGCCCATGCTGGTACAGGCTC
TGCGGAAGGCACCTGGAGCCTGCTTTGAGTGACATCTCTGTGGACTGGTTTGTGCCCCGACACTGTGGAGGCACCTGC
TGACCCCCCGGGAGATCCAGCACTCTACCTTGGGGACCACTGCTGCTCGGTTACTGCTCACTCTTCAGGGTGGATG
GCTTCCGGTCCCGCCCCACCAGGGGGCCAAGAGCCTGGCTGGCAGAGCTCGGGTGGGTCCGTGTTTCCATCCCCAG
AAGAGGCCCCGTCTGCTGCCAGCCCTGGCACTGAGCCCCACTGGCACCTCAGAGCCACTGGGAACAGGCACCTGTCT
CAGCAGAAGTGTCCAGCCCATGGGCTGCCAGGGACTCGGAGCAGAGTACTGATGCTCTGACAGACCCAGTCAAGG
ATCCTGGACCCAAACCCCTCTGACACAGCCATATGGCGCCGATCTTTCACTCCTCGTACATTCGGGAGCAGTATG
TGCTCACCCACTGCTCTGCCAGCCCCGAGCCAGGCCAGGCTCCACAGGCAGCAGTGAGTCCCCAGGCTCACAGG
GCCCTGGCTCCCCGAAGGTAGTGTCTCCCTTGAGACCCCTTCTCAGCAGGGCTGCCGAGTCTGGCCTGGGGAG
AACCTGCAGGCTCCCGCTCCTGTCCCTGCCTGCACCCACACCAGCTCCATTCAAGGTGGGGGCCCTTGAGTACTG
AGGTGCTGGGCCGTGAGCAGAGCGGCTCTGGCTGGCCGAAGCCTCTCATCCCTCCAGGCCGGGCAACCAAG
TCCCCGGCCGACCCCGGAAACCTCTTTGGGTGCAATACTAGATGGCCCAAGTCTGAGCCAGGCCAACAGTTGG
GACAAGGCCTGGATGACTCAGGAAACCTGCTCTCCCCAGCCCCCTATGGACTGGGACATGCTGATGGAACACCCT
TCTTATTACGGCTGTGCTCCTAGTGGGGAGTTGGCCCCCTCCAGCAGTGCCTCCCCAGGCTCCACGCTGCCATG
TGGTGATCCGGGGCCTGTGTGGGGAGCAGCCCATGTGCTGGGAGGTGGGTGTTGGGCTGGAGACACTGTGGGGAC
CTGGAGATGGCTCACAGCCTCCCTCACCTCCTGTAAGAGAAGCTGCTTGGGACCAAGCACTCCATCGGCTGACAG
CAGCCTCTGTGGTCCGGGACAATGAGCAGCTGGCCCTCCGAGGAGGGGCAGAGACCACAGCTGACCGGGGCCATG
CCCGGAGGTGTGGCTTCGAGCCCTTCAGACAAGTAAGGTGAGCTCTGCCCCCTCCTGCTTCACTTGCCCTGTAG
CTGTGGATGCTACTACTAGGGAGGTCTGCTGGGGCCCTGCAAGGTGTGAGCTCAGAGCCCGCTGAGCCCCCAG
GAACCCCTCCTGCCTCTCACAGCCATCTAGATGCAGCTCCTCTGCCCCACTGTTGTCTACTCTAAAGGACTTCAGA
GAGGCTCTCCAGCAGGCGCCTGGGACTCGGACCAAAATGGCAACTCCAAGCGTGCTTTGGGGGACCCCTGCCACTC
CCACGGAAGGTCTCTCGCCGCCACCTCCCCGTCTCCTGTGCGCTCAGCATGGGCCGCCGTACAAACTCTGTA
GCCCTGACCCGGGCCAGGCCAACACAGTGAAGGCAGCGACCATGACTACCTGCCCTTGGTGCAGCTGCAGGAGG
CACCAGGCTCCTTCCGCCTGGACGCGCCCTTCTGCGCGCTGTGCGCATCTCGCAGGAGCGCCTCTGCCGTGCCCT
CGCCCTTTGCCGTGACCCGCGCCAGCCTCAGCCCCACCTCGGCCCTCATTGCCCTGGGCACCTCTGGGCCCTGGTG
TTGGCCAGGGTGACAGTGCCACGGCCTCCTGCAGCCCGTCCCCAGCTCGGGCTCTGAGGGGCCAGGCCAGGTGG
ACAGTGGGCGGGGCTCAGACACCGAGGCCTCCGAGGGGGCGGAAGGGCTGGGCGGCACCGACCTGCGGGGCCGGA
CCTGGGCCACTGCCGTAGCACTCGCCTGGCTGGAGCACCGATGCGCCGCTGCCTTCGACGAGTGGGAAGTACAG
CGGCCAAGGCTGATTGCTGGCTGCGGGCCAGCACTTGCTGACGGCCTTGACCTGGCCGCCCTCAAGGCCGAG
CCCGAGGGCTCTTCTGCTACTGCGCCACTGGGACCAAAACCTGCAGCTACACCTGCTGTGCTACAGCCCAGCGA
ACGTGTGAAGGCTGCCCCCTGCTGCTTGGGCTGGCGCCCCACCCAAACACTCAAGTCACTGCCGCCAGGGCTG
GCCTCTTGGTGCTGGGAAAGTGTAGGCTGGTGCCAGCCTGTCCCCCACTGCTTCTTACTCCCTCCCTAGAGCCCT
CTTGCCCCCAGAAAAGTGCCTGCCTGTGCTCTCTCCTCTCCCTCCCACTCAGCTCCCTCCCTCCATCCTCT
GAGCTCCCTGCAACACAGTGGAAGGGTAGAGAGCCACAGTCCCCAAATCCTATGCAATAAAGTGCTCTTAGG

3394/5332
FIGURE 2966

GGTGGGCCCACACAAGCGGCGCACCGTTAAGATGCGGGCTGGGCTGCGGAAACGCGGCCGGTCCGGTTCCGCGGC
CCAGGCAGAGGGACTCTGCAAGCAATGGCTGCAGCGCGCCTGGCAAGAGCGGCGCCTGCTGCTGCGGGAGCCGCG
CTACACGCTGCTGGTGGCCGCCTGCCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCATTACAGGGTGGC
ATACACAGAGATTGACTGGAAGGCCATACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCA
ACTGCAGGGTGACACCGGACCCTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGGTTGTACTATGCCAC
CAGCCGAGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGCTGCTTGTCTT
CTTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGCTCTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA
CTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGTGCTCTTCCCTCAGTATCAACCTCCTGCT
GGCCAGCGCTGGGGCTGGGGTTGCTGCTTTTTCAGGTCAACACCTCTTCTTTCTGGTCCCCTCTCGTTTTCTG
CATTTCCATCTCTTCCCAATTTCTGTCAGCAGAGGGAGTAAAGGAGTAGCCAAGACAGCATGGGTCACTCAGGGC
TCCACAAAGCGAGTCCAGGATCTATAGAAAGTTTCTGCCCTGCCATCCCCAACATACACACATGCCCTCTTTCC
ATCCTGTCTTCTCCAGACAGCATTCCCTTGTGGAATTAGTCCCTTACATTCTAAATACTCAGTATATGCTCAT
TCGCATCTAGTAGGCATAGAGACTATGTATCTGCCTCCTGCCTACTCCAGGCTCTTCCCTCCAACAGTTGTGAGT
GTAGGTCCCATCTTGGAGTTTGTGCGCTGGCGCGGGGGGAGGTTGCTGTGGTGATGGTGGGGGGTATGTCTT
TGGGTGTGTGTGTCATGGCCCTGGAGCTGATCTCCACCCTTCCCTCTCCCCTGCTCACCCAGCCTGGCAGTCTCT
GTGAAGATGAATGTGCTGCTCTTCGCCCCTGGGTTACTGTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCC
CTCCCCAAGCTGGGAATCTGTGCTGGCCTTCAGGTGGTGTGCGGGCTGCCCTTCTGCTGGAGAACCCAGCGGC
TACCTGTCCCGCTCCTTTGACCTTGGCCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCTTCCAGAG
GCGCTCTTCTGTCATCGAGCCTTCCACCTGGCCCTGTTGACTGCCACCTCACCTGCTCCTGCTGTTTGGCCTC
TGCAGGTGGCACAGGACAGGGGAAAGTATCTTGTGCTGCTGAGGGATCCCTCCAAAAGGAAGGTTCCACCCAG
CCCCTTACACCCAACCAGATCGTTTCTACCCTCTTACCTCCAACCTTCAATTGGCATCTGCTTCAGCCGCTCCCTC
CACTACCAGTTCTACGTCTGGTATTTCCACACACTGCCCTACCTCCTGTGGGCCATGCCTGCACGCTGGCTCACA
CACCTGCTCAGGTTGTTGGTGCTGGGGCTCATCGAGCTCTCCTGGAACACATACCCTTCCACATCCTGCAGCTCT
GCTGCCCTGCACATATGCCATGCCGTATCCTGCTGCAGCTCTGGCTGGGCCCAGCCCTTCCCCAAGAGCACC
CAACACAGCAAGAAAGCCCACTGAAGTCCACCCCTTCCCTCAGGACCTGAGTCTACCTCAGGACCTGGGGTTG
GTTGGACTCTGCCCTTCCAAATAAACCTTGCTAAGTCCAACCTCTGTGCAACCTACATGGAGGTGGGGGCAGCCGA
TGCCTGGTCCAGGCTGTGAGGGACACGTATGGAGCAGATAAAGAATCACTCAAGC

3395/5332
FIGURE 2967

CAGGTGGTGGGCGGAGACACCAGCGCCCCGCCTTCTGCATCCTGCCTTCCGTATTGGCTGAAGGGCCGGCGGCTC
TGCTGCCCCGGCGGTTGAGAGCATGGCCTCTCCAGGGGCAGGTAGGGCGCCTCCGGAGTTACGGGAGCGGAAC TG
CGGTACCGCGAAGTCGAGTACTGGGATCAGCGCTACCAAGGCGCAGCCGATTCTGCCCCCTACGATTGGTTCGG
GGACTTCTCCTCCTTCCGTGCCCTCCTAGAGCCGGAGCTGCGGCCCGAGGACCGTATCCTTGTGCTAGGTTGCGG
GAACAGTGCCCTGAGCTACGAGCTGTTCTCGGAGGCTTCCCTAATGTGACCAGTGTGGACTACTCATCAGTCGT
GGTGGCTGCCATGCAGGCTCGCCATGCCATGTGCCGCAGCTGCGCTGGGAGACCATGGATGTGCGGAAGCTGGA
CTTCCCCAGTGCTTCTTTTGATGTGGTGCTCGAGAAGGGCAGCTGGATGCCCTGCTGGCTGGGGAACGAGATCC
CTGGACCGTGTCCTCTGAAGGTGTCCACACTGTGGACCAGGTGTTGAGTGAGGTGAGCCGCGTGCTTGTCCCTGG
AGGCCGGTTTATCTCAATGACTTCTGCTGCCCCCACTTTCGGACCAGACACTATGCCCCAAGCCTATTATGGCTG
GTCCCTGAGGCATGCTACCTATGGCAGCGGTTTCCACTTCCATCTCTACCTCATGCACAAGGGCGGGAAGCTCAG
TGTGGCCCAGCTGGCTCTGGGGGCCCCAAATCCTCTCACCCCCAGACCTCCCACCTCACCTTGCTTCTTCAGGA
CTCAGATCATGAGGACTTCCCTTAGTGCCATTGAGCTCTGAGGCCAGAGCATGGTCTCCACCCTTCTGCCATT
TGCCCTGGGCTCCTCAGGTAGTTGGAATTCCTGACTTAGGACTTGGGGTTGGGTCCAAGGTGCTTACATCCCAGG
GGCCTCATGCCTAAGATAGAGGGTGGGAGCGAACCACATGAACCAATACAGCCCAGCTCCAAGTATCCAGAT
TCCAGGTTTCTTGCTTCTTTCTTGGGTTTCTCAGTTCTCTCTGGGTTCCCCAACCTCCTCTGCCACCACACCAA
ACCACCAGTGATGCATCCCCTGGGGCAAAGCTCATCATAACCCCTCTGCACACCAGCCAGCCTGGAGACCGTTGT
TCCTGGGGCCTGTTACTGATCCTCATCTAGCCTTGATTATCCACAGGAGACTGCAGGCTTTGAACCTAGATTGC
TTTATGT

3396/5332
FIGURE 2968

GGGGCGCTGGGAGCCCGTTGGGCCGCGAACGCAGCCGCCACGCTGGGGCCGCCGAGATCGGGTGCCCGGGATGAG
CCTCATCCGGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACAGCCTGGGAGCTGCCCAAGACCTACGTGTC
CCCGACGCACGTGCGGCAGCGGGGCCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGTGAGGGGAGAAGGTGGC
CATCAAGAAGCTGAGCCGACCCTTTTCAGTCCGAGATCTTCGCCAAGCGCGCCTACCGGGAGCTGCTGCTGCTGAA
GCACATGCAGCATGAGAACGTCATTGGGCTCCTGGATGTCTTCACCCAGCCTCCTCCCTGCGCAACTTCTATGA
CTTCTACCTGGTGATGCCCTTCATGCAGACGGATCTGCGAGAAGATCATGGGGATGGAGTTCACTGAGGAGAAGAT
CCAGTACCTGGTGATCAGATGCTCAAAGGCCCTTAAGTACATCCACTCTGCTGGGGTCTGTCACAGGGACCTGAA
GCCAGGCAACCTGGCTGTGAATGAGGACTGTGAACTGAAGATTCTGGATTTTGGGCTGGCGCGACATGCAGACGC
CGAGATGACTGGCTACGTGGTGACCCGCTGGTACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCA
GACAGTGGACATCTGGTCTGTGGGCTGTATCATGGCAGAGATGCTGACAGGGAAAACCTCTGTTCAAGGGGAAAGA
TTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGCACGGAGTTTGTGCAGAAGCTGAACGA
CAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGAAGGATTTCACTCAGCTGTTCCACGGGC
CAGCCCCCAGGCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCGCAGGC
CCTCACCCATCCCTTCTTTGAACCCCTCCGGGACCCTGAGGAAGAGACGGAGGCCAGCAGCCGTTTGATGATTC
CTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTACAAGGAGATTGTGAACTTCAGCCCCAT
TGCCCGGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGGGACTCATCTTGATGGCACCCGCCGCCAGAC
ACTGCCCCAAGGACCAGTATTTGTCACTACCAAACCTCAGCCCTTCTTGAATACAGCCTTTCAAGCAGAGGACAGA
AGGGTCCCTTCTCCTTATGTGGGAAATGGGCCTAGTAGATGCAGAATTCAAAGATGTCGGTTGGGAGAACTAGCT
CTGATCCTAACAGGCCACGTTAACTGCCCATCTGGAGAATCGCCTGCAGGTGGGGCCCTTTCCTTCCCGCCAGA
GTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCCCTATGGCAGTGATGCTGTGTTGGTTTCTAGGGATGCTCT
AACGAATTACCACAAACCTGGTGGATTGAAACAGCAGAACTTGATTCCCTTACAGTTCTGGAGGCTGGAAATCTG
GGATGGAGGTGTTGGCAGGGCTGTGGTCCCTTTGAAGGCTCTGGGAAGAATCCTTCCTTGGCTCTTTTGTAGCTT
GTGGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCACTCCAGTCTCTGTCTCTTCTGTTCTC
TCCCTTTTAAACAACAGTCATTGGATTTAGGGCCACCCTAATCCTGTGTGATCTTATCTTGATCCTTATTAATT
AAACCTGCAAACTACTCTAGTTCCAAATAAAGTCACATTCTCAGGT

3397/5332
FIGURE 2969A

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGCAGCCCGGAGTCGGCC
TTGTAGGGGGCGAAGGTGCAGGGGAGATCGCGGGCGGGCGCAGTCTTGAGCGCCGGAGCGCGTCCCTGCCCTTAGCGG
GGCTTGCCCCAGTCCGAGGGGCACATCCAGCCGCTGCGGGCTGACAGCAGCCGCGCGCGGGAGTCTGCGGGGGTC
GCGGCAGCCGCGACCTGCGCGGGCGACAGCGCAAGGTCCCGCGCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGCGGGCTGCCGCTGGAAAATGTCTCAGGAGA
GGCCACGTTCTACCGGCAGGAGCTGAACAAGACAATCTGGGAGGTGCCCGAGCGTTACCAGAACCTGTCTCCAG
TGGGCTCTGGCGCCTATGGCTCTGTGTGTGCTGCTTTTGACACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGC
TCTCCAGACCATTTCAGTCCATCATTGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCAATGATGTGTATCTGG
TGACCCATCTCATGGGGGAGATCTGAACAACATTGTGAAATGTCAGAACTTACAGATGACCATGTTTCAGTTCC
TTATCTACCAAATTTCCGAGGTCTAAAGTATATACATTGAGCTGACATAATTCACAGGGACCTAAAAACCTAGTA
ATCTAGCTGTGAATGAAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATTACAACCAGACAGTTG
ATATTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAAGAACATTGTTTCTGGTACAGACCATATTA
ACCAGCTTACAGCAGATTATGCGTCTGACAGGAACCCCCCGCTTATCTCATTAAACAGGATGCCAAGCCATGAGG
CAAGAACTATATTGAGTCTTTGACTCAGATGCCGAAGATGAACCTTTGCGAATGTATTTATTGGTGCCAATCCCC
TGGCTGTGCACTTGTCTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGGCCCAAGCCCTTGAC
ATGCTACTTTGCTCAGTACCACGATCCTGATGATGAACAGTGGCCGATCCTTATGATCAGTCTTTGAAAGCA
GGGACCTCCTTATAGATGAGTGGAAAAGCCTGACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACC
AAGAAGAGATGGAGTCTGAGCACCTGGTTTTCTGTTCTGTTGATCCCACTTCACTGTGAGGGGAAGCCCTTTTCA
CGGGAACCTCICCAAAATATTATTCAAGTGCCTCTTGTTGCAGAGATTTCTCCATGGTGGAAGGGGTGTGCGTGC
GTGTGCGTGCCTGTTAGTGTGTGTGCATGTGTGTGTCTGTCTTTGTGGGAGGGTAAGACAATATGAACAAACTAT
GATCACAGTGACTTTACAGGAGGTTGTGGATGTCCAGGGCAGCCTCCACCTTGCTCTTCTTTCTGAGAGTTGGC
TCAGGCAGACAAGAGCTGCTGTCTCTTTTAGGAATATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCCAATC
CCGGTCATGCTTTTGCCACTTTGGCTTCTCTGTGACCCACCTTGACGGTGGGGCGTAGACTTGACAACATCCC
ACAGTGGCACGGAGAGAAGGCCCCATACCTTCTGGTTGCTTCAGACCTGACACCGTCCCTCAGTGATACGTACAGC
CAAAAAGGACCAACTGGCTTCTGTGCACTAGCCTGTGATTAACTTGCTTAGTATGGTTCTCAGATCTTGACAGTA
TATTTGAAAGTGTAATATGTTTGTGCCTTAAAGGAGAGAGAAGAAAGTGTAGATAGTTAAAGACTGACAGCTGCT
GAAGTCTGAGCCGGGCAAGTCGAGAGGGCTGTTGGACAGCTGCTTGTGGCCCCGAGTAATCAGGCAGCCTTCA
TAGGCGGTGATGTGTGATGTGAGCACATGCGTATATGTGCGTCTCTCTTTCTCCCTCACCCCCAGGTGTTGCCA
TTTCTCTGCTTACCCTTCACCTTTGGTGCAGAGGTTTCTTGAATATCTGCCCCAGTAGTCAGAAGCAGGTTCTTG
ATGTCATGTACTTCTGTGTACTCTTTATTCTAGCAGAGTGAGGATGTGTTTGCACGTCTTGCTATTTGAGCA
TGCACAGCTGCTTGTCTGCTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTGCCAGTGAAGACTTCTTGGGTA
GTTTAGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATATCACCTCTCTTCAGCCCCTAGTGCTATTCTG
TGTTGAACACAATTGATACTTCAGGTGCTTTTGATGTGAAAATCATGAAAAGAGGAACAGGTGGATGATAGCAT
TTTTATTCAATGCCATCTGTTTTCAACCAACTATTTTTGAGGAATTATCATGGGAAAAGACCAGGGCTTTTCCAG
GAATATCCCAAACCTTCGGAAACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAAATGCTGAAAATCAAA
GTAAAAAATTAAAGCCCATAGGCCAGAACTCCTTTTGCTGTCTTTCTCTAAATATGATTACTTTAAAAATAAAA
AAGTAACAAGGTGTCTTTTCCACTCCTATGGAAAAGGGTCTTCTTGGCAGCTTAACATTGACTTCTTGGTTTGGG
GAGAAATAAATTTTGTTCAGAATTTTGTATATTGTAGGAATCCTTTGAGAATGTGATTCTTTTGTATGGGGAGA
AAGGGCAAATTATTTTAATATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGGGGTGGAGAAGTGTG
TTTTATAACTTGCTGAATTTAGGCATTTTGTCTACATGAGGACTCATATATTTAAGCCTTTTGTGTAATAAG
AAAGTATAAAGTCACTTCCAGTGTTGGCTGTGTGACAGAATCTTGTATTTGGGCAAGGTGTTTCCATTCTCAA
TCAGTGCAGTGATACATGTACTCCAGAGGGACAGGGTGGACCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGC
AGACTGATGGCGATTCCCTCTACCCGGGACTCTCCCTTTTCAAGGAAAGTGAACCTTTAAAGTAAAGGCCTCA
TCTCCTTTATTGCAAGTTCAAATCCTCACCATTCCACAGCAAGATGAATTTTATCAGCCATGTTTGGTTGTAATGC
TCGTGTGATTTTCTACAGAAATACTGCTCTGAATATTTTGAATAAAGGTCTTTGCACATGTGACCACATACGTG
TTAGGAGGCTGCATGCTCTGGAAGCCTGGACTCTAAGCTGGAGCTCTTGGAAGAGCTCTTCGGTTTCTGAGCATA

3398/5332
FIGURE 2969B

ATGCTCCCATCTCCTGATTTCTCTGAACAGAAAACAAAAGAGAGAATGAGGGAAATTGCTATTTTATTGTATTC
ATGAAC TTGGCTGTAATCAGTTATGCCGTATAGGATGTCAGACAATACCACTGGTTAAAATAAAGCCTATTTTTC
AAATTT

3399/5332
FIGURE 2970A

GGTCTCACCATGGAGCGGAAAGTGCTTGCGCTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTACAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCCTAATGATCCAAATAGAGAAATGGTTGTCAACTA
CTAGATGACTTTAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTGGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTACAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATGAGGAAATGGAGAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAAACAAGCAAGAAGAAATCAGAGAGTCCTGTTGAAAGACCCCTTGAAAGAGAACCACCT
AATAAAATGACCCAAAGAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTT
CTAAGCTCCCAAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCTCAACTGTAGGTCAGTCATTTCAGTGAACAACACATTAGCCAACTTCAAGAA
AGCATTTCGGGCAGAGATACCTGTGAAGATGAACAAGAGCAAGAACATAACGGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAAATTTCTTGTTAATCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAATGCTTGTGGCACAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTCCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTACAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAATTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAAAATATTCCAAGGAATTTTTCACCAAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTGGAGTTCTAGTGGAGAAGTATGAGTGGTCGCAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCCTTGGCTTAACCTCCTAAGCCCTGCCCAGCACACAGCAGAGATCACACACTGACCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTTCTCCCTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTT
AATCCAACATGTTCAATTGGGTTTGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCTCT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACTTGCTGTGTCCGGGCTGCATCATCTTCTGGACTGTTTCTGTTGT
TCTCTGTGTTACATTTTTTCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTTATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCATGAAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTTGT
TTGTATCCATGGCTGGCACTTTACTCATTGCACTTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTCATGTACAGCTTTTTCTTTACCTTACCCAAAATTTGCGCTTGAAGCAGTTTTCTCTATGGCT
TTGCCTTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTTGTGGTCTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACCAGTGAGGCTATTGGGTAAACCCTTTCTATACAGGAGATTGGAATC
TACTTTGTCAATTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

3400/5332
FIGURE 2970B

TTACTCTGAGTAACTGGCCAGCCATTTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTTCCTGTAGA
AAGAATTTTAAGTTAGGCTTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAAGTGAATTA
TCTTCTACATAGTAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTCATTGGAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTGCTGTCAGTTAAAAATAAGCCCTAAATACATTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAACAAATTATTTAATAACCTA

3401/5332
FIGURE 2971A

GGGCCGGCTCGCGGGCGCTGCCAGTCTCGGGCGGCGGTGTCCGGCGCGGGCGGCCTGCTGGGCGGGCTGAAGG
GTTAGCGGAGCACGGGCAAGGCGGAGAGTGACGGAGTCGGCGAGCCCCGCGGCGACAGGTTCTCTACTTAAAG
ACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGAT
ATTACCTCCAAAAAGACAGGGGAGTATTAAGATTGTCAAAAGAGTGGGGAATGGTGAGGAAACGCCGATGATT
GGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGTCATGATAGAAAT
GAACCATTTGTCTTTAGTCTTGGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAA
GGAGAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAAATCCCTCG
AATGCAACTCTCTTTTTGAGATTGAGCTCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATC
CGGAGAACCAAACGGAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGC
CGCTGTGGTGGGAAGGATGTTTGACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCA
ATTGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGATATGGT
TTTGGAGAGGCGAGGGAAGCCTAAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGC
TTCGAAAAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAG
GGAACCGTATACTTCAAGGGAGGCAAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCTGGTTAGAG
ATGGAATATGGTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTCTCCTTGCTGCCTTTCTGAACCTGGCC
ATGTGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGGACTGGACAGTGCC
AATGAGAAAGGCTTGTATAGGAGGGGTGAAGCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTT
GAGAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAG
GAGCACAACGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTGCAGAGCAGGATGCCAAGGAAGAG
GCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAGGAACAGACAGTCAAGCAATGGAA
GAAGAGAAACCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCCAGTGAACCTCGGCCCTCCTCAA
TGGGCTTTCCCCCAACTCAGGACAGAACAGTGTTAATGTAAAGTTTGTATAGTCTATGTGATTCTGGAAGCAA
ATGGCAAACACAGTAGCTTCCCAAAACAGCCCCCTGCTGCTGCCCGAGGGTTCACTGAGGGGTGGCACGGGA
CCACTCCAGGTGGAACAAAACAGAAATGACTGTGGTGTGGAGGGAGTGAGCCAGCAGCTTAAGTCCAGCTCATTTT
AGTTTCTATCAACCTTCAAGTATCCAATTCAGGGTCCCTGGAGATCATCCTAACAATGTGGGGCTGTAGGTTTT
ACCTTTGAACTTTTATAGCACTGCAGAAACCTTTAAAAAAAATGCTTCATGAATTTCTCCTTTCTACAGTTG
GGTAGGGTAGGGGAAGGAGGATAAGCTTTTGTTTTTTAAATGACTGAAGTGCTATAAATGTAGTCTGTTGCAATT
TTAACCAACAGAACCCACAGTAGAGGGGTCTCATGTCTCCCAAGTTCCACAGCAGTGTACAGACGTGAAAGCCA
GAACCTCAGAGGCCACTTGCTTGCTGACTTAGCTTCCCTCCCAAGTCCCCTCCTCAGCCAGCTCCTTGTGAGA
GTGGCTTTTCTACCAACACAGCCTGTCCCTGGGGGAGTAATTCTGTCAATTCCTAAAACACCCTTACGAATGATA
ATGAGCAGATGAGAGTTTCTGGATTAGCTTTTCTATTTTTCGATGAAGTTCTGAGATACTGAAATGTGAAAAGAG
CAATCAGAATTGTGCTTTTTCTCCCCTCCTCTATTCTTTTAGGGAATAATATTCAATACACAGTACTTCTCCTCC
AGCATTGCTACTGCTCAGCTTCTTCTTTTATTCTAATCCTTGCTATTAAGAATTTAAGACTTGTGCTTACAATAT
TTTTGACCTGGAGTGGATCTATTTACATAGTCATTTAGGATCCATGCAGCTTTTTTTGTCTTTTTTAAGATTATTG
GCTCATAAGCATATGTATACTGGTTTATGGAACCTTATTTTACACTCCTCTATCATGCAAAAAAATTTGACTTTT
TAGTACTAAGCTTAATTTTAAAAACAAAATCTGTAGGGTTGACAAATAAATAGTTGCTCTTCTACACTAGGGGT
TTCACCTGCAGGTTTGACACGCAGTTGCTCGCTTTTCTGCCCTGTCAAGCTTCTCTGTTCTGGCGTGAGTTGTG
AAAGAGTTGAAGACAGCTTCCCATGCCGTACACAGCCAGTAGCCTAAATCTCCAGTACTTGAGCTGACCATTGA
ACTAGGGCAAGTCTTAAATGTGTACATGTAGTTGAATTTCAAGTCTTACGGGTAAACAGATTGAGCATGGCTCTC
TATTCCCTCAGCCTAAGAAACACTCATGGGAATGCATTTGGCAACCCCAAGGAACCATTGCTTAAACCTGGAACA
TCTCACCTTTTTAAATCCTAAAAACACTGGCAGTTATATTTTAAATTAGTTTTTATTTTTATGATGGTTTTATC
AAAAGACTTTTATTATTAGATTGGGACCCCTTCAAACCTAAAAATCAAGTTATTTCTTTTTATAATACTTTTCT
TCCCCATGGAACAAATGGGATCAATTTGTGAGTTTTTCTTTAATGATAACTAAAATCCCTCTAATTTCTCATT
TATGCTTTTGTCTTTTTTATGAAATATTTCTTTTAAAGCCCCAGTCTCACCTACGAAATATGAAGAGCAAAAGC
TGATTTTGTCTTACTTGCTAAACTGTTGGGAAAGCTCTGTAGAGCATGGTTCCAGTGAGGCCAAGATTGAAATTTG
ATACTAAAAAGGCCACCTAGCTTTTTTGAGATAACAAACAAGAAGCTATCCAAGACTCAGATGATGCCAGCTG
TCTCCACGTGTGTATTATGGTTTACCAGGGGAACTGGCAAAAAGTGTGTGTGGGGAGGGGAAGGGTGTGTGAGT
GGTCTGAGCAATAACTACAGGGTGCCCATACCACTCAAGAAGACACTTCACGTATTCTGTATCAAATTCAA

3402/5332

FIGURE 2971B

TAATCTTAAACAATTTGTGTAGAAGTCCACAGACATCTTCAACCACCTTTTAGGCTGCATATGGATTGCCAAGT
CAGCATATGAGGAATTAAAGACATTGTTTTAAAAAAAAAAAAATCATTTAGATGCACCTTTTGTGTGTTCTTTA
AATAAATCCAAAAAAATGTG

3403/5332
FIGURE 2972

CGCCACCAATGGTGTGCGTGAACGTCCTGGCCGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGCCAAACG
CCCAGTGCTTATTAGGCCGTGCTCCAAACTCATCGTCCGGTTTCTCACTGTGATGATGAAGCATGGTTACATTGG
CGAATTTGAAATCATTGATGATCGCAGAGCTGGGAAAATTGTTGCGAACCTCACAGGCAGGCTAAACAAGTGTGG
AGTGATCAGCCCCAGATTCGGTGTGCAACTCAAAGATCTAGAAAATGGCAGAATAATCTGCTTCCATCCCACCAG
TTTGGTTTCATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGAAGCAAGACGAAAACACACAGGAGGG
AAAATCCTGGGATTCTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGTCTCATGGAAAAAAAAGAAA
AAAGACAGGAAAAAAAAAAAAAAAAAAAAAAT

3404/5332
FIGURE 2973

GCGGCGTGAGAAGCCATGAGCAGCAAAGTCTCTCGCGACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACGGG
AACCAGCGCAAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGATCCCCAGAAG
GACAAGCGCTTCTCGGGCACCGTCAGGCTTAAGTCCACTCCCCGCCCTAAGTTCTCTGTGTGTGTCTCTGGGGGAC
CAGCAGCACTGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAACAAG
AATAAAAACTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATT
CCACGAATCCTCGGCCCAGGTTTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTG
GCCAAAGTGGATGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGT
CACGTGAAGATGACAGACGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCAATTGCTCAAG
AAAACTGGCAGAATGTCCGGGCCTTATATATCAAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACA
TTTGAATAAATTCTATTACCAGTTC

3405/5332
FIGURE 2974

GAATTCTGCGGAGCCTGCGGGACGGCGCGGTGGCGCCGTAGGCAGCCGGGACAGTGTGTACAGTGTGTTTGGGC
ATGCACGTGATACTCACACAGTGGCTTCTGCTCACCAACAGATGAAGACAGATGCACCAACGAGGGTCTGGAATG
GTCTGGAGTGGTCTGGAAAGCAGGGTCAGATACCCCTGGAAAACCTGAAGCCCGTGGAGCAGTGATCTCTACAGGA
CTGCTTCAAGGCTGATGGGAACCACCTGTAGAGGTCCATCTGCGTTTCAGACCCAGACGATGCCAGAGCTATGAC
TGGGCCTGCAGGTGTGGCGCCGAGGGGAGATCAGCCATGGAGCAGCCACAGGAGGAAGCCCTGAGGTCCGGGAA
GAGGAGGAGAAAGAGGAAGTGGCAGAGGCAGAAAGGAGCCCCAGAGCTCAATGGGGGACCACAGCATGCACTTCCT
TCCAGCAGCTACACAGACCTCTCCCGGAGCTCCTCGCCACCCTCACTGCTGGACCAACTGCAGATGGGCTGTGAC
GGGGCCTCATGCGGCAGCCTCAACATGGAGTGCCGGGTGTGCGGGGACAAGGCATCGGGCTTCCACTACGGTGT
CATGCATGTGAGGGGTGCAAGGGCTTCTTCCGTCGTACGATCCGCATGAAGCTGGAGTACGAGAAGTGTGAGCGC
AGTGTCAAGATTGAGAAGAAGCAACCGCAACAAGTGCCAGTACTGCCGCTTCCAGAAGTGCCTGGCACTGGGCTG
TCACACAACGCTATCCGTTTTGGTTCGGATGCCGGAGGCTGAGAAGAGGAAGCTGGTGGCAGGGCTGACTGCAAA
GAGGGGAGCCAGTACAACCCACAGGTGGCCGACCTGAAGGCCCTTCTCCAAGCACATCTACAATGCCCTACCTGAAA
AACTTCAACATGACCAAAAAGAAGGCCCGCAGCATCCTCACCGCAAAGCCAGCCACACGGCGCCCTTTGTGATC
CACGACATCGAGACATTGTGGCAGGCAGAGAAGGGGCTGGTGTGGAAGCAGTTGGTGAATGGCCTGCCTCCCTAC
AAGGAGATCAGCGTGACGCTTCTACCGCTGCCAGTGACCCACAGTGGAGACCGTGCAGGAGCTCACTGAGTTC
GCCAAGAGCATCCCCAGCTTCAGCAGCCTCTTCTCAACGACCAGGTTACCTTCTCAAGTATGGCGTGCACGAG
GCCATCTTCGCCATGCTGGCCTCTATCGTCAACAAGGACGGGCTGCTGGTAGCCAACGGCAGTGGCTTTGTACCC
CGTGAGTTCCTGCGCAGCCTCCGCAAACCTTCAGTGATATCATTGAGCCTAAGTTTGAATTTGCTGTCAAGTTC
AACGCCCTGGAACCTTGATGACAGTGACCTGGCCCTATTCTGCGGCCATCATTCTGTGTGGAGACCGGCCAGGC
CTCATGAACGTTCCACGGGTGGAGGCTATCCAGGACACCATCCTGCGTGCCCTCGAATTCACCTGCAGGCCAAC
CACCTGATGCCCAGTACCTCTTCCCAAGCTGCTGCAGAAAGTGGCTGACCTGCGGCACTGGTCAACCGAGCAC
GCCCAGATGATGCAGCGGATCAAGAAGACCGAAACCGAGACCTCGCTGCACCCTCTGCTCCAGGAGATCTACAAG
GACATGTACTAAAGCGCGGCACCCAGGCCTCCCTGCAGACTCCAATGGGGCCAGCACTGGAGGGGGCCACCCACAT
GACTTTTCCATTGACCAGCTCTCTTCCCTGTCTTTGTTGCTCCCTCTTTCTCAGTTCCTCTTTCTTTTCTAATTC
CTGTTGCTCTGTTTCTTCTTTCTGTAGGTTTCTCTCTTCCCTTCTCCCTTGCCCTCCCTTTCTCTCTCCACCCC
CCACGCTCTGCTCCTCTTTCTTATTCTGTGAGATGTTTTGTATTATTTACCAGCAGCATAGAACAGGACCTCTGC
TTTTGCACACCTTTTCCCAGGAGCAGAAGAGAGTGGGGCTGCCCTCTGCCCCATCATTGCACCTGCAGGCTTA
GGTCTCACTTCTGTCTCTTCTTTCAGAGCAAAAGACTTGAGCCATCCAAAGAAACATAAGCTCTCTGGGCCT
GGGTCCAGGGAAGGCTAAGCATGGCTGGACTGACTGCAGCCCCCTATAGTCATGGGGTCCCTGCTGCAAAGGA
CAGTGGGCAGGAGGCCCCAGGCTGAGAGCCAGATGCCTCCCCAAGACTGTCATTGCCCTCCGATGCTGAGGCCA
CCCACTGACCCAACTGATCCTGCTCCAGCAGCACACCTCAGCCCCACTGACACCCAGTGTCTTCCATCTTCACA
CTGGTTTGGCAGGCCAATGTTGCTGATGGCCCCCTCCAGCACACACATAAGCACTGAAATCACTTTACCTGCAG
GCTCCATGCACCTCCCTTCCCTCCCTGAGGCAGGTGAGAACCAGAGAGAGGGGCTGCAGGTGAGCAGGCAGGG
CTGGGCCAGGTCTCCGGGGAGGCAGGGGTCTGCAAGTCTGGTGGGTGAGCCAGCACCTGCTCCAGTGGGAG
CTTCCCGGGATAAACTGAGCCTGTTTCTGATGTCCATTTGTCCCAATAGCTCTACTGCCCTCCCTTCCCTT
TACTCAGCCCAGCTGGCCACCTAGAAGTCTCCCTGCACAGCCTCTAGTGTCCGGGACCTTGTGGGACCAGTCC
CACACCGCTGGTCCCTGCCCTCCCTGCTCCAGGTTGAGGTGCGCTCACCTCAGAGCAGGGCCAAAGCACAGCT
GGGCATGCCATGTCTGAGCGGCGCAGAGCCCTCCAGGCCTGCAGGGCAAGGGGCTGGCTGGAGTCTCAGAGCAC
AGAGGTAGGAGAACTGGGGTTCAAGCCAGGCTTCTGGGTCTGCTGCTCCTCCCTCCCAAGGAGCCATTCTG
TGTGTGACTCTGGGTGGAAGTGCCAGCCCTGCCCCCTACGGGCGCTGCAGCCTCCCTTCCATGCCCCAGGATCA
CTCTCTGCTGGCAGGATTCTTCCCGCTCCCCACCTACCCAGCTGATGGGGGTTGGGGTGCTTCCCTTTCAGGCCAA
GGCTATGAAGGGACAGCTGCTGGGACCCACCTCCCCCTCCCCGGCCACATGCCGCGTCCCTGCCCGGACCCGGGT
CTGGTGTGAGGATACAGCTCTTCTCAGTGTCTGAACAATCTCCAAAATTGAAATGTATATTTTGTAGGAGCC
CCAGCTTCTGTGTTTTAATATAAATAGTGTACACAGACTGACGAACTTTAAATAAATGGGAATTAAATATTT
AA

3406/5332
FIGURE 2975

ATGGCCCTGCGCAAGGAAGTCTCAAGTCCATCTGGTACGCCCTTTACCGCGCTGGACGTGGAGAAGAGTGGCAAA
GTCTCCAAGTCCCAGCTCAAGGTGCTGTCCCAACCTGTACACGGTCCTGCACATCCCCCATGACCCCGTGGCC
CTGGAGGAACACTTCCGAGATGATGATGACGGCCCTGTGTCCAGCCAGGGATACATGCCCTACCTCAACAAGTAC
ATCCTGGACAAGGTGGAGGAGGGGGCTTTTGTTAAAGAGCACTTTGATGAGCTGTGCTGGACGCTGACGGCCAAG
AAGAAGTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGATGCCTTCCGCCCTCTGGTGCCTCTTC
AACTTCCTGTCTGAGGACAAGTACCTCTGATCATGGTTCCCTGATGAGGTGGAATACCTGCTGAAAAAGGTACTC
AGCAGCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCAGGAGGCCAGGTGGCCAGACC
ACCGGGGGGCTCAGCGTCTGGCAGTTCTGGAGCTCTTCAATTCGGGCGGCTGCCTGCGGGGCGTGGGCGGGAC
ACCCTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCATCCAAGATGTCTGAAGCAGGGCTACCTGTGGAAG
CGAGGGCACCTGAGAAGGAAGTGGGCCGAACGCTGGTTCCAGCTGCAGCCCAGCTGCCTCTGCTACTTTGGGAGT
GAAGAGTGCAAAGAGAAAAAGGGCATTATCCCGCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCGCGAC
GGAAAGCGCTGCATGTTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCCTCAGACACGCGCCAGCGC
CAGGAGTGGACAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTG
AAGCAGAAACGCGCGAGCAGCGGGAGCAGCGGGAGCGGCGCCGGCGGCCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGGCCGAG
CGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGAGCCAGCACCAGCTGCAGCAGGCGCTCGAGGGCCAAGT
CGCGAGGCGGAGCAGGCCCGGGCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAGGCTGCCCGGCAGCGG
CAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGGTTGCAGGAGGCCCTGCAACTAGAGGTGAAAGCTCGGCGA
GATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGAAGAGAAGCTGAAGCAGTTGATGCAG
CTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAGAAGGAAGAGCTGCAGCAGGAGATGGCACAG
CAGAGCCGCTCCCTGCAGCAGGCCAGCAGCAGCTGGAGGAGGTGCGGCAGAACCGGCAGAGGGCTGACGAGGAT
GTGGAGGCTGCCAGAGAAAAGTGCAGCAGGCCAGCACCAACGTGAAACACTGGAATGTCCAGATGAACCGGCTG
ATGCATCCAATTGAGCCTGGAGATAAGCGTCCGGTCACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTCTGCTT
GCCCACCGTGAATCTCCCTAAAGCGCCTGACCCGCTGGGGATCCCAGGGCAACAGGACCCCTCGCCCAACAGC
AATGAGCAGCAGAAGTCCCTCAATGGTGGGGATGAGGCTCCTGCCCCGGCTTCCACCCCTCAGGAAGATAAACTG
GATCCAGCACCAGAAAATTAG

3407/5332
FIGURE 2976

GGGCGGGGCTCCGAAGAGCTCGGTTTCAGATCCCGGCCGCTGGGCTCCAGGAGCCCCGGAACCAGGATAAGTTGG
ATGGCTGCCGCGCGGAAGCGGGGGGGGGTGGACCGTGCCCGGTATTTTCTATACGGGTTCGGGGGCCCGGTAG
AGGCGCGCCAAGAGGAAAGGAAAGTGCGGCGGCCCTGGAACCTGGATATCGCGCGAGATTTGTGACCCAGAAGGA
AATCTCTGACCTCAGCTGTGGCTCTTGGTGCTGGCCAGAAGCCAACTTCATGTCTGAGTGCACGAGCAGCAGTTT
GCCATGGAGAGCTTGGGGCTGCACACGGTGACCCTTAGTGATGGGACAACAGCCTACGTCCAGCAAGCTGTCAA
GGAGAGAAGCTTCTTGAAGGGCAGGTGATCCAGCTCGAGGATGGGACCACCGCATAACATTACCAGGTGACGGTA
CAGAAAGAAGCTCTCTCCTTTGAGGATGGTCAGCCTGTGCAGCTGGAAGATGGCAGCATGGCTTACATACACCGC
ACACCCAGAGAAGGCTATGACCCAGCACCCCTGGAAGCCGTCCAACCTGGAAGATGGCTCCACTGCCTACATTAC
CACCTGTGGCTGTGCCATCGGAGAGCACCATCTGGCCGTACAGACAGAGGTGGGCTTGAGGACCTGGCAGCA
GAGGATGATGAGGGCTTCAGTGCAGACGCAGTGGTGGCCCTGGAGCAGTATGCCAGCAAGGTTCTTCATGACAGC
CAGATTCGCCGTAATGGAAGGGCAGCAAGTTGGAGACAGAGCATTCCGCTGTGGCTACAAGGGCTGTGGGCGT
CTCTACACCACCGCTCATCACTTAAAGGTGCATGAACGAGCTCATACAGGTGACCGTCCATACAGATGTGACTTC
CCCAGCTGTGAAAGGCCTTTGCCACAGGCTATGGACTGAAGAGCCACGTTTCGTACCCACACTGGTGAGAAACCA
TACAAGTGCCAGAGGAGCTGTGCAGCAAGGCCTTCAAGACCTCAGGAGACCTGCAGAAGCATGTCCGTACCCAC
ACTGGTGAACGCCCCGTTCCAGTGCCCTTTGAGGGCTGTGGCCGCTCCTTCACCACATCTAACATCCGCAAGGTA
CATGTGCGCACCCACACAGGCGAGAGGCCCTACACCTGCCCGAGCCCCACTGTGGCCGCGGCTTCACCAGCGCC
ACCAACTATAAGAATCACGTGCGCATCCACACAGGGGAGAAGCCATACGTTTGACGGTGCCAGGCTGCGGGAAA
CGCTTACCAGGAGTACTCGAGCTTGTATAAGCACACGTTGGTGACACACACTGCAAGCCCTACACCTGCAGCACC
TGCGGCAAGACCTACCGGCAGACCTCCACCTTGGCCATGCACAAGCGCAGTGCCACGCGGAGCTGGAGGCCACG
GAGGAGAGCGAGCAGGCCCTCTATGAGCAGCAGCAACTTGAGGCCGCTCTGCAGCCGAGGAGAGTCCGCCACCC
AAACGACCCCGGATAGCTTACCTTTGCGAGGTGAAGGAAGAGAGATGACATCCAGCCAGGTGGCGATGGTG
ACTGAAGAAGATGGGGCCCCCAGGTGGCTCTGATCACTCAGGATGGTGCCAGCAGGTGAGCCTGTCCCCGAA
GACCTGCAGGCCCTGGGGAGTGCCATCAGTATGGTCACCCAGCAGCGGCAGCACCACCTCACCATCCCCAGTCCT
GATGCCGACCTGGCCACATCTGGCACACATACAGTCACCATGGTCAGCGCCGATGGCACCCAGACGCAGCCCGTC
ACAAATCATTACCTCTGGGGCTGTGGTGGCTGAGGACTCAAGTGATAGCATCTCTTCGTATCAACAGGTGGCACTG
TTGGCCACAGCCAACGGAACGCACATTGCAAGTGACGCTGGAGGAACAGCAGACCTTAGAGGAGGCCATCAATGTG
GCCACTGCGGCCATGCAGCAAGGGCTGTGACCCTGGAGACAACAGTGTCGGAGAGTGGCTGTGAGTCCAAGAG
GGCTGGGTCCACACCATGTGAGGAAGTGCCATCTGCATGGCCACTCTTGCCCCAAGGGCCAGGCTGTGGC
TGACACATAGAAGGTGGCCACATAGGTCTCTGGGGTGAGAAGACAGCAAGAAAAGTGCCTAACTGAAGGGAATGG
GGGCCCTGCTCAAGAAGGGGGCCAGGCAGCTGGAATCAGGGGAGTGATCATCTCCTCGGGAGCTGACAACAGCCAG
GCTACACCAGGGCACCCGCTCTCAAATCAGCTGGGCGCCCACTCTCCTCTAAAGAACCCCTTCTGGCCCTC
AGTCTGTTCCCCCTTCTCAGGTAGAGATTGGGGCTGCTATGGGGACTGGCCCTGTAGGGTTGAGCCACAGACAGCT
CTCAGCCCAGTAGCAGTGGAGCAGGCCCTGTCTGCCCCTCCAGCAATAACCACCTCCCTGGAGGCCAGCTGAG
ATGCTGGCTACTTGGCACCAGGGACTTCTGACACCACAGTCAATTAATTCCTCAGGGGCTGTGGCTGAAGAA
AAGGTGCCCAGCCCCACCACTCCTCAGCTGCCCCCAACCTCTCTATGGCAGAGAGGCAGGGAGTGGCCCTGTA
CATAGACTGCTGGGGATTGGGTTTGATTTGTTTTGTTTTTTTAAATTCATTGATAATTTTTTCTGCTCTG
GGTGGTGGTGGCACATGGATGAATGAGTATTTAATAAAAGTTCCAAATTC

3408/5332
FIGURE 2977A

GGGAAGCGCGCCGCGCACCTCATGGTTCCGGGGACAGTTAGGGCGGCGGATGGAGGTCAGCGGTGGTGCTCGCTG
CGGTTTGGAAATCACTTGGCTAGGAGTCTTGCTCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAGCGA
TGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCCTGG
GTAGCCCATAGACTCTGACTTCCCTCAGCCACCTCACCAATTTCCACCTCCCAGGTTCTTGATGGAGCCGGTG
GAGAAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAG
GAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCT
CACTTGTGTCTGAGAAGCCAGAAGATAAAGGCTTGCTCATACAGGATGCCCACCTTTCATCAACTTCTCTGTCTG
CTCAACAGTCAGATTGCCTCGGTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATC
CCCAAGGCCCTCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCAC
CTGGCCTTCTGGCAGAGTCCGTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTC
ACACACCTGGAAAGGCGTTGGACAGAAATTGAAGATTCCACACATTAGTGACCGTCATGATGAAGGTGGGACAC
CTCTCGGAGCCACTAATGAACCGCTTGAAGACAAGCACGTCTTGAACAGAGCGCAGGACATCACCTGCCCCAC
CTGTGCAGCGTACTTCTGGCTTTTGGCGCTCTGAACCTCCATCCAGACCAAGAGGATCAGTTCTTACGCCCTGGTA
CATGAGAAGCTGGGGTCAGAGCTGCCAGGCCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGTGGGCCCTGTGTGTG
CTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGTCCTCCACCCTGAATTTACATCCAATTTCTAGGGGGCAAG
TCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTAC
TCGGGTCCCTTCTGCCTGCCTCGGCTGTGGCCCCCTGGGCCCTCAGCCCTTGACAGGAAGGTGACCCCCCTGCAA
AAGGAGCTGCAGGAGACGCTGAAGGGCTGCTGGGGAGCGCCGACAAGGGCAGCCTCGAGGTGGCCACGCAGTAT
GGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGTGACGGCAGTTTCTGCCCGTAAGGGACTTTGTGGCACCT
CACCTTGCCCAGCCAACCTGGGAGCCAGTCACCACCTCCAGGTCTAAGAGGCTAGCGTTCTTGGCGTGGGAGTTC
CCCAACTTCAACAGCCGAAGCAAGGACTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGCTGCAGGC
TTCCTGATAGTGGACGTCCATTCTATGAGTGGCTGGAACCTCAAGTCTGAATGGCAGAAAGGCGCCTACCTCAAG
GACAAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAGTGACTTGTGCCAGCAGCATGGACTGCGTGCCTCTCC
GCCGGAGGTCTAGCTGTGGGCGGCCAAGAAGGGTACCCCTTGAAGACAAACCTCTGTGCAGGACCTTGGCCAGAG
TGGGGAGGGTGGCCAGCCACTCTGAGGGACAGAACGTCCTCTTGTTGTATAATAAACCTTTAATTTTGGTGTGGGA
CCCCCTGGGGCCTTCCCAGGCTTGGTCACCCCTCTGCACTGTGAGCACTTGTCTGTCTGCTTTGTTGAGCAGGGCGT
GGTTCTCCAGTCTGCCCTGTGCACTCCCCCGCCACGCCCAGCCCAAGAGGGCTGCTTTAGGGACAGACCTGGGT
GTTACCTGCCTGTCTCTCCAGCTTCTTCCCTCCATGAGTGCTTATTCACATATGCCGGCCTCTTGCGTAGGGGT
CTGTATCAGCCCCAGCAGGCAGGTGGAGTCTTAGAATTCTGAACCTCCAGAGCAGAGGAGCTTCCCAGGGAAGCT
GATTGGAGATTCAGTGCACTGGCTGGGGTCTGATGGAGCTGTGGCTACTGAACCACAGCCATCCTGGGAGGCTT
TCTCCCATCAGTTGTCTCACACTTAGCTGAGTGAAGGCACCTGACAGCATGTGGTGACAGGTGATGTAGGGC
TGGTGTAGCACTTGGGAGGCGCTGGCTCTGGGAGAGGAGAAGATCCCACTTGGCTGACACCACGGCACCAAGAGC
CAAACCTCCATCGTTGTCTTACCACCTTGACCAGAGCCTTGTGCTGTCTATAGGAACCTGGCTGCCCAAACAGGA
CCCTGGCAGCCTCCCTGCTGCTGCGGGATTACCAGGTGCTGGGAGGCAACAAGCTTTCTACCTTCCAGCCTCTC
CTTAGAGACACCTATTGGCAGAACCTGACTAAATAGCAGTCAGGGAACCTGGGTGCTCCAGCCATACAGAACAG
AGAGTAGGACAGTGGGGTGGAGCTGAGATGGAGAGGCCACAGCCCTCAGCACTGTAGGCTCCCAACCTAGGCT
GTTTCCCCAAAAAGAAAAGTCTAGTCACTGCTCTGATGCTTGGCCACTCACCAAGCATTGGGGTAGTTTGTGC
TGGCTTCACTGGGCACCATCAGGCACACCCAGCCTGTAGTTTTTGTATATTACCTAAGTCGGCCAGGTGTGG
TGGGATCAGCCTGTAATCCCAGCACTTAGGGAGGCTGGGGCGGCGAATCGCCTGAGGCCAGGAATTCAGACC
AACCTGGCCAACATTGTGAAACCCTGTCTCTACTAAAAATATAAAATTAGTCGGGCATGATGACAGGCACCTGT
AATCCCAGCTACTCAGGAGGCTGAGGCAGGTGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGTTAAGAT
TGTGCCACTGCACTCCAGCCTGGGTAAACAGAGCAAGACTCTGTCTCAAAAAATATATATGTGTGTGTGTGTGT
GTATATATATGTACATGTGTATATAAGTATATATGTGTGTATATATGTATATATACAGTATATACACACACACC
CCTAAGTCATGATTTTGGAGCAATTGTAAGTGGTGTAGTGCTTAATTTTGGCATTACACATTGATTGTTAGCAT
ATAGAAATGGGATTGATTTTATGTGATCTTGCTAAACTTTATGCATTTTAAATTCCTTTGGATTTCCTATGT
AGATATTTATGTCCTGAAAACAGGAATGATTTATCCTTTCAATCAATATGCTTTTTATTTTGTATTTATGAC
CACTTCATTAAATATAATTACATGCCATACACTTCACCCATTTAAATGTATAATTAGGCCAGGTGTGGTGGC
TCACGTCTGTAATCCAGCAGTTTGGGAGGCCAAGGCCCTCAGATCTTGAGCCAGGAGTTCAAGACCACCTGG

3409/5332
FIGURE 2977B

GCAACAGGCAAAACCCTGTCTCTATTTTTTAAAATACAAGAATTAGCCGCAGTGGCACGCACCTGTCTCGTCCCAGC
AACCCAGGAGGCTGAGGTAGGAGGATCACTTAAGCCTGGGAAGTCAAGCCTGCAGTGAACCATGATAGCACCCT
GCAGTCCAGCCTGGGCGACAGAGTGAGACCCCATCTCGAAAACAAAAATGTATAATTCAGTGGTTTTTAGTCTCT
TTGCAGATACATGCAACCATCACCACAATTTGCACATTTTCTAAGCCTCATATACTGATGTGATATTTGGTGTT
TTGTGACTGGCTTCATTTACTTAGCATATTGTTTTCATGTTTCATTCATGTGCGCATGTATGAGTATTCATTCCTT
TATTTGGCTGAATAATATTCCATTATAGTTTGTGCCACATTTTGTTTATCCATTCATCCATTGATGGACATGTGG
ATTGTTTCCACCTTCTGGATAATATGAAGTATGACAGTTTGGATATTTGTCCCCTCCAAATCTCATGAAATAGG
ATCACCAGTGTGGAGAATGGGGCCTGTAGGAAGTGTTTGGATCATAGGAACATCTGTCATAAATGGCTTGGTG
CCATCCTTGAATGAGTGAGTTCTTGCTCTATATTAGTTCACTTGAAAGCTGGTTGTTGGGAACCTCGCCCTAT
CTGTTCTGCCCTCTCTCGTCATGTGACATGCCTGCTCCTTGTTACCTTCTGTCATGAGTAAAAGCTTCCTAAGG
CCTTCCAGGAGCCAAGCAGATGTCAGTACCATGCTTGTACAGCCTGCAGAACTGTGAGCCAAATAAACTTCTTT
ATAAATT

3410/5332
FIGURE 2978

TTCGGGCCCCGGCTGGCGGGCGGCGCCGGGAGCGCGGGGGCGGCGGGCCCCGGGTGAGCATGTAGCGGCTGCTGGC
GGCGGGGCTCCCGGGGCGGGCCGGGCGGGCCGCGGGAGCCGCACGCGCGATATGGAAGAGGAGGGCAAGAAGGG
CAAGAAGCCTGGAATTGTCTCGCCATTTAAACGAGTATTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCCA
TGAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTGGTGTGTGTCATTGCCTGAGCGCGTCGAGCCAGACAGACT
GCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTAGGTGAGTTAACGTCCATACCAGGATACCTGAATCCCTC
CAGTAGGACTGAAATCCTGCAATTTATAGACAATGCAAAGAGAGCCCACCAGCTTCCGGGACACTTGACTCAGGA
GCACGATGCTGTGCTCAGCCTGTCTGCGTACAACGTCAAGCTGGCCTGGAGGGACGGGGAGGATATCATCCTCAG
GGTGCCCATCCATGACATCGCCGCCGTCTCCTATGTTGCGGATGACGCTGCACACCTGGTGGTCTGAAAGACAGC
CCAGGACCCAGGGATCTCCCCAGCCAGAGTCTGTGTGCGGAAAGTTCCAGAGGCTCAGTGCAGGCTCCCTGTC
GGAGAGTGCAGTTGGGCCCGTGGAGGCATGCTGCCCTGGTTCATCCTGGCTGCAGAGAGCAAGGTCGCTGCGGAGGA
GCTTTGTGTGTCTGCTAGGCCAGGTCTTCCAGTTGTTTACACGGAGTCCACCATCGACTTTCTGGACAGAGCGAT
ATTTGATGGGGCCTCTACCCCGACCCACCACCTGTCCCTGCACAGCGCCAGCCACCTGACCTCTTCCACAGTCAC
ATCTTCCTTTGACTGTCAGCTTCCTCTGCATTTTCAGGACTCTTGCAATCACATTGAGCCCCACCCAAATTCTCCAG
GGTCATCTCCCTATTTCAAGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCAC
TTTCTGCTTCCCTGAATCTGTGGATGTGGGTGGTGCATACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAG
CGCCAGCGCCACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTCATCACAGGAGATCCAGCA
GTTTGCAGCACTGCTGCACGAGTACCGCAATGGGGCCTCTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTA
CGGGGACAGCCGCAAGTTCTGCTGCTTGGTCTGAGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAA
CTTCCTGGAGACCATTGGCGTGAAGGATGGCCGCGGCATCATCACTGACAGCTTTGGCAGGCACCGGCGGGCCCT
GAGCACCATCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCTCAGA
GGGGGATGAGTGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGA
CTCAGCATGATGGACAGTGGATGGGGGGGCACCCACACCTTCCGCGCAGTCGTCATAGGCCTTCCCAGAAGGAGC
TGCCAGACCTGCGTGTGAGCCCTTGGTGGTGGCCAGGGAGAGGCGCCCGGTGCAGATGGCCCCGGGCGGGCCAG
GTCCTCTACTGTGAAGGAGCAGGGAGCTGCCGAGGGACACGAGCCTCAGTGCGGGGTGAAGGCTCTTTCCTTG
TCCACCAGGGCTCAGCCAAGCCCTGCACTGTGTCCCCGCTCGGGGAGGGCCCGCCGAGCGGGCAGGGAGAGCCA
GTCCTGTGCGCTGGGCCCTTGACGGCTGTGAGTTTGCACATGATGTTTCCTATTGTAACCTCTCAGAGACCTTAA
AAAGAAGTTTACTGCAATGTGAATAATT

3411/5332
FIGURE 2979

TCCACTGAGTTGACACGCAGACGCAGCCTCAGGACCCTAAACTCTACGCCCCAGCACACCCTACCAAGCGAGCGC
CCGCGGCCGCGTGACGTCATCTACCCCAAACGCTGTGGCCCCGGCCACGCACGGCTTCGGGGCGGGACTACGCGG
TGACGTCGAGGTGCGCGGCGCAGCGCGCGGCGTCAGTCTTGGCTGGCAGACCTGTACTCCGTACTCCGTACTTCG
TAGTCGCAGCGCGCGGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCCACGTGTTGCCTGACCATT
CTGAGCCCAGGTGGGAGCCGTGGCTGAGGTGACGGTCTCAAAGTGGAAGAGCTTACTGTACAGCAACTCCTTTG
CAAGATGCCCCGGCCAGGAATAGTTGCTGAACACCCAGGCCTGCTGAGGTCCCTCCTTGAGTCTCATGTTCAAG
CAGTCTTGTGAGTAAAGCACTGGCTACCCCTTTTCACTTACTATCTTTTCAAGCATGTTCTACCACCTTGAAGG
TAAGAGGTTAGTACCTTCTTCCAGAGCAGAGGGCAGGCATTCTTGCTGTGCGTTGTGAAAGGGTAGAGTCTGCG
CTCCTTTCTTGTAGTAGTCCAATGGCTCATGACAGGTGCCTCTGACTCCCCTATGGGAAGTGGGGCTTGGGAGGGT
GGTGGAAAATGCTGATGCTCTGGCTATTGCTATTGTTTTGAATAATCAGTGGTCCCTTGTCCTAATCGAGGAAT
TTTGTATTTTCTACCAGTGTCCATGAAACTGGGAGGCGACCGTGTAGCTGCCAGTTCCTGACAGCCACCTCTCA
CCAGTGGCTTCACTCTGTGTCCCTGACCCAGCACATGGCACAAAGAGTGCCTGCCATCCGTGAGTGTCTTCTACAGC
AGCAATCCCAAGATGCTGGAGCTAGAGGGGACCTGACCTGAGAGAAGATACTTCAGTGGGTGCCAGGCTGTTCC
TTGGAACCTGTGCAGGGGTAAGTGTGCAGGAAGGTCTGACCTGGCAAGTCACTTCACTCCTGTTTTATTTAGAGT
CACCTGGCTAATGAAAAGTATTTTGACCTTCCCGTATGGTAAGTCAGGTGATTGAATCCCAGAAAGGTTTATTGT
CTTCAAGCTCACAATACTATTTTGGGACAAACAGTTGTCTAGTGTGTTGGACTCATGAACCCTGATTCTTGAGGGT
GGTATTTTACTGCTTTTGTGATTTGGTTTCAACATATATAGTCTTTTCTCCGAGTTACCTTAGGTCAGTGGCCA
GTGTTTCAGCCCCCTGGAAAGGGCATGGGCTGCCACTGAGGTGGTTCACAGGCCTCTCAGCTCATGGTGGGAGTGG
GTTTCAAGGAGTTGGTAAGTAGGGTTCAGTCTGTGTTGTTGCCACCGATGGCAACAGGGGTTTGTAAATAATCCCTAGT
TGTGTCAATTATGTCACTTAATTTTCAACAGGTCTCTGAAGTGTCTCATCTCATTCTTACAGATGAGGCCT
GCCTGTGTTAATACACCTAGTGAGGAGTGGAGCTGAATTTGAATGCAAGCCTTGGCACCTTAATTGAGCAAGTTT
GAAACCTCGCTTGTGTCCTTCTGGAAGGAGTCAGGAATTTCCAGTCTTGGGCCTGGGCTGTGGGTCTGGCAGAC
AGACCTCTGCCCCTAGGTTTGGGTGCCAGGTTCCTGCTTCCAGAATGAGAAGCTTTGCTGTGCACCAGGACCTG
GGCCTTCTGGTATCTCTGAATGAAAAACAAGGGATATTTAATAAATATGGATTTAAATATG

3412/5332
FIGURE 2980

GCGGAGTCGGCGCCGAGAACATGGCTGGAGGCAAAGCTGGAAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTAT
CTCGCTCACAGAGAGCTGGGCTACAGTTTCCTGTGGGCCGCATCCACAGACACTTGAAGACTCGCACCACAAGCC
ATGGAAGGGTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAGC
TGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTTGCAGCTTGCAATCCGTGGTG
ATGAAGAGTTGGATTCTTTATCAAGGCTACCATAGCTGGGGGTGGTGTGATCCCTCACATCCACAAATCTCTGA
TTGGAAGAAGGGACAGCAGAAAAGTCTTAGAGGGATGCTTTAACCAACCCTCTTCCTCCCCGTCATTGTACTG
TAACTGGGACAGAAGAAATAATGGGGATATGTGGAATTTTAAACAACAGTTAAATGGAAAAGCATAGACAATTAC
TGTAGACATGATAAAAGAAACATTTGTATGTTCTTAGACTCGAAGTTTGA

3413/5332
FIGURE 2981

GTTTTGCAGACGCCACCGCCGAGGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCTTCGACATTG
CCGTCGACGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAAATT
TTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCTTGCTTTCACAGAATTATCCAGGGTTTA
TGTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATG
AGAACTTCATCCTAAAGCATACGGGTCTCTGGCATCTTGTCCATGGCAAATGCTGGACCCAAACACAAATGGTTCCC
AGTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCA
TGAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACT
GTGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGATCATTCTTCTGTAGCTCAGGAGAGCA
CCCCGCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCATGTTT
TCCTTGTTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAATT
GTC

3414/5332
FIGURE 2982

GGACCGGCAGATGAACACCAACTGGCCAGCCTCGGTGCAGGTCAAGTCCACGCCGCTCACCATCGAGCG
TGGCGACAACAAGACCTCGCACAAGCCACTCTACCTGAAGCATGTGTGCCAGCCAGGCCGCAACACCATCCAGAT
CACCGTCACCGCCTGCTGCTGCTCCACCTCTTCGTGCTGCAGCTAGTGCACCGCCCATCCGTCCGCTCGGTGCT
GCAGGGCCTCCTCAAAAAGCGCCTCCTGCCTGCTGAGCACTGCATCACCAGATAAAGCGGAACCTTCAGCAGCGG
CACCATCCCTGGCACCCTGGGCCAACGGAGAGGACGGGGTGGAGCAGACAGCTATCAAGGTGTCCCTGAAGTG
CCCCATCACCTTCCGCAGGATCCAGCTCCCTGCCCGAGGTATGACTGTCGCCACATACAGTGCTTTGACCTGGA
GTCGTACCTGCAGCTCAACTGTGAGCGGGGGACTTGGAGGTGTCTGTGTGCAACAAGACAGCTTTGCTGGAGGG
CCTGGAGGTGGACCAGTACATGCTGGGCATCCTGATTTACATTCAAGACTCTGACTATGAGGAGATCACCATCGA
CCCCACGTGCAGCTGGAAGCCAGTGCCCGTGAAGCCTGACATGCACATCAAGGAGGAGCCGGATGGGCCAGCACT
GAAGCGCTGCCGCACCGTGAGCCCCGCCACGTGCTCATGCCAGCGTGATGGAGATGATCGCCGCCCTGGGGCC
CGGCGCTGCCCCCTTTGCCCCCTGCAGCCCCCTCAGTCCCTGCCCCCAGCGACTACCCTGGCCAGGGTTCCAG
CTTCTGGGGCCTGGAACCTTCCCTGAGTCTTCCACCCACCACGCCCAGCACCCTTGTGAGTTTAC
CCCGGACACCCCCATCTCTACAGTCTGACATTCCAGCAGCCTCTGACTTCAGAGAAGTCTACCGCCTG
CCTCCCAAGCCAGATGGCACCAGCAGGTACCTGGACCCCACTCACAATCCTGGGACACCAGGACTACACACCTC
CAACCTTGGGGCCCTCCAGGTCCCGAGCTGCACCATTCAAACCTTCCCCCAGCGTCCCGGCAGTCTTGGGCCA
AGCGAGCTTAGGACCTACGGGTGAAGTGGCCTTCACTCCTGCCACAGGCGTGATGGGGCCCCCAGCATGTCTGG
AGCCGGGGAGGCCCCAGAACCAGTCTGGACCTGCTCCCGAACTGACCAACCCTGATGAGCTACTGTCTACTT
GGGGCCACCCGACCTCCCTACGAACAACAATGACGACCTGCTTTCTGTGTTGAGAACAACATGATCCTGTGTTA
CCCCAAGCCCGCGGGGACACGCTCACAGATGTACACAGCCCTGCCCTTCATGCCAGCCCCATGGGACACCC
GGTGGTCTTTCCCAAACCTCCCCAAAACACACCTGGAGCCAGAGCCTTCTGCCGCCAGCCCTGCCCTGAATTG
GAAGCAGCCCTGTGCTCGATGGGAGGGGCTCCAGGCCGGCAGCCCTTGCCACCTCCCTCTGCCAAGCCTGCTGC
TGCAGAACGGTTTTTGTGAGGTGCCCTGCCAGCCCTGTCCAGCCTTGTCCACACACACATCTCAGCCCCCTG
GTCTCACAGCCTCACACCTTGTCTTCCACCCCTGCCTGCCCCACCCAGCCTGCTTCTGTCCAGCATTGATCC
TTCTGTTTCAACAACCTCCTCCACTGGGCAGAGCTGGGCATCTGGCAGGGCTGGCTCTGTCCCCTGGGCCTTTGGC
TCCAGTGGCCCTGTGCCAGCAGTCCAGCTCTTGAACCTCGCTGAATGGCAGCCTCTTGGGGGCCTGGAGCTC
TGGCAGCCAGCCGTGTGTGGTGTGAGGTTCTCTCCCCACCCAGCTTCAAGCAGAGGCCTCGGGGTGGGGGAG
CTACAAAGCACAACAATGTACATAGTGTAGAAACACTAACAGCTGGGAGAGGGGAGCCAGCTGTCCAGCCAGCAT
GTTCTGTGTACAGCCCGTCTCCCTGCGCGCTCTGCTCCTTCCCATGTGCAGACAGATCAGGGAGGAACCTCC
AATGGGTGGGGGACAGTGAGCTTCGGCCTGGCCGAGGTGGGTGGGTGGGCTCTCAGATTAGCTCTGTGTAAAGA
TTCTCTAGCGGGCTGCGCTCCCAAGTTCCCTTCTCTGTGAAAGTGAAGAATTAGTACAGCTGTGTTTTTAAAG
CCACCTCTCTGTCTCCACCCATGGGGCCACACCCAGGTGGGGGAGGAGGAAGCCACTGCATCTGTTGGCTCAGG
GCCCCAAGCTGTGCGAGCAGGGCGCTGGGCTGTTGTGTCTCCTGTCTGTGCCGATCTCTATTAAAGGACTCCCT
CTTG

3415/5332
FIGURE 2983A

GCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCTAAGTTGAGGCCATTGACGGCT
TCCCAGACTGTTAAGACATTTTCACAAAACAGACCAGCAGCAGCTAGGACATTTCAACAGATTCCGTGCTATTCT
GCACCTGTTGCTGCTGAGCCCTTTCTCAGTGGGACTAGTTCGAACTATGTGGAGGAGATGTACTGTGCTTGGCTG
GAAAACCCCAAAAGTGATACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCACCGGGCACT
GCCTACCAGAGTCCCCTTCCCCTGAGCCGAGGCTCCCCTGGCTGCTGTGGCCCATGCACAGTCCCCTGGTAGAAGCA
CAGCCCAACGTGGACAAGCTCGTGGAGGACCCTGGCAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGG
CACCATGTAGCACAGCTGGACCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATC
TCATCCACAGACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCACCACC
ACTTTTCATCGGGGACAGGAATCAGCACTTCCCTCTGCGGGAGATCATCCGTGCGCTGGAGATGGCCTACTGCCAG
CATATTGGGGTGGAGTTCATGTTTCATCAATGACCTGGAGCAGTGCAGTGGATCCGGCAGAAAGTTTGAGACCCCT
GGGATCATGCAGTTCACAAATGAGGAGAAACGGACCCTGCTGGCCAGGCTTGTGCGGTCCACCAGGTTTGAGGAG
TTCCTACAGCGGAAGTGGTCCCTCTGAGAAGCGCTTTGGTCTAGAAGGCTGCGAGGTACTGATCCCTGCCCTCAAG
ACCATCTAGTACAACTAGTGTGAGAATGGCGTGGACTACGTGATCATGGGCATGCCACACAGAGGGCGGCTGAAC
GTGCTTGCAAATGTCAATCAGGAAGGAGCTGGAACAGATCTTCTGTCAATTGCAATTCAAAGCTGGAGCGAGCTGAT
GAGGGCTCCGGAGATGTGAAGTACCACCTGGGCATGTATCACCAGCAGGATCAATCGTGTACCCGACAGGAACATT
ACCTTGCTCCTTGGTGGCCAACCCCTTCCACCTTGAGGCCGCTGACCCCGTGGTGTATGGGCAAGACCAAGCCGAA
CAGTTTTACTGTGGCGACACTGAAGGGAAGGATCATGTCCATCCTGTTGCATGGGGATGTGTCATTTGCTGGC
CAGGGCATTGTGTACGAGACCTTCCACCTCAGCGACCTGCCATCCTACACAACCTATGGCACCCTGCACGTGGTC
GTCAACAACCAGATCGGCTTACCACCGACCCTCGGATGGCCCGCTCCTCCCCCTACCCCACTGACGTGGCCGA
GTGGTGAATGCCCCATTTTCCACGTGAACCTCAGATGACCCCGAGGCTGTATGTACGTGTGCAAAGTGGCGGCC
GAGTGGAGGAGCACCTTCCACAAGGACGTGGTGTGCGATTTGGTGTGTACCGGCGCAACGGCCACAACGAGATG
GATGAGCCCATGTTACGCAGCCGCTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTGTTACAGAAGTACGCT
GAGCTGCTGGTGTGCGAGGGTGTGGTCAACCAGCCTGAGTATGAGGAGGAAATTTCCAAGTATGATAAGATCTGT
GAGGAAGCTTTTGCCAGATCTAAAGATGAGAAGATCTTGCACATTAAAGCACTGGCTGGACTTCCCCTGGCCTGGC
TTCTTACCCTGGACGGGCAGCCAGGAGCATGTCTGCCCTCCACGGGTCTGACGGAGGATATTCTGACACAC
ATCGGGAATGTGGCTAGTTCTGTGCCTGTGGAAAACCTTTACTATTTCATGGAGGGCTGAGCCGGATCTTGAAGACT
CGTGGGGAAATGGTGAAGAACCGGACTGTGGACTGGGCTCTAGCGGAGTACATGGCGTTTGGCTCGCTCCTGAAG
GAGGGCATCCACATTCGGCTGAGCGGCCAGGACGTGGAGCGGGGCACATTCAGCCACCGCCACCATGTGCTCCAT
GACCAGAATGTGGACAAGAGAACCTGCATCCCCATGAACATCTCTGGCCCAATCAGGCCCCCTATACTGTGTGC
AACAGTCACTGTCTGAGTACGGCGTGTGGGCTTTGAGCTGGGCTTCGCCATGGCCAGTCTTAATGCCCTGGTC
CTCTGGGAAGCCCAATTTGGTGACTTCCACAACACGGCCAGGTATCATCGACCAAGTTCATCTGCCCGGGACAA
GCCAAGTGGGTGCGGCAGAAATGGCATCGTGTGCTGCTGCCCATGGCATGGAGGGCATGGGTCCAGAACATTCC
TCCGCCCCGCCAGAGCGGTTCTTGAGATGTGCAACGATGACCCAGATGTCTGCCAGACCTTAAAGAAGCCAAC
TTCGACATCAATCAGCTATATGACTGCAATTGGGTTGTTGTCAACTGCTCCACTCCTGGCAACTTCTTCCACGTG
CTACGACGCCAGATCCTGTGCCATTCCGGAAGCCGTTAATTATCTTACCCCCAAATCCCTGTTGCGCCACCCC
GAGGCCAGATCCAGCTTTGATGAGATGCTTCCAGGAACCCACTTCCAGCGGGTATCCCAGAAGATGGCCCTGCA
GCTCAGAACCCAGAAAATGTCAAAAGGCTTCTCTTCTGCACCGGCAAGTGTATTATGACCTCACCCGGGAGCGC
AAAGCACGCGACATGGTGGGGCAGGTGGCCATCACAAGGATTGAGCAGCTGTGCCATTCCCTTTGACCTCCTG
CTGAAGGAGGTGAGAAGTACCCCAATGCTGAGCTGGCCTGGTGCCAGGAGGAGCACAAGAACCAAGGCTACTAT
GACTACGTGAAGCCAAGACTTCGGACCACCATCAGCCGCGCCAAGCCCGTCTGGTATGCCGGCCGGGACCCAGCG
GCTGCTCCAGCCACCGCAACAAGAAGACCCACCTGACGGAGCTGCAGCGCCTCCTGGACACGGCCTTCGACCTG
GACGTCTTCAAGAACTTCTCGTAGATGCTGCCTAGGGTTGCTTGGGCCACTGCCCTCTCCACACCCATGACTGCC
CCTTGCTTCTCAACTAAAGAATAGTGCCTCAGCGCTGCCACACCACCGCCCTCCTCGCTGTGCCACCACCCCTC
CCTCTGCTCTCATAGGAGTTAGGCTGTCTGCTCCCTCCAGTGTCTGGCTGCCCCACAGGCCACACGCTGCCCAGG
CTCTGCTGACTTCTGAGCAGTTTTCCAGGAGGCCGGGGGAGCAGGAGGAGGAAAGGTAGCCCCGAGGGATGTC
CTTGGGGAGGGTTCAGCTCTGGCCACAATCTCCCCACCACTCTACCCACTAGGATAGGAAGTGGGCCTTGTGT
GCTGGCTTCCGCTGTACCCAGCAAGGCACAGGCTCCTGTATTTGAGACTAGGATAGCTTTCATCTTGAGCCTGAG
CCTTAGAATCTGTAGAGGAGCCTGGAGTCGGATCTAGCCATGGCTGGCAGAGGTTCTAGGGTGGGCCCCAGCCG

3416/5332

FIGURE 2983B

TGGCGTGAAGTGAAGATGACCCGGGGCAGCTGGCAGGAGAGAGCCTTGGCCTGACCTGGCACAGAAAGGGCAGCT
TCAGTCTCTGCAGTGTCCATTATCTGCTGTTTCCTTCGAGGGTTCCAGGCTGTGTGTGGGGCCCAAGCATGCCCCA
CCCACCCCTCCTGGGGCCAGGCAGCACCTGGAGCCCACAGAGTCTGTGTGTAGCCAGGAAGCCCCGCTCAGGTAG
CCACCACCGGGGCACTGGCTGCTCTGTCTTGGTCCTGTTAACCCTCCACCTCCTCTCTTGGACTCCCTCCCCACC
CCAACCACTCTTTCTTTCTCCTTTAACCCAATGGAGACTTTCTGATGCATCGTTTTCTTTGCTGTGCCAAAGCAG
GTCAGAAGAGGGAGAGGAGGGGCTGGGGGTGAGGGGCCAGGCCATGGCCAAGGGGCCAGCTGCCCCCTCATTATC
ACTCTGACCTTCACAGGGACAGATCTGATTTATTTATTTTGGTT

3417/5332
FIGURE 2984

CTGAGGCGCGATGGCAGGTGTGCGGGCTGGGCCTCTGCGGGCGATGGGGCGGCAGGCCCTGCTGCTTCTCGCGCT
GTGCGCCACAGGCGCCCAGGGGCTCTACTTCCACATCGGCGAGACCGAGAAGCGCTGTTTCATCGAGGAAATCCC
CGACGAGACCATGGTCATCGGCAACTATCGTACCCAGATGTGGGATAAGCAGAAGGAGGTCTTCCTGCCCTCGAC
CCCTGGCCTGGGCATGCACGTGGAAGTGAAGGACCCCGACGGCAAGGTGGTGCTGTCCCGGCAGTACGGCTCGGA
GGGCGCGCTTACGTTACCTCCACACGCCCCGGTGACCATCAAATCTGTCTGCACTCCAATTCTACCAGGATGGC
TCTCTTCGCTGGTGGCAAACCTGCGGGTGATCTCGACATCCAGGTTGGGGAGCATGCCAACAACTACCCTGAGAT
TGCTGCAAAAGATAAGCTGACGGAGCTACAGCTCCGCGCCCCGCGAGTTGCTTGATCAGGTGGAACAGATTGAGAA
GGAGCAGGATTACCAAAGGTATCGTGAAGAGCGCTCCGACTGACGAGCGAGAGCACCAACCAGAGGGTCCCTATG
GTGGTCCATTGCTCAGACTGTATCCTCATCCTCACTGGCATCTGGCAGATGCGTCACCTCAAGAGCTCTTTGA
GGCCAAGAAGCTGGTG**TAGT**GCCCTCTTTGTATGACCCCTCCCTTTTACCTCATTATTTGGTACTTTCCCCACA
CAGTCCCTTTATCCACCTGGATTTTATAGGGAATAAGTCAACATTGGTTCCATGGCCACAAAC
CATTGAGATGAGGAAATCAGAACTAACCAGGACTCAGTCTGCTTCTTTGCTCGAGTGATTTTCTCTGTTT
TAGGGCTTGTGAGGAATCAGAACTAACCAGGACTCAGTCTGCTTCTTTGCTCGAGTGATTTTCTCTGTTT
TTCATAAATAAGCAAATGAAACTCTCTCATTACCTTCTGCTTTCTCTTTGTCCACTTACGCAGTAGGTGACT
GGCATGTGCCACAGAGCAGGCCCTGCCTCACTGTCTGCTGGTCAGTTCTGGGTTCACTTAATGGCTTTGTGAATG
TAAATAAGGGGCAGGTCTTGGCCCTAGAGGATTGAGATGTTTTCTAAATCTTAGAACTATTTTGGATAAATTA
TATATTTTCTTCTAGTAGAAGTGTTACTGCCTGTAAGTCTGAAATACCAATGCAGTTTCTGCATTCTGGG
TTTTGTTTTCTTTTTTTTTTTTTTTTTTTTTTTTGGAGTTTGTCTTGTGCGCCAGGCTGGAGTGCAATGGCG
TGATCTCAGCTCACTGGCAACATCTGCCTCCCGGGTTCAAATGATTCTCTGCTCAGTCTCCTGAGTAGCTGGG
ATTACAGGTGCCCCGCCACCAGCTCAGCTAATTTTGTATTTTGTAGAGATGGGGTTTTACCATGTTGGCCAG
GCTGGTCTTAGACTCCTGACCTCAGTTGATCCACCTGCCTCAGCCTCTGCATTCACTTTATTCACATATTTTGG
TAACTCCCATGGCAGCTCCTAGGATTTAGCGGTCTGTGGGGCCAGAAAGCAGGCACCAGGGCTGACCTCAAGGCC
GTATCAGAGGGCCAAGCAGAGTTCTTTTGGATACCTGCTTTTATCCACAGGGCCTTAGAGTCAGAGGTAAGGT
AGCAACAGAGCTAGAATGGGGCAATGCACTCTTACCTCCTTCTCACTTTTATTTAAGCTGTGCTAAATGTTTT
CTTCAAGGGAACCAGATTAGTTCTTTACAGAATTTCCAGTGAAATAAAACATGTTGTAATAGCTGTGTTTGAG
ATGAAATAAGAGGTTGTGGGTAGAGGGGAGGCACCTAAAGGAAAAGAGGAAAGGTGCCTGGGCTACCTATGCAGA
TAACCTGGAGTGGACTTCACTGTGGACTCGTGGTACTAAGGCTTGGCCTGGACAGGCAGTCTAGGGGGTATGGGA
ATACACGGTGTGGTTGTTCAACTATTTGCAAAGGTCAACCAATAGACCACATGTTTCGCAAAGTATCATCTGAGG
AAATTAAGTACCTTCTTAGCCCTCTCAGTCATAAATTTGAACAAATTTTAAATACACTTCCCTCATGCCCTCTAT
ATAAACTTAATACCATTAGTTCCCCATTCTTGACATTTATTTTCACTTTTATTATATATTTTATTGAAATATT
TATTAAATTATCTGACCTACAGAACT

3418/5332
FIGURE 2985

TGCTCCCGCTCGCGTCGGTGGCGTTTTTCTGCAGCGCTGCGTGCTGCGCTACTGAGCAGCGCCATGGAGGAET
CTGAAGCACTGGGCTTCGAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTCACCGATCTGGGCTGGTCGC
GACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCTCCTGGCTCGGGCCCGCACGG
GCTCCGGGAAGACGGCCGCTTATGCTATTCCGATGCTGCAGCTGTTGCTCCATAGGAAGGCGACAGGTCCGGTGG
TAGAACAGGCAGTGAGAGGCCTTGTTCTTGTTCCCTACCAAGGAGCTGGCACGGCAAGCACAGTCCATGATTCAGC
AGCTGGCTACCTACTGTGCTCGGGATGTCCGAGTGGCCAATGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAGAG
CTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGGACCCCATCTCGCATATTAAGCCACTTGCAGCAAGACAGCC
TGAAACTTCGTGACTCCCTGGAGCTTTTGGTGGTGGACGAAGCTGACCTTCTTTTTCTTTGGCTTTGAAGAAG
AGCTCAAGAGTCTCCTCTGTCACTTGCCCGGATTACCAGGCTTTTCTCATGTGCTACTTTTAAACGAGGACG
TACAAGCACTCAAGGAGCTGATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCCTGGGCCAG
ACCAGTTACAGCAGTTTCAGGTGGTCTGTGAGACTGAGGAAGACAAATTCCTCTGTGTATGCCCTGTCTCAAGC
TGTCATTGATTTCGGGGCAAGTCTCTGCTCTTTGTCAACACTCTAGAACGGAGTTACCGGCTACGCCGTGTTCTTGG
AACAGTTACAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTCACAGT
TCAACCAAGGCTTCTACGACTGTGTCTATAGCAACTGATGCTGAAGTCTTGGGGCCCCAGTCAAGGGCAAGCGTC
GGGGCCGAGGGCCAAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCCGGGGCATAGACTTCCACCATGT
GTCTGCTGTGCTCAACTTTGATCTTCCCCCAACCCCTGAGGCCTACATCCATCGAGCTGGCAGGACAGCACGCGC
TAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCACGGAGCAGTTCCACTTAGGCAAGATTGAGGAGCTTCT
CAGTGGAGAGAACAGGGGCCCCATTCTGCTCCCTACCAGTTCCGGATGGAGGAGATCGAGGGCTTCCGCTATCG
CTGCAGGGATGCCATGCGCTCAGTGAATAAGCAGGCCATTTCGGGAGGCAAGATTGAAGGAGATCAAGGAAGAGCT
TCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAACCCTAGGGACCTCCAGCTGCTGCGGCATGACCTACC
TTTGCACCCCGCAGTGGTGAAGCCCCACCTGGGCCATGTTCTGACTACCTGGTTCCTCCTGCTCTCCGTGGCCT
GGTGCGCCCTCACAAGAAGCGGAAGAAGCTGTCTTCTCTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAACCC
ACTGCGCAGCTTCAAGCACAAAGGAAAGAAATTACAGCCACAGCCAAGCCCTCCTGAGGTTGTTGGGCCCTCTCT
GGAGCTGAGCACATTGTGGAGCACAGGCTTACACCCTTCGTGGACAGGCGAGGCTCTGGTGCTTACTGCACAGCC
TGAACAGACAGTTCTGGGGCCGGCAGTGCTGGGCCCTTTAGCTCCTTGGCACTTCCAAGCTGGCATCTTGCCCT
TGACAACAGAATAAAAAATTTAGCTGCCCCAGTTTGTGCCTCCAGCATATGAAAAGGACTATTTGAATCCCCAAA
ACATCAGGAGTCGGGAACTTCGGAAGACAGCTGTGCCTGGCTCTGTGGCTGCATGCAGTGCTTCACTTGGCCAG
CAGAGGTGAGCTGTGCCGAGCTGCCCCAGCCATGAGAAGAGAAGCCTGCCCTTGCTGGCAGGTGGCTATGGCCGG
CCCAGAGCCTTCTGCCCAGCTCCTGCAGCCCTGCTGCCTGGGATCAGGCTGGGAGATGGGCCTTCTGACCGCC
AGCCTTCTCTCCCCGAGCACACGCACATGTAGATTTCGGGGGAAGCTGCCTGCTCTTCTTAGAGGAGCCGGGG
CAGCTATCTGCTGGTCCCTTTCTGAACAACCTGTTGATGTGTGA

3419/5332
FIGURE 2986A

CTGAGGCGGCGCTGTGTGTGTGAAGCGTACCTAGGGCGGGAGGCGACATGGAGACAGGGGCGGCCGAGCTGTATG
ACCAGGCCCTTTTGGGCATCCTGCAGCACGTGGGCAACGTCCAGGATTTCTGCGCGTTCTCTTTGGCTTCCTCT
ACCGCAAGACAGACTTCTATCGCTTGCTGCGCCACCCATCGGACCGCATGGGCTTCCCGCCCCGGGGCCGCGCAGG
CCTTGGTGTGTCAGGTATTCAAACCTTTGACCACATGGCCCGTCAGGATGATGAGAAGAGAAGGCAGGAACCTTG
AAGAGAAAATCAGAAGAAAGGAAGAGGAAGAGGCCAAGACTGTGT¹CAGCTGCTGCAGCTGAGAAGGAGCCAGTCC
CAGTTCAGTCCAGGAAATAGAGATTGACTCCACCACAGAATTGGATGGGCATCAGGAAGTAGAGAAAGTGCAGC
CTCCAGGCCCTGTGAAGGAAAT²GGCCCATGGTTTACAGGAGGCAGAAGCTCCAGGAGCAGTTGCTGGTGCTGCTG
AAGTCCCTAGGGAACCACCAATTCTTCCCAGGATTACAGGACAGTTCCAGAAAAATCCCGACAGTTACAATGGTG
CTGTCCGAGAGAACTACACCTGGTCACAGGACTATACTGACCTGGAGGTGAGGTGCCAGTACCCAAGCACGTGG
TGAAGGGAAAGCAGGTCTCAGTGGCCCTTAGCAGCAGCTCCATTCTGTGTGGCCATGCTGGAGGAAAATGGGGAGC
GCGTCCCTCATGGAAGGGAAGCTCACCCACAAGATCAACACTGAGAGTTCTCTCTGGAGTCTCGAGCCCGGGAAGT
GCGTTTTTGGTGAACCTGAGCAAGGTGGGCGAGTATTGGTGAACGCCATCCTGGAGGGAGAAGAGCCCATCGACA
TTGACAAGATCAACAAGGAGCGCTCCATGGCCACCGTGGATGAGGAGGAACAGGCGGTGTTGGACAGGCTTACCT
TTGACTAC³CACAGAAGCTGCAGGGCAAGCCACAGAGCCATGAGCTGAAAGTCCATGAGATGCTGAAGAAGGGGT
GGGATCGTGAAGGTTCTCCCTTCCGAGGCCAGCGATTGACCCCTGCCATGTTCAACATCTCCCCGGGGGCTGTGC
AGTTTT⁴TAATGACCAGAAGGAAAGGAAACCTCGCCGGTGGGGAGGCAGAGCCTTATCCTCGGCTGCCCTTCTTGG
CTCCCTGCATTCCAGGGACTTGCTCGTCTTGT⁵TTACCCCTAGCCATCCTTTCTTTCAAGGGTGAACCAGGCCTTC
CACCCCTGACCTTGCTATCTCCAGACTGTTCCAGAGAAGGTGCGGGGCCAGCTGCTATGTGGTGGCCGCTGTGGCTG
ACACTGAGTGAAGGTGTTTGAATGCAGGAGAGGATATCCAGCAAATTGGGATCACATGCTTTTGTCTCCACAG
CAACCAGCCACTGCAGGCAGCATG⁶CTTCTCCCTGCTCTCTGCTTGCTGTGTTTGTGACGCTATTCTGCTTG
CATGTCTTCTGGTTGGGATGTGGAGTTGTTGCTGGACTCTCAGGCGAAGCTGAAGTCATTGAAGTGTGTGAAGCT
CTGTGCTTGCTATGAGGGCAAGCAAGGAATGGCTGTGCC⁷TGAGGCTGCTCTGGGAAACTCCTTGCCCCCTGACCTC
TTTTGAGAGCATTACGTGGTCTTCTTGCTCATCCCTTATAAATGTGCTTTGCCCTGCCTCAGCCTCATGGTCAG
AGCAGTGGAGACTGGAGCCCTGTTTGACGTTCTAGTTGTTCGGAGAAAGCCTAGGTTCTGGGCTCAGGTCCAGA
TGCAGCGGGGATTCTGTTCTCTGACTGTGGCGACCTTGCTTTGGTTCTTGTGAAGTGAACCAAGCCCGGCCACC
ACGCATGGCATGCTGTGCTTGGCTCCCCATAAGACGTCCTCTTTGGGTGCACGGTGTCAAAGTGTGGGCAGGAGT
GGAGAGCTGGTGGCCCTCAGGAGGAGACCACAGCATGTCCATCAGCTCAGCAGAGCTCGACAGCCACAAGTCCCTGA
GAAGCTTTGACCTTGAAGGGCTTCTGGGAGAGGAGGAATTTCTGCATGGGGCGTGAAGGCACACTGTCCACCAC
AACTGAACCAGAAGAGAGTGAAGACTCCCTCTTCCCATCCTCTGTGCCAGGTGCCAGACTGTGCTCTCTTGGAAC
TTATGGCCCAATCTTACCTGTTCTCCAGGGACTGGTCACTGCCCTCAGGACCCCCAAGCCTATGCCCTGAGCCATG
GCTGTGACTGACTCCAGCCAAGGTGCAAAGACGAGATTATGAGACAGGTCTCTCAGGCTGTGTTCCAAGTACTC
ACAGGGGCTCTGGGTGCCCCATCGCCGGGAGTATGGTT⁸CAGCTGCCACCGGCACTGTCCATTGCTGTCTGTCAA
GCTCAGAGCATGGATAAGCCACACAGCAGGGCAGTGACCCCTGGCACCATGCACGGCCAGCAAGAATCAAGGCCC
GCAGATGCTAAGAGGGCCTATTGTGTCAGGGGAAGGTCCCCGCTCCTGCACACTCTCTATGGATACTTGGGTTGTGG
GGGCTCTCTTGGAGAGTAAGTTTGTGGTTTGT⁹TTCTGGTTTACAGTGGTGGCTGACACCCCTTGAAGAAAGCAT
TCCTGGGAAGTCTTCTGTGGGTCCAAACATGTTGCTCCGATCATCACAGGAGAGCAAAAGGCCCTAGATACCCCC
TTTGGAAATGTGAGAGTCTTGTGTCTGATATTGCCACTGAGCTGGTGAAGCCCTCTAAAGAGATCTCGACCT
GGGGAGCAGAATTCTGTCTATGAGGGGTCTGAGAAAGACTGTGATTTTTTTTCTGGAGTTCTTCCCAT
TGAGGTCTTAGGATTGACACCACTGTCCACAAGAGCTTTCTGCCTAATGAAAGGAGGTCTGTGGTGTGTG
TCTCTCTCTCTCTATAGTTCCCGAGTTGGCCCCCATTGCAGCCCCCACCCTGTGGGTAGTCTTCCAGAAGTGA
TGCAGTGGTGTGAGATGCCCTACACCTGTTATT¹⁰TGGGAGACTTTGAGAGTCATTACITCCATGGTGAAGTGA
TTTGT¹¹TTTGCCTGATTTATATTCTGTGTTGCATTCTCCCCACTCCCTGCCCTGCTTTAATAAACAGCAAACCA
ATATCTAGGAAGAATGACTGAGGGATAGTATTGGGTATTGGCCCCATGGCAGGAACAGCCACTTGCATCTGGTCC
CGGTGCCACACTGCGGTGCTTGGTGTGGTTGTGGAGCCTGTCCCTGCGGCCTTGCTCCCGTTGAGCCACGCTGT
CTGGTGGGTGATTCTCTGCCCTGAGCCACCACCTGGACTGGCCAGTCTCCAGAGCTGGCACACCCTGCCTGTT
TTCTCTTTTTAGACACAACAGCCGAGTTTGGCCAGCCACTAAGTCCCACAGCTGAGGTCCGAGGAAAGCGGG
TGACTCATTTCCTTGTCCAGGGCCCGAGGAGGTGAGGTGTCCAGCCTGCAAAGCTATTCCAGCTCCTTGGTGT
TGGTTTGAATAAATTGGTATT¹²AAGCAGTTCTGGGTCTGCGTGTGACATTGCTGCTGAGACAGTCTGTCTGT

3420/5332
FIGURE 2986B

GCATGGTCATTATTGTTGCATTCTAGCCTTGAGGTCCCAGGCCAACGTACACAGCAAACACCAGCATGGGGAATT
CTTAGGGGTTGTTTCCCATCTGGTCTGAATGCACTGGGCAAGATCTCAATACAGCTTTAGAAATCCTGTAAGATT
TTGACCAGTGGGGAGAAAAAGAATGTAGCTATAGATCTTACATCCTTTCAAACAGGTTCTGGAATTCTGTAGTTA
CTGGAAAGCTTAGGGTGAGTGCAGAGTTGGGAATGATTCCACTGAAGGGCCACCTTTGCCCCACCAGGCTCCAAGG
CCCTCCTTGGTCTCCAGGTGCATACCTGCTGTTAACTTTGCTGAGCCCTCGCAATGGGCTTCCTCCAGGACATAA
CGCCGTGTCTGACACAGAAGTCTCCCAGGTGGCTGGCCACCTGCTTCTTCCTCAGTCAGATCTTTGACTCTCCTT
CTCTGTGCCCCACCCATCTCCAGCCTCCTCTGACCCTGCTCACCCTGGGGACAGGACCTAGGGGTGTGAGAAGT
ACTTGGCTGAATAAAGACTGTTTCAAAGGCAATCCTTAGAATTGCCTAGCATACTCCCAGGGCCAGAAATAACCC
GCCAGAAAGGAGAGGCGTATTTGCCCCCTGAAGAGTGCAGGAGGGAGAACAGTTGAGAAGTGTTTTGTGTGGAAAT
GTGTCCAAGAGGCGTCAGCTGCTGCACAGAGAACTCACTGCCCAGAACACTGCGCTTGGGGAACAGACCTCACCC
CCACCTCAAATCTGCTCTCCACTGGGCCTGTTGGCAGCCAGCTCAGCTGGGGAAGGGACAGCATGACTCGCTTTG
TCGATGAAAAGCACGAAGTTGTCAGCACAGAACCTGGCCAGTCCTTGAGAACTCCCTCCTTGGTGGTCAGAGGT
CAAGCAGCCCATGTGGCCACCGGTCTGAAGAAGTGGGCTATGTCCCTGAGGCTCCTCTCTACCGTCTGACTGTG
GGGTCTGGGGAACAGGCATTAAACCAGGCTGCTGCCCTGGGGAGTGCCCACTGGACGCCAGGGTGCCCCATAGG
GACAGGGTCACAAAGCCCTGGGGCTTCCCCTGCCAGTCTGGTGAGGACAGTGTGGTCACTATCTCAGAGAGACG
AAAAATGAATATTCTGTCAATTCAGACTAACTACTACCCAGCTCACACTAATATGGATTTGTTAATTTTACCT
TTTTTTTCTTTCCAACCTTAGGTTCAAGGTTGTTACATGGGTAAATTGGATCATAGGG

3421/5332
FIGURE 2987

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTCCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCAGCACCAGTCAGACCAATATGTCAAAATTAAGCGTA
ACTGGCGGAAACCCAGAGGCACTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG
GTTATGGGAGCAACAAAAAACAAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACATCAAGG
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA
AAGCCATCGTGGAACAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGCGAAGAAA
ATGAGTAGACAGCTCGTGTGCACGTTTCTGTTTAAATAAATGTAAAACTGC

3422/5332
FIGURE 2988

GCGGCGCGCTCCTGGCGAGGACGGAGCGAGCAGATCTCGCGTGCGCTCGCCGCCCGGCGCAGCCCAGCCCGGCC
CCGCCTGGCGCCGCGAGCCGAGGTGTCTCCCGCGCCCGCGCCCGTGTGCGCCCGGTGCCCGCGAGCGGGAGCCGG
AGTCGCCGCCGCCGAGCGCAGCCGAGCGCAGCCGAGCCCGTCCGCCGCCGCCATGCCACCACGGTGACCTGC
ACCCGCTTCACCGACGAGTACCAGCTCTACGAGGATATTGGCAAGGGGGCTTTCTCTGTGGTCCGACGCTGTGTC
AAGCTCTGCACCGCCATGAGTATGCAGCCAAGATCATCAACACCAAGAAGCTGTGAGCCAGAGATCACCAGAAG
CTGGAGAGAGAGGCTCGGATCTGCCGCCTTCTGAAGCATTCCAACATCGTGCGTCTCCACGACAGCATCTCCGAG
GAGGGCTTCCACTACCTGGTCTTCGATCTGGTCACTGGTGGGGAGCTCTTGAAGACATTGTGGCGAGAGAGTAC
TACAGCGAGGCTGATGCCAGTCACTGTATCCAGCAGATCCTGGAGGCCGTTCTCCATTGTACCAAAATGGGGGTC
GTCCACAGAGACCTCAAGCCGGAGAACCTGCTTCTGGCCAGCAAGTGCAAAGGGGGCTGCAGTGAAGCTGGCAGAC
TTCGGCCTAGCTATCGAGGTGCAGGGGGACCAGCAGGCATGGTTTGGTTTCGCTGGCACACCAGGCTACCTGTCC
CCTGAGGTCTTCGCAAAGAGGCGTATGGCAAGCCTGTGGACATCTGGGCATGTGGGGTGATCCTGTACATCCTG
CTCGTGGGCTACCCACCTTCTGGGACGAGGACCAGCACAAGCTGTACCAGCAGATCAAGGCTGGTGCCTATGAC
TTCCCGTCCCTGAGTGGGACACCGTCACTCCTGAAGCCAAAAACCTCATCAACCAGATGCTGACCATCAACCCT
GCCAAGCGCATCACAGCCCATGAGGCCCTGAAGCACCCGTGGGTCTGCCAACGCTCCACGGTAGCATCCATGATG
CACAGACAGGAGACTGTGGAGTGTCTGAAAAAGTTCAATGCCAGGAGAAAGCTCAAGGGAGCCATCCTCACCACC
ATGCTGGCCACACGGAATTTCTCAGTGGGCAGACAGACCACCGCTCCGGCCACAATGTCCACCCGCGCCTCCGGC
ACCACCATGGGGCTGGTGGAAACAAGCCAAGAGTTTACTCAACAAGAAAGCAGATGGAGTCAAGCCCCAGACGAAT
AGCACCAAAAACAGTGCAGCCGCCACCAGCCCCAAAGGGACGCTTCTCCTGCCGCCCTGGAGCCTCAAACCACC
GTCATCCATAACCCAGTGGACGGGATTAAGGAGTCTTCTGACAGTGCCAATACCACCATAGAGGATGAAGACGCT
AAAGCCCGGAAGCAGGAGATCATTAAGACCACGGAGCAGCTCATCGAGGCCGTCAACAACGGTGACTTTGAGGCC
TACGCGAAAATCTGTGACCCAGGGCTGACCTCGTTTGAGCCTGAAGCACTGGGCAACCTGGTTGAAGGGATGGAC
TTCCACAGATTCTACTTCGAGAACCTGCTGGCCAAGAACAGCAAGCCGATCCACACGACCATCTGAACCCACAC
GTGCACGTCATTGGAGAGGATGCCGCCTGCATCGCTTACATCCGGCTCACGCAGTACATTGACGGGCAGGGCCGG
CCCCGCACCAGCCAGTCTGAGGAGACCCGCGTGTGGCACCGCGCGACGGCAAGTGGCAGAACGTGCACTTCCACT
GCTCGGGCGCGCTGTGGCCCCGCTGCAGTGAAGCCAAGGGAGGGGCACAGAATGGGGAACAGGACACAGGATCC
TAAACTCCAAGGGGACTGTCCACCGATGAACACTCAGAGTGGACACCATCTTCCGTCCACGCTGTGCCAGGACA
GCTGTCCCCATCCATGAACACAGGGTAAACATCTGCCGGGCTCCGCACCAGTGGCTCCCTGGGCCATGGGACAGC
GGCAGGGCTCACCACGGACAGCACGTGGCCAGCAGCCGGCCACCCTGGCGTCTGGGGCCTCCTCCCCTCCTCT
CCCTCTCACCTTGTACCTCCACGGAGCTGCCTGTCTGGGATAATTTGGGGATTTTTTTTCTGGGGGATAATTCT
TTTGCATGACCCC

3423/5332
FIGURE 2989

GCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTGAGGGCGCGGAGCCATGAAGCTGTACAGC
CTCAGCGTCCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGCCGCATACGATGTGTCTTCCTTCAGCTTT
TTCCAGAGATCCAGCGTTT CAGGAATTCATGACCTTCACGAGTCAACTGATTGTGGAGCGCTCATCGAAAGGCACT
AGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCGGAATGATAGTCTTGCAGGTGTGGTCATT
GCTGACAATGAATACCCATCCCGGTGGCCTTTACCTTGCTGGAGAAGGTACTAGATGAATTCTCCAAGCAAGTC
GACAGGATAGACTGGCCAGTAGGATCCCTGCTACAATCCATTACCCAGCCCTGGATGGTCACCTCAGTAGATAC
CAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAACTAGATGAGACCAAAATCATTCTGCACAAC
ACCATGGAGTCTCTGTAGAGCGAGGTGAGAAGCTAGATGACTTGGTGTCAAATCCGAGGTGCTGGGAACACAG
TCTAAAGCCTTCTATAAACTGCCCCGAAACAAAACATGCTGTGCCATCATGTGATGCAGCCTGCCAGAGGCC
CAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCTGGAAAAGAAGAGACA

3424/5332
FIGURE 2990

ACTCCACACCTGGCTGGAGCAGGAAATGCCGAGCGGCGCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGAC
ACAGTCACCTGCAGCCTAATTACTCAAAAGCTGTCCCCAGGTCACAGAAGGGAGAGGACATTTCCCACTGAATCT
GTCTGAAGGACACTAAGCCCCACAGCTCAACACAACCAGGAGAGAAAGCGCTGAGGACGCCACCCAAGCGCCAG
CAATGGCCCTGCTGGAGAACATCCAGGCTCAGTGAGGAAGGGTCCAGAAGGGAATGCTTGCCGACTCGTTGGAG
AACAATGAAAAGGAGGAAACTGTGACTGAACCTCAAACCCCAAACCCAGCCCCAGGAGAAACCACATTCTCCAGGG
ACCCAGGGCGGGCCGTGACCCCTGCGGCGGAGAAGCCTTGATATTTCCACTTCAGAAGCCTACTGGGGAAGGCT
GAGGGGTCCCAGCTCCCCACGCTGGCTGCTGTGCAGATCTGGACGACAGAGCCAGGATGGAGGCCGCCAAGAAG
GAGAAGGTAGAGCAGATCCTGGCAGAGTTCCAGCTGCAGGAGGAGGACCTGAAGAAGGTGATGAGACGGATGCAG
AAGGAGATGGACCGCGGCCTGAGGCTGGAGACCCATGAAGAGGCCAGTGTGAAGATGCTGCCACCTACGTGCGC
TCCACCCCAAGAAGGCTCAGAAGTCGGGGACTTCCTCTCCCTGGACCTGGGTGGCACTAACTTCAGGGTGATGCTG
GTGAAGGTGGGAGAAGGTGAGGAGGGGCGAGTGGAGCGTGAAGACCAACACCAGATGTACTCCATCCCCGAGGAC
GCCATGACCGGCACTGCTGAGATGCTCTTCGACTACATCTCTGAGTGCATCTCCGACTTCCTGGACAAGCATCAG
ATGAAACACAAGAAGCTGCCCCCTGGGCTTCACCTTCTCCTTTCTGTGAGGCACGAAGACATCGATAAGGGCATC
CTTCTCAACTGGACCAAGGGCTTCAAGGCCTCAGGAGCAGAAGGGAACAATGTCTGTTGGGCTTCTGCGAGACGCT
ATCAAACGGAGAGGGGACTTTGAAATGGATGTGGTGGCAATGGTGAATGACACGGTGGCCACGATGATCTCCTGC
TACTACGAAGACCATCAGTGCAGGTCGCGATGATCGTGGGCACGGGCTGCAATGCCCTGCTACATGGAGGAGATG
CAGAATGTGGAGCTGGTGGAGGGGGACGAGGGCCGATGTGCGTCAATACCGAGTGGGGCGCCTTCGGGGACTCC
GGCGAGCTGGACGAGTTCCTGCTGGAGTATGACCGCCTGGTGGACGAGAGCTCTGCAAACCCCGGTGAGCAGCTG
TATGAGAAGCTCATAGGTGGCAAGTACATGGGCGAGCTGGTGGGCTTGTGCTGCTCAGGCTCGTGGACGAAAAC
CTGCTCTTCCACGGGGAGGCCTCCGAGCAGCTGCGCACACGCGGAGCCTTCGAGACGCGCTTCGTGTGCGAGGTG
GAGAGCGACACGGGCGACCGCAAGCAGATCTACAACATCCTGAGCACGCTGGGGCTGCGACCCCTCGACCACCGAC
TGCGACATCGTGCGCCGCGCCTGCGAGAGCGTGTCTACGCGCGCTGCGCACATGTGCTCGGCGGGGCTGGCGGGC
GTCATCAACCGCATGCGCGAGAGCCGACGCGAGGACGTAATGCGCATCACTGTGGGCGTGGATGGCTCCGTGTAC
AAGCTGCACCCAGCTTCAAGGAGCGGTTCCATGCCAGCGTGCAGGCTGACGCCAGCTGCGAGATCACCTTC
ATCGAGTCGGAGAGGGCAGTGGCCGGGGCGCGGCCCTGGTCTCGGCGGTGGCCTGTAAAGAAGGCCTGTATGCTG
GGCCAGTGAGAGCAGTGGCCGCAAGCGCAGGGAGGATGCCACAGCCCCACAGCACCAGGCTCCATGGGGAAGTG
CTCCCCACACGTGCTCGCAGCCTGGCGGGGCGAGGAGCCTGGCCTGTGTCAGGACCCAGGCCGCTGCCATACCGC
TGGGGAACAGAGCGGGCCTCTTCCCTCAGTTTTTCGGTGGGACAGCCCCAGGGCCCTAACGGGGGTGCGGCAGGA
GCAGGAACAGAGACTCTGGAAGCCCCCACCTTTCTCGCTGGAATCAATTTCCAGAAGGGAGTTGCTCACTCAG
GACTTTGATGCATTTCCACACTGTGAGAGCTGTTGGCCTCGCCTGGGCCAGGCTCTGGGAAGGGGTGCCCTCTG
GATCCTGCTGTGGCCTCACTTCCCTGGGAACCTCATCCTGTGTGGGAGGCAGCTCCAACAGCTTGACCAGACCTA
GACCTGGGCCAAAAGGGCAGCCAGGGGCTGCTCATACCCAGTCTGGCCATTTTCTTGCTGAGGCTCAAGAGG
CCCAGGGAGCAATGGGAGGGGGCTCCATGGAGGAGGTGTCCAAGCTTTGAATACCCCAAGAGACCTTTTCTCTC
CCATACCATCACTGAGTGGCTTGTGATTCTGGGATGGACCCCTCGCAGCAGGTGCAAGAGACAGAGCCCCCAAGCC
TCTGCCCAAGGGGCCCAAAAGGGGAGAAGGGCCAGCCCTACATCTTCAGTCCCATAGCGCTGGCTCAGGAAG
AAACCCCAAGCAGCATTGAGCACACCCCAAGGGACAACCCATCATATGACATGCCACCCTCTCCATGCCCAACC
TAAGATTGTGTTGGTTTTTTAATTAAAAATGTTAAAGTTTTAAACATG

3425/5332
FIGURE 2991

GGCCAGCAGGAAGGCGGGGACCCGGGGCAAGGTGGCAGCCACCAAGCAGGCCCAACGTGGTTCTTCCAACGTCTT
TTCCATGTTTGAACAAGCCCAGATACAGGAGTTCAAAGAAGCCTTCAGCTGTATCGACCAGAATCGTGATGGCAT
CATCTGCAAGGCAGACCTGAGGGAGACCTACTCCCAGCTGGGGAAGGTGAGTGTCCCAGAGGAGGAGCTGGACGC
CATGCTGCAAGAGGGCAAGGGCCCCATCAACTTCACCGTCTTCCTCACGCTCTTTGGGGAGAAGCTCAATGGGAC
AGACCCCGAGGAAGCCATCCTGAGTGCCTTCCGCATGTTTGACCCAGCGGCAAGGGGTGGTGAACAAGGATGA
GTTCAAGCAGCTTCTCCTGACCCAGGCAGACAAGTTCTCTCCAGCTGAGGTGGAGCAGATGTTTCGCCCTGACACC
CATGGACCTGGCGGGGAACATCGACTACAAGTCACTGTGCTACATCATCACCCATGGAGACGAGAAAGAGGAATG
AGGGGCAGGGCCAGGCCACGGGGGGGCACCTCAATAAACTCTGTTGCAAAATTGG

3426/5332
FIGURE 2992

GAGTTGCGGCGATGGGCGGGGCAGGCGCGCGGGGATTGGCGGGATGCGGCGCGCCGCGCGTGAACCTCCTTGGCC
TGGGCGAAGCTGTGTGGACCAAGCAAGTCAGGAGTGTGGCCATGTTTTCTGAGCAGGCTGCCCAGAGGGCCCCACA
CTCTACTGTCCCCACCATCAGCCAACAATGCCACCTTTGCCCGGGTGCCAGTGGCAACCTACACCAACTCCTCAC
AACCCTTCCGGCTAGGAGAGCGCAGCTTTAGCCGGCAGTATGCCCACATTTATGCCACCCGCCTCATCCAAATGA
GACCTTCTCTGGAGAACCAGGGCCAGCAGCACTGGGGCAGTGGAGTGGGAGTGAAGAAGCTGTGTGAAGTGCAGC
CTGAGGAGAAGTGCTGTGTGGTGGGCACTCTGTTCAAGGCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTCA
GCGAGGAGCACAACCTGCTCCCCAGCCTCCTCGGAGTAAATACATACACCCAGATGACGAGCTGGTCTTGGAAG
ATGAACTGCAGCGTATCAAACCTAAAAGGCACCATTTGACGTGTCAAAGCTGGTTACGGGGACTGTCTGGCTGTGT
TTGGCTCCGTGAGAGACGACGGGAAGTTTCTGGTGGAGGACTATTGCTTTGCTGACCTTGCTCCCCAGAAGCCCG
CACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTGTCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAGAGCC
TGCTGGGCACCCAGCTGCTGGTGGATGTGGTGACGGGGCAGCTTGGGGACGAAGGGGAGCAGTGCAGCGCCGCCCC
ACGTCTCCCGGGTTATCCTCGCTGGCAACCTCCTCAGCCACAGCACCCAGAGCAGGGATTCTATCAATAAGGCCA
AATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAGGCTGTTAAGATGCTGGATGAGATCCTCCTGCAGCTGA
GCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTTGATCCCACCAATTACACGCTCCCCCAGCAGCCCCCTCC
ACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACGCTCCAGCTGGTCACCAACCCCTACCAGGCCACCATTG
ATGGAGTCAGATTTTTGGGGACATCAGGACAGAACGTGAGTGACATTTTCCGATACAGCAGCATGGAGGATCACT
TGGAGATCCTGGAGTGGACCCTGCGGGTCCGTACATCAGCCCCACAGCCCCTGACACTCTAGGTTGTTACCCCT
TCTACAAAACCTGACCCGTTTCTCTCCAGAGTGCCCGCATGTCTACTTTTGTGGCAACACCCCCAGCTTTGGCT
CCAAATCATCCGAGGTCTGAGGACCAGACAGTGCTGTTGGTGAAGTGTCCCTGACTTCAGTGCCACGCAGACCG
CCTGCCTTGTGAACCTGCGCAGCCTGGCCTGCCAGCCCATCAGCTTCTCGGGCTTCGGGGCAGAGGACGATGACC
TGGGAGGCCTGGGGCTGGGCCCCTGACTCAAAAAAGTGGTTTTGACCAGAGAGGCCAGATGGAGGCTGTTTCATT
CCCTGCAGTGTGGCATTGTAAATAAAGCCTGAGCACTTGCTG

3427/5332
FIGURE 2993A

TCCCTCGCTACCCCATCCTCTCTCCCGCCCTTCTTGGATTCCCTCACCCGTCTCGATCCCCCTCTCCGCCCTTT
CCCAGAGACCCAGAGCCCTGACCCCCCGCGCCCTCCCCGGAGCCCCCGCGCGTGCCCGGGCCATGGCGGGCCGT
GCGCGGGGCGCCCTGCTCAGCTGCCTCCTGGCCTTGCTGGCCCTGTGCCCTGGAGGGCGCCCGCAGACGGTGCT
GACCGACGACGAGATCGAGGAGTTCTCGAGGGCTTCTGTGAGAGCTAGAACCTGAGCCCCGGGAGGACGACGT
GGAGGCCCCGCGCCCTCCCGAGCCACCCCGCGGGTCCGAAAAGCCAGGCGGGGGGAAGCCAGGGAAGCGGGC
AGGGACGGCCGAGAAAGTGCTCCGAAAAGACCAAAGACAAAGGGAAGAAAGGCAAGAAAGACAAAGGCCCAA
GGTGCCCAAGGAGTCTTGGAGGGGTCCCCAGGCCGCCAAGAAGGGGAAGGAGAAGCCACCCAAGGCCACCAA
GAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAGAAGCCCCGTAGGGAAGAGGCCACCCAAGGCCACCAAGAAGCCCAA
AGAGAAGCCACCCAAGGCCACCAAGAAGCCCCGTAGGGAAGAGGGCCCCCATTTCTGGCTCCCTCAGAAACCTT
GGAGTGGCCACTGCCCCACCCCCAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGGCGCCCTCTCAAA
TAACTGGCAGAAATCCAGGAGAGGAGACCCATGTGGAGGCACGGGAGCACCGCCTGAGCCGGAGGAGGAGACCGA
GCAACCCACACTGGACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTGCGGCCAGAA
GCAACCCAGGCCACCCCCAAGCAGAAGGAGGAGGCCCGAGCGGGTCTGGCCAGAGCCCCCTGAGGAGAAGGCCCC
GGCCCCAGCCCCGGAGGAGAGGATTGAGCCTCCTGTGAAGCCTCTGCTGCCCCGCTGCCCCCTGACTATGGTGA
TGTTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCTCCTCCGCCCCAGAAGCCCGATGCTGA
GCGCCAGACAGACGAAGAGAAGGAGGAGCTGAAGAAACCAAAAGGAGGACAGCAGCCCCAAGGAGGAGACCGA
CAAGTGGGCAGTGGAGAAGGGCAAGGACCACAAAGAGCCCCGAAAGGGCGAGGAGTTGGAGGAGGAGTGGACGCC
TACGGAGAAAGTCAAGTGTCCCCCATTTGGGATGGAGTACACCGTATTGAGGACAACAGATCCGAGCCTCCTC
CATGCTGCGCCACGGCCTGGGGGACAGCGCGGCCGGCTCAACATGCAGACCGGTGCCACTGAGGACGACTACTA
TGATGGTGGTGGTGTGCCGAGGACGATGCCAGGACCAAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTT
CACAGGCGTCATCACCCAGGGCAGAGACTCCAGCATCCATGACGATTTTGTGACCACCTTCTTCGTGGGCTTCAG
CAATGACAGCCAGACATGGGTGATGTACACCAACGGGTATGAGGAAATGACCTTTCATGGGAACGTGGACAAGGA
CACACCCGTGCTGAGTGAGCTCCAGAGCCGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGG
CAGCCTGTGCATGCGCCTGGAGGTGCTGGGGTGTCTGTGGCCCCCTGTCTACAGCTACTACGCACAGAAAGGAT
GGTGGCCACCGATGACCTGGATTTCGGGCACCACAGTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGA
GGAGTGGCCCAACCATCACCCGCACTTACAGCCTGGGCAAGAGCTCACGAGGCCTCAAGATCTATGCCATGGAGAT
CTCAGACAACCTTGGGGAGCATGAAGTGGGGGAGCCCGAGTTCCGCTACACTGCTGGGATCCATGGCAACGAGGT
GCTGGGCGGAGAGCTGTTGCTGCTGCTCATGTCAGTACCTGTGCCGAGAGTACCGCATGGGAACCCACGTGTGCG
CAGCCTGGTGCAGGACACGCATCCACCTGGTGCCCTCACTGAACCTGATGGCTACGAGGTGGCAGCGCAGAT
GGGCTCAGAGTTTGGGAACCTGGGCGCTGGGACTGTGGACTGAGGAGGGCTTTGACATCTTTGAAGATTTCCCGGA
TCTCAACTCTGTGCTCTGGGGAGCTGAGGAGAGGAAATGGGTCCCCCTACCGGTCCCCAACAAATAACTTGCCCAT
CCCTGAACGCTACCTTTCCGCCAGATGCCACGGTATCCACGGAGGTCCGGGCCATCATTGCCTGGATGGAGAAGAA
CCCCCTTCGTGCTGGGAGCAAATCTGAACGGCGCGCAGCGGCTAGTATCTACCCCTACGATATGGCCCGCACGCC
TACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCGGGGGGAGGATGAGGACGAGGTCTCCGAGGCCCA
GGAGACTCCAGACCACGCCATCTCCGGTGGCTTGCCATCTCCTTCGCTCCGCACACCTCACCTTGACCGAGCC
CTACCGCGGAGGCTGCCAAGCCCAGGACTACACCGCGGCGCATGGGCATCGTCAACGGGGCCAAGTGAACCCCCG
GACCGGGACTATCAATGACTTCAGTTACCTGCATACCAACTGCCTGGAGCTCTCCTTCTACCTGGGCTGTGACAA
GTTCCCTCATGAGAGTGAGCTGCCCCGAGTGGGAGAACAACAAGGAGGCGCTGCTACCTTCATGGAGCAGGT
GCACCGCGGCATTAAGGGGGTGGTGACGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTCTGTGAGTGG
CATTAAATCACGCGTGAAGACAGCCAGTGGTGGTGATTACTGGCGAATCTTGAACCCGGGTGAGTACCGCGTGAC
AGCCACGCGGAGGGCTACACCCGAGCGCCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGCAA
CTTCATCCTGGCTCGCTCCAATGGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCGGCCTATCCACA
CATAGACCCATCGCGCCCTATGACCCCCCAACAGCGACGCTGCAGCAGCGACGCTACAACACCGCCTGCGGCT
TCGGGCACAGATGCGGCTGCGGCGCCTCAACGCCACCACCCTAGGCCCCCACACTGTGCTCCACGCTGCC
CCCTGCCCCTGCCACCACCCTGAGCACTACCATAGAGCCCTGGGGCTCATACCGCCAACCAACCGCTGGCTGGGA
GGAGTCGGAGACTGAGACCTACACAGAGGTGGTGACAGAGTTTGGGACCGAGGTGGAGCCCGAGTTTGGGACCAA
GGTGGAGCCCGAGTTTGGAGCCAGTTGGAGCCTGAGTTTGGAGCCAGCTGGAACCCGAGTTTGGGAAGAGGA
GGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCCCTTCACAACAGTAGAGCCTACACAGTGAA

3428/5332

FIGURE 2993B

CTTTGGGGACTTCTGAGATCAGCGTCCTACCAAGACCCAGCCCAACTCAAGCTACAGCAGCAGCACTTCCCAAG
CCTGCTGACCACAGTCACATCACCCATCAGCACATGGAAGGCCCTGGTATGGACACTGAAAGGAAGGGCTGGTC
CTGCCCCCTTGAGGGGGTGCAAACATGACTGGGACCTAAGAGCCAGAGGCTGTGTAGAGGCTCCTGCTCCACCTG
CCAGTCTCGTAAGAGATGGGGTTGCTGCAGTGTTGGAGTAGGGGCAGAGGGAGGGAGCCAAGGTCACTCCAATAA
AACAAGCTCATGGC

3429/5332
FIGURE 2994

GTTTCCTCTGCGTTCGCTCCGCGCTGCTGGAGGCTGTCGTCCCAATGCTCCCCAAACGGCGGCGAGCGGGGTC
GGGTCCCCTAGCGGCGATGCCGCTTCCTCCACGCCGCCCTCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTC
GAGCCTCGCATGGGTGCGAGCCGCCGGGCCTTCCTCACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCTTGAC
GCCTGCAGCTCCGAAGCGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGC
AGGATGGCAGCTGCTCCCCCGGGTTGCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGA
GCTGGGCAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCTCTGAGCCCA
GCATGGATGCCTGCCTATGCCTGCCAGCGCCCTACGCCCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTG
GAGATACTGGCCGAGGCGAGGCTTTGAAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTG
CTCAAGGCCCTTCCCAGCCCTGTCAACCCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGTACCAG
ACCATGAAGCTCTTCACCCAGATCTTCGGGGTCGGTGTGAAGACTGCTGACCGGTGGTACCAGGGAAGGACTGCGA
ACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAACAGCAGAAAGCGGGGCTCCAGCACCACCAGGAC
CTGAGCACCCCGAGTCCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTG
CCTGGGGCCACCGTCACGCTGACCGCGGCTTCCGCGAGGGGAAGTTGCAGGGCCATGACGTGGACTTCTCATC
ACCCACCCCAAGGAGGGTTCAGGAGCGGGGCTGCTGCCTAGAGTGATGTGCCGCTGCAGGACCAGGGCCTCATC
CTGTACCAACCAGCACCAGCACAGCTGCTGTGAGTCCCTACCCGCTGGCCCAACAGAGCCACATGGACGCTTTT
GAGAGAAGTTTTCTGCATTTTCCGCTACCAACCTCCAGGGGCTGCTGTGGGGGGATCCACGAGGCCCTGCCCA
TCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCCGTGAGCCAGTTCCCTTTCGCCCTGCTCGGTTGGACT
GGTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGG
CTGTTTGACCCGGAGCAGAAGACATTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGACACCTGGGCCTTGAG
TACCTTCTCCAGAGCAGAGAAACGCCTGAGCCTGCCTGTGTCCCCCACTTCCACTCAGGAAATTGGGCTGCCCC
CAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTGCCCCCTGACCCCACTTACCCCTCCCCGCCAAGGCC
TGGCTCTTCCGGAGGTCAATTGTGCCTGCAGGATCAGTTGAGCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGT
GGGAGCCCTCAGTGCCAGCCTCATCACTGTGTGACCTGGGTCTGCTCTTAGCCTCCCATGGCTCACGTTCTG
CCCTGGATGGGATGTGAGTGGGGCCACATCTGAGGCTGTGGTGGGGCCTGCAGTCATGAATGGCAAGTGGTCC
CTGATGTGCAGTGTCTCATTAGTTGCACTGCAGTTAACTGTGGCTCCTGCAGGGCACCTGCCCAGAATGCCAG
AAGAGAACCATGCATACCTGCACTGCATTTGAGAGCCATGAGCTGGAGGCTGTGGTTCCGTGCCAGCAAGGAGCCT
ACTGTCTGGTGTGCTGTAGGCATCTGGAGAGGGGAGAGGGCCTGGGTAGGAGCTGGGAGGAAGATAATTTCAACT
ATGGGGCTTCAGTACTGCAGCGCCCCGAGCCAGGCTCTGTGCTTCTGCCTTTAAGGCCGTGTCTCAGCACAATGT
CTCAAAATAGGTCATATCTGCCACTCCCGTCGCAGAGCCCTTTAATGGTTCCAAACCCTAAGTCCACACATAG
CCCTGGCTCTGGCATCTCTCCAGCCCCACTGGCCCCGAGCTGCTTGACTACCGGCTTCCTATTTGATGCACCC
AGGCCCCCTTGTGGCCAATCCCTCCCTTCTCACTGAGGCAGAAAGCACTGAGGTGGGCTGGACATGGGTGCCCT
CCACGTCCCTCATATCCCAGGCACACTCTGGCCTCAGTTTTGCCCTGGCCATGTCTACCTGGAGTGGGCC
CTCCCTTCTTCAGGCCTTGAATCAAAAGCCACTTTGTTAGGCGAGGATTTCCAGACCACTCATCACATTAAAA
AATATTTTGAAAACATGCAGT

3430/5332
FIGURE 2995

CCCGTCCAGAGTCCTCTGTGGTCCCTGCTGCCACCAATGGCCACTCACCGCCTCGTGATGGTCCGGCACGGCGAGA
GCACATGGAACCAGGAGAACCGTTTCTGTGGCTGGTTCGATGCAGAGCTGAGTGAAAAGGGGACCGAGGAGGCCA
AGCGGGGAGCCAAGGCCATCAAGGATGCCAAGATGGAGTTTGACATCTGCTACACGTCAGTGCTGAAGCGGGCCA
TCCGCACCCTCTGGGCCATCCTGGACGGCACGGACCAGATGTGGCTGCCTGTGGTGCGCACTTGCGCCTCAATG
AGCGGCATTACGGGGGCCTCACAGGCCTCAACAAGGCAGAAACGGCCGCCAAGCACGGGGAGGAGCAGGTGAAGA
TCTGGAGGCGCTCCTTCGACATCCCGCCGCCCCCGATGGACGAGAAGCACCCCTACTACAACCTCCATTAGCAAGG
AGCGTCGGTACGCAGGCCTGAAGCCCGGGGAACCCCCACCTGCGAGAGCCTCAAGGACACCATTGCCCCGGGCC
TGCCCTTCTGGAACGAGGAGATTGTTCCCCAGATCAAGGCCGGCAAGCGAGTGCTCATTGCAGCCCACGGGAACA
GCCTGCGGGGCATTGTCAAGCACCTGGAAGGGATGTCAGACCAGGCGATCATGGAGCTGAACCTGCCCACGGGGA
TCCCCATTGTGTATGAGCTGAACAAGGAGCTGAAGCCCACCAAGCCCATGCAGTTCCTGGGTGATGAGGAAACGG
TGCGGAAGGCCATGGAGGCTGTGGCTGCCCAGGGCAAGGCCAAGTGAGGGGTGGGCTTGGGCAATAAAGGCACCT
CCCCAAC

3431/5332
FIGURE 2996

GGAGGCGAGGCTTGTCTGGCTGTCAAAGGGGCGGCCCCGGCCCGGAAGCTACAGCAGCGGCGCGGAGACTGC
GGGGCGGGCCATGGCGGCGAACCTGAGCCGGAACGGGCCAGCGCTGCAAGAGGCCTACGTGCGGGTGGTCACCGA
GAAGTCCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATCCGCGTGGCTGGCACAGGGGG
TGGAAATGACCCTGTTTTTATTTCCAGAATTACCTCTGGGTTTAGAGAAGTGGTTTTTAAACGAGTGTGGGTAAA
AAAAATTACCTGAGGTACTTGTGAGAATCGCAGACTTCTAGGTCCCACCCAGCTCTCATCAATCAGTTTAGTGAG
GGTGGTGGCCAGGACTCTGATTTTAAACATACCCCTAGAAAGATTCTGATACAGGTAGAGGTGAGAAGCCCTGGT
TTAGAAGCAGCTCGGCCTCCCTTCATGGTGGGACCAGGGCCAGCAGGGAATGTCAGGGCCACCCCTGACCTTCAC
TGTGACTCTGCTGCAGAGGGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCCTTC
TGCAGAGTGAAGGACCCCAACTCTGGACTGCCCAAATTTGTCTCATCAACTGGACAGGCGAGGGCGTGAACGAT
GTGCGGAAGGGAGCCTGTGCCAGCCACGTCAGCACCATGGCCAGCTTCTGAAGGGGGCCCATGTGACCATCAAC
GCACGGGCCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAATCAGC
TTTCACAAGGAGAGTGGCCGCTTCCAGGACGTGGGACCCAGGCCCAAGTGGGCTCTGTGTACCAGAAGACCAAT
GCCGTGCTGAGATTAAAGGGTTGGTAAAGACAGCTTCTGGGCCAAAGCAGAGAAGGAGGAGGAGAACCCTCGG
CTGGAGGAAAAGCGCGCGGGCCGAGGAGGCACAGCGGCAGCTGGAGCAGGAGCGCCGGGAGCGTGAGCTGCGTGAG
GCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCCAGAGCGTGGGAGCAGCAGCAAGA
AGTGGTTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAGGAGAGGGC
CATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCCCTTCTGCAGAAGCAGCTCACCCA
ACCAGAGACCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCCAGGGCAGATCTCCCTGCTGAGGAGCC
GGCGCCAGCACTCCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAGCAGGAGAC
CTTCTACGAGCAGCCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATTCAGGGCCA
GGGGCTCAGTGGGCAAGGGCTCTGTGCCGTGCCCTGTACGACTACCAGGCAGCCGACGACACAGAGATCTCCTT
TGACCCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCGGATGGCCA
TTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAGTGAAGGCTGAGGGCACATCTTGCCCTTCCCTCTCA
GACATGGCTTCCCTATTGCTGGAAGAGGAGGCCTGGGAGTTGACATTGAGCACTCTTCCAGGAATAGGACCCCCA
GTGAGGATGAGGCCTCAGGGCTCCCTCCGGCTTGGCAGACTCAGCCTGTCACCCCAAATGCAGCAATGGCCTGGT
GATTCCACACATCCTTCTGTCATCCCCGACCTCCCAGACAGCTTGGCTCTTGCCCTGACAGGATACTGAGC
CAAGCCCTGCCGTGTGGCCAAGCCCTGAGTGGCCACTGCCAAGCTGCGGGGAAGGGTCTGAGCAGGGGCATCTGG
GAGGCTCTGGCTGCCTTCTGCATTTATTTGCCTTTTTTCTTTTCTTGTCTCTAAGGGGTGGTGGCCACCACT
GTTTAGAATGACCCTTGGGAACAGTGAACGTAGAGAATTGTTTTTAGCAGAGTTTGTGACCAAAGTCAGAGTGA
TCATGGTGGTTTGGCAGCAGGGAATTTGTCTTGTGGAGCCTGCTCTGTGCTCCCCACTCCATTCTCTGTCCCT
CTGCCTGGGCTATGGGAAGTGGGATGCAGATGGCCAAGCTCCACCCCTGGGTATTCAAAAACGGCAGACACAAC
ATGTTCCCTCCACGCGGCTCACTCGATGCCTGCAGGCCCCAGTGTGTGCCTCAACTGATTCTGACTTCAGGAAAAG
TAACACAGAGTGGCCTTGGCCTGTTGTCTTCCCTATTTTCTGTCCAGCTCATCCGTGTCTCTGAAGAACAAT
ATGCTTTTGGACCACG

3432/5332
FIGURE 2997

TAAAAATGCAATTCACCTCACAACCTCTAAATGATAATTGACATTTACGCTCTTTCTTTTAGGCAAAACAGAAGAT
ACACACTATTAACAGTTATTTGAAGCCTTAAATTACAATAGCCTGTTAGGTGATCGGCTTTCTGCCTTGGCTTTC
TGATGCAGCACATTTTAAGATTTGCCTTTAAAGCTTTGAGCCTTGAGATTAGGTTAGTTAGGAAGAGGACAACAA
AGGGAAGAGATTATTCTAATAAACTTCCACAGAGGGAAGAAAATGAGGAGCTTCAGATCTCTAAAGCCAAATT
CAACCTGATCTTTCTAGGTTGGTTATAAAGCTGGTCCACTTCCAGGAAGTGATGTGTAGGTGAATAGGAACAAAA
GGTGAAGAAGCAGTAAAACCTGTGACCAAGTGGCCAGATGGGGCTTTTGCCGGCTGATTGAAAGGAAGTCTACAGA
CCTAACATAAGCAGTCAGCCAAAGGTGGCTGTGGGAGGTTGATTTCTTCCAGAACTTCCAAGTTGTGGCTACAA
ATTTATTGCCAGATATTTTCCCACTGAGAATACTGAGGTTATTCACATAATCACTTCCTTAACAAAGGAAGAAGC
ACTTTTAACTTGGGCTGCATTCCCTTTGTGAGGGTCCACATTTAGGATCCTCCTGCTACCATAAGGCCCTTTTG
GGGTTCTTTGGGTGTGGCTGCATCTCACCATGTTGAGGATTGCCCTTTTTTTTTTTTTTTTTTTTTTTTAAAC
ACAGAGCCTTGCTCTGTCTCCAGGCTGGAGTGCAGTGGTGGATCTTGCTCACTGCAACCTCTGGCTCCAGG
TTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCCGGAATTACAGGCATGTGCCACCATGCTGGGCTAATTTT
TGTATTTTGTAGTGAGAGCGGTGTTTACCATGTTGGCCAGGCTGTTCTTGAACCTCCTGGCCTCAAGTGACCCGCC
CACATTGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCCCCTGCCCCAGCAAGGATTGCTGTTTTAATTCTT
GTATCTTCGTGCTTCTTTGGTCTTTGCTTAAACAAACAATAAAGCTTAATAGTTGGGGAGAATGCTGTTACCA
GTGTCCTCTAGGAAGGCTGTTAGCATATGGCTCTACTGAGCAGCAGTGCCATCTGGTGCCTGAGATCATGTGCTT
CAGGCAGTTGTACACTGCATCTACAGCCAAGCATCACAGAAACACTTCACTCATGTGGTCAGGGAAGGTGGGAC
TGATTACATGTTAGAGACAGGTCAGATGGGAAAATTAAGGCCCACTTGGTGTGGGGAATAACCATACTCTGG
TCTTTCAAGTGTAGTAGCTGATGATTCCCAAGAACTGATGAATTTCTGAGTCCAGACAAAATTTCCCCAAGCC
TGCTCTCTCTGTTGGATATACATAATAGAGAAAGTCAAATCAGCCCTTTGGGGTTTGTGGTAAAAATTCACTCAC
CCATTGAAGCCTAAGGTGGCTTTGTACCTTCCAGATCTCTCAGCAATCCCCTGGGCAGAAATGTCACCTGCTTG
CCATGTCTTTGAGGGGTTAGGTCAGCCTGGAGAACAGGCTCCTTAGGTCAAAAACCTTGTTTTAAGAGCCACTG
TGGTACAGTCAATGTAACCCACTTGTGTCAGAAAGCCATGCTTCCAAGGAAGGTCTCAGGTTGACAACTAGACATCA
AATCTGAGAAGCCAACCTGTGGAGTAATGTGTTTTTCTCTGTGGACAAGAGTGATCAGAAAGGTGCTTGATCTT
GAACAATTGATCCATGATGAAAAATGACCATTAGCTCTCCCCAGAAAGCGTCTGTGTTTGTGAATGGAGCTGA
GATTTTGATCCGCTATCAGACTCCAGAAAGATCCAGGAGTTCCAAGAACATGGCAAAGAGTCAAAATCTTAGGAC
AAGGAATTAATGCCAGAAATGCAAATGTCCAACAGGCCTGGTAGCTCACAGCTATCAACACCCTAGAATTCCAC
ACTGCCTCACTGCAGTTGCTCAAGGATGGGTATGTTTCTGTCTCTGAAATTCGGGAAAAAGCCTTAAGTGCCAGA
GAAGGTGCTTCCAAGACTGTCTGCAGAAATTCCTTTCCCTAGGCTGTCTCTGGTACCCAAAAGGGCAGAGAAGGA
ACCCTAAGATTAGCATAGAGCCACTCATCTCTCCTCCCCCTCCCCACCCCTTCTTCCCCTGCTTCCATTCCCCATG

GCTCTCTCCTCTGACTGTGAAACACTTCCTCTCCAGCAGTGTTGGGAAAGTTCTGGACCTCTACTGGATCTAGCC
ATAAATGGTGGTCTTCAGAAAAATGGAGATTGTGGCTGCCAGCACCCACAAGACAGCAGCCTCATGCCATGCAGG
CAGCAAGCCATCCTGAACAGCGTTTCTCCAGAGTCTGTTTCTCACCTGCTGTTCACTGGTGAGAGGAAAAGGG
ACTTGTTCTCCCTTGACCAGTTTTCTAGTTTTCTGTTCCACCCCTGGTCTTTGCCTGATGACAGAGAACTTTC
TAAAAAAAACAAAAACAAAAGCTATAAAAAATCTGCAAAAC

3433/5332
FIGURE 2998

GTGCAGCTTGGTGGCGGCTGAGCCGGCAGCGGGCCGCCTCAGGCAGCCCCGGCCGGGCGCCCGGGTCCCCGGCA
GCGGGGTAGGATGGCGCTAAAGCGGATCCAGAAGGAATTAACCGACTTGCAGAGGGATCCTCCTGCCAGTGTTC
TGCAGGACCTGTCGGTGATGACTTGTTCCTGAGGAGCCACCATCATGGGCCCCGAATGACAGTCTTTACCAAGG
AGGTGTTTTCTTCTGACCATCCACTTTCCTACAGATTACCCGTTCAAGCCCCAAAGGTTGCTTTTACAACCAA
AATTTATCACCTAATATCAACAGCAATGGCAGCATCTGCCTTGATATCCTGCGGTCTCAGTGGTCTCCAGCGTT
GACTGTGTCAAAAGTTCTCTTGTCCATCTGCTCGCTGCTCTGCGACCCCAACCCCGATGACCCCTGGTGCCAGA
GATAGCACACACCTACAAGGCCGACAGAGAGAAGTACAACAGACTAGCAAGAGAGTGGACACAAAAATATGCTAT
GTAAGTGCCTTGGAGGTTTTACATGAGACACTGTCCAAGAGAAGCTGGCAGAGAGGTCTTCCCTTAAACTTTGG
GCTGTTGGCTGAGCCATTCAAAGAGCATCATCTGTTCTTCAAACAAATGTTGGTCACCCACTCTCTCCAGCTGCA
GCATGTTGGTGCCATTTTCAGCAATTACGGCTTTGACAGTGCCACCTCTTTGATGCCAAATCAGCAACCATTGTT
GTTATGATCTGCAGTCTTCTGGTGACACTGGAATCTCTCTCTGCGCCTCAGTTTGTCTGCTGGTCTCTTGG
GGGGCCAGGCCCTGCACGTCTCTCCTACCCGGCCTCAAATGGTGCTGCTGCCCATGATGGTACCACACCAGGGCC
TCAGCCTGGCCCCCTACCCACATACCCTTTGCCTTTTAGAACTCAGTGCCATCCTGGGTGCCCAGGGCAGAGCAGG
CTTTGTTTCGCACCTCATCTGCTGCAGAACCCACATCCTGAGGAGTCTCAGCTTATCCTGGAGGGAATTGGGAACAG
TGTCAGTGGGAAGTGAAGGCCTAGCCCTGTGGCTTCCACCAGTCTCCTCCTGCAGTGCCACGTGGTGGCATTCT
CGCCTCACACCAAGAAGCAGCAAGTGGAAAATTTAGGATACAAAGCACATAACCCCCATAAGAGATGATTATG
TTTTTAGAAGCAAGAGCAAAATTATGAAACCTCTAGAGATTTGGGTCATGTTACTCCATTTGATGAAGATTCTCA
CTACCGCCCGCTCTCCCATAGGAGCCTACACTAAGTCCAAGTGTGAGCCATTACAGACTAGAACACAAGGAGG
GAGAGAGACTCTTAAACGTAAATAAAAATGCAATTCACTCACAACCTCT

3434/5332
FIGURE 2999A

TTCTGCCTCCTTCCCAGGCAGGTGTATCCGCGACTCGCGGAGCCTCCGTCACCTTTCACTTCACGGCAGCGGCGC
CCCGCCACACCTCGACGCTTCGGACACCCAAAGAGTTGGAGGGTGGGAAAGTGCGTACCTTCTGGATCCGCTTT
AGCGCCATCCTACCCCGCTGCCGGGGACCCGGGCGGCCCGGGGCTGCCTGAGGCGGGCCGCTGCCGGCTCA
GCCGCCACCAAGTGCACGCCGGGAGCCGCAGCCTGCGCTTGCGCGCGGGGCACTGTGGGGCCGTGCTGCCCG
CGTGCCGAGCGTCTTGCGCGGGCCGAGGGGAAGCAGCGGGGCTGCCCGGGTTACGCTGGCCACCCGCACCTGGTC
CTGTGGCTTCGACCACTAGTCAGCAAGGCCCGGAGAGGCCAGCGAAGAGGAGGGGCTCGTTGGCTTTACGGAGA
CGCGCGGAGCACCTCAAGGTGCCACACGCTCGCCTGCTCCCTGTTCTTACATCCTGGGCGTCTTCCCAGGCTGT
CATATAACTCCTGAGAAATAGTGGTTCTTAACCTCTGATAGAAGTGAATTACTGGGCAAAGGGCATTTCAGATTTGG
GAGAAGTAGCCCCAGAAATAAAGCATCAGAGAGACGAACAGCTGTGGCCATTGCAGATTTGGAATGGAGAGAAA
TGGAAGGAGATGATTGCGAGTTCCGTTATGGAGATGGTACAAATGAGGCTCAGGACAATGATTTTCCAACAGTGG
AGAGAAGCAGGCTTCAAGAAATGCTGTCACTTTTGGGCCTAGAGACGTACCAGGTCCAGAAACTCAGCCTCCAGG
ACTCTCTGCAGATCAGTTTTGACAGTATGAAGAACTGGGCCCCCTCAGGTTCCCAAAGACTTGCCCTGGAATTTCC
TCAGGAAGTTGCAGGCCCTCAATGCTGATGCCAGGAATACCACTATGGTGTGCTGGACGTGCTCCAGACGCCAGGC
CTGTGGAGAAGGAGACCCAGATGGAAGAGGAGATCATCTACTGGGACCAGCTGATGACCTTGCTGCCGACATTT
ATTCTTTTTCTGAGCTGCCCCACCCTGATACGCCAGTGAACCCCTTAGACCTTCTCTGTGCCCTGCTGCTCTCCT
CAGACAGTTTTCTGCAACAAGAAATAGCGTTGAAAATGGCCCTCTGCCAGTTTGCACTCCCACCTCGTGTGCTG
ACTCGGAGAACCCTACCATACATTTCTGCTGTGGGCCATGCGGGGCATTGTGAGGACATGGTGGTCCAGCCCC
CAAGGGGCATGGGGAGCTTCCGGGAAGACAGCGTGGTCTTGTCCAGGGCGCCCGCCTTCGCTTCGTGCGCATGG
ACGTCACTAGCAACTCCAAGTCCAGCTTCTCAACGCCGCTCTCAGCCCGGGCCACAGGCAGTGGGACTGCTTCT
GGCATCGGGACCTCAACTTGGGCACCAATGCCCGGGAGATTTCCGATGGGTGGTAGAAATTTCTGGTTTTTTTC
CCAGCGGAAGGGAGGACTTGGACATTTTCCAGAACCTGTGGCCTTTCTGAACCTGAGAGGTGACATCGGGTCTC
ACTGGCTGCAGTTTAAGCTCTTGACAGAAATCTCTCCGCTGTGTTTATATTGACTGACAATATCAGTAAGAAGG
AATACAAATTGCTGTACTCCATGAAGGAGTCAACCACAAAATACTACTTCACTCCTGAGTCCCTACCGTGGGAAGC
GCAACACAAACCTGAGATTTCTGAATAAGTTAATTCCTGTGCTGAAAATAGACCACTCACATGCTCTGGTAAAGG
TCAGCAGCACTGACAGCGACAGCTTCGTGAAGAGGATCCGGGCCATCGTTGGGAATGTGCTGCGGGCACCTTGCA
GGCGGGTATCTGTGGAGGACATGGCGCACGCGACCCGCAAACCTGGGCCTAAAGGTGACGAGGACTGTGAGGAGT
GTCAGAAAGCGAAAGACCGGATGGAGAGGATTACCAGGAAAATCAAAGACTCGGATGCCTACAGAAGGGACGAGC
TGAGGCTGCAGGGGGACCCCTGGAGAAAGGCAGCCCAAGTGGAGAAGGAGTTCTGCCAGCTCCAGTGGGCCGTGG
ACCCCTCTGAGAAGCACAGGGCTGAGCTGAGGCGGGCGGCTGCTAGAACTTGAATGCAGCAGAACCGCCATGATC
CCTCTCGGGGTGACAGGATTCATCTCGGGGATCAGCAGCCCTCCTTGAGTGAGAAGCAGTACTTCTGAGGT
GGATGGAGTGGGGCTGGCACGGGTGGCCAGCCGCGACTGAGACAGCCTCCGGAGACGCTTCTACCCCTGAGAC
CAAAGCATGGGGGACACAGACGTGGGGGAGCCGCTTGCCCTGAGCCCTAGGGGTGGAACACTTCTTCCGGG
AGATGGGACAGTTTTATGAGGCTGAGAGCTGTCTTGAGGAGGAGGAGGCTGCCGGCAGGGCAGAGGCGTTTTG
CCCACTTCCCAGGCTTGGCCTCGGAGCTGCTGCTGACAGGGCTGCCTTGGAGCTAATCGATGGGAGCACGCTGA
GCATGCCCGTCCGCTGGGTACAGGGCTCCTGAAGGAGCTGCACGTCCGACTGGAGAGACGGTCAAGGCTGGTGG
TTCTGTCAACCGTCGGGGTGCCAGGCACGGGCAAGTCCACACTCCTCAACACCATGTTTGGGCTGCGGTTTGCCA
CAGGGAAGAGCTGCGGTCTCTGAGGGGCCCTTCATGCAGCTCATCAGTGGCTGAGGGCTTCAGCCAGGACCTGG
GCTGTGACCACATCCTGGTGATAGACTCCGGGGGCTTGATAGGTGGGGCCTTGACGTCAGCTGGGGACAGATTTG
AGCTGGAGGCTTCTTGCCACTCTGCTCATGGGACTGAGCAATGTCACCGTGATCAGTCTAGCTGAAACCAAGG
ACATTCCAGCAGCTATTCTGCATGCATTTCTGAGGTTAGAAAAACGGGGCACATGCCCACTACCAGTTTGAT
ACCAGAACCTTCATGATGTATCTGTTCCCGGCCCTAGGCCAGAGACAAGAGACAGCTCCTGGATCCACCTGGTG
ACCTGAGCAGGGCTGCAGCCAGATGGAGAAACAGGGCGACGGCTTCCGGGCACTGGCAGGCCTGGCCTTCTGCG
ACCCTGAGAAGCAGCACATCTGGCACATCCCAGGCTGTGGCACGGAGCACCTCCCATGGCCGAGTGAGCTTGG
CCTACAGTGAAGCCATATTTGAATTGAAGAGATGCCTACTCGAAAACATCAGGAACGGCTTGTGCAACCAAAACA
AAAACATCCAGCAGCTCATTGAGCTGGTGAGACGGCTGTGAGTGTGCAGAGAAACCCAGTTTCAGGTGTAGGAGGC
TGCTGTGGGCAGCCCTGTCTGATGGGGCACCCGTGTGGGGCTGTGCTCTGGTGCCTGAGAATGGCTGGTGCCAA
TCGACATGAGAAGACGAGGAAAAGACAGGGTTTGGAGTCTCCTCAACAGTGTAAAAGAGGAAGTGACCTCACAG
ACCAGCTCAGAGATGTTACCAAGAATATCACAGCCCCAGGGTAGGGAGACAAGCAGCAGTTTGTCTGTCTCAG

3435/5332
FIGURE 2999B

CTCCTGTCAAGGATCCTGCGGGGTGGGCCCTCTGTATAGCTGCTCTCTGTCACTGGCCCCTGGAGTGGGAGCAGC
GTCCTTAGTCACTGCAGGCCCAGGCGGGCAGGTGGTCCCAGGACAGAGGTGGGGAAGTTGTCCTGAGGAAGCAGA
AGTAGGCCTTGCTCCCGCCCAACCCAAGGGCCTCCAGTGGACCAGCATTCAAGATGTGAGTGCCCGTGGTGTGCA
AGGCACTCCCATGGCACC GTATTTATTGACTGATCTGTGAAGGCTTCCCTGACCCCTGCCCAGGAAGAGTTCCT
GGTCGCTCTGTTGTGCCCCACAGCACTTTGTTATACCTCTGCCACACACTTCACGCAGCGCGTTGTAAC TCATGT
GTTTACATGTCTGTCCCCCAGACTGTGAGCTCCTTGAGGGCAGGGACTGTACATTCTCCAGCTCTGTGTCCCCA
GGCCTGGCACATTGTAGACGCTTAATAAATGTCTGT TAAATG

3436/5332
FIGURE 3000

AAGATGGCGGCCTCCGTGTGCAGCGGGTTGCTGGGGCCACGGGTGCTGTCCTGGAGCCGAGAGCTGCCTTGCGCT
TGGCGCGCCCTGCACACCTCCCCGGTCTGCGCCAAGAACC GGCGGCCCGAGTACGCGTAAGCAAGGGGGACAAG
CCGGTGACCTACGAGGAGGCACACGCGCCGCACTACATCGCCACCGTAAAGGCTGGCTGTCGCTGCACACAGGT
AACCTGGATGGAGAGGACCATGCCGCAGAGCGAACGGTGGAGGATGTTTTCTTCGCAAGTTCATGTGGGGTACC
TTCC CAGGCTGCCTGGCTGACCAGCTGGTTTTTAAAGCGCCGGGGTAAC CAGTTGGAGATCTGTGCCGTGGTCCTG
AGGCAGTTGTCTCCACACAAGTACTACTTCCTCGTGGGCTACAGTGAAACTTTGCTGTCCTACTTTTACAAATGT
CCTGTGCGACTCCACCTCCAAACTGTGCCCTCAAAGGTTGTGTATAAGTACCTCTAGAACAAATCCCCTTTTTTCC
ATCAAGCTGTAGCCTGCAGAGAATGGAAACGTGGGAAAGGAATGGTATGTGGGGGAAATGCATCCCCCTCAGAGGA
CTGAGGCATAGTCTCTCATCTGCTATTGAATAAAGACCTTCTATCTTG

3437/5332
FIGURE 3001

CAACAACGAACTGTCTACAGACTGATGCTCGTGAAAGCATGGAACGTGGACGAGCTCCAGGCCTACGCGCAGCTC
GTGTCCCTGGGGAATCCTGACTTCATCGAAGTGAAGGGCGTTACCTACTGCAGAGAAAGTTCAGCAAGCAGTCTT
ACCATGGCCCATGTGCCCTGGCATGAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCCGAATAT
GAAATTGCATGTGAACACGAACACTCTAATTGCCTCCTGATAGCACACAGAAAGTTTAAAAATTGGTGGTGAATGG
TGGACATGGATCGATTATAACCGCTTCCAGGAGCTCATCCAGGAATATGAAGATAGTGGTGGATCAAAAACGTTT
AGCGCAAAGGATTATATGGCCAGAACTCCTCACTGGGCATTATTTGGTGCCAATGAAAGAAGCTTTGATCCCAAG
GACACAAGACATCAGAGAAAGAACAATCAAAGGCTATTTCTGGATGTTGAGATTATCTGATTTCAAGGTACTGA
AGGACAAAACTTGGATGGCCTCAAAAGGTTCTTGAACACCACTCTGATTCTCCAAGGACGAATTACGTAAATTA
TACTTTCATACAAAGGAGACGATAAGGCAGTAAACATGGAGACACGGGGGACAGCGTCCACACTCAGAGGGCCTG
GGCCACAGCCCCGATGTTTCTTTTCAGAACTCAGCCCCTTTCCTGATTTTACTTCTAAGAGGAAAATTATTTTGG
GGAGGAACATACACAGTCGTGATTAGAATTTAACTGATGGTTTTGTATTATAAATTCTAAGACCTGCCAGAATGCT
AGTCCTGAGAGTGTGAGACAAGGAAGAAATCCCTGGGCCTTTCCTCCTCACCTGGCCCTTGGATTTTCATGGAGCA
GCCACTTAGCATTGAATTGCACTACCTGAGCTAAACGTGTCTGTGCTTTCTAAGATAAGAGCTTGATCCCTTTC
TTCTGTCTTAAGACAGCACCTCCTGAAAAGAAATCGAAGTTGTGCAAACTCTCAATTATTTTTTAAATACTGCATA
GATTGAGTTTTGGTTTATTACTAACCCTTCCCAAAATTGCATCGGATCTAAACTACTAGATCTCATCCCATTCC
CATGTAAATTACCACAGACCGCAGTACCGGGGCTGGAGCGGAGTGAAGCTGTCTGCTGTAAGAGGAGTGGCCATG
TGAGGGCATGGAGTCATTAGTCTCACAACACACTTTGGACTGAAGAGGATCATTTCTTTTGTTCGTGAGGTCA
CTGTCCGGGCTCTCATATCACGACCAGACGGCGGGTCTCCATCTCTTTGACTCCTGTGGCCCTCGCTGCTTTA
CACAATCTGTTCTATAAGGTTTCAAGTTTGAAGATCATAAATACTCAAATTTGTTTCAAGTTAG
CAAATTCTTTTAACAGTCTTTTATGCAAAAATTGAATTAATAAAATAATATTTTGT

3438/5332
FIGURE 3002

CAGACACGCTGTGGCGGCTGCCTGAAGCTAGTGAGTCGCGGCGCCGCGCACTTGTGGTTGGGTCAGTGCCGCGCG
CCGCTCGGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGGGTCAGCCCTGGTTTGCCGGCTTC
TGGGTCTTTGAACAGCCGCGATGTCGATCTTCACCCCCACCAACCAGATCCGCCTAACCAATGTGGCCGTGGTAC
GGATGAAGCGCGCCAGGAAGCGCTTCGAAATCGCCTGCTACAGAAACAAGGTCGTCGGCTGGCGGAGCGGCTTGG
AAAAAGACCTTGATGAAGTTCTGCAGACCCACTCAGTGTGTTGTAAATGTTTCCTAAGGTCAGGTTGCCAAGAAGG
AAGATCTCATCAGTGCCTTTGGAACAGATGACCAAACTGAAATCTGTAAGCAGATTTTGAATAAAGGAGAAGTTC
AAGTATCAGATAAAGACACACACAACTGGAGCAGATGTTTAGGGACATTGCAATTATTGTGGCAGACAAATGTGT
GACTCCTGAAACAAAGAGACCATAACCGTGATCCTTATTGAGAGAGCCATGAAGGACATCCACTATTTGGTGAA
AACCACAGGAGTACAAACAGCAGGCTTTGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAACGTGC
TCACATGAGGCTTCAGTTCATCCTTCCAGTGAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGATCAA
GGTCATAGAAAAGTAAAGATTATGGCCAACAGTTAGAAATCGTATGTCTGATTGACCTGGGCTGCTTCCGAGAAAT
TGATGAGCTAATAAAAAAGGAAACCAAAGGCAAAGGTTCTTTGGAAGTACTCAATCTGAAAGATTGAAGAAGGA
GATGAGAAATTTGAATGACACCCATCAGTCTCTTCACCTCTAAACAC

3439/5332
FIGURE 3003

AGGAGCTCGCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGACGCTGTGTGGGCTCAAGATGAAGCTGAAGCAAC
AGCGAGTGTACCCATCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGAGGATCCTGTCATTAAAAGAT
TCCTGGCCTGGGACAAAGGTCTGAGGGTGTCCGACAAGTATCTCCTGGCTATGGTCATAGTGTATTTCAGCCGGG
CCGGCCTCCCCTCCTGGCAATACCAATGCATTCAATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGG
ACGACGAGGACCCCAACAAACATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCTTGCTCCGTA
AGCGTCGGTTCCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCTCAGATAGTCTGTTCCAGA
AACTTCGGTTCCAGTTCTTCTGTTCCATGAGCTGCAGGGCTTGGGTTTCCCCGGAGGAGTTGGAGGAGATCCAGG
CTTATGACCCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCGCCTTTCCCTAGAGCTCCAGGGACCGTGGAGGCC
TGAGGTTCATCGGCCTGAGAGAAGAACACCCGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTATTCGAATG
CTAATGGCAGACACCAGGAAGAAGGAGAGGAACCATTTGTGCAGATCATCTAGAAGAACCTGGACCATTCTTGAT
GGAGCTGAATACAGTGATCATGTTGTCTTACCTAGGAGCAGGGGGAGGGGGTGGGGTCTTCTAGGAGTCCTTG
GAGAAAAGTAAGAAACCAGGAGTGTTCAGTTCCACCCTTTCTGCGGCACCACCACCCTTTTATATTGCTGA
ATTCCAACCTCCCTGGGGCGGAACCTGGAGGTCCTATTTCTTACGGACTTGTTGCCACAGTCCAGGAGCATTG
AAGGCACAATGCAGGGGCTCAGATTGGCACAGAATCTTTTGTGAAATATCAGTGCCACAGATTGTAACAGATAG
CTTCATGCACACTCTGCATTTTATTGGTTTGGTTGGAAAATGTTGGCCATTGAATTATTCATAGATTATTTCAA
ATAGTTTGGAAATTGTTGTACCTTTGAAAACATGCTGTTCTGTAGTTTTTTGATGAGAGTTATAGTTGTTATAT
ATACATAAAGATAATTTTCTTTTCATTTTAAAGAGACAATCTTTTTATCCTAAATATTTTATTATCTTTAAAT
TGTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATACTTCCATAATAATCTCTTCT
ATTTATAGCTATTGGTAGTTCCTACCAGAAAAAACATAATCTGGTGATTGAAATTTTTATTGCTATTTAGG
TTTGTGACTGAATTGTGAGAATTCAGTTGTGATTTTAAACATGTCTCAGATATATATACTAACATGTCTAATATA
TACTATCTATTTTATTGGTTTATTTGAAAAACATGGGTATAGAATTATTTAAATATTATTTTATTATTTAAAT
ATTTATTAAATATATTTATTTATTTAAATATTATTACTACTTTAAATATTATTTTAAATATTTTGGAAATACTGG
TATTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATAACTGTTATATACACATACATATAATT
TTGTTTTCTTTTTAAGAGAGGATTCTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACAC
ATGCTGCTGAAGGGAGCATGGTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGTAGTA
GTTCCCTTAAATTTCTGTAAAAATAAATTTTTATTGATATTTTATATATGTCTGAAATGTGAGAATACAGATGT
AATTTTTTACCTTGTTTGGCATGTTTGTATGTTACTTTAAAGAGGATGTGTGTGCTAAAGGAGGACATGAGCTG
TGTGTTTTCAAGAGAACAATAGAGTGCGTCTCTGGGGAAACATAATAAAATGAACTTTTCTCACCTTC

3440/5332
FIGURE 3004A

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCCAGGCTTTGGCCTCTAGTGGATGAGAATCACCGA
GTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGGGCGGGAGCTGTGCGGCCAGGGTTTCGCGCG
GGCCGGGTAGAGGCTCGAGCCGGGACCCCCGAGCGTGAACCCCGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAG
GCGGGAGGTGGTGGCGGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCGTGTGTCTCGGCGCCTGGCGC
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCG
TAGGCCCCGGCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACGGGAGGGGACTTCGCGAGCAGACGC
GCGCGCCAGCGACAGCAGCCCCGCCCGGCCCTCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGAGGGGGC
CAGTGTCAATCAAAGATGTGGCTGTGGATTTCACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGAGAATAACAGCCATCTAGTTTTCCCTGGCTTATGAGGTGGCAACATCTTGTACTT
CGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCTTCTTCTTTTCCATTAAACAAGATATGATATACCAAGCCA
AACGTCATCATTAAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCA
GCCCTTCACATCCTCAGCCGAAGATCTCACTTCTCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAATCGGTTTGAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCCAGTATTCTGTCTGGGG
GTACTTTCCACCGTGTGCTGGAATGGTTATCACAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGT
AGCCCACTGACTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTTCTCGGATACCAGAGCAGATAATCAGC
TCAACACTGTCTCTCACCATCAAGTAACGCCCCAGACCCATGTGCAAGGAGACAGTACTGAGTGCCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAATATTCCTTGATGGCCAGGAAAATAAAGAGGCGCCAT
GATAGCAGTGGCAGTGGACATTACAGCATTGAGCCCTGGTGGCCAATGGAGTCCCCGCTTCTTTTGTGCCTAAG
CCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCC
ATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACAGTTCTTACAGC
TCCACTCGAGGCATCTCAGAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCAGCCTCTCTC
CGCTCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGTCATATTCCAGTTCTTCAACT
CCATTGGCAGCAGACAGGGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAAT
TCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAGCGGAAAGTTTCAGTGTGCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCTCCACCTCCCCAGCTTGGCTATTGATCACTGCGGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTATC
ACTCAGCCTTCAATTTACCTTTACCTTGCTGCTGTCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGC
ACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCAGAACTGTGCTGGA
GCAGCAACCACTGAGGCCCTCTACCTCCAAAGACACCCAGCCTCTACCCCCGCTGGGTTTATCACAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCTCCTTTGACTCCAAACCCCGACCACTTGTGCTGGGGCTGATCCCTGCTCCA
TCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTCAGGCAGAGACGGCTACCAAACCCCAAGCCACA
TCTGCCCCGTCCCCGCCCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCC
CCTGCTGCATCTTCAGCACCTCCCATGTTCAAGCCATTTTCAGCGCTCCACCAAGAGTGAGAAGGAAGGCCCC
ACACCGCCTGGCCCTTCACTCAGAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAAGCACAGCC
CCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCCCTGCTCCCTTCTTCAAGCAG
ACAATACTCTCCGCCACTGCTCCCAACACAACCTGCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCACGACACGACCCGCACTGCCGCTCACAGCCTTCTCTTGGGGCGCCCCAG
GCCTCTGCTGCCAGCTTACCCCGGCCATGGGCTCCATATTCAGTTTGGCAAACCTCCTGCCTTGCCCAACCC
ACCACAGTCACACCTTACGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTT
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACGTTCAAGTAAACAG
AGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCAAGTCCCGCTCCCATCATATCCGGGAGCCAACCCC
CAGCCCGCATTTGGGGCGCTGAGGGGCGAGCCACCGGGGGCCGCAAGCCGGCCCTTGCCCCAGCTTTGGCAGC
TCTTCACTTTTGGAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGGTGCTG
CCTGCGTACGTGCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTTGAAAGCCACG
GCTTCGGCCTTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCGGTGACGCC
ACCAGCTCCGGCTTTGGAGCCACCACCCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACA
CCATCACCTTACGTTTGGGGGTTCCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA

3441/5332
FIGURE 3004B

GGCTCCAGCACCACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCCTTC
GCAGGGGGCTTAGGTCAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGAGCAGCACA
ACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGC
ACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTTCACCTTTGGC
AACACTTTTGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTCAAAACGCAAACCTGCTGCCT
GCGGTGAGGGCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCCCTTTCCACCAGGAAGGAGTAGCCCCGGAGC
CTCTGCTATGTGCAAGGCGGTGTGCAAGCACC GGCTGCAGCTTTTTGCTCTCTTCTTTCTTTGGGGCTGGGCT
GGGTGTGCGTTCTGGTGTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTACGTCGGCATCTCGACCCGTTCAATTACAGCAACGAAGA
AGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGT
GGGGCCGGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTACCC
CATCCCCCTCCACGACCCTGGCGCACGCCCTGTACCTGAAGGCGCCGGGTCTGCTGCAGCGCATCTTGAC
CATGTTCTTATTCTCCTCTGCGCAGAGGAGCATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAGTGAGCGC
GTGGCACAGGGCTCGCTGCTGGAACCTGCCAGGCATGCAGACGACCGGGCTAGGTGTCCCTGCCCGGGCTC
CTCCAGCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCTG
AAATCCTCGCTCCTGAAATCCTCGCTTCACAGAGGAGAATTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTC
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCTGAGTCCCTCAGCCACGCCCTTCTCAC
CATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGCGGATCTAAGGGGA
GACCGCCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAGCCAGGCCAGCAGCGTGGCCATGGATGC
CAGCCGCTGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
ATGGAGCAGCTAAGGGCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATT
GAAACAGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGTAAGGGATC
CACATCTCACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAATACTTTGGTGCAGCAGGAAAGA
GTTAAGCGAAAGTCATCTTTAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCTCTC
CTCCTGTGGCACTCACCTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGCTGGGGTGGCACAGG
CATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAACACAG
GGGCCGGGTAAACAGAGACCCAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCC
TACCCTGTCTGCAGATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTATGCAGATCTGTCTGGGCGGGAAACAC
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCCTTGAGGGCTCGTAAGTCATCGAGGCTGCCAGG
GAAGAACCATTATTCATCATTTCTGAAATTTCTCCCTGCCAGGCCCTATTCAACGGTCCATTTCATGCAACAA
TGTTACCACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTGTCA
AGCCAGACTTATGGGTACAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
GCCCCACTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCA
CAATTTAATAAATGTTAGCTATTCTGTTGAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGT
GGGGAAGTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATT
CACTATAACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGGGAGTCACATGTCTCA
GTTTCAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGT
CCAAGCAACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAGGGAGAGGGGCAGAGGCTGCTT
CTCAGAGCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTG
TTGCTGGCACGCTGGTGCAGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
CCAAGAAAGGACTTAGCATGGCCGGGCGCGGTGTTTCATGCCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGG
CAGATCACCTGAGGTGAGGAGTTGAGACCAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAA
ATTAGCCAGGCATGGTGTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG
TGTAAGAAAGGAAGACATAAGAAATTCCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAAT
TTGTGACTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTG
TGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

3442/5332
FIGURE 3005

AACATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTG
GTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTG
CTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCAGAAGAAGCTGCAGCCGCACCTGGCCAAGGGTGCTAGT
GTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACCAGGCGAG
GTGTTGAGTTGGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGC
CTGGTCCAGCCTCCCAGCTGCCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTATTT
CAAGAGACAAGGTTTCTCCTATCAGGGTCCGGGCTTCCAGGCTGGATGGAGTGCCCTGGCGCGATCTTGGCTCACC
GCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCTTCAGCCTTCTGAGCAGCTGGGATTATGAAGGGGTGGC
CTGCCCCCTCCACATCTGTGGGATATCTCATCAGCCTCGATGACTTACGAGCCCTCAAGGGGAAGCATTTCCTCTCT
GGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGG
ACACCTCATTCTGCAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTCATG
GATGCCTGTGCCACCCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTTTGC
CTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGGGCTGGCGTCTCCTGCTGTGAGCT
GGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATCCGCGCTATCGTGAGGTCCACTATGTCCTGCTGGATCC
TTCCTGCAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGAGCCCGGGGCAGGGACACCTAGCCCGGTGCGTCT
GCATGCCCTGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCTTCCCTGCAGCGGCTCGTCTA
CTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCGCTGCAGCAGAACCCGGGCGCCTT
CAGGCTAGCTCCCGCCCTGCCTGCCCCGGCCCCACCGAGGCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCG
GGCTTCCCCCAAGACCACGCTTAGCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGC
CTCACAGGCCAAAGCATCAGCACCAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGAGCAAAAAGCTG
CAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGGCTCACTCCTCCTGGTGGGAAAGGAAGATG
CCTGTCTCTCCGTGGAAGACCTGGGCCCTCACCAGGAGCAGAGTTTGCCTTTGAAAGGTTATTGGGTCCCT
TCCTCGGGCTGTGTTCTTGCTGGTGAGCAAAAGTGTTCCTGCAGAAATAAATGCAGAACGTACTCT

3443/5332
FIGURE 3006

GCAATTCTCATGTCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGGAGGCAGAGGTTGCAGT
GAGCTGAGATTGCACCACTGCACCCAGCCTGGGCAATAAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAA
AGGTGCATGAAACATATGAAGCAAAAAGTGAAAGTCCCCATTCTTTTCCTTTTCCAGAGGTGATTTTGTGGCC
AATCTGGTTTCATTCCCTCCCAGACACTTTTCTAGGCATCTATGCGCCTCTATTACATATTAAACAAAATAGGAG
TTTTCCTGTGCTTCCCTTAAATGGCATATGTATCTTTCACTCTTTTTTTTACCTAGTGGATCTTTAATACCTTA
AAAGCTCAACCTGGGCTTGGTGCGGTGGCTCATACGTGTAATCCCAGGCCTTTGGGAGGCCAAGGTGGGAGGATC
ACTTGAGCTCAGGAGTTCCAGACCATTCCAAGCAAAAACAAAAGGATTTTGAGATCAGTGTGGGCAACTTAGCA
AAACACCATCTCTT

3444/5332
FIGURE 3007

TTTCATCGTTTCTGCTTACCCTACTTTTCTTTCCCATCCTGATCCCTCTCCCACCAGACTGGACTCTGAAACGGG
CATGTACAGAGAAGAGGAGACCCCAACACGCTTCAAGCTTTGAGTGGAGAGGACACAGCCTCTGCTGGGACAGGG
AACAGAGGGATGCGGAGACCCTGAAGATGCTTTTGGACAGTGGTCTGAGGTTGGGACAGTGGCAGGAGATACCAT
TCACCCAGGATCTCCAGGACAAGAGATCAGCCTGGCAGTTACATGTGTTTTTTTTTCAAACCTGGTTGCCAGGTTGG
CATGAGCGATGACATCAGAGATTCCGACCTTCCTGATTGGAGGGACCGGACTCTGTGGGCACCTGGGAGTTTCACT
TGGACAACAGTAACCTTCTCAGAGCTGTTCTCCACTCCTGACTTCTCCCAGCCTCGAGAATTGATAACACACTCTT
CTGGATCCCAGCAGTGTCCAGAAGAAGACCAAGGACAGAACAGAGACTAGGTTTGGTGAGATGGGACAGATTTTG
GGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCGGAGCCCCAGCGGAGCACCTCAGGGTACCCC
CTCCAGGAGGTGGTGGATGATGAAGTGTCTGGGACCATCAGGTGAGGGGACTGGAGGAAGAAGAGGTGGCATAGGA
TTGACTAAGATGAAGGAAGGGGGCCAGGCGTGGTGGCTCACCCCTGTAACCCCAACACTTTGGGAGGCTGAGGCG
GGCAGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAACCCCATCTCTACTAAAAGTACA
AAAATTAGCCAGGCGGTAGTGGTGTGTGCCTATAATCCAGCTACTTGGGAGGCTAAGACAGGAGAATCACTTGA
GCCTGGGAGGAAGAGGTTGCAGTGAGCCGAGATCGTGCTACTGCACTCCAGTCTGGGTGACAGAGTGAGATGCTA
TCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAGAAAAAAAAAGAGGGTCAGAGGTCAGGAAGGAGA
ACCTGGGGAGGGTGTGTGGGAAGAATGGAGAAATTCAGGCTGGGTGCAGTGGCTCACACTTGTAATCCAGCACT
TTGGGAAGCCAAGGCAGGCGGATCACTTGAGGCCAGGAGTTTGAAGCCAGCCTGGCCAACATGGTGAAACCTGT
CTCTATTAAAAGTACAAAATGGAGCTGGGCATTATGGCAGGCACCTGTAATCCAGCTACCTGAGAGGCTGAGGC
AGGAGAATAACTGGAATCCGGGAGATGCATGTTGCAGTGAGCTGAGATTGCACCACTACACTCCAGCCTGGGTGA
CAAAGCAAGATTCTGTCTCGAAAC

3445/5332
FIGURE 3008

CCCCAAGCCACATCTGCCCCGTCCCCGCCCCCAAGCAAAGCTTCCTGTTTGGAAACACAGAACACCTCACCTTCC
AGCCCTGCCGCCCCTGCTGCATCTTCAGCATCTCCCATGTTCAAGCCATTTTCACGGCTCCACCCAAGAGTGAG
AAGGAAGGCCCCACACCGCCTGGCCCTTCAGTCTCAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACC
AGCACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCCCTGCTCCC
TTCTTCAAGCAGACAATACTACTCCCGCCACTGCTCCCAACACAACCTGCCCGCTCTTCACTGGCCTGGCCAGCGCC
ACCTCTGCTGTGGCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGC
ATAAACAGTGTGAGCAGCAGAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTTCCTCTTC
GGGGCGCCCCAGGCCTCTGCTGCCAGCTTACCCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCC
TTGCCACAACCACCACAGTACCACCTTCAGCCAGTCCCTGCCACTGCCGTGCCAACGGCCACCAGCAGCAGC
GCTGCCGACTTTAGTGGTTTTTGGCAGCACCTTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACG
TTCAGTAACACGAGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCG
GGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCGCCACCGGGGGCCGCCAAGCCAGCCCTTACCCCC
AGCTTTGGCAGCTCTTTCACTTTTGGAAACTCTGACGCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATG
ATCAAGATCGTGGCTGCGCACGTGCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGCGTTTGGG
TTGAAAGCCACGGCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGTCCACTGCTGTCTTC
TCCTTCGGTGCAGCCACCAGCTCTGGCTTTGGAGCCACCACCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTG
TTTGGCAGCACAACACCATCACCTTCACGTTTGGGGGTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATC
AACGTGGCCACCCAGGCTCCAGCGCCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCC
ACCTCCACCCCTTCGCGAGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTC
AACGTGGGCAGCACAATACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCTGAACACCCCT
GCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGT
GTTGCACCTTTTCGGATCGGCGGCCCTTCATTTTCCATTGGTGCGGGATCCAAGACCTTAGGGGCTCGACAGCGA
CTGCAGGCCCCGAAGGCAGCACACCCGCAAAAGTAGCCTTTGTCCCTGTCCCTGTTCCCCCACCCCTTCCCTA
AATCTGGACCTTGGCACGTGCTAGAAAGAGCCTTGGACCTTCCAGCTGCGTAAAGCAAACCTACCCCGGATCTC
TGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGGGCCCTTCCCTTCTGGAGGAAGCACAAGCCTCAGGGAAG
GGGAAGCAGGATGCGGAGGGCCAAAGCCCGGACCTTACTTGAACAGTTCCACTGGGGAGGCTGGAGAATAAG
GAAACACCTGTACATAGTGTCCGCTGCCCTGACTCCCGCTTAGCGCACCTTAGGCAGGCGCCCCCTTCCACCTT
CCCCGAGAGCCGTCGTCGCTGGAGGGGGCAGGGTCCAGCCCGCCTGGATCGGTGGTGTGCACCTGATGGGATTG
GGAAATGGGCTATCCGTAAAGCTTTATCTTGCTTGGCTTAGCTGTGAGAAGTGGTTCCTTCCCTCTGGTCCCTC
TGGGGACTCTGTTTCCCATTTCTTGCTGTGTGTCCTCACCAGTTCCCTGCAGGATTCCCTCCTTTTTAAATG
CCCTTGAATCTAGCTTTGCCTTGGAGACCCAGTGGGTGCTGCTCCTGCCATTTTCTTCTGCCAAGCCTGAATC
AATGTTTCATCTCCAACCTCTGCCAGTTTGGCCCTCAGAGCTTGGTGGCTCAAGACTGTTAGCCTGGCAGAGC
CAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCCACCGCTGCTTCAGCTGCCTCCTCGCCAGCTACC
CTTGGCCCCATTGGGCCCTCGTCTGCCTCTCCAGGATTGTATGTTTCAAGCCTTGCCTGTGTTCTTTGTCTG
ACGCTCTGTGTATTGCTCTTTGAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGGTAGTG
CCGGACTTCTGTTTCAAGTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAGCACCACTTGACGGCTACAAG
TGCCGACTCCTGAATTTTCCATGGTGTCTGACTTCAAGGGCTGGCAGCCAGGGAGAATGGGCCAGGGGAAGC
AAAGACCTCTTCCCTCTGCCGTTTCTGTCCCACTTAAGTACCTCACTGGAGGCTACATACCCCAAAGTAGATGT
TAGAAAACCTAAATTAATGAACCATATTTTAAATCCTATTTTCCCAAAC

3446/5332
FIGURE 3009

AAAGGCGCGCGGGAACATGGGGCTGTATGCTGCAGCTGCAGGCGTGTGGCCGGCGTGGAGAGCCGCCAGGGCTC
TATCAAGGGGTTGGTGTACTCCAGCAACTTCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCG
CTACTCCGCCGTGCTGGATGCTGTGATCGCCAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCT
GGCCAAGGTGCTAGTGTATGAGTTGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCGATGGAAGGCTCTGTT
GGGCCGGCACCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTGTGAGCCGGAATGAGGA
CCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCAGCTGCCTCGATTGTGCGTGTGAACACTCTCAAGAC
CTGCTCCGATGATGTAGTTGATTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGA
CTTACGAGCCCTCAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGAC
AGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAGCTGTCTCCAGCCAT
GCTGCTGGACCCCCCGCCAGGCTCCCATGTCATCGATGCCTGTGCCGCCCCAGGCAATAAGACCAGTCACTTGGC
TGCTCTTCTGAAGAACCAAGGGAAGATCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCT
GCTGGCCCGGGCTGGCGTCTCTTGCTGTGAAGTGGCTGAGGAGGACTTCCTGGCGGTCTCCCCCTCGGATCCACG
CTACCATGAGGTCCACTACATCCTGCTGGATCCTTCCTGCAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGA
GCCCCGGGCAGGCACACCTAGCCCGGTGCGTCTGCATGCCCTGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGC
GCTCACTTTCCCTTCCCTGCAGCGGCTCGTCTACTCCACGTGCTCCCTCTGCCAGGAGGAGAATGAAGACGTGGT
GCGAGATGCGCTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCTGGCCCCACCGAGGCCT
GAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCCTGAGACCACACTCAGCAGTGGCTTCTTCGTTGC
TGTAATTGAACGGGTGAGGTGCCAAGGTGAGTGGGGGCGTGCTTGGGAGGCGCAGGATGGCACCCGGCACA
TCTAACATCTACACTTCTCTAGCTCAGCCTCACAGGCCAAAGCATCAGCACCAGAACGCACACCCAGCCCAGCCC
CAAAGAGAAAGAAGAGACAGCAAAGAGCCGCGAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGG
CTGACTCCTTCTGTTGGGAAAGGAAGATGCCTGTCTCCTCCGTGGAGGACCCTGGGCCCTCACCAGGGAAGCA
GTTTGGGTTTTGAAAGGTTATTGGGTCCCTTCTTGGGCTGTGTTCTTGCTGGTGAGCAAAGTGTTCCTGCAAA
AATAAAATGCAGAACGTACTCT

3447/5332
FIGURE 3010A

CGTTGCCCGGGCCCGGGGAGGAGGGGAATCTCCCGCCATTTTCAATAATTTCTCCGGTGCTGCTGAGGAGGA
GTCGTGACTGCCGGCCGCGGGACCCGAAGCGGAGGTCGGCGGGGGGCTGCTGGGAGGCGCGCGGTGTGCGCGG
GAGCTCTGCGCGGTGGCGTTCCGCTCCATGACTGTCGCGCGGCGCGCGCGCGGTGAGGGAGCCGGAGTTCGCGC
CGCCCTCTACCCCTCCCTTCCCCACCCACCCCGGGCGCTGGCGCTCGCTCCGGGCGCGGGGCTAGTGC
TGCGCGCGGGGCGGGCCAGCAGCCGCCAGTCCCCACCGCGCGCGCGCGATGCGCGCGCTCTGGGCCGCAA
GCCCTTCCCGCTGGTGAAGCCGTTGCCCGGAGAGGAGCCGCTCTTACCATCCCGCACACTCAGGAGGCCCTCCG
CACCCGGAAGAGTATGAAGCCGCTTGGAAAGGTACAGTGAGCGCATTGACGTGCAAGAGTACTGGAAGCAG
TCAGCTAACACACAAGGAAGCCTGGGAGGAAGAACAGGAAGTTGCTGAGCTTTGAAGGAGGAGTTTCTGCTG
GTATGAGAAGCTTGTTCTGGAATGGTTACCATAACACAGCCTCCTTAGAGAAGTTAGTAGATACTGCTTGGTT
GGAGATCATGACCAAATATGCTGTGGGAGAAGAGTGTGACTTCGAGGTTGGGAAGGAGAAAATGCTCAAGGTGAA
GATTGTGAAGATTTCATCCTTTGGAGAAAGTGGATGAAGAGGCCACTGAGAAGAAATCTGATGGTGCCTGTGATTC
TCCATCAAGTGACAAAGAGAACTCCAGTCAGATTGCTCAGGACCATCAGAAGAAGGAGACAGTTGTGAAGAGGA
TGAAGGAAGGAGAGAGAGTATTAATGACAGAGCACGTAGATCGCCACGAAACTTCCTACTTCATTAAGAAAGG
AGAAAGGAAATGGGCTCCTCCAAATTTCTGCCTCACAAATATGATGTGAACTACAAATGAAGATAAGATCAT
CAGTAACGTGCCAGCAGACAGCTTGATTGCTACAGAGCGCCACCAATAAGGAGATAGTTTCGATACTTTATACG
GCATAATGCATTACGAGCTGGTACTGGTGAAAATGCACCTTGGGTCGTAGAAGATGAATTGGTGAAGAAATACTC
TCTGCCCAGCAAGTTTCACTGACTTTTACTTTGATCCATACAGATATGACTCTCAACCTTCTACTAAGAGGAA
GAATACTGATCCCGACAGAGGAGCCCTCAAAGAAATCCAAGACAGACAACCTTCTCTTAGTTTACCCTAAA
TCCTAAGTTATGGTGTACGTACACTTGAAGAAGTCATTGAGTGGCTCGCCACTCAAAGTGAAGAACTCAAAGAA
TTCCAAATCTCTGAAGAACATCTAGAAGAAATGATGAAGATGATGTGCCCCAATAAGCTGCACACTAATTTCA
CATTCTTAAAAAGGCCACCTGCCAAGAAACAGGGAAGCACAGTGACAAGCCTTTGAAGGCAAAGGGCAGAAG
CAAAGGCATCTGAATGGACAGAAATCCACAGGGAATCCAATCTCCAAAAAAGGACTGAAGACTCCTAAAAC
CAAATGAAGCAGATGACTTTGTTGGATATGGCCAAAGGCACGAGAAGATGACACGAGCCCCACGGAATTCTGG
GGGTACACCTAGGACCTCTAGTAAACCTCATAACATCTGCCTCCTGCAGCCCTACACCTCATTGCATACTACAA
AGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCTGTGTTATCTCCAAAACAGCTCGTCTTCTCTAG
TGAAGATAGAGCTCGTCTCCAGAAGAATTGCGAAGTCTTGTCAAAAACGCTATGAATTCTAGAGCACAAAA
GAGGTGGGCTTCTATGTCTGAAGAACAACGGAAAGAATATTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAGTT
GAAGGAAAAAGCCAAAGAACGAAGAGAGAAAGAAATGCTTGAGAGATTAGAAAAACAGAAGCGGTATGAGGACCA
AGAGTTAACTGGCAAAAACCTTCCAGCATTGAGTTGGTGGATACCCCTGAAGGGCTGCCCAACACGCTGTTTGG
GGATGTGGCCATGGTGGTGAATTTCTGAGCTGTTATTTCTGGGCTACTTTTACCAGATGCTCAGTATCCTATTAC
TGCTGTGTCCCTTATGGAAGCCTTGAGTGACAGATAAGGGTGGCTTTTATACCTTAACAGGGTGTGGTATCCT
CTTACAGACCTCCTACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTGCGAAATCCCTT
GACTCTGCATTCTGTTTCAGAGCTGGTGGGCTCTGCTTGGCAGATCTGATGTTTCAAGGAGAAAGCGAGGGCTC
AGACACAGATGACAATAAAGATTGAGCTGCATTGAGGATAATGAGGTACAAGATGAGTTCTAGAAAAGCTGGA
GACCTCTGAATTTTTTGAAGCTGACGTGAGGAGAGAAGCTACAGATCTTGACAGCACTGTGCCACCGGATCCTCAT
GACATACTCAGTGCAAGACCACATGGAGACCAGACAGCAGATGTCTGCAGAGTTGTGGAAGGAACGGCTTGCTGT
GTTGAAGGAAGAAAATGATAAGAAGAGAGCAGAGAAACAGAAACGGAAAGAAATGGAAGCCAAAAATAAGAAAA
TGGAAAAGTTGAGAATGGGTTAGGCAAACTGATAGGAAAAAGAAATGTGAAGTTTGAAGCCCAAGTAGATAC
AGAAGCTGAAGACATGATTAGTGCTGTGAAGAGCAGAAGGTTGCTTGCCATTCAAGCTAAGAAGGAACGGAAAT
CCAGGAAAGAGAAATGAAAGTGAACTGGAACGCCAAGCTGAAGAAGAACGAATACGGAAGCACAAGCAGCTGC
TGAGAAAGCTTTCAGGAAGGGATTGCCAAGGCCAACTAGTCATGCGCAGGACTCCTATTGGCACAGATCGAAA
CCATAATAGATACTGGCTCTTCTCAGATGAAGTTCCAGGATTATTCATTGAAAAGGCTGGGTACATGACAGCAT
TGACTACCGATTCAACCATCACTGCAAAGACCACACAGTCTCTGGTGATGAGGATTACTGTCTTCGAGTAAGAA
AGCAAACCTTAGGTAAGAAATGCAAGCATGAACACACAACATGGAACAGCAACAGAAGTTGCTGTAGAGACAACCAC
ACCCAAACAAGGACAGAACCTATGGTTTTATGTGATAGTCAAAAGGAGCTGGATGAGTTGCTAAACTGTCTTCA
CCCTCAGGGAATGAAGAGAAAGTCAACTTAAAGAGAGACTAGAGAAGAGGTACCAGGACATTATTCATCTATTCA
TCTAGCACGGAAGCCAAATTTGGGTCTAAAATCTTGTGATGGCAACCAGGAGCTTTTAACTTCCTTCGTAGTGA
TCTCATTGAAGTTGCAACAAGGTTACAAAAGGAGGACTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCG

3448/5332
FIGURE 3010B

GGTAGATGTGAAGCTTAAAAAGAGATCAGTGAAGCAGGAGGATCGCTTCAGGCCAGGAGTTTGAGACCAGCCTGC
GCAACATAGTCATTTTCATTAGAGAAATTGAAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAGTGCATAA
AGAAATTTCTCCAAGGCTTCATGGCTCCCAAGCAAAAGAGAAGAAACTCCAAAGTGAAGATTACGCAAAAACCTG
AGGAAGTGGATGAAGAGAAGAAAATGGTAGAGGAAGCAAAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAA
TCCGGGAAGCTCAGACTTTCTCCAGGATGCACGTGCTGCTTGGGATGCTTGATGCCTGTATCAAGTGGGATATGT
CCGCAGAAAATGCTAGGTGCAAAGTTTGTGCAAAAGAAAGGTGAGGATGACAAATTGATCTTGTGTGATGAGTGTA
ATAAAGCCTTCCACCTGTTTTGTCTGAGGCCGGCCCTCTATGAAGTACCAGATGGTGAGTGGCAGTCCCCAGCTT
GCCAGCCCCGCTACTGCCAGCGCAACTCCCCTGGCAGGAAGTATACTGAAGAGTCTGCTTCTGAGGACAGTGAAG
ATGATGAGAGTGATGAAGAGGAGGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGATTATGAGGTGGCTGGTTTGC
GATTGAGACCTCGAAAGACCATCCGGGGCAAGCACAGCGTCATCCCCCTGCAGCAAGGTACAGGCCGGCGCCCGG
GTAAGAAGCCACACTCTACCAGGAGGTCTCAGCCCAAGGCACCACCTGTGGATGATGCTGAGGTGGATGAGCTGG
TGCTTCAGACCAAGCGGAGCTCCCGGAGGCAAAGCCTGGAGCTGCAGAAGTGTGAAGAGATCCTCCACAAGATCG
TGAAGTACCGCTTCAGCTGGCCCTTCAGGGAGCCTGTGACCAGAGATGAGGCCGAGGACTACTATGATGTGATCA
CGCACCCCATGGACTTTTCAGACAGTGCAGAACAAATGTTCTGTGGGAGCTACCGCTCTGTGCAGGAGTTTCTTA
CTGACATGAAGCAAGTGTTTACCAATGCTGAGGTTTACAAGTCCCGTGGCAGCCATGTGCTAAGCTGCATGGTGA
AGACAGAAGCAGTGTCTAGTGGCTCTGTTGCATAAACACCTTCTGGCCACCACATATGTCCGCAGGAAGCGCAAGA
AGTTTCCTGATAGGCTTGCTGAAGATGAAGGGGACAGTGAGCCAGAGGCCGTTGGACAGTCCAGGGGACGAAGAC
AGAAGAAGTAGAGAGGCGAGGCCGTGGTGACAGTATCAGTGAGTGCCATACAGAATTGTGTATTACCAGCATCA
TGAAAACAGTTGTGGTCTTTTGAGTTGATCTTGGCAGAGTAAAGGGACGTGCTCTGGAGCCATTCTGAATCTCCC
CTTCTTTGTGACAGCTCCTCCACCCCCCAAAAAATAAAAAAACCAAAAAACAAAAAACAAACTAAGGCA
CTTCACTTAGAGACTGGAGTCTGCTTATAATCATGCATATAACCTTTACTTTGATGGATCTGGCCAGAGGGGTG
TTGGAGCCCAGCCCACCCACATACCAGTCAAGCTCTTAGGGGAGCAGAAGAAAAGCAGGAAGAATTTAAATGTTT
AATTTTTTTTTTAAATTGACTTTTCTAGTTATTAAAAGTTGCTTGTTCAGCAGTGATATTGTATAAAGACATC
TTGTAAGATACTCCTGACATCTTGCTTTAGCACATGTACAGTACAGTTTCTATGATAATGTGTTTGCTCTAACTT
CCCTGGCTTCTCCTTCAGCCCATCCACTCTCCTCTAGAGCAGTTGGGTTGGAGGCTCATTGAGGCAAGCAGCAAC
ATTGGAGGGGGAGCAGGGCAGTGCTGTGTCTGCTGCCCTCCCATGCCCGTTCTGACCTCAGCCTTGGAACCTCTCA
AGAACCTGAAGATTCCAGTGGTCAGTGTCGGTGGGGGGTGGGAGGAGAGAGCGGCAGAGAAGCTCTGAGAGCQCC
TTCCCCCACAACAAATCTAGCTCTAGTTGTTATATTTAGGCAAAACTTTGTAGTCTTCTTTCCCTTTTATGATGG
ATTTTGATAAAAGTACAAAACAGGGTTTTTCTTTTTTATCACCTTTGAATTTGGAAATTTTGAGCACCCAAGCTC
TTCTGTACCTATTTAAAGTCCACCAAGGGGACTGCAGCTCCTAGAACATGAGAATCAAGCCTCTTAATTTTAAAC
TGCGGAATGTGGCTCTGCTTCTCCTCCGTCTCTGCCCAAGGACGACGAGGATTGCTCCAGGGCTGCTGGGTAGT
TTACCGTCCCTTCTATAGGCATGGAGTTGGCACTGACATCACAGCTTCATAACCCACCACCGCCAGCTTCCCTT
GCCTCCTACATCCAGTCTGTTCTTGTTCATAGTGAGAATCCTGTGTTCCCACTTCAGTGACACCTGAATTGTTTG
TTGTTGTTTTTTTTTTTTTATTGCTTTCAAAGAGGAAGGGCCCCATTAAAGGGTGAACCTGTAATAAATTGGAATT
TCAAATAAACCTCATGTACTTGTGTTTATAAAGAAGAAACCA

3449/5332
FIGURE 3011

GAGATGGCGCAGGAGTGCGGTTCCACAGGGTCAGGTTCCCTAACACGCTGGCCAGAGCAGGGAGCCGACCTCCAAA
CTCTCAGGGGAAGAGAACCAGGTTGCCACCGGCGGCACCTCGCACCTCGCCCTGACCACAAGCACGTGCGCCCAA
CCCGCCTCGCACCCCGGCGCCGGGTAGGGGGCTCAGGGGACTCCCGGGGCACTCAGGAGGGACGCCCCGGGCGGGG
CGCGCAGGCGCGCTGAGGCCGTGAGCCCCAAGGGGCGGGCGGGTGCGCGCGCTTTCTCGCGCACGCGCGCACGGA
GGGGGCGACGGCCGCTGTGACGCTGCGGCGGCGGGCGGGCGGGCGGGCGCGGTGAGGCGCGCGATCCCCGGTGTC
TTGGGAGCAGTGCCCCGGCCCCCGCGCTCCCGCGCGCCGCCATGTCGGGCGCGGTCCGGTCCGGCGGAGACCCGCA
GCCGGGCCAAGGACGACATCAAGAAGGTGATGGCGGCCATCGAGAAAGTGCGGAAATGGGAGAAGAAGTGGGTGA
CTGTGGGTGACACGTCCCTGAGGATATTTAAGTGGGTTCCTGTGACAGACAGCAAGGAGAAAAGAAAGTCAAAT
CGAACAGTTCAGCAGCCCGAGAACCCTAATGGCTTTTCCTTCTGATGCCTCAGCCAATTCCTCTCTCTCTTCTGAAT
TCCAGGACGAAAAACAGCAACCAGAGTTCCGTGTCTGACGTCTATCAGCTTAAGGTGGACAGCAGCACCAACTCAA
GCCCCAGCCCCCAGCAGAGTGAGTCCCTGAGCCCAGCACACACCTCCGACTTCCGCACGGATGACTCCCAGCCCC
CAACGCTGGGCCAGGAGATCCTGGAGGAGCCCTCCCTGCCCTCCTCGGAAGTTGCTGATGAACCTCCTACCTCA
CCAAGGAAGAACCAGTTCCTACTAGAGACACAGGTCGTTGAGGAAGAGGAAGACTCAGGTGCCCCGCCCCCTGAAGC
GCTTCTGTGTGGACCAACCCACAGTGCCGCAGACGGCGTCAGAAAGCTAGCACCATCCCGCCCCCTCCGCTCCTG
GCCCTGCCTCTATTTATTGCATTCTGGTTCTGGCGCGCGCGCTTGTGGGGTAAGGGCAAGCACTGGGGTCAAG
AGCCTGCACACATGAGCCTTCCGGGCTGGAAGGCTGGCGTAGGACTTGGGGCTGTAGCATCATCTTCTGACCCT
GGCACCTGTGTCTACTTGCTCCCGAGAAGAGGAGCGCTCATGTCTTTTTTGCACCCCAAGTTGGCTGGAGCATCG
GCCACCCCAAGATTCTGTGACCTCCAGGCAGCAGTCTCTGCTCCAGAATCTCTGGACGGAGCTGCTGGCAGC
TTCTGCGAGAAGAGAGAGATGTGGAAGGCACCTTCTAGAAGAGAGCGTGCCTCAGGTTACTTGAACCTGAACGGA
GACTGTAGACTCCCGGACTTTCCCTTAGGACTGGGGGCCCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATT
GGAGGGAAGGGAAGGGCTTTTCTCCACACAAGGGCAGAGAGTCCGTCTAGATTTCTTGCTGTCTGCCAGCTCTG
CCCATGCCTGAGGTGGTCTACCTCTCACGGGCACCCTAGCTGCTGACAGCCCTTTGTGGCCGCGCTCCCATCC
CCTGCCCTCAGCACACACATCTGCACACACGCAGCTTTGTTCTCACCTCTACCTGTCTATCCAGCATCCCTGCCT
CTTGTCAAACTGCCCCAGCAAGAATTTGAGGTTCTGACAACAGTACCCATCCCCACAGTACCCCTTCAGCTC
AGTTTCTAGAAAGCTCCCTTTTCTTTGAAATCTGCAATGTTGAATTGAACCTTGTGATTTATTTTTTGTTCAAA
AAAGTTTAAGAAAATGGAATGGGCAACAGTGAGTGAAGACATATTTTAGCACTGAATAGAATATTTTTTAAAT
AACTATTTGAAATATG

3450/5332
FIGURE 3012

GGCCAGGCCGCGCCCCCGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCTACTACTAGCTGAGGT
GGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTCGGAGCTCATGGGGCTGTCGGTGTGCTTGGGCTGCTG
GCCCTGATGGCGACGGCGCGGTAGCGCGGGGGTGGCTGCGCGCGGGGAGGAGAGGAGCGGCCGCCCGCCCTGG
CCCAGGAGCTTTTTCTGTGGAATTGGGGAGCATCTGCAGTCATTACCACATGCCAGCTTGTGACTCAATT
AAGTATCTTTTACAAAAGTGACTGGCTCCACTCCCCCGCACAGGACTCAACAGATGTTGACTTCTCATCCCCGAG
TTCTTTCAGGCCAAAAAGCAAATGGATTTCACCTGCACAAATCTTCGGGATCCAAGAAGCAGAAAACATATCAGC
GGATTTCGGAAGGAGAAGCCTCAACAACACAACCTTCACCCACCGCCTCTGGCTGCAGCTCTGAAGAGCCACAGCG
GGAACATATCTTGCTGACTTTAGCAGCAATGGCAAATACCTGGCTACCTGTGCAGATGATCGCACCATCCGCA
TCTGGAGCACCAAGGACTTCCTGCAGCGAGAGCACCAGCAGATGAGAGCCAACGTGGAGCTGGACCACGCCACCC
TGGTGCCTTCAGCCCTGACTGCAGAGCCTTCATCGTCTGGCTGGCCAAACGGGGACACCCTCCGTGTCTTCAAGA
TGACCAAGCGGGAGGATGGGGGCTACACCTTCACAGCCACCCAGAGGACTTCCCTAAAAAGCACAAGGCGCCTG
TCATCGACATTGGCATTGCTAACACAGGGAAGTTATCATGACTGCCTCCAGTGACACCACTGTCTCATCTGGA
GCCTGAAGGGTCAAGTGCTGTCTACCATCAACCAACCAGATGAACAACACACAGCTGCTGTATCTCCCTGTG
GCAGATTTGTAGCCTCGTGTGGCTTCACCCAGATGTGAAGTTTGGGAAGTCTGCTTTGAAAAGAGGGGGAGT
TCCAGGAGGTGGTGCAGCCTTCGAACTAAAGGGCCACTCCGCGGCTGTGCACTCGTTTGCTTTCTCCAACGACT
CACGGAGATGGCTTCTGTCTCCAAGGATGGTACATGGAACTGTGGGACACAGATGTGGAATACAAGAAGAAGC
AGGACCCCTACTTGCTGAAGACAGGCCGCTTTGAAGAGGCGGGGTGCCGCGCGTGCAGCCTGGCCCTCTCCC
CCAACGCCCAGGTCTTGGCCTTGGCCAGTGGCAGTAGTATTCTCTACAATACCCGGCGGGGCGAGAAGGAGG
AGTGCTTTGAGCGGGTCCATGGCGAGTGATCGCCAACCTTGTCTTTGACATCACTGGCCGCTTTCTGGCCTCCT
GTGGGGACCGGGCGGTGCGGCTGTTTACAACACTCCTGGCCACCGAGCCATGGTGGAGGAGATGCAGGGCCACC
TGAAGCGGGCTCCAACGAGAGCACCCGCCAGAGGCTGCAGCAGCAGCTGACCCAGGCCCAAGAGACCCTGAAGA
GCCTGGGTGCCCTGAAGAAGTGAATCTGGGAGGGCCCGCGCAGAGGATTGAGGAGGAGGGATCTGGCCTCCTCA
TGGCACTGCTGCCATCTTCTCTCCAGGTGGAAGCCTTCAGAAGGAGTCTCCTGGTTTTCTTACTGGTGGCCCT
GCTTCTTCCATTGAACTACTCTTGTCTACTTAGGTCTCTCTCTTCTTGTGCTGGCTGTGACTCCTCCTGACTAG
TGGCCAAGGTGCTTTTCTCTCCAGGCCAGTGGGTGGAATCTGTCCCCACCTGGCACTGAGGAGAATGGTAG
AGAGGAGAGGAGAGAGAGAGAATGTGATTTTGGCCTTGTGGCAGCACATCCTCACACCCAAAGAAGTTTGTA
AATGTTCCAGAACAACCTAGAGAACACCTGAGTACTAAGCAGCAGTTTTCGAAGGATGGGAGACTGGGATAGCTT
CCCATCACAGAACTGTGTTCCATCAAAAAGACACTAAGGGATTTCTTCTGGGCCTCAGTTCTATTTGTAAGATG
GAGAATAATCCTCTCTGTGAATCCTTGCAAAGATGATATGAGGCTAAGAGAATATCAAGTCCCCAGGTCTGGAA
GAAAAGTAGAAAAGAGTAGTACTATTGTCCAATGTCATGAAAGTGGTAAAAGTGGGAACCAAGTGTGCTTTGAAAC
CAAATTAGAAACACATTCTTGGGAAGGCAAAGTTTTCTGGGACTTGATCATACATTTTATATGGTTGGGACTTC
TCTCTTCGGGAGATGATATCTTGTTTAAGGAGACCTTTTCAGTTCATCAAGTTCATCAGATATTTGAGTGCCC
ACTCTGTGCCCAAATAAATATGAGCTGGGGATT

3451/5332
FIGURE 3013

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGACAGGTCCCGCGGGTCGCGCCCAGCCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTATCCACAGCGGTCACTTCATGGTGTCTGCGCGCACAGC
GACTCGCTGCCCCGGCGGCGCGACCAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGGAAGAATTTT
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAG
CCGGAGGCCGTGGTCTTGAGGGGAACCTAGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCCGCGCGCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGGAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTACCATTG
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTCTTTACCAACTCCCGCTCCCA
CAGCCGCCCCATGCCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCTTGGGCCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGCTGCGAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGACTCCAGCGCCTTCCTGAGTTCTGATTTCCTCCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCTGTACCCCCACCTCTGCTGCATTACCTCCCTGCCAAGGTGCCAGGCTGGAGCCCT
TGCCCCCACCTCCCTTCCCTCCCATGGCACCCACCTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCCAGG
TTTCCCTTCCCAACCGTCCCTCTGCCCCAGGAGTGTCTCCGCTGCCGTGCTCCTGCAGCCTTCCACCCACCCCA
CAGTCTGTCCCAAGCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGATCCAGCACCTCCTCCGGTCCCCAGGCTCCCGCAGGAG
ACAGTCCCTGAATTCCCCTGCACATTCTTCCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCGAGCGCCAGCGGAGT
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCTCAGCCGGGGCGCTCCAGACAGCAACAAGACCGAGAACCAGGCGTATCACACACATCTCCGCGGAGCAG
AAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGC
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGGGGC
TTGCAGGAGGAGGCCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAG
CTGCCCGCCACAGGGGTACCCATCACACACCAGCGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGA
ACCCGTACGCTGCACAACCTGGAAGTTCTGGGTGTTTCAGCATCCTCATCCGGCTCTGTTTGAGTCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCGCAGACCTCACTGGCCTGGCTGGACCACTGCTCTCTGCC
GCTCTCCGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCG
ATCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCTTGGCCAGACCTGCT
GCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTG
CCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGT
CAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGT
CTTTGGACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGAAGGTTCAATCAGCAGATGACCCCGAGCCTTGG
CAGCTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTG
TCACCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCCCTGAGCAGAGAAGCAGAAAAGGAGGTTCC
TCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTTCCCTGGGAGAGGCCAGGAGGCTGAT
CCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTT

3452/5332
FIGURE 3014

CCTGCCGAATCAATTCAACATGGCAGCCATGCGCTGGCGATGGTGGCAGCGGCTGTTACCTTGGAGGTTGCTGCA
GGCCCGTGGCTTTCCACAAAATTCTGCACCCAGCCTGGGCCTAGGAGCGAGGACTTATTCCCAGGGCGACTGCTC
GTATTCGCGCACGGCGCTGTATGATCTGCTCGGCGTCCCCTCCACAGCCACGCAGGCCCAAATCAAGGCGGCTTA
CTACCGTCAGTGCTTTCTCTACCAACCCGGACCGCAACTCCGGGAGCGCGGAGGCCGCCGAGCGCTTCACGCGCAT
CTCCCAGGCCTACGTGGTGTGGGCAGTGCCACCCTCCGTCGCAAGTATGATCGCGGCCTACTCAGCGACGAGGA
CCTGCGCGGACCTGGCGTCCGGCCCTCCAGGACGCCCCACCCGACCCCGGCTCGCCGCGTACCCCGCCGCCAC
CTCTCGGACCCACGACGGTTCTCGGGCCTCCCCCGGCGCCAACCGCACGATGTTCAACTTTGACGCCTTCTACCA
GGCCCACTACGGGGAACAACCTGGAGCGGGAACGGCGCCTGAGGGCCCGGCGGGAGGCCCTTCGCAAACGGCAGGA
GTATCGGTCCATGAAAGGCCTCCGCTGGGAGGATACCCGAGACACGGCTGCCATTTTCCTCATCTTTTCAATCTT
CATCATCATCGGCTTTTATATTTAATCGGAGAGAGAAGGGAAGGGGAGTGTCCTCCAGCCAACCCCCAGAAACGG
CCTTTTTTCCTGCCTCTGAACCCTTGCCATTGATAGTCTACCTTTGCTGGGATCCGAAGGAAGTGTACTCCCC
TGCCCTCCCCGACCCGCCAGCTTAGCCGATGACCTGCACATCGCTCCACTGTGGTCCAGAAAAGGAGGCCTTC
GATGTCTGAGAAAGAGGCCCCACGCTGTAGAGTCCCGAAAGCCCAGGAGTGAAGGGGTTCTTGAGTCTCTAGG
GTGCTTCTTCCAGAGTCTGTCTTCTTGCTTCCAGATGTGGTCAACTTCTGGAACACTCGCTGTAGCTTTATTGTT
TAGCCCCAAGCAAGATTTATCTCCTCCTGCCCGCATGTGTATGGTGGGCCTCTGTAACCTTGAAATGTGCAATG
TGACCAATTGTTGACTACCAAAGAAAAGGTCTGGGGTTGTACG

3453/5332
FIGURE 3015

GCTGCTGAGGCGTGAGAAATGCGCTCCCGCGGCCGCGCTCCGGAGCATGGCGGACCCCCAGAGCTGTTTTATGACG
AGACAGAAGCCCGGAAATACGTTCCGCAACTCACGGATGATTGATATCCAGACCAGGATGGCTGGGCGAGCATTGG
AGCTTCTTTATCTGCCAGAGAATAAGCCCTGTTACCTGCTGGATATTGGCTGTGGCACTGGGCTGAGTGGAAGTT
ATCTGTCAGATGAAGGGCACTATTGGGTGGGCCTGGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACCGAG
AGATAGAGGGAGACCTGCTGCTGGGGGATATGGGCCAGGGCATCCCATTCAGCCAGGCACATTTGATGGTTGCA
TCAGCATTTCTGCTGTGCAGTGGCTCTGTAATGCTAACAAGAAGTCTGAAAACCCTGCCAAGCGCCTGTACTGCT
TTTTTGCTTCTCTTTTTCTGTTCTCGTCCGGGGATCCCGAGCTGTCTGCACTGTACCCCTGAGAACTCAGAGC
AGGTGAGTCCCTCGGCTACTGGGTGTGCCGGGGAGTTGGGGGACTCAACAGGTAAGCTGTCTGGGGAAGCGACA
AAGAATCTTATGCAGATTGGCGGGAAAAGGAGGAAACATGCACCCTAGTGTGGCCCTGATGGCACATTTGATGA
CCTGATATCCTAAGGGGGTGGCATCTGCGGAGGTGGGGTGGGATGCCTTCTCTTGGCAGATGACATGGTATTACA
GATAAGGTGATGCGACTGATTTCCATAACCAAATAAGTAAATGCCATTTAGGAAGGTGAGAGGGCACCGACAGT
TCTCCGTTGTGTGATGTATAAATTAAGGAATGGCGGAGTAGGATGTAGATGTTGAAAGATAAGTGAAGAGCTGTT
CCTGACTAATAACATGAATGACTCTGGATTCCAATTGGTGGCCATCTCCCTAAACTTGAGTGGGGAGCTGGGTCC
CTGCACTGGAAAGTGAGAATGAGGGGAGTTGCTTTGTTCTGTAATTCTCCTGAGGGAGGTGTGGGCCATGCCAGA
TTCTAGCCTGTACTTTTCTCTACGTGGCTTACAGCGACCTTAAGTTCTCCAGGCAGGATTTGTCCTGGAGCAGA
CTGGCTTCTGAAGGAGGGGAGGGAGGTGAAGCTGTCTGCTCCTCTCAACCTCCGCTGCCTGACCCGCTGCCTTTC
TTTCTCAGTTGGAGCTGATCACAACCCAGGCCACAAAGGCAGGCTTCTCCGGTGGCATGGTGGTAGACTACCCT
AACAGTGCCAAAGCAAAGAAATTCTACCTCTGCTTGTTTTCTGGGCCTTCGACCTTTATACCAGAGGGGCTGAGT
GAAAATCAGGATGAAGTTGAACCCAGGGAGTCTGTGTTACCAATGAGAGGTTCCCATTAAGGATGTCGAGGCGG
GGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGAGAAGAAGGAGCGGCACAGGCGCCAGGGCAGGGAAGTCAGA
CCTGACACCCAGTACACCGGCCGCAAGCGCAAGCCCCGCTTCTAAGTCAACACGCGGTTCTGAAAGGCACTTGC
CTCTGCACTTTTCTATATTGTTTCAGCTGACAAAGTAGTATTTTAGAAAAGTTCTAAAGTTATAAAAATGTTTTCT
GCAGTAAAAAAAAGTTCTCTGGGCCGGCGTGGTGGCTCACACCTGTAATCCAGCACCTTGGGAGGCTGAGGT
GGGAGGATCATTTGAGGCCAGGAGTTTGAGACCTGCCTGGGCAACATAATGAAACTTCCTTTCCAGGGAGGAAAA
AAAAAAAAAAAAAAGCTCTGAGAGCATCTTATTTTGTTTAAAGGCAAGAAATAAAATTCCTTTTGTGG

3454/5332
FIGURE 3016

GTCGCGCATGCGGGGCTCACACGGCTGCAGCCGGCGCGCTGCCACTCCCGGGAGCATGAAGGACCGAACCCAGG
AGCTCCGCACGGCCAAGGACAGCGATGATGATGATGATGTCGCTGTCACCGTGACCGAGACCGCTTCATGGATG
AGTTCTTTGAGCAGGTGGAGGAGATTTCGAGGCTTCATTGACAAGATCGCAGAGAACGTGGAGGAGGTGAAGCGGA
AGCACAGTGCCATCCTGGCATCCCCCAACCCCGATGAGAAGACGAAGGAGGAGCTGGAAGAAGTTCATGTCCGACA
TAAAGAAGACAGCAAACAAAGTTTCGTTCCAAGTTAAAGAGCATCGAGCAGTCCATCGAGCAAGAGGAAGGCCTGA
ACCGCTCCTCCGCTGACCTGAGGATCCGGAAGACACAGCACTCCACGCTGTCCAGAAAGTTTGTGGAGGTTCATGT
CGGAGTACAACGCCACGCAGTCCGACTACCGCGAGCGCTGCAAAGGCCGCATCCAGAGGCAGCTGGAGATCACCG
GCAGGACCACGACCAGTGAAGGAGCTGGAGGACATGCTGGAGAGTGGGAACCCCGCCATCTTTGCCTCTGGGATCA
TCATGGACTCCAGCATCTCGAAGCAGGCTCTGAGCGAGATTGAGACGCGGCACAGTGAGATCATCAAGCTGGAGA
ACAGCATCCGTGAGCTACACGACATGTTTCATGGACATGGCCATGCTCGTGGAGAGCCAGCCTCAGGGTGCTTTCC
TGAAGTCCTGCCCCGAGCCCCAACCCAACCTGAGGAGGGGGCCCTCTGGAGCTCGGGTGCCCCGCCCCGCGCAG
GGAGAGATGATTGACAGGATCGAGTACAATGTGGAACACGCGGTAGACTATGTGGAGAGGGCCGTGTCTGACACC
AAGAAGGCCCGTCAAGTACCAGAGCAAGGCGCGCCGGAAGAAAATCATGATCATCATCTGCTGTGTGATCCTGGGC
ATCGTCATCGCCTCCACTGTTGGGGGCATCTTCGCCTAGAAGCCACCCAAACTGCCACTCCACTCCAGGTGGGCC
ACTCCAAGGAGGCCCTGGCTGCTGCCACCTGGCTGGGCTGCCCTCCCAACCCCGCCTCTGGCTCAGAGCACCTT
CCCTCCCGGGCCCCATGCTCCCTTCTCTGCCATGGGCCCTCCGTCCCCGCCCCGTGTCGTGTGCATGATCTCTGT
GAGTGTGCGTCTGTACGGAAGAGGCAGAGGGAGGCAGCCAGCGGGGCGTGATGCAGTGTGCACAGCGAGGAGCA
GACCCAGGCAGGGCCGCCAGGGTGACACAGGCCACCTTCCCTTGCTTCAGTAACTCGGTGGGCCCAGGTTCTGC
TCTTCCCTGGGGACCCTAACCTCGCCTCCAGCTGACCTGCCCTGTCTCTCCAGCTGTCCCCACAAGCAGAGCCC
TGAGGGGTGGGGACCAGCTGGCCACATGGTGTGCTTTTCAGGTTAGGGGAGAGGTGGCCCTGAGGGACAGCCCA
GCTCTGAGTCTCAGTCGCTGATCACTGCCAGGGAGGCTCAGGCTGCCATGGCTCCAGGCTCCCTCCCTGCCTAG
GGGCAAAGTCCATCGGGTCCCTGGGCTCAGCTTCCCTTCCACATTCTCCGGCCCCAGGAGCAACCCCTTGGGC
TAGGTCTGACCCAGGTGTCCCTCTGGAAGGGGCTGGCTGGTGCCCTATTTCCAGCCACCCAGCAGCTAGGGAG
GCAAAGCAGGCTGCAGTCAGTCCCTCAAGCCAGCGTTGCATGTTTGGGATGGTGGCTCCTGTTGTCTTGCCTCT
GGGAAGTCAGATGTCAATTCAGGCCTGCAGTCTCATCTGCCCTTGCCATCCTCCCATCGATGTGCCACGTGGGT
GTCACGTGTCCCAGATGCAGTATTCGGCAGCCAGCCGGGGAGGGCTACCTCCTCCTCCTCACCACCTTGGGGCTT
CTCATGGGAAATGTGCCCCGCCCCAGGACCTCTCCCTTGTTGGACAGGCAGGGAGATGCATGCGAGTGCATGCA
GCAGGGGATGGGGCCGTGTCCGTGTGCCCCACCTCCCTCGGCTTTACTCCTGCCCAGTGACTGTGACCACTGTC
CGTGTTCCTTCTTGAACAGCGATTCCCCCAACCCCTTACCAAAGGTCTTGGTACAACCAGCTGCCCATTTTG
TGAAATTTTATGTAGAATAAACATTTGTATCTGT

3455/5332
FIGURE 3017

AGCTTGCAAGCATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGTGAGGGACTCGGCCCCACGGCCCTAGCT
TCGCGAGGGTGCCTGTGCGACCCAGCAGCAGCAGCGGCGGCCGAGGGGGCGCCGAGCCGAGGCCGCTTCCGCTTT
CCTACAGGCTTCTGGACGGGGAGGCAGCCCTCCCGGCCGTCGTCTTTTTGCACGGGCTCTTCGGCAGCAAACTA
ACTTCAACTCCATCGCCAAGATCTTGGCCCAGCAGACAGGCCGTGCTGACGGTGGATGCTCGTAACCACGGTGAC
AGCCCCACAGCCCAGACATGAGCTACGAGATCATGAGCCAGGACCTGCAGGACCTTCTGCCCCAGCTGGGCCTG
GTGCCCTGCGTCGTCTGTTGGCCACAGCATGGGAGGAAAGACAGCCATGCTGCTGGCACTACAGAGGGTGAGCCGC
CCATGTCTGGGGCCTCCTCCCATTACAGTATATACCTTGAGGGCCCTGCAGGCAACCTGGGACTCACATGATCGTT
GGATGACCAAGTTCAGGCTCCAGGAGCCATGCCTGAGACTCCCTATGTCTGCCTAAGACTGGTCCCAGTTCGGTT
CTCTCCACAGCCAGAGCTGGTGGAACGTCTCATTGCTGTAGATATCAGCCCAGTGGAAGCACAGGTGTCTCCC
ACTTTGCAACCTATGTGGCAGCCATGAGGGCCATCAACATCGCAGATGAGCTGCCCCGCTCCCGTGCCGAAAC
TGGCGGATGAACAGCTCAGTTCTGTCTATCCAGGACATGGCCGTGCGGCAGCACCTGCTCACTAACCTGGTAGAGG
TAGACGGGCGCTTCGTGTGGAGGGTGAACCTGGATGCCCTGACCCAGCACCTAGACAAGATCTTGGCTTTCCAC
AGAGGCAGGAGTCCCTACCTCGGGCCAACACTCTTCTCCTTGGTGGAACCTCCAGTTTCGTGCATCCCAGCCACC
ACCTTGAGATTATGCGGCTCTTCCCTCGGGCCAGATGCAGACGGTGCCGAACGCTGGCCACTGGATCCACGCTG
ACCGCCACAGGACTTCATAGCTGCCATCCGAGGCTTCTTGGTCTAAAGAGTTGCTGGCAAGAAGATGGCCGGGCG
TGGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCTAAGGCGGGAGGATGACTTGAGGCCAGGAGTTGGAGA
CCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCTGGCGTGGTGGTGACACCT
GTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCACTTGAACCCTGGAGGCAGAGGTTGCAATGAGCCGAG
ATCACACCACTACACTCCAGCCTAGGCAACAGAGCAAGACTCTGTCTCAAAAAAACAACAAAAAGGAGGCAC
AAAACCCAGGCTTCAAGTCTCTGCAGCCTGCTCCACATTTGGGCACAGAAGGACTCAGACAGGCACTGTGTGGG
CACGAGGTTTTACAGGGGTGGTCAGACCTCAGGCTTTAATGAATAAAGACACTACTCCC

3456/5332
FIGURE 3018

GGCAGGTGCAGGCGCAGCCGCGGCGAGAGCGTATGGAGCCGAGCCGTTAGCGCGCGCCGTCGGTGAGTCAGTCCG
TCCGTCCGTCCGTCCGTCCGTCCGGGCGCCGCGAGCTCCCGCCAGGCCAGCGGCCCCGGCCCCCTCGTCTCCCCGACCC
GGAGCCACCCGGTGGAGCGGGCCTTGCCGCGGCAGCCATGTCCATGGGCCTGGAGATCAOGGGCACC GCGCTGGC
CGTGCTGGGCTGGCTGGGCACCATCGTGTGCTGCGCGTTGCCCATGTGGCGCGTGTCGGCCTTCATCGGCAGCAA
CATCATCACGTGCGAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGGTGAGAGCACC GGCCAGATGCAGTG
CAAGGTGTACGACTCGCTGCTGGCACTGCCACAGGACCTTCAGGCGGCCCGCGCCCTCATCGTGGTGGCCATCCT
GCTGGCCGCCTTCGGGCTGCTAGTGGCGCTGGTGGGCGCCAGTGCACCAACTGCGTGCAGGACGACACGGCCAA
GGCCAAGATCACCATCGTGGCAGGCGTGCTGTTCCCTTCTCGCCGCCCTGCTCACCTCGTGCCGGTGTCTTGCTC
GGCCAACACCATTATCCGGGACTTCTACAACCCCGTGGTGCCCGAGGCGCAGAAGCGCGAGATGGGCGCGGGCCT
GTACGTGGGCTGGGCGGCCGCGCGCTGCAGCTGCTGGGGGGCGCGCTGCTCTGCTGCTCGTGTCCCCACGCGA
GAAGAAGTACACGGCCACCAAGGTCGTCTACTCCGCGCCGCGCTCCACCGGCCCGGGAGCCAGCCTGGGCACAGG
CTACGACCGCAAGGACTACGTCTAAGGGACAGACGCGAGGGAGACCCACCACCACCACCACCACCAACACCACCA
CCACCACCGCGAGCTGGAGCGCGCACCAAGGCCATCCAGCGTGAGCCTTGCCCTCGGAGGCCAGCCACCCCCAGA
AGCCAGGAAGCCCCCGCGCTGGACTGGGGCAGCTTCCCCAGCAGCCACGGCTTTGCGGGCCGGGCAGTCGACTTC
GGGGCCAGGGACCAACCTGCATGGACTGTGAAACCTCACCTTCTGGAGCACGGGGCCTGGGTGACCGCCAATA
CTTGACCACCCGTCGAGCCCCATCGGGCGCTGCCCCCATGCTCGCGCTGGGCAGGGACCGGCAGCCCTGGAAG
GGGCACTTGATATTTTCAATAAAAGCCTTTCGTTTTGC

3457/5332
FIGURE 3019

GGCAGCTGTCGGCTGGAAGGAACTGGTCTGCTCACACTTGCTGGCTTGCGCATCAGGACTGGCTTTATCTCCTGA
CTCACGGTGCAAAGGTGCACTCTGCGAACGTTAAGTCCGTCCCCAGCGCTTGGAATCCTACGGCCCCCACAGCCG
GATCCCCCTCAGCCTTCCAGGTCCCTCAACTCCCGTGGACGCTGAACAATGGCCTCCATGGGGCTACAGGTAATGGG
CATCGCGCTGGCCGTCTGCGCTGGCTGGCCGTATGCTGTGCTGCGCGCTGCCCATGTGGCGCGTGACGGCCTT
CATCGGCAGCAACATTGTCACTCGCAGACCATCTGGGAGGGCCTATGGATGAAGTGCCTGGTGCAGAGCACCGG
CCAGATGCAGTGCAAGGTGTACGACTCGCTGCTGGCACTGCCGAGGACCTGCAGGCGGGCCGCGCCCTCGTCAT
CATCAGCATCATCGTGGCTGCTCTGGGCGTGTCTGCTGCCGTGGTGGGGGGCAAGTGTACCAACTGCCTGGAGGA
TGAAAGCGCCAAGGCCAAGACCATGATCGTGGCGGGCGTGGTGTTCCTGTTGGCCGGCCTTATGGTGATAGTGCC
GGTGTCTTGGACGGCCCAACATCATCAAGACTTCTACAATCCGCTGGTGGCCTCCGGGCAGAAGCGGGAGAT
GGGTGCCTCGCTCTACGTCGGCTGGGCGCCTCCGGCCTGCTGCTCCTTGGCGGGGGGCTGCTTTGCTGCAACTG
TCCACCCCGCACAGACAAGCCTTACTCCGCCAAGTATTCTGCTGCCCGCTCTGCTGCTGCCAGCAACTACGTGTA
AGGTGCCACGGCTCCACTCTGTTCCCTCTCTGCTTTGTTCTTCCCTGGACTGAGCTCAGCGCAGGCTGTGACCCCA
GGAGGGCCCTGCCACGGGCCACTGGCTGCTGGGGACTGGGGACTGGGCAGAGACTGAGCCAGGCAGGAAGGCAGC
AGCCTTCAGCCTCTCTGGCCCACTCGGACAACCTCCCAAGGCCGCTCCTGCTAGCAAGAACAGAGTCCACCCTC
CTCTGGATATTGGGGAGGGACGGAAGTGACAGGGTGTGGTGGTGGAGTGGGGAGCTGGCTTCTGCTGGCCAGGAT
AGCTTAACCCTGACTTTGGGATCTGCCTGCATCGGCGTTGGCCACTGTCCCCATTTACATTTTCCCCACTCTGTC
TGCTTGCATCTCTCTGTTCCGGGTAGGCCTTGATATCACCTCTGGGACTGTGCCTTGCTCACCGAAACCCGCGC
CCAGGAGTATGGCTGAGGCCTTGCCACCCACCTGCCTGGGAAGTGCAGAGTGGATGGACGGGTTTAGAGGGGAG
GGGCGAAGGTGCTGTAAACAGGTTTGGGCAGTGGTGGGGAGGGGGCCAGAGAGGCGGCTCAGGTTGCCAGCTC
TGTGGCCTCAGGACTCTCTGCCTCACCCGCTTCAGCCCAGGGCCCCTGGAGACTGATCCCCCTCTGAGTCTCTGC
CCCTTCCAAGGACACTAATGAGCCTGGGAGGGTGGCAGGGAGGAGGGGACAGCTTACCCTTGGAAGTCTTGGG
TTTTTCCTCTTCTTCTTTGTGGTTTCTGTTTTGTAATTAAGAAGAGCTATTCATCACTGTAATTATTATTATT
TTCTACAATAAATGGGACCTGTGCACAGG

3458/5332
FIGURE 3020

ATGCGGGTCTGACGGCGGGCCCCGCGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATCCTCCACCCCTCTCGG
CCTGGAGGGGTCCCTGGGGCCATTCTTGGTGGAGTTCCTGGAGGAGTCTTTATCCAGGGGCTGGTCTCGGAGCC
CTTGGAGGAGGAGCGCTGGGGCCTGGAGGCAAACCTCTTAAGCCAGTCCCGGAGGGCTTGC GG GTGCTGGCCTT
GGGGCAGGGCTCGGCGCCTTCCCCGAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCT
GCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTGTCTGCA
GGTGGCGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGGCTGCCAGGTGTATAC
CCAGGTGGCGTGTCTCCAGGAGCTCGGTTCCCCGGTGTGGGGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTT
AAGCCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGCTGGAATCCCAGGAGTTGGACCCTTTGGGGGACCGCAACCT
GGAGTCCCACTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACAGGGAAA
GTGCCCTATGGCTATGGGCCCGGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGTTACCCAACAGGGACAGGGGT
GGCCCCAGGCAGCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGTGAGCAGCCGGAGTCTCTCCCT
GGTGTGGAGGGGCTGGTGTCTCTGGCGTGCCTGGGGCAATTCTGGAATTGGAGGCATCGCAGGCGTTGGGACT
CCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTGCTGGT
GGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCAGGAGCTGGG
ATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGGGTGTGTACCAAGCAGCTGCTAAG
GCAGCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGA
GCTGGGGGCTTTCCCGGCTTTGGTGTGCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTGCGAGGT
GTTCCCGGAGTCGGAGGTGTCCCGGAGTTGGCATTTCCTCCGAAAGCTCAGGCAGCAGCTGCCGCCAAGGCTGCC
AAGTACGGAGTGGGGACCCAGCAGCTGCAGCTGCTAAAGCAGCCGCCAAAGCCGCCAGTTTGGGTAGTTCTCT
GGTGTGCGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTGCGGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGA
GTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTGGCGTGGCTCCCGGCATTGGCCCTGGTGGAGTTGCA
GCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAGCCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATC
CCTGGACTTGGAGTTGGTGTGGCGTCCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGACTTGGAGTTGGTGT
GGTGTTCCTGGCTTCCGGGCGAGTGCAGATGAGGGAGTTAGGCGGAGCCTGTCCCTGAGCTCAGGGAAGGAGAT
CCCTCCTCCTCTCAGCACCTCCCCAGCACCCCTCATCACCCAGGGTACCTGGAGCCCTGGCTGCCGCTAAAGCA
GCCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGT
GTGGTGGGAGCCGGACCCGCCGCCGCTGCCGAGCCAAAGCTGTGCCAAAGCCGCCAGTTTGGCCTAGTG
GGAGCCGCTGGGCTCGGAGGACTCGGAGTCCGAGGGCTTGGAGTTCCAGGTGTTGGGGGCTTGGAGGTATACCT
CCAGCTGCAGCCGCTAAAGCAGCTAAATACGGTGTGCTGTGCCCTTGGAGGTGTCTAGGGGGTGCCGGGCAGTTC
CCACTTGGAGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCCATTTTCCAGGTGGGGCCTGCCTGGGGAAA
GCTTGTGGCCGGAAGAGAAAATGA

3459/5332
FIGURE 3021

GCGCCGAGCCGGTTTCCCCGCCGGTGTCCGAGAGGCGCCCCCGGCCCGGCCCGGCCCGGCCCTCCGCCC
CCGCCTCCCCGGGCGGGCGGGTGGGCGAGCTCGCGGGCCCCGGCCGCCCCAGCCCCAGCCCCGCCGGGGCCCCG
CCCCCGTCGAGTGCATGAGGTTGACGCTACTTTGTTGCACCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGC
GAGTTGCCCCGTGTGTGCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACCGCGGACTGG
CACGCAGACTGCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTGCGACCAGTACTATGAGAAGGATGGGCAGCTC
TTCTGCAAGAAGGACTACTGGGCCCGCTATGGCGAGTCTGCCATGGGTGCTCTGAGCAAATCACCAAGGGACTG
GTTATGGTGGCTGGGGAGCTGAAGTACCACCCCGAGTGTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGAC
GGGGACACCTACACGCTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCC
GTCATCGAGCAGATCCTGCCTGACTCCCTGGCTCCCACCTGCCCCACACCGTCACCCCTGGTGTCCATCCCAGCC
TCACTCTCATGGCAAGCTGGACTTTTCACTCTCCATTGACCCCCCGCACGGCCACCGGGCTGTGGCACCAGAGCA
TCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCATGAGCCAGATGTGAAGAATTCCATCCACGTTCGGA
GACCGGATCTTGGAAATCAATGGCACGCCCATCCGAAATGTGCCCTGGACGAGATTGACCTGCTGATTTCAGGAA
ACCAGCCGCTGTCTCCAGCTGACCCTCGAGCATGACCCTCACGATACACTGGGCCACGGGCTGGGGCTGAGACC
AGCCCCCTGAGCTCTCCGGCTTATACTCCAGCGGGGAGGCGGGCAGCTCTGCCCGGCAGAAACCTGTCTTGAGG
AGCTGCAGCATCGACAGGTCTCCGGGCGTGGCTCACTGGGCTCCCCGGCCTCCAGCGCAAGGACCTGGGTGCG
TCTGAGTCCCTCCGCTAGTCTGCCGGCCACACCGCATCTTCCGGCCGTCGGACCTCATCCACGGGGAGGTGCTG
GGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGGTGATGAAGGAGCTG
ATCCGGTTCGACGAGGAGACCCAGAGGACGTTCCTCAAGGAGGTGAAGGTGATGCGATGCCTGGAACACCCCAAC
GTGCTCAAGTTCATCGGGGTGCTCTACAAGGACAAGAGGCTCAACTTCATCACTGAGTACATCAAGGGCGGCACG
CTCCGGGGCATCATCAAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCA
TCAGGGATGGCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCACAACCTGCCTGGTCCGCGAG
AACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATGGTGGACGAGAAGACTCAGCCTGAGGGCCTG
CGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCGTGGTGGGCAACCCCTACTGGATGGCACCTGAGATG
ATCAACGGCCCGCAGCTATGATGAGAAGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCGAGATCATCGGGCGG
GTGAACGCAGACCCTGACTACCTGCCCCGACCATGGACTTTGGCCTCAACGTGCGAGGATTCTTGACCGCTAC
TGCCCCCAAACTGCCCCCGAGCTTCTTCCCCATCACCGTGCCTGTTGCGATCTGGACCCCGAGAAGAGGCCA
TCCTTTGTGAAGCTGGAACACTGGCTGGAGACCCTCCGCATGCACCTGGCCGGCCACCTGCCACTGGGGCCACAG
CTGGAGCAGCTGGACAGAGGTTTCTGGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTGCCCACCCTGAGGTC
CCCGACTGAGCCAGGGCCACTCAGCTGCCCTGTCCCCACCTCTGGAGAATCCACCCCAACAGATTCTCTCCGCG
GGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTCAGAGCCAGGCCCTGACTTGCTTCTCCAC
CCCGTGGACCGCTTCCCCTGCCTTCTCTCTGCGGTGGCCAGAGCCGGCCAGCTGCACACACACCATGCTCT
CGCCCTGCTGTAACCTCTGTCTTGGCAGGGCTGTCCCTCTTGCTTCTCCTTGATGAGCTGGAGGGCCTGTGTG
AGTTACGCCCCCTTCCACACGCCGCTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTGGTCCATAGCTCCCTG
GAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCGTGGGAGGGCGCACATCAGGG
CAGAGGCCAAGTTCAGGTGTCTGTGTTCCAGGAACCAATGGGGAGTCTGGGGCCCGTTTTCCCCCAGGGGG
TGTCTAGGTAGCAACAGGTATCGAGGACTCTCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAG
GTCCCCAGTGGCTGAGCAAACAGCCCTTCTCTCGCTTTGGGTCTTTTTTTTGTCTTCTTAAAGCCACTTTA
GTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGTCCCTTGAGGGAGCGTGAGCTGCGGTGCCCTGGCCGGC
GATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCACAGTGGACCGGGCAGGTGTCCACCAGCAGCTCAGCC
CCTGCAGTCATCTCAGAGCCCCCTTCCCGGGCCTCTCCCCAAGGCTCCCTGCCCTCCTCATGCCCTCTGTCTT
CTGCGTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGCTGCAGCAGCAGCTGC
CAGGGGCTTGGGATTTTATTTTTGTGGCGGGCGGGGGTGGGAGGGCCATTTTGTCACTTTGCCTCAGTTGAGCAT
CTAGGAAGTATTAAACTGTGAAGCTTCTCAGTGCATTTGAACCTGGAAAACAATCCCAACAGGCCCGTGGGA
CCATGACTTAGGGAGGTGGGACCCACCCACCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCA
GAACAATAAAATAAATTCCGTACTCCCCACCC

3460/5332
FIGURE 3022

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTAGAAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT
GGGATTCCCGGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGGCG
ACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTC
GAGAACCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCTCA
ATCAAGTAGCCAATCCCACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTCGTTCAAAAGGAGCAAG
AATGAGCCTGCGGTGGGAGGGAATGGGGCGTGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAG
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
GCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCTGTTTGTGCGTTTTTTTCT
TTCTTCCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGCTCCTGTTTTCCAGCAGCACATGGGGTTT
CTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTC
TTACTTTAGACACTGGCCCACTCCAGGCGTTTTCTTTTCACTTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTGGTATT
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTAGGATAAAAATATCTGCAGGGTCCCTTC
CATTCTATTTAGAGGGAGTCCCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA
GAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCAGCTAGTTCACTCCTTTGCGCGTGCGTGGTGGAGGCTGGCCTCTCTGGCT
GGGTGCAGTGAATGGCCAGCGGGTTTTCTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGGTGGTGTGGT
GCTGCACTGGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCCTGTGTGTTGTGTGGATCTGT
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG
ACTGCAGCTGTCTAGGCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTCAGCAGTTA
TGTGGGAGTGCTAGGGGTTAGGCTTTTGAAGCTTGAACGCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA
AGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCCGAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTGGTCAACAGCCGTCATCCTGGG
CTTTTCTACTGTGTCTTGTGTTACAAGGCCTCAGCAATCCACAGAACTCTCTCCTTCCCTTCCACCTGTCAGCTT
CTCTGCTTCTGAGATAAGAACCATTGTGTGAACACCAACACTTAACCTCAGAAAGACATGCATTATGTGGTGTAA
TCAAACCCGATGCTTTAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACACATTACGCTATATGAC
AGAAAGTAAATCTATGGATATGGTATTTGTGAATGATCTTTTAAATAAAAGAAAACCTTACGTAATATTT

3461/5332
FIGURE 3023

CAGTGC GCGCGGATGTACGGATGATT CAGTGGCTGGCAGGAAGCCCGCCCTGCCCCGCCAGTGTCAGTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGGTGAGGAACCCCTGGACTCTCAGAGATGG
AATTTACCGTGTTGCC TAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCTCGGCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCCTAGTTGCAACAGTTCTTGGAACCCACT
CGAGAGGGCCACGCCTCCATTACACAGGCCACGCATCACAAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGA
CTGAACTGCTGTGGCCCCGAGCAGCGCTGCTGGTGCTGTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGT CAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGT
CCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC
TGTTGCAATTCTACCCACGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCAGACAG
GGTCGGAGGAAGCCTACATAGACCCCATTTGCCATGGAGTATTACAACCTGGGGGCGGTTCTCGAAGCCCCAGAAG
ATGATGATGCCAATTCTACGAGAATGTGCTCATTGCAAGCAGAAAACCACAGAGACAGGTGCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGT CATGGGGCAACTCCAGAGAGAAGCATCCCTGGCCCGGTGGGAAGCCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGACAGCCTGGGAAAA
GACAGTTACTACGGGAGCTGCAGGCCCCGTACCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACATTCTGGATTTC
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTTCAGCATCCTTGTTGGGTGGGGCC
CTGGCTCTCTTCCCTTTTGGTGGGACCTCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTGCG
CCATCTTTATGTGCTTCCAGTGGAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACAAAACATCTCAATAAAACCATTTTAGTTG

3462/5332
FIGURE 3024

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTGA
CCCTGCCCCCTGCCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTTGAAAAATATAGGCC
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT
GCCCCAACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCT
GGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA
AATTAAAATGTTTGCTCAACAAAAAGTCACCTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGA
CAGCATGACCGACGGAGCCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCT
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA
AGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTG
CTTCATTAAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA
AATTGGATACACTCATATGAAAATAGCGGAAGGAGTGAACCTCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCT
GTGTGAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG
AGGTACAGGAGCCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC
TGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCTGTCTTTACTAAAAATATAAAAATTAGCTG
GGTGTGGTGGCGGGCACCTGTAATCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTG
GAGGTTGCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAATT
AAATAAATAAACTCCCG

3463/5332
FIGURE 3025

ATGGCTCAGAGGCTCAGGCAAGAGCTACAGATGCTCATGACCGAATGTCTCACCTGGGCCCGGAATGGCAGCAGC
AAGCACCTCTCAGCCTAGCCCAGAAGCCAGAGTTCCTATTTTCATCAGTTGCAAAGCAGAGACAATGCCATCTGC
CCGATAGCAGAGCAAAAGGCAGAGGGGAAGTTCTCTTCAAGGTACAGAAACCACGACTCCGCAGAGAACCGCAGA
GATGGCAGCATGACCAGACCACGGACAGACTGGACTCTGAAACGGGCATGTACAGAGAAGAGGAGACCCCAACAC
GCTTCAAGCTTTGAGTGGAGAGGACACAGCCTCTGCTGGGACAGGGAACAGAGGGATGCGGAGACCCTGAAGATG
CTTTTGGACAGTGGTCTGAGTGTCAGAGAAGACCAAGGACAGAACAGAGACTAGGTTTGGTGAGATGGGACAG
ATTTTGGGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCAGAGCCCCAGCGGAGCACCTCAGGG
TACCCCTCCAGGAGGTGGTGGATGATGAAGTGTCGGGACCATCAGCCCCTGGGGTAGATCCCAGCCCCCACGT
AGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCT
GAGCCTGAGGAGACCTGGGTGGCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTC
GTGCTCCCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCATTAAAGACTCCTGGCCTGGGAC
AAAGATCTGAGGGTGTCTGGACAAGATCCCATCGGAGCCCACCATCCTGGGAGCATCACCGAAAACCTTCCTCCG
GCTTCTCGGATTTGCATCCGACCTTCGAATACCCCTCCACCCCGCAATTTCCACATGAGCACAGTCACCCCAATG
CTGAGGTCCCTTCTCTGA

3464/5332
FIGURE 3026

AGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAG
TCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAA
GGACTATGGAAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAAC TTCGAAGGCTTAAC
TCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTCGGGGGAA
AGCTCTGAGCTCAGTTTGTGCACTGAGTGATGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCG
ACTGGTGTTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCAACCCAGAGGGACCCAGTCAGCGT
GAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTT
CCCCTTGCGCTTCTGCCGTGATTGTCAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAAACT
GTGAGTCAATTAAACCTCTTTTCTTCATAAA

3465/5332
FIGURE 3027

TTTCATCGTTTCTGCTTACCCTACTTTTCTTTCCCATCCTGATCCCTCTCCCACCAGACTGGACTCTGAAACGGG
CATGTACAGAGAAGAGGAGACCCCAACATGCTTCAAGCTTTGAGTGGAGAGGACACAGCCTCTGCTGGGACAGGG
AACAGAGGGATGCGGAGACCCTGAAGATGCTTTTGGACAGTGGTCTGAGGTTGGGACAGTGGCAGGAGATACCAT
TCACCCAGGATCTCCAGGACAAGAGATCAGCCTGGCAGTTACATGTGTTTTTTTCAAACCTGGTTGCCAGGTTGG
CATGAGCGATGACATCAGAGATTCCGACCTTCCTGATTGGAGGGACCGGACTCTGTGCGGCACCTGGGAGTTCAGT
TGGACAACAGTAACTTCTCAGAGCTGTTCTCCACTCCTGACTTCTCCCAGCCTCGAGAATTGATAACACACTCTT
CTGGATCCCAGCAGTGTCCAGAAGAAGACCAAGGACAGAACAGAGACTAGGTTTGGTGAGATGGGACAGATTTTG
GGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCGGAGCCCCCAGCGGAGCACCTCAGGGTACCCC
CTCCAGGAGGTGGTGGATGATGAAGTGTGCGGACCATCAGGTGAGGGGACTGGAGGAAGAAGAGGTGGCATAGGA
TTGACTAAGATGAAGGAAGGGGGCCAGGCGTGGTGGCTCACCCCTGTAACCCCAACACTTTGGGAGGCTGAGGCG
GGCAGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAACCCCATCTCTACTAAAAGTACA
AAAATTAGCCAGGCGGTAGTGGTGTGTGCCTATAATCCCAGCTACTTGGGAGGCTAAGACAGGAGAATCACTTGA
GCCTGGGAGGAAGAGGTTGCAGTGAGCCGAGATCGTGCTACTGCACTCCAGTCTGGGTGACAGAGTGAGATGCTA
TCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAAGAGGGTCAGAGGTCAGGAAGGAGA
ACCTGGGGAGGGTGTGTGGGAAGAATGGAGAAATTACGGCTGGGTGCAGTGGCTCACACTTGTAATCCCAGCACT
TTGGGAAGCCAAGGCAGGCGGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGT
CTCTATTAAAAGTACAAAATGGAGCTGGGCATTATGGCAGGCACCTGTAATCCCAGCTACCTGAGAGGCTGAGGC
AGGAGAATAACTGGAATCCGGGAGATGCATGTTGCAGTGAGCTGAGATTGCACCACTACACTCCAGCCTGGGTGA
CAAAGCAAGATTCTGTCTCGAAAC

3466/5332
FIGURE 3028

GCCCCCTGGGGTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGATGAATCT
GATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTGGCGGAGACGCTGTGTGGCTCAAG
ATGAAGGCGAAGCGACGGCGAGTGTGCTGCTGCCCTGAGTACTACGAGGCCCTCAACAGGCTGCTTGAGGAT
CCTGTCAATAAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGGGACAAGTATCTCCTGGCTATGGTCATA
GCGTATTTAGCCGGGGCCGGCCTCCCCCTCCTGGCAATACCAACGCATTTCATTTCTCCTGGCTCTCTATCTGGCC
AATGACATGGAGGAGGACGACGAGGCCCCCAACAAAACATCTTCTACTTCCTGTACGAGAAGAACCGCTCTCGC
ATACCCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGC
ATACCCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCCATGAACCTGAGGGCCAGGAAGAACCGCTCTCAG
ATAGTCTGTTCAGAAAACGTCGGTTCCAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGGAGGAG
TTGGAGGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGGAGATCGCGCTCGCCTTTCTAGAGCTCC
AGGGACCGTGGAGGCCTGAGGTCATCGGCCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTCAGCAG
GAACCTTTATTCCAATGTAATGGCAGACACCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAGAAGAAC
CTGGACCATTTAGTGGAGCTGAATACAGTGATCACGTTGTCTCCTAGGAGCAGGGGTGGGGGGAGGGGGGTG
GGGTCTTCTAGGAGTCTTGGAGAAAAGTAAGAAACCAGGAGTGTTCAGTTCCACCCTTTCTGCAGCACCA
CCACCCTTTCTATATTGCTGAATCCAACCTCCCTGGGGCGGAACCTGGAGGTGCTGTTTCTTATGGACTTGGTT
ACCACAGTCCAGAAGCATTTGAAGGCACAATGCAGGGGCTCAGATTGGCACAGATTTCTTCTGTGAAATATCAGT
GCCACAGATTGTAACAGATAGCTTCATGCACACTCTGCATTTTATTGGTTTGTGGAAAATGTTGGCCATTGAA
TTATTCATAGATTTATTTCAAATAGTTTGGAAATTGTTGTACTTTGAAAACATGCTGTTCTGTAGTTTTTTGA
TGAGAGTTATAGTTGTTATATATACATAAAGATAATTTCTTTTCATTTTAAAGAGACAATCTTTTTATCCTAA
ATATTTTATTATCTTTAAATTTCTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGAT
ACTTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCACAAAAAACATAATCTGGTGATAG
AAATTTTATTGCTGTTTAGGTTTGTGACTGAATTGTGAGAAATTCAGTTGTGATTTTAAACATGTCTCAGATAT
ATATACTAACACGTCTAATATATACTATCTATTTTATTGGTTTATTTTGAAAACATGGGTATAGAATTATTTAA
ATATTATTTATTTATTGAAATATTTATTAAATATATTTATTTAAATATTATTACTTGAAATATTATTTTAAATA
TTTTTGAAATACTGCTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATAACTGTTATATA
CACATACGTATAATTTTGCTTTTCTTTTAAAGAGAGGATTCTTTTCATCCTAAATCTTTACCTTTCAATCTTTG
TATCTATTATTACACGTGTTGCTGAAGGGAGCATGGTTTTTATCTGTGATACTTAGTTAACATATATATTACATT
TATAGCTATGTAGTAGTTCCCCTAAATCTTGTAATAATAAATTTTATTTGATATTTCATATATGTTTGAAATG
TGAGAATTCAGGTGTAATTTTTTACCTTGTTTGGCATGTTTGTATGTTACTTTAAAGAGGATGTGTGTTCTAAA
GGAGGACATGAGCTGTGTGTTTTCAAGAGAACAAATAGAGTGCGTCTCTTGGGGAAACATAATAAAAATGAACCTT
TCTCACCTTC

3467/5332
FIGURE 3029

GGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCTCGAGTACAGAACCTGCTAAGGCCATCAAACCTATTGAT
CGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGA
AACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCA
GGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTCACCATTCTACCTGCCACGTATCGG
CGAAGGTTGGGACTCGACTGGTGTTCGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCAACCCAGAG
GGACCACAGTCAGCGTGAAGCAGTTATTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGA
AGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTG
TACAGCCTGCAAACTGTGAGTCAATTAAACCTCTTTTCTTCAT

3468/5332
FIGURE 3030

CAGTGTGGCAGTGGAGGCCGTCAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGTGCTGATGGACGTGGA
CTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTG
GAAACTTTTCTACCCCTGAGTGGCAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGTGCCCAGAG
GACTTTCTTCCAGCTTCTGCTGTCCTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGTCAGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAG
CACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGGGTGAAACCAGGAGAGATTGCTTGCTTCACT
TGTACAAGAATCGGCTCCCAGACACCTGCCACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGG
GACTGAGGCCCTGGCGGATCACGGGTGCCCAGGGGCTCGGAGGCCGCCTCCTCTGGGAAGCCTGCCCAGGTTCCG
ATGGACTCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCTGTTGGCCCCAATCCCCCACCCCTGCAAG
GTCTGTGCCTCTCCTGCAGCCCCGCCACCACTAGGGCGAGAGGAGCTCGCCCCACCCAAACGTATTGGTTCGA
TGAAGGAAGGGCCCATGGTTCTGCCACTGGCCCTGGACACCCAGTGCTGGTTCCCGTGGAAGTCCCCCTGGACT
GAGTGGCGGCTGGGTGCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCGAAGTCTCAGGACTCTGTGTAAGGCTGGGGACAGGGGC
TTGTTGGGGCCTAAGGGCACCTTGGGAAGTGCAGGAGCCGTTCTGCCTCCATAAGACACTCACTCCTGGCAGGG
TCCCCTCTCCGGGCACAGCCAGATCCACCCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCTCACAGAGGA
TTCATCACTCTGTTTCAAGTATCCCCAGGACTCCCTAGGGGAAGGAGGTCCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCCCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCACTAAACCAGGTGGTCAATCAGGG
AGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCCTCAAGCTAAGCCAATCAAAGCCTTCCCTGG
GATTGTCTCAAGGAGTCCGAGTGAGATTCTGGGTCTCAGTACTGGGAAAGGGTGAGGCTGAGGCTGCCTGCTGT
CCTGGGGGCTCACCTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCTTGGGTACTGGTTCCAACAGTGCTGCA
GATGGAGCCACCTCGGAGAGTCCACAACAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGT
TTTTGACTGTTTGAATGAGAGTCTCATCTTGGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAG
ATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAC
TAGCTAGGTGTGGTGGTGCGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCAG
GAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGCAAGACCCCTGTCT

3469/5332
FIGURE 3031

AACATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTG
GTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTG
CTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCGAAGAAGCTGCAGCCGCACCTGGCCAAGGGTGCTAGT
GTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACAGGCGAG
GTGTTGAGTTGGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGC
CTGGTCCAGCCTCCCAGCTGCCTCGATTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTATTT
CAAGAGACAAGGTTTTCTCCTATCAGGGTTCGGGCTTCCAGGCTGGATGGAGTGCCCTGGCGCGATCTCGGCTCACC
GCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCTTCAGCCTTCTGAGCAGCTGGGATTATGAAGGGGTGGC
CTGCCCCCTCCACATCTGTGGGATATCTCATCAGCCTTGATGACTTACAAGCCCTCAAGGGGAAGCATTTTCTCCT
GGACTCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGG
ACACCTCATTCTGCAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTCATC
GATGCCTGTGCCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTTTGCC
TTTGACCTGGATGCCAAGCGGCTGGCATCCATGCCACGCTGCTGGCCTGGGTTGGCGTCTCCTGCTGTGAGCTG
GCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATCCGCGCTATCGTGAGGTCCACTATGTCCTGCTGGATCCT
TCCTGCAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGATCCCGGGGCAGGGACACCTAGCCCGGTGCGTCTG
CATGCCCTGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGTCTAC
TCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACCAGATGCGCTGCAGCAGAACCCGGGCGCCTTC
AGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAGGCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGG
GCTTCCCCCAAGACCACGCTTAGCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCC
TCACAGGCCAAAGCATCAGCACCAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGACAGCAAAGAGCC
GCAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCAGGCTGACTCCTTCCTGGTGGGAAAGGAAGAT
GCCTGTCTCTCCGTGGAGGACCTGGGCCCCACCGCAGGCAGCAGTTGCATTTTGAAGGTTATTGGGTCCC
TTCCTCGGGCTGTGTTCTTGCTGGTGAGCAAAAGTGTTCCTGCAGAAATAAATGCAGAACGTACTCT

3470/5332
FIGURE 3032A

GAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCCTGGATTGCCCCGTAGGCCCGGGCCGGCCCC
CTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGGCCAGGCACAGCAG
CCCCCCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAGGAGGGGGCCAGTGTCAATCAAAGATG
TGGCTGTGGATTTCACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGT
TGGAGAATAACAGCCATCTAGTTTCTTGGCTTATGAGGTGGCAACATCTTGTACTTCGGAGATTCTGAAGCCGA
GCAACTTGCCCCAAGTCCTTCTTCTTTTCCATTAAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTT
GGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCCCTCACATCCTCAG
CCGAAGATCTCACTTCGTCCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATCGTGGGACTTTACCAGATCGGTT
TGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTACTTCCCACAGTGTG
CTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGTAGCCCACTGACTGTGAG
GATCGCCCCCTCTGACAGAAGATTTTACGTTCTGCGATACCAAGCAGATAATCAGCTCAACACTGTCGTCAACC
ATCAAGTAATGCCCCAGACCCATGTGCAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGGAC
AGTGGAGGAAGAAGACCAAATATTCTTGTATGGCCAGGAAAATAAAAGAAGCGCCATGATAGCAGTGGCAGTGG
ACATTTCAGCATTTGAGCCCCCTGGTGGCCAGTGGAGTCCCCGCTTCTTTTGTGCTTAAGCCTGGGTCTCTGAAGAG
AGGCCTCAATTCTCAGAGCTCAGATGACCACCTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGG
CGCTTACACAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCTACAGCTCCACTCGAGGCATCTC
ACAGCTCTGGAAGAGAAATGGCCCCAGTTTATCACCTTCTCTAGCCAGCCTCATCCCGCTCCCAGACACCGGA
GAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTATCATTCCAGTTCTTCAACTCCATTGGCAGCAGACAA
GGAGTCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCTGG
CAGCTCTGGGCAGCGTAAGCGAAAGTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACC
TCCCAGCTTGGCTATTCTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAGTGGTTCAACCA
GGCCTTGGAGGACAAGAGTGATGCTGCCTCGAAGTCTGTCACTGAGACCCACCTACCACTCAGCCTTCATTTAC
CTTACCCTGCCTGCTGCTGCAACTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGA
GAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCAGAACTGCTGAGGAGCAGCAACCACTGAGGC
CCTCTCACTTCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGGCCGCCAGGGCTGCTCCC
CAGCCCCCTCTTTGACTCCAAACCCCCGACCCTTGTCTGGGGCTGATCCCTGCTCCATCCATGGTACCAGCCAC
TGACACCAAGGCACCTCCAACCTTCAAGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGC
CCCCAAGCAAAGCTTCTGTTTGAACACAGAACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGC
ATCTCCCATGTTCAAGCCCATTTTACGGCTCCACCCAAAGAGTGAGAAGGAAGGCCCCACACCCCTGGCCCTTC
AGTACAGCCACAGCGCTCCAGCTCCTCCCTCCCCAGCACCAGCACCACAGCCCCGACCTTCCAGCCTGT
CTTTAGCAGCATGGGGCCACTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAATACTCCCGCCAC
TGCTCCCAACCAACTGCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGC
CAGTCCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGAG
TACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTCTCTTGGGGCGCCCCAGGCCTCTGCTGCCAGCTT
CACCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCACAACCAACACAGTACCACCTT
CAGCCAGTCCCTGCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTAGTGTTTTGGCAGCAC
CCTCGCCACCTCCGCCCGGCCACCAGCAGCCAGCCACTCTGACGTTAGTAACAGAGCACCACCGTCAA
CATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCCCGAGCCCGCATTGGGGC
CGCTGAGGGGCAGCCACCGGGGGCGCCAAGCCAGCCCTTACCCCGAGCTTTGGCAGCTCTTTCACTTTTGGAAA
CTCTGCAGCCCCGGCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCACGT
GCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGGCGTTTGGATTGAAAGCCACGGCTTCCGCCCT
CGGCGCTCCCCGCCAGCTCACAGCCCGCTTTGGCGGTCTCACTGCTGTCTTCTCCTTCGGTGCAGCCACAGCTC
CGGCTTTGGAGCCACCACCCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACACCATCACC
CTTACGTTTGGGGGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAG
CGCCACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTACAGGGGG
CTTAGGTGAGAAGCCCTGGGCACCACCGGCCAGAGCACACCGTTGCTTCAACGTGGGCAGCAACTGAGAG
CAAACCTGTGTTTGGAGGACCGCCACCCCACTTTGGTTCAGAACACCCCTGCGCCTGGAGTGGGCATCGGG
CAGCAGCCTCTCCTTTGGGGCATCTTCAGCACCCCGCCCAAGGCTTTGTTGGTGTGGACCGTTGGGCAACACTT

3471/5332
FIGURE 3032B

TGCTCACCAGCAAGAACACAGCCCCGAGGAAGGGACCCAATAACCTTTCAAATGCAAACCTGCTGCCTGCGGTGAG
GGCCCCAGGGTCCCTCCACGAGAGGACAGGCATCTTCCTTTCCACCAGGAAGGAGTCAGCCTGGAGCCTCTGCTA
TGTGCAAGGCGGTGTGCAAGCACCGGCTGCGGCTCTTTGCTGTCTCTTTCTCTTTGGGGCTGGGCTGGGTGT
GCGTTCTGGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAGTGTAGATGTTAGATGTGCCAGTACCATCC
TGCGCCTCCCAAGCATGCCCCCACTCACTCACGTCGGCATCTCGACCCGTTCAATTACAGCAACGAGAAGCCAC
CGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCACTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCC
GGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTACCCCCATCCC
CCCCCTCCACGACCCTGGCGCCCGCCCTGTACCTGAAGGCGCCCGGGTCTGCTGCAGCGCATCTGGTACCATGT
CTTCATTCTCCTCCTGCGAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAGTGAGCGCGTGGC
ACAGGGCTCGCTGCTGGAACCTTGCCAGGGCATGCAGACGCACCCGGCTAGGTGTCCCTGCCCGGGATCCTCCA
GCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCTGAAATC
CTCGCTCCTGAAATCCTTGCTCACAGAGGAGAAGCTTTTGCTCCAGGGTCCCAAGCCATTAAAGTGTCAGAATC
AAGACAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCCGAGTCCCTCAGCCACGCCCTTCTCACCATCT
CACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGACCTCACGATAGCGCGGATCTAAGGGGAGACCG
CCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAACCCAGGCCAGCAGCGTGGCCATGGATGCCAGCC
GCTTGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGCACGGA
GCAGCTAAGGGCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATTGAAAC
GGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCAAGGGCTAAGGGATCCACAT
CTCACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAAGTACTTTGGTACAGCAGGAAAGAGTTAA
GCGAAAGTCATCCTTTAGCCTTTATTACCACTGAAAGGCACAAAATCAAACCCCATGTCTCCTCCTCCTCCT
CCTGTGGCACTCACCCCTTGGTTCTTCAGAAAGAGCAGCCAAGTGACTGGTCTTATTGCCTGGGGCGGCACAGGCAT
CGATGACATGGGAGCCTGGCGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAGCACAGGGG
CCGGGTAAACAGAGACCCCAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCTAC
CCTGTCTCGAGAATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTCATGCAGATCTGTCTGGCGGGAAACACCAG
CAGCTCCGGCATCAAGGAGTCCAGGAGAAAATGCTTCCCTTGAGGGCTTGTAAAGTCATCAAGGCTGCCAGGGAA
GAACCATTCATTCTTCTGAATTTCTCCCTGCCAGGCCCTATTTCACGGTCCATTTCATGCAACAAATGTTAC
CACAGCTATGAGAAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTGTCAAGCCAG
ACTGATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAAGCCCCA
CTGGCATCTCTGTAAAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCACAATTT
AATAAATGTTAGCTATTCTGTGTTGAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGTGGGGAA
GTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAAACTACATTCACTAT
AACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGAGAGTCACATGTCTCAGTTCAG
AAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGTCCAAGC
AACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGA
GCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGAGGACACGGGGCAGAGACCAGCCACTGTTGCTG
GCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAGCCAAGA
AAGGACTTAGCATGGCCGGGCGCGGTGGTTCATGCCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGGCAGATC
ACCTGAGGTGAGGAGTTTGGAGACCAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAAATTAGC
CAGGCATGGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGA
AAGGGAAGACATAAGAAATTCCATTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAATTTGTGA
CTTTGCCCAAATTTGAGCTCACAAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTGTGCAGG
ACATGCCTTGTTAATAAAACGTTTACAAGC

3472/5332
FIGURE 3033

ATGTGTCCTTGGCGGCCTAGACTAGGCCGTCGCTGTATGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCCAGAAG
GACACCCGCCTGGATTTGCCCCGTAGGCCCCGGCCCGGGCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAG
GAGGGGACCTCGCGAGCAGACGCGCGCGCCAGCGACAGCAGCCCCGCCCGGCCTCTCGGGAGCCGGGGGGCAGA
GGCTGCGGAGCCCCAGGAGGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACATT
GCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGA
GAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCTGTGGGGTATGATTATCACCAAGC
CAAACATCATCATGGAGTGGAGGTGAAGGAAGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTC
ATGTCAACATAGTCCAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTGCTCTGG
GCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTCTGGATGCTGGTGCCACTAATAT
TGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTCAGACAATGGATGTGGGGTAGAAGAAGAAAA
CTTTGAAGGCTTAATCTCTTTCAGCTCTGAAACATCACACATGTAA

3473/5332
FIGURE 3034A

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACACGCCAGAACGTGCATACTGGGCAC
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCCTGAAGGACTCTCTGAGATA
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAGATGGAGTACCACACCAAAATCCCAGGTTCCAGGCAACCTGCAGATGAGTGA
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACCTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT
GGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC
AGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTCATCTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCACTCCTGCCTCCAGCTGACACCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC
AAAGTTGAAAGATCTGTTTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTAGATCCCCAGCTGCC
TGAGAACCCACCCAACTTCTGCGAGCCTCAGCCCTGTGAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA
GGCCTCATCCCCGACGCGAGCCAGTCTTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT
ATTGACAACAAGTTTGTATGACATCTTTGGCAGTTTATTGAGCAGTATCAGCAGTATCCCTTCAATTTCAACAGTCAAAATGG
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCAGTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA
AAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTCAGCGAGCTGGAAGCAGATCTGGC
CGAGCAGCAGCACCTGCGGCAGCAGCGGGCCGACGACTGTGAATTCCTGCGGGCAGAAGTGGACAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAAATGAACAGCG
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTTCAAGAACGCTGACCTGCTGCGGAAGAAATGCAGAGGT
GACCAAACAGGTGTCCATGGCCAGACAAGCCAGGTAGATTTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTT
GGAGCGCATCAGTGACCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAC
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACCTCTGCCCAGTCAGAAGCAAACTGGGC
AGCCGAGTTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTATC
TGCTCTTCGGAAGAACTGCAGGACACTCAGCTCAAACCTGGCCAGCAGAGGAATCTATGTGCCAGCTTGCCAA
AGACCAACGAAAAATGCTTCTGTTGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCCAGAAGACATCAGTGGACTTCTCCATTCCAT
AACCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC
TGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA
GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAAGTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCT
CCTGCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGAAGGAGATGGCGGCCACTTCAGC
TGCTATTGAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAAATCCCGAGCAGGAGACACAGGAGTCAAATT
GGAGGTGAATGAAAGGATCCTTGGTTGCTGTACAGCCTCATGCAAGCTATTAGGTGCTCATCGTGGCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGCAGGGGTACAGCATCCCCCTAAAGAGTTTTATGCCAAGAACTCTCG
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGTGGGGAGCCACTGTGATGGTGGATGCAGCTGATCT
GGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCAGCT
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCGGGCAATCACAGATCGAAGAGACAGACAACATGGA
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGCTAGAGCTAGAAAA
TGAATTGCAGAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAGAAAGCACTACGAGCTTGTGGTGTGCTGAGGG
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAAGTGGTAACCGAAAAAGAAATAGAGCCAAACCAA
CACCCCATATGTCAGTGTAATCCTTGTACCTATCTCGTGTGTGTTATTTCCCAGCCACAGGCCAAATCCTTG
GAGTCCCAGGGGCAGCCACACCCTGCCATTACCCAGTGCCGAGGACATGCATGACACTTCAAAGACTCCCTCC
ATAGCGACACCCCTTTCTGTTTGGACCATGGTCACTCTGTTCTTTCCCGCCTCCCTAGTTAGCATCCAGGCTG
GCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
ACATCCAGTCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTGTTGTTG
ACAGCTTGGAAAGGAAGATCTTATGCCCTTTCTTTTCTGTTTCTTCTCAGTCTTTTCAGTTTTCATCATTGCA
CAAACCTGTGAGCATCAGAGGGCTGATGGATTCCAAACCAGGACACTACCCTGAGATCTGCACAGTCAGAAGGAC
GGCAGGAGTGCTCGCTGTGAATGCCAAAGCCATTCTCCCCCTCTTGGGCAGTGCCATGGATTTCCTACTGCTT

3474/5332
FIGURE 3034B

CTTATGGTGGTTGGTTGGGTTTTTGGTTTTGTTTTTTTTTAACTTCACTCACATAGCCAACTCTCCCAAAG
GGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCACTGTGGTAGCTCCAGCGATGGTGCTGCCAGGCCTCTC
GGTGCTCCATCTCCGCTCCACACTGACCAAGTGTGGCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGC
TGAGTGACAGCTTTCTCAAAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGGCGGAAAG
CCTCTGTCCGCTTTACAAGGGAGAAGACAACAGAAAGAGGGACAAGAGGGTTACACAGCCCAGTTCCCGTGAC
GAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGGAATGAAC
TGTCCGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGGCCCAGAGACGGAGTGTTGGGAGTGATTCCCAACTC
CTTCTGACAGCTCTGCCTTGGCATCCTCTTGAATAGGAAGATCGTTCCACCTTCTACGCAATTGACAAACCCG
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCTATACTTGGTTTGTACCCCTTAGTATTTATTACTAAC
CTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAACTTCAGGTGTGACTCTAGCAAGGCTC
ATCTTTCTGCCCCGCTACATCAGCCTTCAAGAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGAT
CCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTGAGAGAAATGAGAAAGGACAGAGCCAGCGCTCCAATCC
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTGCCAG
GGATGGGCGAGCCCAACAGCACTTTTCTCTTCTAGATGGACCCAGCATTAAAGTGACCTTCTGATCTTGGAAA
ACAGCGTCTTCTCTTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCAGGATCTGCTCCAACA
GAATATTGCTAGGTTTTGTCTACATGACGGGTGTGTAGACTTCTGTTTGTACTGTGAACCAACCCCATCTCCC
TAGCCCAACCCCTCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAAACTCTCTCCAGGACC
TCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGGAAGTATCAGCACTAGAAATTGGGCAGTCTT
AATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCCTGGCTTCCCTGTC
CCAGTTGTGGCAACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGCTCACTT
CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGTGGCTCACGCTGTAA
TCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGTCCAACATGGT
GAAACCCCATCTCTACTAAAAATACCAAAAATTAGCCGAGCGTAGTGACGGGTGCCCCGTAATCCCAGCTACTCA
GGAGGCTGAGACAGGAGAATCACCTGAACCCAGAGGCGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGTA
ATGGATCAAAATTAAGATTCTCTGCCCAGCGGGGCACAGTGGCGCATGCCTGTAATCCAGAACTTTGGGAGGCCA
AGACGGGATGATTGCTTGAGCTCAGGAGTTTGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAA
TTCAAAAACAAAATTAGCCGGGCATGATGGTGCATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCACTCCGGCCTGGGTGACAGAGTG
AGACCTGTCTCAAAAAAAAAAAGATTCTGTGTGAGAGCCAGCCAGGAGTTGAGGCTGCAATGAGCCATGAT
TTCCCACTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAATG
ATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTGAGATGTACATAATTACTTTC
GTAATAGCTCAGATTAGAATGGCTACCCCATCTCTAGACAAAATCAAATTGTCCTATTGTGACTCTTCTAAAAA
TGAAGATGAAGAGCTATTTAATGACACACCTTGGATTAAAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTG
CAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTTACTTAAGTTTGTAG
ACAGTGCCTGAGACCTCTAGAGAAAAGATGTTTGTTTACATAAGAGAAAGAGGCCAGACATGGTGTCTCACACG
TTTAATCCCAGCACTTTGGGAGGCAGGGCGGGTGGATCACCTGAGGTCAGGAGTTCAAGACTAGCCTGGCCAAC
ATGGTGAAACCCCTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCAGGCGCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

3475/5332
FIGURE 3035

ATGGGGCGGGGCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGAACTGCCGCGAGGAG
GCGGAAGGAGCAGAGGACCGGCAGCCGGCGTCGAGGCGGGGCGCGGGAACGACGGCGGCCATGGCGGCCCTCGGGG
CCCGGGTGTCGCAGCTGGTGCTTGTGTCCCGAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTG
GTTTCCGGGCCTCGCTGTTCTGCTGCAGCAGCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCCCTGCTCTGCGGCGCT
ATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAACCGTGGGCACCGTCCGCCACTGCTTCTTCACCGTGATC
TTCGCCATCTTCTCCGCTATCATCTTCTGTTCATTGAGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAG
GATGCCAGAGGTTTACCCCAAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGCGGGCC
CTGGTGTTTGCGATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCCAG
ACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCCTATGGCCTCACCTACTGCTATTCCATCGAC
CTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGACCTTCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAG
TACGTCTCAGGGTCTTCAGCCGAGAGGAGGGCAGCCAGAGCCGGAAGTGAACCCGGTGCCTGGCTCCTACCCC
ACACAGAGCTGCCACCCTCACCTGTCCCAAGCCACCCTGTGTCCAGACGCAGCACGCCAGTGGTCAGAAGCTG
GCCTCCTGGCCCTCCTGCACCCCGGGCACATGCCACCTTGCTCCGTACCAGCCTGCCTCCGGCCTGTGCTAT
GTGCAGAACCCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATC
CAGCCCCCACGCCTGTGAACAGCCCTGGCACGGTGATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCC
AAGGAGTCTCCAGGGTCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTCTT
CCCTAAGAGTCTCCTGACAAAAGTTACTTATTGA

3476/5332
FIGURE 3036

GTTTCATGATCAACATGGGAGACTCCCACGTGGACACCAGCTCCACCGTGTCCGAGGCGGTGGCCGAAGAAGTAT
CTCTTTTCAGCATGACGGACATGATTCTGTTTTCGCTCATCGTGGGTCTCCTAACCTACTGGTTCTCTTCAGAA
AGAAAAAAGAAGAAGTCCCCGAGTTCACCAAAATTCAGACATTGACCTCCTCTGTCTAGAGAGAGCAGCTTTGTGG
AAAAGATGAAGAAAACGGGGAGGAACATCATCGTGTCTTACGGCTCCCAGACGGGGACTGCAGAGGAGTTTGCCA
ACCGCCTGTCCAAGGACGCCACCGCTACGGGATGCGAGGCATGTCTAGCGGACCCTGAGGAGTATGACCTGGCCG
ACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCCA
CCGACAAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTCGCGGTGT
TTGGTCTTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCG
GCGCCACGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAACCTGGAGGAGGACTTCATCACCTGGCGAG
AGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGAAGCCACTGGCGAGGAGTCCAGCATTGCCAGTACG
AGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGA
ACCAGAAGCCCCCTTTGATGCCAAGAATCCGTTCTGGCTGCAGTACCACCAACCGGAAGCTGAACCAGGGAA
CCGACGCCCACCTCATGACCTGGAATTGGACATCTCGGACTCCAAAATCAGGTATGAATCTGGGGACCACGTGG
CTGTGTACCCAGCCAACGACTCTGTCTCTCGTCAACCAGCTGGGCAAAAATCCTGGGTGCCGACCTGGACGTCTGTA
TGTCCCTGAACAACCTGGATGAGGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCTACCGCACGGCCCC
TCACCTACTACCTGGACATCACCAACCCGCCGCTACCAACGTGCTGTACGAGCTGGCGCAGTACGCCTCGGAGC
CCTCGGAGCAGGAGCTGCTGCGCAAGATGGCCTCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGG
TGGAGGCCCCGAGGCACATCCTGGCCATCCTGCAGGACTGCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTG
AGCTGCTGCGCGCCTGCAGGCCCCGCTACTACTCCATCGCCTCATCTCCAAGGTCCACCCCACTCTGTGCACA
TCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAACAAGGGCGTGGCCACCAACTGGCTGCGGG
CCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTTCGTGCGCAAGTCCCAGTTCCGCCTGC
CCTTCAAGGCCACCACGCCTGTCTATCATGTTGGGCCCCGGCACCGGGGTGGCACCCCTTCATAGGCTTCATCCAGG
AGCGGGCCTGGCTGCGACAGCAGGGCAAGGAGGTGGGGGAGACCTGCTGTACTACGGCTGCCGCCGCTCGGATG
AGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCGCTCACCAGCTCAACGTGGCCTTCT
CCCGGGAGCAGTCCCACAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCG
AAGGCGGTGCCACATCTACGTCTGTGGGGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACA
TCGTGGCTGAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCT
ACTCCCTGGACGTGTGGAGCTAGGGGCCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAATCAGCTCTCC
TGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGGCGCAGGCCAGTGACAAAGACTCC
TCTGGGCCTGGGGTGCATCCTCCTCAGCCCCAGGCCAGGTGAGGTCCACCGGCCCTGGCAGCACAGCCCCAGG
CCTGCATGGGGGACCGGGCTCCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTC
TCTGCTGAGCTGGGCCCCAGCCCTCCACGTGATTTCCAGTGAGTGTAATAATTTTAAATAACCTCTGGCCCTTG
GAATAAAGTTCTGTTTTCTGT

3477/5332
FIGURE 3037

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCCTCCACTACTGGCTACTGGCGCTGCAGCCATGCAGCCCC
CGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCCAGAACATCCAGGAGA
CCCATCGGCTCTACCGCCTGAAGCTGGAGGAGCTGACCAAACCTTTAGAACAATTGCACCAGCTCCATCACGCGGC
AGAAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCCTCCCTCCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACCAGATGAAGAGCGCCAAGGCCTCTTCTTTGACATGGAGGCCTATTTGCCTAAGA
AGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTACGCTCCTGAGCAAGCAGGCTAAGTTTGCCT
ACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTCACCATCATCCTCATCTCCTTCACTTGCCGCTTCC
TGCTCAACTCCAGGGTGACAGATGCTGCCTTCAACTTCCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACGTGTCCACCTTCCTGT
CGGGAGTCATGCTGACGTGGCCCCGACGGTCTCATGTACCAGAAATTCCGGAACCAATTCCTCTCCTTTTCCATGT
ACCAGAGCTTCGTGCAGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGC
GGCACACCATGGACCTCACTGTGGAGGGCTTCCAGTCTGGATGTGGCGGGGCTCACCTTCCTGCTGCCTTTTC
TTTTCTTTGGACACTTCTGGCAGCTTTTAAACGCGCTGACGTTGTTCAACCTGGCCCAGGACCTCAGTGCAAGG
AGTGGCAGGTGCTTATGTGCGGCTTTCCTTCCTCCTTTTTCCTCGGCAATTTCTTCACCACCTGAGGGTTG
TGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGATTGAGGCTGGGCCTTCCCTGCCGCCCCAGAG
GGGCTTCTGTCTGTGTGTTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGGTCTCTTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCAGTGCCCTCAATAAAGAGAGGC
CCAG

3478/5332
FIGURE 3038

GCCACTTCCGGGAGTCGGAAAGGAAAGCTGTGGGACCATCCTGGCAACCCCGGTGTTTGGCTGGGTTCTAGCGTA
GCCGCTGTGTGGCCGGTGGGGGACCTGCGGTTCGGAGTGGGAGGGCCAGTCTGCACCCAAGAGGTGGAAGAGGAC
GGGCTTTAGGCTGGAAGCGCCTTAGAGGAGCCATTTTTCCAGGTGGGGCCCCAGGCAGAGGCTCCGACAGGGAGC
CTGGCCATAGTCGCGCAGCCGGGAGGTGGAGCGCGTCCCAGACCCGAGCCCCGACCTCAGCCAAACCCATTCC
TTCTGCCCTTGGAGGCCAGAGGGGACTCTGAGCTCCGGAAAGGATGCCTGGTTTGCTTTTATGTGAACCAACAGA
GCTTTACAACATCCTGAATCAGGCCACAAAACCTCTCCAGATTAACAGACCCCACTATCTCTGTTTATTGGATGT
CCGTTCCAAATGGGAGTATGACGAAAGCCATGTGATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCT
TCTCCCGGAGTCTGTGGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCCCTGGAGAT
ACTCTTAAAAGATGATGATGATGATTGAGACTCTGATGGTGATGGCAAAGATCTTGTGCCTCAAGCAGCCATTGA
GTATGGCAGGATCCTGACCCGCCCTACCCACCACCCCGTCTACATCCTGAAAGGGGGCTATGAGCGCTTCTCAGG
CACGTACCACTTTCTCCGACCCAGAAGATCATCTGGATGCCTCAGGAAGTGCATTTTCAGCCATACCCCAT
TGAAATCGTGCCAGGGAAGGTCTTCGTTGGCAATTTTCAGTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAA
AATCAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGAGGCGATGCTGACAAGCTTCTGCACAT
CCGGATAGAAGATTCCCGGAAGCCAGATTCTTCCCTTCTTACGCCACATGTGTCACTTCATTGAAATTCACCA
TCACCTTGGCTCTGTCTATTCTGATCTTTTCCACCCAAGGTATCAGCCGAGTTGTGCCGCCATCATAGCCTACCT
CATGCATAGTAACGAGCAGACCTTGAGAGGTCTGGGCCATGTCAAGAAGTGCAAAAACAACATGTGTCCAAA
TCGGGGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCACAAACATCATGGATCC
GCTCTACTGATCTTCTCCGAGGCCACCGAAGGGTACTGAAGAGCCTCACCTGGGGGCATTTTGTGGGTGGAGGG
CCAGAGTGTGTATACCCAGGCTTGTCTGGAAGGAGAAGGCCTTGTCTGCCTGAAAGTCTC

3479/5332
FIGURE 3039

GGCGCTGGGCAGTGTGGAGGTCGTTGGAGTCACTTCCCCGTCACCAGCTCCTGTGCCTGCCAGTCGGTGCCCCCTC
CCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCCTGCCAGCGCTGCTCTCCGCCGAGCTTCAGCACCTCGGCCC
AGAACAATGCTAAAGTAGCTGTGCTAGGGGCCCTCTGGAGGCATCGGGCAGCCACTTTCACCTCTCCTGAAGAACA
GCCCCCTGGTGAGCCGCCTGACCCCTCTATGATATCGCGCACACACCCGGAGTGGCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAGGTTGTGATGTGGTAG
TTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACGACCTGTTCAACACCAATGCCACGATTGTGG
CCACCCTGACCGCTGCCTGTGCCAGCACTGCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCA
CCATCCCCATCACAGCAGAAGTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAGTCAACGTCCCTGTCA
TTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGTGCACCCCAAGGTGGACTTTCCCCAGGACC
AGCTGACAGCACTCACTGGGCGGATCCAGGAGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTG
CCACCCTCTCCATGGCGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAGGAAGGTG
TTGTGGAATGTTTCCTTCGTTAAGTCACAGGAACGGAATGTACCTACTTCTCCACACCGCTGCTGCTTGGGAAAA
AGGGCATCGAGAAGAACCTGGGCATCGGCCAAAGTCTCCTCTTTTGGAGAGAAGATGATCTCGGATGCCATCCCCG.
AGCTGAAGGCCCTCCATCAAGAAGGGGGAAGATTTCTGTGAAGACCCCTGAAGTGAGCCGCTGTGACGGGTGCCAGT
TTCCTTAATTTATGAAGGCATCATGTCACTGCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATCAATAAAAGCCGTCCT
TGATTTTATTTTTCAAGGTCCCTTCTGTAAATGCTGTGCTTTCTTCCCTGTGAGAGCCAACTTTAGAGTGTCTGC
TACCTCTTCATTACCAATCAGAATTAGATGATGTTTAACTGTTAGACTGAAGCGTGACGCTTTCATCAGTAGCTT
CAAGAAAGTCTAAATTGTTAATTTATGGAATTGGACACAGTATTACAGTTTACCCGTACATGCTCCTCCCGCCCT
CCTGTTGGCACCCCTTGATCGCCAGGCCTGATTCTCCTGGGGGTAGTTACCCCCACGGGTTCATAGTTCAGC
GGCGAATGCCAGGCAGCTGTTTTCTGGCTGAGCAAACAGCACCTTTCTCATTGAGCTTCCTCTACTGACCTCTGT
CCCCCTTGGGATTTTCATCTTCTGACCGAACCCCTGATGTTTCAGTGGCAGAGACAGCCCATAGCCAGAAGTGTGGGT
AGACCAGGGTTGGGGTGTGCGGTTTGGGACAGCCCAAACCCAGCCGCTGTGTCAAGGCCTAGGACGCCATGCTG
CCATCAAAGGGGGTTCCAGGTTTCCATCAGTGGCCTAAAGAAGGGACTTCTTGTGTACTGAGGAGTGCGGAAT
TAAAGAGATTTGACTCCCTTTAGTATTGGGGGCAGTCCGTTCCCCAGACACTGTGGCCTCTGAAGTGGAAGTGA
AAGCTGCATACCTGGGAAGAAGTTTCTAGGAATAGGCAATGGCCTTCAGTGGAAGAGGGAGGGCTGGAGGTGTG
CCCAGTACTTGGATGTTTCATCTGTCCACAACAGCTTTTTGTTTTTTAAAAAAGCTAAAATGGAATGGATTTTA
TCATAAAGGATGACATCGTTTTCTTCTACAATTAATACATGTTTCATTGTATAAAACCCAAAAAGCAGCTAAAAAA
TAAAGCGGGAAAGG

3480/5332
FIGURE 3040

ATGCCGGGCTTCATGCAGCCGGGCTGCGTGGCTGCGCAGAGCAGACTCCAGTGGGAGGAAGAGGCCTTTGCCAGC
AGTCAGAGCAGCCAAGGGGCCCCAATCCCTCACATTCTCCAAGTTTGAAGGAAAGAAAACCAACGAGAAGACCCAC
GAGGTTACCACAGTGAAGAAATCTTCAGTGGCTCTTCCAGGGTCGGATCAAAGAAGGCTACAAAACAAAAGAACA
GTTGCCAGCACTTGGAAGAGGATGTGGATCCAAACCAAATGGAGGACAGATACTCCCTCTATGGACAAGATACTC
ATGGAAGAAGTCAAGTTAGAAGAGCAGCTGAAGGAGGCTGTGGAAGAAGATAAGCAAGCACTGGCAGATACTGAG
GGCTCAGAGCAGAGCAGCCAAAAATTGGTGGAGGAGGGAATATGTATAGCATTTCAGGGCTTCTGCAAGGACTCG
TTAGAGGTTGCAGATGTTTTGGAGAAGGCAACACAGTGTGTTCCAGAAGAAGAAATTAAAGACAATAACCCTCAC
CTGAAGAACCTCTCTCTACTCACAAATGAGTGAAGTCCAGATTCAGGAAGTGTTTCAGCAAGCACTGCCAAGATGAA
CTCTGTACAGCAAGTTCCACCCTTATGAGCTTCTTGGACTCACTGAGGCAGTAAAGAACCATATCCTGTGTTT
GAATCAAATCCCAAGTTCTGTACGTAGAAGGTTTGCCAGACAGGATTCCCTTTTGAAGCCCTCCTGGTTTGGA
TTCCATGACTTGAAAGGATCGTCCATGGGAGTAATAAAATCAAATTTGTTGGTAAAAAGCCCAGCTGCCGCCCCG
CCCAACAGCATCTCCTGGCCCAAGGCTATTTCAAGTGGGCCCTCCAGGGCCCAGCTGCTGCACCCCAACCAATG
GCCTGTGCAAAACCCAAAGCGTCTTGAAGTTGGCCTCGCCAGGCCAGCTCCTGCCTGTATCCCGGCAGCATTG
TACGACCAAAACCTCCTCCAGCCCAGCTCTCCAGGCCACCTGTGGCCTCGCAGTGGCCTCCCGGGGCCAGATC
TTGCCTCACGGTGGCCTTCCCCGGCCGTGTTCCCTGCCAGCCTCCAGCGGCCTCGACAAGCCCATCGCATGCCTC
TCAQTGGGCTCTGGAGGTCCAGCTCAAGCCTCACGGTGGCCTCTCCAGGCCAGCTCCCGCCGCCCCGACGGCG
TCTCCCGGCCAAGGGTTTCTCAAGTGGGCCCTCCAGGGCCCAGCTGCTGCCCCCGGCCGATGGCCTGTGCGGG
CCCAAAGTGTCTGTA

3481/5332
FIGURE 3041

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACCTTT
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCA
GCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGG
AGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGATCGAGA
GCCCCGCAGTGGCCGCGCCCGCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGC
ACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG
ATGGCGTGGTGGAGATCACCGGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGC
GGAAATACACGCTGCCCCCGGTGTGGACCCACCCAAGTTTCCTCCTCCCTGTCCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCTTCGAGTCGCGGGGCC
AGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCAAGTAAAGCCTTAGCCCCGGATGCCACCCCT
GCTGCCGCCACTGGCTGTGCCTCCCCGCCACCTGTGTGTCTTTTGATACATTTATCTTCTGTTTTTCTCAAAT
AAAGTTCAAAGCAACCACCTGT

3482/5332
FIGURE 3042A

CAGCAGCCGCAGCCGCCCTCGCGCCCGGTCCCGCGGTTCGACGCTCCAGCCGCCTCCTCCGCGCAGCCGCCGCCCTCA
GCTGCTCGCTCTGTGGGTCGGTCCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCC
AGTGTCTCTCTCTCTCTCCGGCCAGACCCAGCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCC
GGCTGGCCGAGCAGGCGGAGCGCTACGACGACATGGCCGCGGCCATGAAGAAGCTGACAGAGCTGAATGAGCCAC
TGTCGAATGAGGAACGAAACCTTCTGTCTGTGGCCTACAAGAAGCTTGTGGGGGCACGCCGCTCTTCTGGAGGG
TCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGG
AGAAGATAGAGAAGGAGTTGGAGGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATT
GCAGCGAGACCCAGTACGAGAGCAAAGTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAG
TGGCCACCGGAGAGAAAAGGGCGACGGTGGTGGAGTCTCCGAGAAGGCCTACAGCGAAGCCACGAGATCAGCA
AAGAGCACATGCAGCCCCACCCACCCCATCCGATTAGGCTGGCTCTTAATACTACTCCGTCTTCTACTATGAGATCC
AGAAGCCCCAGAGCAAGCGTGCCACTTGGCCAAGACCGGTTTCGACGACGCCATCGCCGAGCTTGACACCCTCA
ACGAGGACTCCTACAAGGACTCCACGCTCATCATGACGCTCCTCCGCGACAACCTCAGCTCTGGACGAGCGACC
AGCAGGACGACGATGGCGGCGAAGGCAACAATTAAGGCCCCAGGGGAAGTGGCAGCGCACGCGGATGCTACTACT
GCAGTCTTTTATTTTTTCCCATGAGTTGGGGTTCGGGTGGGGGAGGGAAAGGGAGGGATGACCTTCCCAGGGAGA
AACCACGACCTGTCTGTCTTTGATCGCTCTTTGACATTTTGCCAAAATACCACTAGTGAAAAGTCAGGCTA
GCTGTGCTGGTATTGGAATAGCAGCCTCACACTGGCGTCTGGACTGTTCTGTAGATTTCATGCAAGTGGAGCTGTC
TGCTCTAATTTAACTTATTGCTAGATAATAGGGTTTTTCAGATGAAAAGAAAATTAAGAGGAATGGCCCTCAT
TCAGTAAGTTCTGTGGTTCCAGTAAGGATTTTTATGTACATACGCTCTCGTCTCTCGTTTGGGTACTTTCTATC
TCATCTGTCTCGGCTCTGCATGTTTTCCAGGGTGTAGCCTACAGACATGGAACAGTGTAAATCCAGACTGACAG
ACTTAGAACCTGAGGTCTCATTATCCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACA
GTATTAACACTAAATTGCAGTTTACAGTATTCTACATTACAGCCATATGTAACATCAAGCCATCGATTGTGTAC
TTTTCTTTGCTAGTTGTTTGGGCTTTAACATCCTTATTCAGCCTTATCCAGGTGGTTTTGCTGTTGATCGGTC
TCCTAGGCTAAATGAGAATGAAAGCGACTTCAGGTGAGGTGGCTGTGGGATTTTTTTTTTTTGGTCTTCTTTCC
TCTTAACGTAATCCACCACCAAATTTATTAATCCTCTTGAGAGAAACGTGAAACGCCACAAAATAGAGAAAAT
TCAGGTCTGTATGTCATGGATCGTGTGGTATTTTCAGAGAACATCCCGCTTCTGAAGCTGCTGCAGCTCCCTCC
TCAGGGATCACACTGCCGTCAACCACTCTGCACTGGGGCGTTTTCTACTGCGCCTCGTGTGGCGGACGCAGCTG
GGTGCAGAAGCTGTGGGGTTCGGAGAGGCGTTTGGAGAAGGTCTGTGGTGCAGTGTGTGAAAATTCAGGTGCTAGA
AGCCTACTGGTAGAAAAACCCAAAAGGAAGAGCTATATCCTTAACCAATCTGTCCAATTCGGGAGCCTTGTGAG
TGTGTGAGTTTTTCTCCCCGAAGACACTCCTTCCCCAAGTAATTGTAGGAAGATAAAAAACTGTTACAGATA
ACAAACACTGAACCTCCTATTTGACCAGAACTTTTCTCTCGAGATAGTTTTTTCTTTTTTAATGAAAAAGCATA
GGAATTGGAGATTGGCTTGTCTCAGCGAGCCAGTGCACATTTGGAATTGACGGAACAACGTTGCTATTTCCACC
CAATTTGTTTTTCGGCAGCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCGCAT
GTGCATTCTTTTTTTTATATATATAAAGTCAGTGACGAGGAACCTCCCGAGACGTGTAATGACACCACACTTGTTT
TCTTTGTTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAATTGAGGAAAACTGACAGATGCTTTTGCTAA
TACCAAATGAGCTTACAATTAGGAACAGATATGTGTAACAGGATACAGGTGACAGTGAAGATAGAAGAACCA
CGATGACCACAGACTCAATGTGCTCTGTAACATCGCACAGTTTACCCAGCATGACTTTCTTTAGGAGGCCCTC
CTCACGCTAGAGTAAAAGTCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAGCTTTGCCGCTTTTGT
GCCTCTCACAGGCGCCTAAAGTCATTGCCATGGGAGGAAGACGATTTGGGGGGGAGGGGGGGGGGGCAGGGTA
GGTGGGGCTTTCCCTAATTTATCTTCATGTCCAGTGAGCAGTGTGCGTTTTTCTTTGTAGCATTGGAATGAT
TTACTGGAATTACAAAACCTATTTTTCTTTAAATTTACGCTTTGGCTCTGGCTGCTTTTTAGAAATAATGCAAGA
TAAAAATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAGCTTGAATGGTTTTTC
TTTTCTTTATTTTTAAAGAAATGCACTTGCCATGATACTGTCTCTCCAGTGAAATGATTACTCTCCATTACTC
TATTGATACAATATTGTGCATGCTAGTGTGTTTCTATACAGTAGCTTGAAATTGATTAACCTTATACTGTAGG
TGTTATGTATTCCTATGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAATTAATTTTT
CCTTTTGGGGGTAAAGTTTGTCTACCAAATAGTGATTGTAACAAATTGATCTGTTTTGGATGTTGCTATAGTGA
CATGCAGTTATATATTTGTTTTTAAAGGGGGGGAGCAAAAGAAACACCAGTGTTAGCTTAATCTTAATGTCTG
GTGTTTGTGATGGTGAAATTATACTATTACAGTGTGGAGAACAACAAATATGTTCTCTGAATGAGCCTTTGTG
CTTTTGTGATGTTATGCACTGAATTTTTTAAAGTCTAATCAGTGATTATTTTTCCAGCTCCGTGTTTCTCTA

3483/5332
FIGURE 3042B

AGGAATTATTTACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAATGTGAGTCATTATGT
AGCTGTCGTACATTGAGCAAATAAACTTACAGATCTG

3484/5332
FIGURE 3043

TTTTCTGGGGCCGCTCCAGCTGGTGCCGGCCACCTCCACTCCCCTTTGCTTCTTGCTGTCCCTAAGGTCGGATGG
GGACAGGCTGGGGCCACCAGCCAGCTCCATGGACAGGGACTTTGCCTCTGCTCACCTTCCAGCTGTGAAAGAAA
AGAAGAAACGCCTGTGTTGATTTCCATTGGGAAGATCCTTCCTCCTCTAAACTTCCAGGGGCAGACAAAGTGAT
TCGATCTTGGATTGACTGTAGAAGAAGGGACAGAAAGAGCCCAGAACATCCCCCAGATGTTCCAACTGTGACTT
CTCCCTGGCGCCTTGATGGGAGCATCTGAAACACCCTTCACCATCTAGATGCACAAGGAAGCAGAGATGCTAATT
GGTCCCCAGCTGGATGAGAAGCGCTGGGGGTGGAGGTTGGGAGATGGGAGTGCTGCCCCCTCCCTTCTCTCCCCAA
GCCCTGTCTTTCTTCTCTCTCTGCCACTGGCCAGCGCCCTACAGCCCACTCCACTGCCCTTTCAAGAGCTGAGG
CTGGTGGGGGGCCCCAGCCGCTGCCGGGGCCGCTGGAAGTCATGCACGGTGGCTCCTGGGGCAGCGTCTGTGAT
GACGACTGGGACGTGGTGGACGCCAACGTAGTGTGTCGCCAGCTGGGCTGTGGCCTGGCACTGCCCGTGCCACGG
CCCCTTGCCCTTTGGCCAAAGGCCGAGGCCCATCCTGTGGAACAACGTGGAGTGCCGCGGGCAGGAAGCTGCGCTG
AGCGAGTGCGGCAGCCGCGGCTGGGGCGTCCACAATTGCTTTCACTACGAGGATGTGGCTGTCTGTGTGATGAA
TTCTTGCCAACGCAGCCCCAACAAAGGAAGATGTTAACAGTAGAGCACCTCCTACGACACTGCCGAATGGAAAA
AGTGAGGGCAGCGTAGCCTGGTAGGGGCGCGAACCTGTGTGTCAGGGCCGAGTGGAGATCCTGCACAGTGGCCTG
TGGGGCACCGGTGTGTGACGACTGGGGGCTGCCGGATGCCGCTGTGGTCTGTCTGCTCAGCTGGGCTGCCGGGCG
GCCATGGCCGCCACCACCAACGCCCTTCTTCGGCTATGGCACCGGACACATCCTGCTGGACAACGTGCACTGCGAA
GGCGCGAGCCCCGCTGGCAGCCTGCCAGAGCCTGGGCTGGGGTGTGCACAACGTGCGGCCACCACGAGGACGCG
GGCGCGCTCTGCGCAGGCCTGGGTCCCCAACGCTCACAGCACTGCCATCCTCAGCCACAAGAGAGGACTGGGCT
TGGCAGACAGATCCGTCCGCTACAGGAGTTGGCCCCCAGCCTTCCCGGGAGACAGCACTGCTCACCACCGCCGCC
TGGGCGCGGGGAAGAAAAGTGGACGGCTGCGACTGGTGGGCGGCCGGTCCGTGCCGCGGCCGCTGGAGGTG
TTGCACGCCGGGGCTGGGGCACCGTGTGCGACGATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCCGCAA
GCGGGCTGCGGGCCTGCGCTGGGCGCTACGGGACTGGGCCACTTCGGCTACGGCCGCGGCCCGCTGCTGCTGGAC
AACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGACTGCTTCCACCTGGGCTGGGGCCAGCACAACTGCGGC
CACCACGAGGACGCGGGAGCGCTCTGCGCAGGCCCAGAGGAGCTGGGACTGCAAGTCCAGCAGGATGGTTCTGAG
ACCACGCGGGTGCCCACTCCTCGGCCAGGGACGGGCATCTACGTCTGGTCAATGGAGCCCACCGATGCGAGGGA
CGTGTAGAGCTCTACCTAGGGCAACGGTGGGGCACTGTCTGTGATGATGCTTGGGACCTGCGGGCAGCCGGTGTG
CTGTGCCGCCAGCTGGGCTGTGGCCAGGCCCTCGCAGCCCTGGCGAGGCTCACTTTGGGCCAGGCCGAGGCCCC
ATTCTCCTGGACAATGTCAAGTGCCGTGGGGAAGAAAGTGCTCTGCTGCTCTGCTCTCATATCCGCTGGGATGCC
CACAACCTGTGACCACAGCGAGGATGCCAGTGTCTGTGCCAGCCTTCATGACCAGCCCGCTCTGCAGACCACCT
CTTCTTCTGGGAGCTGTGACCTCCCTTCCTCCTCCAGGAAGCCCTCCTCTTGTGATGACTACAGTTCACTTTGCC
CCTCCTTCCCTTGCCCTGGGAGAGAGCCTACCTAGACAGTGCACTCCTGCTTGGGGGAGCCTGGCTGTACCCCCGT
CCACTTACTGCGTGACCTCAGCCTGTCATCGACTGTTGTGAGCCCCAATTCAGTGAAAGCTCCTGTGTTTGTCTC
AGCCAAAACCAAACGAGGGGAAGAGGATGATTCTTAACCTCTTCTGTTTGGTGGGGCTCTTTTTATAGCACCAGA
CTCTGCCCTTCCCTTGACCTAGATCCAGGAGGCTCAGGGGCTCTTTAAATGGGGTATCTCCTCTTCCCCAACCCAT
CTTGGGATCCCCAAGAAGAGGGAAGGCAGGAGGGGCTTACAGCTCCTACCTTGGGCCCTCAGGGGCTGCAGAGGA
ACCTGGGTCCCTGTCTCTGCCCTGCTCCGCGAGGGCCTGGACTAACTCAGATGGTGTCTCGGCTGGACAAGGGGACT
GGGGGAGGGGCCAAAGCAGGGACAGTGGCCCTCCTGCGAGCTGGAACCAGCATCTCTGATTTATGCCGTCTCCA
CCACAGAGCCTCCACTTTGCAGGAGTGAAGAACCCTGGGGGCTGTAGCCACCAGTTCATAGGTGCCAAGTCAAT
AAAGCATTGTCCCCCGTCTCTTATAACTGCA

3485/5332
FIGURE 3044

GAGGCGGCTGCCTGCTGCTCTGCAGGTACCAATGGAGCTGAGCTATAGGCTCTTCATCTGCCTCCTGCTCTGGGGT
AGTACTGAGCTGTGCTACCCCCAACCCCTCTGGCTCTTGCAGGGTGGAGCCAGCCATCCTGAGACGTCCGTACAG
CCCGTACTGGTGGAGTGTGAGGAGGCCACTCTGATGGTCATGGTCAGCAAAGACCTTTTTGGCACCGGGAAGCTC
ATCAGGGCTGCTGACCTCACCTTGGGCCCAGAGGCCTGTGAGCCTCTGGTCTCCATGGACACAGAAGATGTGGTC
AGGTTTGAGGTTGGACTCCACGAGTGTGGCAACAGCATGCAGGTAAGTACGATGCCCTGGTGTACAGCACCTTC
CTGCTCCATGACCCCCGCCCCGTGGGAAACCTGTCCATCGTGAGGACTAACC GCGCAGAGATTCCCATCGAGTGC
CGCTACCCAGGCAGGGCAATGTGAGCAGCCAGGCCATCCTGCCCACCTGGTTGCCCTTCAGGACCACGGTGTTC
TCAGAGGAGAAGCTGACTTTCTCTCTGCGTCTGATGGAGGAGAACTGGAACGCTGAGAAGAGGTCCCCACCTTC
CACCTGGGAGATGCAGCCCACCTCCAGGCAGAAATCCACACTGGCAGCCACGTGCCACTGCGGTTGTTTGTGGAC
CACTGCGTGGCCACACCGACACCAGACCAGAATGCCTCCCCTTATCACACCATCGTGGACTTCCATGGCTGTCTT
GTCGACGGTCTCACTGATGCCTCTTCTGCATTCAAAGTTCCTCGACCCGGGCCAGATACACTCCAGTTCACAGTG
GATGTCTTCCACTTTGCTAATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTCACCCTAGCTGAG
CAGGACCCAGATGAAGTCAACAAGGCCTGTTCTTCAGCAAGCCTTCCAACAGCTGGTTCCCAGTGGAAGGCTCG
GCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACTCCAAGCCATTCCAGGAGGCAGCCTCATGTTCATG
AGCCAGTGGTCCAGGTCTGCTTCCCGTAACCGCAGGCATGTGACAGAAGAAGCAGATGTACCCGTGGGGCCACTG
ATCTTCTGGACAGGAGGGGTGACCATGAAGTAGAGCAGTGGGCTTTGCCTTCTGACACCTCAGTGGTGTCTGCTG
GGCGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTTATCCTGGTTCTCACCAGGAGGTGTGCACT
GCCTCCACCCCTGTGTCTGCTTCCGAATTAAAAGAAGAAA

3486/5332
FIGURE 3045

GGGCATGCGCAGCGGCTCGCTCGGAAGCTGCGACGCCGAGTTTCACTCTGGCTGCCTTCTCCTGAGAGTCGGAGC
CACAGCCAGAGCCCTGCCAGGCCGAGCCGGAGCTGCAGCCCAGCGCGGTGGTGCCCTCAGCCCCGTCTCTTG
TCCTCCTCAGCCTCGGTGCCTTGGAATTTGTGTGCTGAGTCAGCAAGCCTTTCAGATTTGCCCGTTTTGTG
TTTGTGGTTTGTATCAAGATGGGAACCTCAAACAAGTCATTCTCCTAAGGAGCTGGTGTCTTCATCCAGAAGGGA
CAGTTTGTGCCAGCTCTCCAGAGAGAAAAGATCTGCCGGAGGCGCTGGGCAATGACCCCGGGACTCCAGGCCAGA
GGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGACTCCTTGGGAAGATGGCCATGGCCCCAAGCCCTTCCCTGGTGC
AGGTGTACACCAGCCCCGCGGCTGTGGCCGTGTGGGAATGGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTG
CCACCGTCTGCAGCTTCATCGAGCAGAGTTTGTCCAGCAGAAGGGCCAACGTTTTGGGCTTGGGAGCCTGGCCC
ACAGCATCCCCTTGGGCCAGGCAGACCCCTCGCTGGCCCCCTTACATTATTGACCTCCCCAGCTGGACCCAGTTCC
GCCAGGACACCGGCACCATGCGGGCTGTGCGGAGACACCTGTTCCCCAGCACTCAGCCCCCTGGCCGAGGTGTG
TCTGGGAGTGGCTGAGCGACGATGGCTCCTGGACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGG
TGGCCAGGGGCAACCAGCTCGTGGACTTGGCCCCCTGGGGTACAATACTACACTGTCAACTACACCACCCACACGC
AGACCAACAAGACTTCCAGCTTCTGCCGACGCTGCGGCGCCAGCAGGGCCGCCTTACCCGGTGACCACCATCA
TCGCTCCGCCGGGCCACACAGGCGTCGCTGCTCTTGCCACCAGTGCCTCAGTGGCAGCAGAACTGGCCCCGTGT
CAGGCCGCTACCGCCACTCCATGACCAACCTCCTGTCATACCCCGTCCCCCAGCACCCCCACACAGGACCGCTT
CTGTGTTTGGGACCCACCAGGCCTTTGCACCGTACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCCAGGC
TGAACACCAACAACGCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTTACCCTCCAGCCTCTCCC
ACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGCAGTCAGTGCCTCCCTCCCCAGCGGTCCCT
CAAGCAGCCCAGGGAGCGTCCCTGCCACTGTGCCCATGCAGATGCCAAAGCCCAGCAGAGTCCAGCAGGCGCTCG
CAGGAGCGACCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCATAAAAACTACACGGAAGAGCTGAAAGTGCCCC
CAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCACAGCGTCTGGATACAGCGATGTGACTGACAGCAAGG
CAATCGGGTCCCTAGCTGTGGGCCACCTCACCAAGTGCAGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCATGT
ACTGCAACGGCAATAAGGATGGAAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATGGAGAGAAGACGGGGACCC
AGCCCCAGGGAAAGATGGAGGTATTACGGTTCCAGATGTGCTCCCCGGCCACGAGGACTGCGGGACCATCTCA
TAGTTTACAGCATTCCCCATGGTATCCAGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACTGCCAGAGGGT
TTCCCCGCCAGTGCTACCTTCCAGACAACGCCCAGGGCCGCAAGCCTCCAGGGGCTTCCAGAACCCGGAGACT
GGCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTACATGACGCTGCCCTGTCTCCGGACCAGCT
GCCCTGTGGCGACCCCATGGCGGGCAGCGGAGGCGCCCCGTGCTGCGGGTGGGCCATGACCACGGCTGCCACCA
GCAGCCCTTCTGCAACGCGCCCCCTCCCTGGCC

3487/5332
FIGURE 3046

CCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGCGGATAGCGAGTGTGAGGGCCGGCCGGGGCGGCGCT
TCTCGGCCTGTCGCTGGTCGGCCTCCTACTGTACCTCGTGCCTGCTGCGGCTGCGCTGGCCTGGCTGGCCGTGGG
GACTACCGCGGCCTGGTGGGACTGAGCCGCGAGCCCCGAGGTTTCGCGCCCCCTTGTCTCTCTTCGTTTCTGAGAGGC
GCGACATCGGCGAACACTGTTTCGCTTCGCTCCGCGCAAGTCGACAGCCAAACGGAAACCTCCTAGAGCCGCGGAC
CCTGCTCGAAGGACCTGACCCTGCCGAAGTGTCTCATGGGCAGTTACCTGGGCAAGCCCGGGCCGCGCAGCC
CGCCCCCGCTCCGGAGGGCCAGGACCTGCGGAATAGGCCTGGCCGCGCGCCGCGCCCGGGCGCGCTCCACA
CCGCCCTCCCCGCGGACCCATCGCGTTTACCACCTTTTACCCCTCTCTCCCCACTCCTCTTCTCCGACCCCTCCGGG
AGGCCTTCCCCACGGGATCGTGGGACTTTACCAGATCGGTTTGTAAATAACACCTCGAAGACGCTATCCGATCCAT
CAGGCCCAGTATTCTGTCCGGGGTACTTCCACAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCC
CCTCGCAACTCCAGGATGGTGTGTAGCCAGTGAAGTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTTCT
GCGATACCAGAGCAGATAATCAGCTCAACACTGTCTCACCATCAAGTAATGCCCCAGACCCATGTGCAAAGGAG
ACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCTTGTATGGC
CAGGAAAATAAAAGAAGCTGTCTTGTGACGGTCTCACTGATGCCTCTTCTGCATTCAAAGTTCTTCGACCCGGG
CCAGATACACTCCAGTTACAGTGGATGTCTTCCACTTTGCTAATGACTCCAGAAACATGATATACATCACCTGC
CACCTGAAGGTCACCTAGCTGAGCAGGACCCAGATGAAGTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAAC
AGCTGGTTCCAGTGGAAAGCCTGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACTCCAAGCCAT
TCCAGGAGGCAGCCTCGTGTGCTGAGCCAGTGGTCCACGTCTGCTTCCCTGTAAACCGCAGGCATGTGACAGAAGA
AGCAGATGTACCGTGGGGCCACTGATCTTCTGGACAGGAGGGGTGACCATGAAGTAGAGCAGTGGGCTTTGCC
TTCTGACACCTCAGTGGTGTGCTGGGCGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTATCCT
GGTCTCACCAGGAGGTGTCGCACTGCCTCCACCCCTGTGTCTGCTTCCGAATAAAAGAAGAAAGCAA

3488/5332
FIGURE 3047

ATGGGCACC GAATCACC CCTCTCTGG CCTCTCCAAGGCTCTCTGCACCCACTCCCCGACCTGGCCCCCTGCTGACC
GGCCACCAGGCCCAGGGAGCTCTTCCCCACATCCCGAGCTCCACCTCCCGAGACCTTCTCCTTGCACTCACTCCA
GCCCACCCTCTTCCCTTGCGAACACTCCACGTCCTCCAGGCCAGCTTGCACTCGCTCAGGATGACCCATCACACG
CCCTCTGCACCCTCCACAGCACCACCCAGAACCCCTAGTAACCGCGTCCACGTGTGGCTGTGACCACAGTCCTTCT
GCTCCTCCCCAGGTGGCAGCAACCCCAAGCCTGCTTCATTACAGCTGCATCACCGGGACCCAGCAGGGGCATGC
CACGTGTCTCAAGGAGGAACGGCCACAAGGGCAGCCCTGAGTACACAGCATGAGAACACAGGTGAGTCAGGCCTG
CAACAACCTCCGAACACAGGAATTGGCAGCTCTGGCACTTACGCAAACACAACCGCACTCCCTGGTTTCAGTGGCC
TTCTCCCCACCAAACAGAACTCCCTGAGGGCAGAGCTGCGGCTGCAGTTCTTCAGGTGCCCCAATATCCAGAG
GCTCTGAAACACCAAAGGAGGGTCTCTCGTCAGGTCTTCGCCGCAAATCTCTCTCCAGAGGATCGTGGCTGA

3489/5332
FIGURE 3048A

ATGTCTGTCTCTGTTTCACAGATCTGCCGGAGGCGCTGGGCAATGACCCCGGGACTCCAGGCCAGAGGGGTCTGAAG
CTGTTTGGGAAAGCAGCGGGACTCCTTGGGAAGATGGCCATGGCCCCAAGCCCTTCCCTGGTGCAGGATGGGCTG
GGCACCTGGCACCCCTACAGTGCCACCATCTGCAGCTTCATCGAGCAGCAGTTTGTCCAGCAGAAGGGCCAACGT
TTTGGGCTTGGGAGCCTGGCCACAGCATCCCCTTGGGCCAGGCAGACCCCTCGCTGGCCCGTTACATTATTGAC
CTCCCCAGCTGGACCCAGTTCCGCCAGGACACCGGCACCATGCGGACTGTGCGGAGACACCTGTTCCCCAGCAC
TCAGCCCTGGCCGAGGTGTCTGTGGGAGTGGCTGAGCGACGATGGCTCCTGGACCGCTATGAAGCCGGCGTC
TGTGACGATCTGGAGCAGCAGGTGGCCAGGGGCAACCAGCTCGTGGACTTGGCCCCCTGGGGTACAACTACACT
GTCAACTACACCACCCACACGACAGCAACAAGACTTCCAGCTTCTGCTGCAGCGTGGCGGCCAAGCAGGGCCG
CCTTACCCAGTGACCACCATCATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCACTGCCTCAGT
GGCAGCAGAACTGGCCCTGTATCAGGCCGCTACCGCCACTCCATGACCAACCTCCCTGCATACCCGCCCCCCAG
CACCCCCCACAGGACCGCTTCTGTGTTTGGGACCCACAGGCCCTTGCACCATAACAACAACCTCACTCTCC
GGGGCCCGGTCTGCGCCAGGCTGAACACCACGAACGCTGGGACGACGCTCCTTCCCTGGGGAGCCAGCCC
CTCTACCGCTCCAGCCTCTCCACCTGGGACCGCAGCACCCTGCCCCAGGATCTCCACCTCCGGTGCAGTCAGA
AAACTCGGAGTCTCATGTCTCACGTTTCCCACTCTGTCTGGGATCTCCTGGAGATGGTACAGACAGGAAAGCC
AGGGAGGGCCTAATAGGTGGACCAGGAGTTGGGGAGAGGAGGAGGGTGCCTGAGGCCATGACTATAGGGACTTCT
CAGAGAAGGACACTTCAGGAGGCAGTTGGTGCCCCATCTGGGAACGTTCTGCAGGTCCGAGCCCTCTGAGGACG
GGGCCCCATCTTGGGAACCTCTGGATCCTTGTACGGTTCACTTCTAGAGGTCACAGCAGGGACACACACCGGG
GAGGAACGCGATTATATGGGGGAAGTGGTGACATTTTTAGAGCTTTCTACAGAACATTCTCCTGGTTCCTGCTC
TCCATTACAGGTCTTGGGAAGCAAGGACTTCTTGTTCGTCTTTAGGAACGGAAGCAAACGTTCTCGTTCAGAT
ATGTGCCCTCCTTGGTGAAGGAAGACCTCACTTCTGGGATTTTCTGTGGGATGGAGCAGCCAGGGACCCCAT
CTCTGTGCTCCTCCCGAGCGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGTGCCATGCAGATGCCA
AAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGAGACCGTGGCGGGGACTGAAGAGAAAATGAAGGAGCGGCCAGAG
AGGGAGGACCGGGGAGCTGGCACTATGGAAAGTGGGGTAGGCCAGGGTGTGGCAGGAACGGGTTCTGCCAGCAG
GACACGCTGTGTCCCAGGAAGCGCTGGGTCTATCAGGGAGCACGAAGGAAGCAGTGTGAGAGGAGTCCCCAGG
GCAAGTGTGGGGTTCCCTGCAGGCATCCGGCAGTGTCCCAGGGAGACCTGTGCGTCCCCGTGGCCATTGATGCC
CCAGAGTTCAGCTCCTCTCCTCCAGTCACAGCTGGCATGAGGGGGCTTGTCTTGGAGACTTTGTGATTTTGT
AGCAGCAAGTTGTGGGTGAGAGCGCGCCCGGCTCAGGATGCGGGGACAACCGTCCCTTCCGCCAGGGCCAGCA
CGTGTCTCGGGAAAGGCCCCCAGACAGCGGGCCAGGTCTGCTGCCAGGTCTCTCGGAGCCTCCGCTTAGCAGA
GGGGCTTGGCGAGGTCTAGGAAATACTCGAAGCGCTGGCATGCGGCAAGGGTGGCTTCCGATCGTCCGACCT
CCAGCCACAGGCGAGGAGAGTCGCTGGACTTAGGACTAGTCTGCATGTGACAGACCTTCCGATCAGTGGCAG
GCGTTTCCCGGAGCAGTGTCTGTGTGGCGGTGCGCGTGTGTGCAGCTGCCTGTACATGCTGGACCCAGACTCCC
TTGTCTTTCGATGTTTATGCCAGGAGCGACCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCTATAAAAACTAC
ACGGAAGAGCTGAAAGTGCCCCCAGATGAGCTGCCGTCTGCACAGCCAGCACGCAGCTTGGATCATGGGAGCACT
CCCTGCCTGGAACCCCCAGCAGGACCCCCAACTCACACACAACCCCAAGCCCTGAGTGTGGCAGCCAGACCCCC
GAGGGCGCGCTCTCCCTGATCCTGTCTCATCTCTGCTCCCAGCCACCCCTGCCAGCTTTAGTGCCCATGCG
CTGGCTCCTCGTTTCAAGCTCTCTCCCTCTTCCGGGTGCCACTCTGTGCTTGTCCATCTGGCAATTCCTGT
CTCCCTTACCCCACTCCGAGGGCTCCCCAGGATCCTGCCCTGTCCGTCTTCCATTGGTGGCTTCTGTGT
CATGTGCGGCTGTGCTGCTGGACTGCATCATCTGCATGGAGAAGCTGTCCGACGCTCTGGATACAGCGATGTG
ACTGACAGCAAGGCAATCGGGCCCTGGCTGTGGGCTGCCTACCAAGTGCAGCCACGCTTCCACCTGTGTGC
CTCCTGGCCATGTACTGCAACGGCAATAAGCCAAGGCCAGCTCCGCAGATCAGACGCTGCAAGGCTGTCTATCC
GACTGCAAATGCGATTACCCGTGGAGATTTCTGCTCAGGATCCAAGTTTTCCCACTCGCCACCTGTCTCCTGAT
AGCATGTCCCTTAACGAAAATGGCATAAGTTGCTGGTGAAAAAAGCTTTCCAGGGAAGCTGTTGGAAGCCAG
TTTCCGGGCAGGAGGCTGCCAGCAACTCCCTGGGATGGTGGCCAGCCATTCCCGGGGCCCTTTACCATCTGATG
GTGGAGGTGACGGTCTTGGGTGTTCTCAGACTGCCAGCTCAGTGGGTGCGTCTGCTCTCTCAGGATGGAAGTC
TGCAGTGTCCCTCCTGCAAAACCATCTATGAGAGAAGACGGGGACCCAGCCCCAGGAAAGATGGAGCTCAGAGG
GAAATTCAGGAACATTCCGGGTGGCATCTCGGAGCGGGGAGGAGCTGGAGCTGTGAGGGGCTGTCCCTGTG
CGGGCTCTCGGAGACCCATCTCTGTGTCTGTTCTCCCGCAGGGCCCTGAGCACCCCAATCCCGGAAAGCCGT
TCACTGCCAGAGGGTTTCCCGCCAGTGCTACCTTCCAGACAACGCCCAGGGCCGCAAGCCAGACCCAAGGGGCT

3490/5332
FIGURE 3048B

GGGGGCCCTGCTGGAGTGATTGGACCCTGGGCGCCACCCCCCTCCGATTGGGAGAGGCAGCCCCAGGGACCCCC
ACGCCTGTCTCCGTGGCTCACCTTTGTCCCCCGTGGCCACAGAGCTGGTGCCCTACACACCACAGATAACAGCT
TGGGACCTGGAAGGGAAGGTCACAGCCACCACCTTCTCCCTGGAGCAGCCGCGCTGTGTCTTCGATGGGCTTGCC
AGCGCCAGCGATAACCGTCTGGCTCGTGGTGGCCTTCAGCAATGCCTCCAGGGGCTTCCAGAACCCGGAGACACTG
GCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTACATGACGCTGCCCGTGTCTCCGGACCAGCTG
CCCTGTGACGACCCCATGGCGGGCAGCGGAGGCGCCCCCGTGTGCGGGTGGGCCATGACCACGGCTGCCACCAG
CAGCCCTTCTGCAACGCGCCCCCTCCCTGGCCCTGGACCCCTATCGGCCTTGCAAGAGCTCCCAGCCCTGCAAAGAGA
CAAACCGAGCCCCTCTGCGGGGCTCCTGGTGCCCTGGGTCTCAGGCTGCTGCCACCTTCACCTGCTCTTTTGGC
TTGTGA

3491/5332
FIGURE 3049

AGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTGCTCTGGGCCAGTGGTA
CTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAG
CTTAAGGACTATGGAATGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGC
TTAACTCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTCCG
GGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTTCTACCTGCCACGTATCGGGCGAAGGTTGGG
ACTCGACTGGTGTTTGTATCAGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTC
AGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCC
TGCTTCCCCCTTCGCCCTTCTGCCGTGATTGTGCACTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTGCA
AAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGAGGAGACAACGTGATCACTGTATTACAGCTCCATC
AAGAATGGTCCAGGTTCTTCTAGATGATCTGCACAAATGGTTCTCTCCTCCTTCTGTATGTCTGCCATTAGCAT
TGGAATAAAGTTCTCTGTGAAAATCCACATCTCCCTGGGTCCGGTGTCTGGAAGTGAGAGAGACAATGTGACA
CTTCAAGGAGGCAGCTCTCTAGACAGGAAGGTTATTACGTCCCATGTCAAGTCTAGCTAGAGTTGAGAGCAAT
GAGAAGTGCAATTTTATCTCCTGCCCTTCATTCTATACCCCAAGGTGATCTGCTTCACTGTGAAACTCA
CACTTTGGTGACCTGACTCCAAAACCTAATACACCAAGGTGATCTGCTTCACTGATCTGCTTCACTGATGAACTCA
TGGGTGGGTCTTCCCAGGGAGTAGGGCACCTCAGAGAATGTGGCTTTGGACTTCATCACAGCTGGGGCCTTTTG
TGTCACCTTCAGATCTAAACTTTGTAACCGTGCTAGATCTGCTTCTAACGTGACAACATCACGAACACAGTCCAG
AAGCCTAATCCATAATCCTCCCTCCTCATGACGAAGTCTCATGCTCTGTGCTCAACATGGTTAGCTGCACAAGAT
GTAAACCAAGCTTCACTGAACCCTCGACCCAAATCGGTAACCTCAAGTGCATCAATCATAATGAACCTCCCCGAA
CTCAGTATTTATGATTATTTTTGAGGCAGGGTCTCACTCTGTGCGCCGGGCTGGAGTGCAGTGGCAGGATCAGGG
CTCCCTGCAGCCCCGACCTCCAGGCTCCAGCGATCCTCCCGCTCAGCCTCCTGAGTAGTTGGGAGTAGAGATG
CCTCCACATCGCCTGGCTAATTTTTGTATTTTTGTGGAGAGGGGATCTCGCCACGTTGCCAGGCTTGAAGCCA
GATCAAGCAATGGGTTCTTGGATTTCGAAATAGACCCCAATATTCTGCCTTTACCCCGAGGATGCAGATGT
ACCTTCTCTCAGGCCGATGACCTCAGGCCTCCACGGTCCCTGGAGCTCTAGGAAAGGTGGGCGCGATCTCGCGCC
CACACCCAGTGCTCTGGGTCTAAGCCTGGATCTGGAAAACAAACGCGCTTTGAGAAGACGGGGACTCCCCAGG
ATACCCCTCTCTCCCTCGTCCAGCCTCCAGCCCACCCGATTCTCCCCACATCCTCCACGTCCCCAGGCCCCAC
CCACCTCTTCCAACCTCCTCCAGGGAAACCAAGCCCTGCAGCGCATGGAACAAAAGAAGTGGAACCGATACTTCC
GGAACAAGGCTATCTGAGAGCAGTTCTTCTTGGCCCTCGGGTTCATGTAACGGCATAACTGGAACCAAAGCTCAC
TGAGCAAGGGTATATGAGAGCGGGTCTCCTCGTACAGGAAGTAGAAGATGTTTTGTTTGGGGGCTCGTCGTCTCT
CCTCCATGTCAATTGGCCAGATAGCTGAGGACAGAAATCAGGTTGCTGCTCAGGGGCACCACCAGGAGAGACCTCC
GGCTGAGGTCAGCTTCTCAGAGAGGAAGGTAAGGGACCGTCCCTAGCTCAGGACTGGCACCACCCCTGCAGAGAG
CCACGCCTTCTCAGGAGGGCTCTGCTGGACAGAGACCTGATCAAGGGCGTCTCCACTCCTTCAGGATGGAGAC
AAAAACCAACTGGTGACCAAGAGTGGTGGCTTATGCCTGGAATCCAGCACACTGGGAGGCCGAAGCAGGAGGA
TCACTTGAGGGCAGGAGTTTGAGACAGGCCTGGGCAACATAGCAAGACCCCTCGTCTCTATTAAAAATATAAAAA
TACGCCAGACGTGGCTCATGCCTGTAATCCAGCGCTTTGGAAGGCTGAAGCAGGTGGATTGCTTGAGACCAGGA
GTTTGAGACCAGCCTGGTCAACACAGAGAAACCCCATCTATACTAAAAATACAAAATCAGCCTGGTGCGGTGGC
ACACCCATTAGTCTAGCTACTCAGGAGGCTGAAGCATAAGAATTGTGTGAACCCAGGAGGCGGAGGTTGCAGTG
AGCCAAGATTGGGCCCCCTCCATTCCAGCCTGAGAGACACAGCAACACTCTTGTCTTGATAAATAAATAAATAAAT
AAATAAATAAATAAA

3492/5332
FIGURE 3050

ACATGATAATCTCACTCTTGTAAAGGTTTCATCGTTTCTGCTTACCCTACTTTTCTTTCCCATCCTGATCCCTCTC
CCACCAGACTGGACTCTGAAACGGGCATGTACAGAGAAGAGGAGACCCCAACACGCTTCAAGCTTTGAGTGGAGA
GGACACAGCCTCTGCTGGGACAGGGAACAGAGGGATGCCGAGACCCTGAAGATGCTTTTGGACAGTGGTCTGAGG
TTGGGACAGTGGCAGGAGATACCATTCACCCAGGATCTCCAGGACAAGAGATCAGCCTGGCAGTTACATGTGTTT
TTTTCAAACCTGGTTGCCAGGTTGGCATGAGCGATGACATCAGAGATTCCGACCTTCCTGATTGGAGGGACCGGA
CTCTGTCTGGCACCTGGGAGTTCACTTGGACAACAGTAACTTCTCAGAGCTGTTCTCCACTCCTGACTTCTCCCAG
CCTCGAGAATTGATAACACACTCTTCTGGATCCCAGCAGTGTCCAGAAGAAGACCAAGGACAGAACAGAGACTAG
GTTTGGTGAGATGGGACAGATTTTGGGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCGGAGCCC
CCAGCGGAGCACCTCAGGGTACCCCTCCAGGAGGTGGTGGATGATGAAGTGTCTGGGACCATCAGGTGAGGGGAC
TGGAGGAAGAAGAGGTGGCATAGGATTGACTAAGATGAAGGAAGGGGGCCAGGCGTGGTGGCTCACCCCTGTAAC
CCCAACACTTTGGGAGGCTGAGGCGGGCAGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTG
AAACCCCATCTCTACTAAAAGTACAAAAATTAGCCAGGCGGTAGTGGTGTGTGCCTATAATCCCAGCTACTTGGG
AGGCTAAGACAGGAGAATCACTTGAGCCTGGGAGGAAGAGGTTGCAGTGAGCCGAGATCGTGCTACTGCACTCCA
GTCTGGGTGACAGAGTGACATGCTATCTCAAAAAAAAAAAAAAAAAAAGAAGAAACAAAAGAAGGGTCAGAGG
TCAGGAAGGAGAACCTGGGGAGGGTGTGTGGGAAGAATGGAGAAATTCAGGCTGGGTGCAGTGGCTCACACTTGT
AATCCCAGCACTTTGGGAAGCCAAGGCAGGCAGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGCCAACATG
GTGAAACCCCTGTCTCTATTAAAGTACAAAATTGAGCTGGGCATTATGGCAGGCACCTGTAATCCCAGCTACCTG
AGAGGCTGAGGCAGGAGAATAAATGGAATCCGGGAGATGGATGTTGCAGTGAGCTGAGATTGCACCACTACACTC
CAGCCTGGGTGACAAAGCAAGATTCTGTCTCGAAAC

3493/5332
FIGURE 3051

GCTCCGGGCCAGCCGCGGTCCAGAGCGCGGAGGTTCTGGGGAGCTCGGCCAGGCTGCTGGTACCTGCGTCCGCCC
GGCGAGCAGGACAGGCTGCTTTGGTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAAATGAAGATCTTCTT
GCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAA
GAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACACTACTGCGTGACTGTGTCTGCTAGTGC
CGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGG
CGTCAATGTTGGTGTTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTTTCAGTGCGGCCGATGG
CGGGCTGCGGGCAAGCGTCACCCCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGG
CCCCTGAACCGCCCAGACCCTGTCCCCGATCCCCAGCTCAGGAAGGAAAGCCAGCCCTTTCTGGATCCCACAG
TGTATGGGAGCCCCCTGACTCCTCACGTGCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCACCCCCCTGCACCTC
CACCTGCCCCAGCCCCCTGCCTCTGCCCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTC
CTTGGGGGACCGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATGGACAT
GCTGACAGGGTCCCCAGGGAGACCGTGTGAGTAGGGATGTGTGCCTGGCTGTGTACGTGGGTGTGCAGTGACGT
GAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCT
GTAGCCCCCTGCCCTGGCACAGCTGCATGCACCTTCAAGGGCAGCCTTTGGGGGTGGGGTTTCTGCCACTTCCGG
GTCTAGGCCCTGCCCCAAATCCAGCCAGTCTGCCCCAGCCACCCCCACATTGGAGCCCTCCTGCTGCTTTGGT
GCCTCAAATAAATACAGATGTCCCC

3494/5332
FIGURE 3052

TGTTGAGAGGCTGGCCTGCGGTGATGTGGCCAAAGAGGAAGAGCTGGGCTGGGGTGAGTGTGGTCACATGGTTG
AACTAGGTGGGGAGGGGAGTGGTCCAGGGGAGAGTCCAGGCCAGCTCTGCTGGGACTTGCCATGGGGGTACG
ACTCATCTGCAGGGAAGGCTCTGGGCTTTATCTCTGAGCACCTCTGTGTGCTGCTCACCCCTGAAGTGGGGGTGGGC
CTGTGCTTGGCCTGTCCCCCTCATCCTGGGAGCTCCCAATGCCCATCTGCAAGGCTGTGGACCCCTCAGGAGTGGC
CTGGAGCCTGGCTCCCATTTGCCACATGGTGGCTGTGTGTGTGGAGAGGGTTGATAGTGGAGTGGTCAGGCCAGG
CTGCCCTGGGGGATGAAGTGCCATCCTCTGGGTGCCCTGGAGAAAGAAGAGAACTCAGTGAGCCCTGTCTGGTAC
TTTCTGGAGGAGGGCTCCCATGCTGGCCCTCCACCCCTCTGTCCCCTGTCACCCTGAGGCCTCTGGATTTCCTC
TCTGCCCTTCCCAACCTGCCAACTTACGGGTTTCTGGCTGGGTCTGGGGATGGCCCTAGGGGAGACGGGCCA
GGCACAAGCGGGGCTGTGTCAAGGTGGGTATGCAGGGGTAGCACAAGTGTGCAGAGCCTGGGGAGGCATGGGCCA
AGCATGGCAGGCGGGGCGGGGATCCTTGAAGGTACAGGGCTGGGGAGCAGTGTGGGCAGCGGCCAGAGGT
GGGAAGGCCGTAGCTTAGCTGGGTGTCCCCCTTTCTGTCTCTGCAGGTGGAGCCCCCTGAGCTGCCCGCTGATCT
GCAGCACTGGATCTCCTACAACGAGGCCAGCAGCAGCTGCTCCGCATGGAGAGTGGGCTCAGTGATGTCACCAA
GGACCAGTGACCGCCACCTTACACCGTCTGCCCTGGCCACCATCCTGGGCCTGGGGGCTGCCACAGATGGGCA
GTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCACCCTGCTCCACCCACTGGGGCC
CCCCAGTTATTGATACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTGGCATTGGCATCCTGACCCA
GCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCCTGGCCCTACGATGAGGCCACTCATGTGGG
CCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGCCTAGATCCTGGCTCGGACC
ACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTCTCCAGGGCCTGGGCCTGAT
TCAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTCTGGCTTCCGCTGAGGTGGT
TGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAAGGGAGGCATTGTGCTGACAG
AGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCCTCTACCTCCAGTCAGGCTGGAC
GGGAGGGTAGCCTTGTGGCTGAGAGGGGTGAGACTAGGTGGCACAGGGGCTCCTGGAAAGACAGCAGGCTTCCTG
CTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTCCTTGTCCACTCGCACCCCT
CGCCGCCACCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCCTTTCTGGGCCTACAGCACCACAGGCCGC
TGTACCCCTTAGAGCTGCCCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTCTTGTCTCTATATTAG
CATGTTCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCGCTAGCAGAGCCTCTCCTGGCAGCTTCTCAGGTCTCC
CTAATGGAGACACCAGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGGTGGCCCATCTAGCTGGGT
GCAGGGGTCACTGCTTGTGAGCTCAGGGCCCTGTGCCCGCTTGCCCTGTTCCCTACATCTGTGCCTGCACATCCA
GAAGTGCCTCCTTGCCGCTGCCTCCAGGAAGCCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCGATAGA
ACACGCCCCCCTCACTGCTGTTCTTGCCCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTAAAG
AAAGCCCAACATTAAAGGGTTTTTCATTGC

3495/5332
FIGURE 3053

GGCCAACTGCGCCTGGGGAGCAGCGGGATCCGGGGATGGGGCTGCCCTGTGTGCTCACCTGCCTGACCTGCCCCA
GGCCTCCTCCTGTCCCACCCTGCCTAATGCTCTAGAGTCCCCCTGGGCTGGCCTCAGGATTGCAAGCAGTGCAG
GGCCTGGTCTCGGGCCCTGGTCTCAGCCCTATCCAGATGTCCGAGGCAGATGGACCACCCGCTGAGCGTCAGAAAT
GGGTGCTCCTCCAGGGACTCCAGATTTCTGTTTGCTCTTGGCCTTCTGCCACCCACCCCACTGCCATGGGGCC
AAAGCAGCCGGGTTCCTGGAGATCCTGTCTTCCACCTAGTGCAGGGCATGAGGCCGGGGCCAGGACAGCCGGAC
CAGGCCCTGGGGCTTCTGGGAGCTGACTCACCTTGCAGGGAGTCCCACCACCACCTTCTGGGGCCCCACACGGTC
CCATGCTGGAACACACATCCCTGTGTGTAATTTTTTTTATTCATGCAGCATTAAATTAATAAATAAAGATAGCA
TGTCACCTTGCAAA

3496/5332
FIGURE 3054

CTTTCCCGGAGGCTGGCAGATGCGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGGT
CCCCCGCCCGCGGCTCCCGGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGGTGGGAGAA
GGAGAAGCACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCC
CCTTCCCGACGGAGTGCCTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTCCGCCAC
TTTTTATGGGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAAGCTTCTTCAATGACTGGCG
AAAGGAAATGGCGGTGGAAGAGAGGGAAGTCATCAAGAGCCTGGACAAGTGTGACTTCACGGAGATCCACAGATA
CTTTGTGGACAAGGCCGAGCCCCGAAAGTCTTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCAGAAAA
ACTTCAGCAAGAGTTCGGCTACTGTATTTTAGATGGTCACCAAGAAAAAATAGGCAACTTCAAGATTGAGCCGCC
TGGCTTGTTCCGTGGCCGTGGCGACCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGGT
TATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCGCCGGGGCACCAAGTGAAGGAGGTGCGCTCCGATAA
CACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTGAGAAGTCCATCAAGTACATCATGCTGAACCTTGCTC
GAAGCTGAAGGGGGAGACAGCTTGGCAGAAGTTGAAACAGCTCGACGCCTGCGGGGATTTGTGGACGAGATCCG
CTCCAGTACCGGGCTGACTGGAAGTCTCGGGAAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGA
TAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAAGCGCCGACACCGTGGGCTGCTGTTCCCTCCG
CGTGAGACAGTCCAGCTGCACCCGAGGCCGATGGCTGCCAACACGTGGTGAATTTGACTTCCTGGGAAGGA
CTGCATCCGCTACTACAACAGAGTGCCGGTGGAGAAGCCGGTGTACAAGAACTTACAGCTCTTTATGGAGAACAA
GGACCCCCGGGACGACCTCTTCGACAGGCTGACCACGACCAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGG
GCTGACGGCCAGGTGTTCCGGACCTACAACGCCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGCGC
CGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCGTGGCCATTCTCTGCAACCATCA
GCGAGCAACCCCCAGTACGTTTCGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGT
GGCTGAGGCCAGGGCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAAGCCCAAGGGGATGGCAAGTCCAGGAGTGT
CCTGGAGAAGAAGAGGCGGCTCCTGGAGAAGCTGCAGGAGCAGCTGGCGCAGCTGAGTGTGCAGGCCACGGACAA
GGAGGAGAACAAGCAGGTGGCCCTGGGCACGTCCAAGCTCAACTACCTGGACCCCAGGATCAGCATTGCCTGGTG
CAAGCGTTTCAGGGTGCCAGTGGAGAAGATCTACAGCAAAACACAGCGGGAGAGGTTTCGCTGGGCTCTCGCCAT
GGCAGGAGAAGACTTTGAATTC**TAA**CGACGAGCCGTGTTGAAACTTCTTTTGTATGTGTGTGTGTTTTTCTACT
ATTAAAGCAGTACTGGGAATTTTGTACAATAAAA

3497/5332
FIGURE 3055

GGCCGGACACTTCCGTCGGGCGCGGGCGTCCTCCTCCCGCTCGGAAGGTCAGGTGTGACACCTTCAGCAGGT
CTCAGGGAAGATGGCAGCCCTAGGGGACATTCAGGAGTCCCCTTCTGTCCCGTCCCCTGTGAGTCTCTCATCACC
GGGGACACCTGGAACCCAGCACCACGAGCCTCAGCTTCACCTCCATGGGCATCAACATGGCTCCCCCTGGCTCCAG
CCCTAAGGTGCTCTCCAGCCGTCCGACCTGGATCTCCAAGACGTAGAGGAAGTGGAGATCGGCAGAGACACCTT
CTGGCCCGACTCCGAGCCCAAGCCGGAGCAGGCTCCACGCTCTCCTGGCTCTCAGGCCCTGACGAGGGGGCGGG
CGGGGCGCTGCGCAGCCTCCTGAGGAGCCTTCCCCGAGGGCCCCGGTGCAGCGCCGGCTTCGGGCCCTGAATCCAG
CGCGGAGCGGCCGGCGGGCCAGCCGCTGGGGCCGTCCCTTGCGCCAGCCGCGGGGCGCTGGCGCGTGACGCT
CGTGACGAAGCAGCGGCCGGGCCGAGGGTGCGCCGAGCGGGCTGCCGAGCTGGGAGTCAACTTCGGTCCGAG
CCGGCAGGGCAGCGCGCGGGGGGCCAAGCCGCACAGGTGCGAGGCCCTGCGGCAAGAGTTTCAAGTATAACTCGCT
GCTCCTGAAGCACCAGCGCATCCACACGGGCGAGAAGCCCTACGCCTGCCACGAGTGCGGCAAGCGCTTCCGCGG
CTGGTCGGGCTTCATCCAGCACCACCGCATCCACACGGGCGAGAAGCCCTACGAGTGCGGCCAGTGCGGCCGCGC
CTTCAGCCACAGCTCGCACTTCACGCAGCACCTGCGCATCCACAACGGCGAGAAGCCCTACAAGTGCGGCGAGTG
CGGCCAGGCCTTCAGCCAGAGCTCCAACCTGGTGCGCCACCAGCGGCTGCACACGGGTGAGAAGCCCTACGCCTG
CAGCCAGTGCGGCAAGGCCTTCATCTGGAGCTCCGTGCTCATCGAGCACCAGCGCATCCACACTGGCGAGAAGCC
CTACGAGTGCTCCGACTGCGGCAAAGCCTTCCGCGGCCGCTCGCACTTCTTCCGGCACCTGCGGACCCACACGGG
CGAGAAGCCCTTCGCGTGTGGCGCCTGCGGCAAGGCCTTCGGCCAGAGTCCCAGCTCATCCAGCACCAGCGGGT
GCACTACCGCGAGTAGCCGGGCGGGGGCTCGGGGCTCGGCCTCTACCTGCCCCCAACCCACCCTCCACCCCGTC
CCCCACGGTGGGCACTGCCCAGCACCGCATGCCACGTGTCGGAATAAATTCCTTTTGTATTGTTGG

3498/5332
FIGURE 3056A

GCCCTGACCAGCAGACACCATCCTTCCAGCCTCTCTTGGCCACCCGGACCAGCGGGCACCACCCTCCCAGCCTCA
CGCGGCCACCCTGACCAGCAGGCACCATCCTTCCAGCCTTGCTCAGTCACCCTGACCCAGAGGGCTGCCCTGACC
AGCGGGCACCATCCTCCCAGCCCCACTCAGCTGCCCTGACCAGCGGGCACCATCCTCCCAGCCTCACTCGGCCAG
CCGAGCTCTGTAGGCCTCAGAGTGCAGAGAACCTCAAATGTTGTGACTTTGCTCTGCTGCAGGGACCTGCCATGG
AGTGTCCCTTGTGCGAGCATTTTGTAGAGCTATGCCAGCATCCATCCCTGCAGGTCCCATCCCTGAGCCATTCTC
AGGAGAGCAGGAAGGGAGCAGGGAGAGGGGTGCTCCCAGCCAGCCCCGGAACCAGAGGTCTGGGGACGCAGCCGA
CCAGCCCTCCTTGTCTGGGCCCTCTGTTTCTCTTCGACACAGGGAAGCAGGGAGGGGCCGATCAGCGACTTAGGC
CTGTTGGCTGTGGTGGGGTCCACCTGCGTTTCTGGGGAGCCACGGACCCTGGGGTGACCTGGGTTTCATTCCC
AGTGACCTCTCCTATTGGTCCCATTTGGGGCGCTGAGATGTGATCGTTTCTTCTCTGAGAATGAGCTGAGGTAA
AAACATGCTGGGGAGGAAGATGGGCCCTGGGGGCAGCGAGCTGCGCCTCTGCACCGGGAGAAAGGCCGTGTCCCC
AGAGCTGAGGGCGGTGGTGGGCAGGGCTCCTGAGAAGCCGGGGCAGGGCAGGGTGTCTCTGAGGTCAATGAGGAAC
AGCTGAGGTCCAGGGACGCAGGAAGGATGGGGTGAATCCGGGATGGGGCCGGCAGGGAGCCCTACGCTTACAGA
GCCTGGTGTGGCACTCTCCTGGCTTCCTCCGCAAACTAGCCACGTGGTCAGGGAGCCCGGCCCTAGCAGACGG
CCCCACCTTGACAGAATCCCCAGGGTCTGTCGCTGGCGGTGGGGGCGACTTCACAGCCGAGACCGGGCCTAACGC
TGCTGTCTCGCAGTCACCCCTGCAGGCCGCTCAGGGCAGGGCTCTGGCCTGACGGGGGTTCCTGGACACGCCTCT
GAGCCGGCAGCCCCCTACCCGCACCCGTGCACCTTCCACGCCCTCTCCAGCAGCCCCCTGCCCCACCCGCACCCC
TGCACCTGCCACGCCTGTCTCCGGCAGCCCCCTGCCCGCACCCGCACCCCTGCACCTGCCACGCCCCGTCTCCGGCA
GCACCTGCCACGCCCCGTCTCCGGCAGCACCTGCCACGCCCCGTCTCCGGCAGCACCTGCCACGCCCCGTCTCCGGCA
GCCCCCTGCCCGCACCCGCACCCCTGCACCTGCCACGCCCCGTCTCCGGCAGCCCCCTGCCCTGCACCCGCACCCCTCA
CGGCTGTCTCCGGCAGCCCCCTGCCCGCGCCCGCACCTCTGCACCTCCACGCCCCCTCTCCGGCAGCCCCCTGCCCA
CACCCGCACCCCTGCACCTCCACGCCCCGTCTTGCCCTGGGGCCAGGTGCAGGTCTGTGAGGAGGGCAGCCCCG
TGCTCCCGTGGCCACCGCTCAGCCAAATGGATTACGCGAGGGTTTTGTAGTGTGTGTGCTGTGTCCCCGTGTGCC
TGTTTCTGCTGAGGCTGGATGCCTGGCATGTCTGAACACTCACATTCCCCAGGCATGCATGTGCAGCCGCCGCC
GCCACCCATGTACTGTGGCGCTGACCCCTCCTGTAACAGCTGTGGTCTTGGCCTCTCGTGTGGTGGCAGATGTC
CCATTTCCAGTTACTTTCTGTTGTCCAAAAGTTTAACTGTCTGCCAGCCAAAGCTGCTGAGCATTACTCTGAT
AGACCATCAGTCCTTGGTAAGTGTCTGTGCATCTGGGATAAGCATCCGTTTGTTTTCAGCTGCGCTTTCTGTGA
CTTGCTCTGCGTGAGTCTCCTCGGTCCACGTGGGCCGTTGCGCTGGTTCCCAGCCTGCCCCGACACTCACTGCGAC
GCCTCCCTTGCCCTACTGCTTGTGGCTTCTGTGTTCTCTGCAGTAAACATTGATTCTGACTCGAGTGTGTCTT
CATTGAGCTCTCTGCACTCTGGGGATGCAGTCAGCGACCCACGAAGGCTACCGGCTTCCTCCCAGGGAACAGTG
CAGGTGTGCTTCCCAGGACCACAGGACCCTGGCTGGTCTGCTGCTGTGATGGGTCTCCACAAGACCAACCCCA
TTAGCCAGACTCACAGGAGACTGACACATAAATGAGAAAGTTGTTCACTAACTCACAATGGGAGCAACCCCTTTCG
AGTCCGGAATGCTCTCAGCCTTTCTGGCCCCGGATACCTGGGAGCTAAGGGTTCATTAGGTGGCCTAGTGCCT
GCACTCAGGATGCCCCAGAGGAGGCCCCGGGGTTCCTGAACGCCCTTCTTCAGGCCCTGTCTTCAGCCCTTCTCCA
GGCCCTCTGAGTTCCAAACAGCACTCACTTTTGTCTGGTCTCTGTTTCCCCGGCTCGCACCTCCTTCGTACGGGC
AGTTGCTCTCAACCAGGGGTACTTCTGCCCTGGGGCCACTCGGCAATGTCGGGACCGTGTGGCGGTACAG
CTGGGCGGGGGCACCACCGGAATCTGGTGTGCAGAGGCGGGGTCTGCCAGATGCCAGAGGTGCTGCAGGTGA
GAGATACAGATTTAGACCCTGTGACGACAAAGAAAGGACGGGAAGGTGGCTCTCAAGGCCCCAGGGAACCGCC
CAGAGACGCCCTGGGGTTCAGAAGCTGGAAAGGCATGGAGCGGTGCGGGAACAAGCCTCTGCGGTGGCTGGAGAT
GTGGGGATGGAGACTGGTCATGCCTTACACACTTAACCAGAACCCTCCCAGCTCTCCCTCCCTGCAACCAAGC
CAGCAAGGCGACACGGTGGCTGGCGCTGGCGAGAGGCAAGTGTGCTTGAAGTGCCTTTCTCCACTCTTGAGGACAA
CACCCAGAGTGGCCCCGTCTTTGCCCCACCAGCCAGGCCTAAAGCTTCCTCATCATCCGCATCCCGGCCTGGGA
CTTAGGCGGACTTCTGCCAGCTGTGTACGTGCAGGGGACTGCAGCCACTGACCCCTCTCCCTTCTGTCTGTCT
CTTCTCTACCCACAGCCCCAGGCAGATCTTCAGTGATGTACGCTCTCCTCCCTCCCTCCCTGCAGACCCCTGT
GCCCCGAGTGCCCTGAGAATGACGTCTGAGCCCCAGTGGAGGTGTCAAGGCTGTTCCGGTCTGTCCCCATCCCG
TTCTGTCTCCCTTGTCTACCACTACCCCTGCCTGGTCTTCCAACTCGAACCCAGGCAACTCCTTCAGGCA
TCAGACCTCTGCCCCTGCGCCCTCCTGCCTCTCTGTGATGGGCTGGCCCTCCCTTCTGTGCTCCCTCCCT
CCTTCTGTCTCAACCCCTATCTCTCTGTGATGTGCCCTTAGAGAAGCCTTCTTGGACCTTAAGCCTGGCCAC
TCCTCTAAGCCCTCATCTCCAGGTGTGGTCTAGGAAGTGTCTCTAGCCTCTCTACTCCAGTGGCTCGGGTCTC

3499/5332
FIGURE 3056B

TGACCAGCCCTCCTGCCAGGGAAGCTTTGAAGGTTCCCACAGGGACCCCTAGAGACAAGGGCACTGCCCGTCCAG
ATGGCACCCCTCACCCCAACCCAGCAGCACTGGCTGGAGCAGGCCATGCCTGTGTGGGTATCTGAACAGGCACTG
GATTCCCCGATCTCAACAAAAGAAGCCCATGGAGGCCTTTTCTAATCCACAGTCCAAGAGGACAAATCAAGACAA
CAGGCTGGGGGGGCTGGCTGTGGGCCGACTCCACGTCTTAGGACCAGGGGCTCTGGGGCTGTTTGGGCTGGAAC
CCCTCCTCCCAGCATAACAAACACTAGCTCATTATTTACAGTGAATACCCAACAAAACCCCTGCTCGAGGTGAGGA
GCGGGGACCTGCTGCTCCAACAGACCAGACTGGCTGCTGGCTCCGAGCTCATTAAATCAGCAACCTTTGCACTCC

3500/5332
FIGURE 3057

GATGGCGGCGGAGCAGGACCCGAGGCGCGCGGGGCGGCCGCTGCTCACTGACCTCTACCAGGCCACCATGGC
GTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCGCCGAGTTCGAGCTCTTCTTCCGCCGCTGCCCCTTCGG
CGGCGCCTTCGCCTTGGTAGCCGGCTTGCGCGACTGTGTGCGCTTCCTGCGCGCCTTCCGCCTGCGGGACGCCGA
CGTGCACTTCCTGGCCTCGGTGCTGCCCCAGACACGGATCCTGCGTTCTTCGAGCACCTTCGGGCCCTCGACTG
CTCCGAGGTGACGGTGCGAGCCCTGCCCCAGGCTCCCTCGCCTTCCCCGGAGTGCCGCTCCTGCAGGTGTCCGGG
CCGCTCCTGGTGGTGAGCTGCTGGAGACACCGCTGCTCTGCCTGGTCAGCTACGCCAGCCTGGTGGCCACCAAC
GCAGCGCGCGTTTCGCTTGATCGCAGGGCCAGAGAAGCGGCTGCTAGAGATGGGCCTGAGGCGGGCTCAGGGCCCCG
ATGGGGCCTGACAGCCTCCACCTACAGCTACCTGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCCAGCT
GCGAGGTGTGCCGGTGGCCGGGACCCTGGCCCACTCCTTCGTCACTTCCTTTTCAGGCAGCGAGGTGCCCCCTGA
CCCGATGTTGGCGCCAGCAGCTGGTGAGGGCCCTGGGGTGACCTGGCGGCCAAAGCCAGGTGTGGCTGGAGCA
GGTGTGTGCCACCTGGGGCTGGGGGTGCAGGAGCCGCATCCAGGCGAGCGGGCAGCCTTTGTGGCCTATGCCTT
GGCTTTTCCCCGGGCCCTTCCAGGGCCTCCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCCAACTTCCTAGC
AGTCGCCCTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCGTGAGGCTGGACAGTGGTGACCTGCTACAGCA
GGCTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCAGTTCCAGGTGCCCTGGCTGGAGTCAGTCCTCAT
CGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCCAGGAGGGCAGTGAGGTGAATGTCATTGG
CATTGGCACCACTGTGGTACCTGCCCCAACAGCCTTCCCTGGGTGGTGTCTATAAGCTGGTGGCCGTGGGGGG
CCAGCCACGAATGAAGCTGACCGAGGACCCCGAGAAGCAGACGTTGCCTGGGAGCAAGGCTGCTTCCGGCTCCT
GGGCTCTGACGGGTCTCCACTCATGGACATGCTGCAGTTAGCAGAAGAGCCAGTGCCACAGGCTGGGCAGGAGCT
GAGGGTGTGGCCTCCAGGGGCCAGGAGCCCTGCACCGTGAGGCCAGCCAGGTGGAGCCACTACTGCGGCTCTG
CCTCCAGCAGGGACAGCTGTGTGAGCCGCTCCCATCCCTGGCAGAGTCTAGAGCCTTGGCCCAGCTGTCCCTGAG
CCGACTCAGCCCTGAGCACAGGCGGCTGCGGAGCCCTGCACAGTACCAGGTGGTGCTGTCCGAGAGGCTGCAGGC
CCTGGTGAACAGTCTGTGTGCGGGGCAGTCCCCCTGAGACTCGGAGCGGGGCTGACTGGAAACAACACGAATCAC
TCACTTTTCCCC

3501/5332
FIGURE 3058

CAGAAAAATGGCTACAAAC¹TCCTAGCACATGAGAAGATCTGGTTCGACAAGTTCAAATATGACGACGCAGAAAG
GAGATTCTACGAGCAGATGAACGGGCCTGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCCGTGATCCTCCGTG
ACATTGCGAGAGCCAGAGAGAACATCCAGAAATCCCTGGCTGGAAGCTCAGGCCCCGGGGCCTCCAGCGGCACCA
GCGGAGACCACGGTGAGCTCGTCCGCGATTGCCAGTCTGGAAGTGGAGAACCAGAGTCTGCGTGGCGTGGTAC
AGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCGGGCTGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGG
CCACGGCCCCACAGACCCAGTGACA²ATCAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGG
CAGTACGCGGAGAAGAAGGCCAAGAAGCCTGCACTGGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGG
GATGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCCAGCTGGACGGGCTGGTCTGGGGGGCT
TCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGGGG
ACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAG
ATCTGAAGCC³TGAGTGTGTGTACGTGCGCGCGTGCGTGAGGCCCTGCCACGATTAAAGACTGAGAC

3502/5332
FIGURE 3059

CCCCGTGACCCCTCTTCAGGCACCCACCACCCTGATGGTGACAGAGGGGGACAGCCAGCACCCATCTGTCCCCGT
CAGGGCTCTTGTTCTCACAGCCCCCTGGAGCATGCCCCATGCCCAACCTTGGGCCTGGCTCCTGGCCAGATGG
CACCTGGCCTCTTGAGTCTGCTGGGGGACCCCAAAGTTGGTGGTCCCATAGCCTGCCCTCCTGGGTCTCCACCTC
ATGCCTGGACAGGACGCTGTGGCCTGTCCGGGCCTTGGCCAGCCCTGCAGCTGCACCCCGATCCTCATCCCTCA
CCCCATTCCCTGCCAGCATCCTAAGGCTCCTGGCGGGCATCCTCTCTGCTCAAAATTATTGACCTGTCTCCCGGC
CACACCTGCTGTGCCCTCTCAGCCAGGCCATCATCACCCCTGTTCATTATGTCAGGCCTCATGGGAGCCTGGCC
TTCTCCAGAAGCTGGCCCCGGCGTCTCCCAAGCTGGACCACGGCTGAATGAGGAACGCGCCACTGGACACATGA
GGAAGAGGCTGCTCTGGGAGCTACTGATGCTGTGACCTCACCTCTCTGGCTTGGGCGGCAGGTCCCTGCACCTA
GGATGCCTGCCTGGAAATGTCCTTGCAATTCGTGGCCTCCTTCACAGCCTCCTCCTCAGAGAAGCCTCTGCGAGTG
CACAGGGAGTGTGTGCAGCCTTGTGAAGGGCTGGGACCACTTGCCAGACTGGGGCCCCTCAGGCACAGGCGTGG
GGTCCTACTGACCTGTCTCCCCAGCTCCACACAGAAAGCATCTAAAAT

3503/5332
FIGURE 3060

CCTGGGCGGGCCCTGCGTCAGGTTGCAGTTTCACTTTTAGCTCTGGGCACCTCCAGCTCCTGCTCGCCGGACGGC
TCCCAGGGAGAGCAGACGCGCCAGACGCGCCACCCTCGGGGCGCCGACGGTCACGGAGCATGGGGTCGGCCTTTG
AGCGGGTAGTCCGGAGAGTGGTCCAGGAGCTGGACCATGGTGGGGAGTTCATCCCTGTGACCAGCCTGCAGAGCT
CCTACTGGCTTCCAGCCCTACTGCCTGGTGGTTAGGAAGCCCTCAAGCTCATGGTTCTGGAAACCCCGTTATAAGT
GTGTCAACCTGTCTATCAAGGACATCCTGGAGCCGGATGCCGCGGAACCAGACGTGCAGCGTGGCAGGAGCTTCC
ACTTCTACGATGCCATGGATGGGCAGATACAGGGCAGCGTGGAGCTGGCAGCCCCAGGACAGGCAAAGATCGCAG
GCGGGGCGCGGGTGTCTGACAGCTCCAGCACCTCAATGAATGTGTACTCGCTGAGTGTGGACCCTAACACCTGGC
AGACTCTGCTCCATGAGAGGCACCTGCGGCAGCCAGAACACAAAGTCCTGCAGCAGCTGCGCAGCCGCGGGGACA
ACGTGTACGTGGTGAAGTGTGTCAGACACAGAAGGAGGTGGAAGTCACGCGCACCCACAAGCGGGAGGGCT
CGGGCCGGTTTTCCCTGCGCGGAGCCACGTGCTTGCAGGGTGAGGGCCAGGGCCATCTGAGCCAGAAGAAGACGG
TCACCATCCCCCTCAGGCAGCACCTCGCATTCCGGGTGGCCAGCTGGTTATTGACTCTGACTTGGACGTCCTTC
TCTTCCCGGATAAGAAGCAGAGGACCTTCCAGCCACCCGCGACAGGCCACAAGCGTTCCACGAGCGAAGGCGCCT
GGCCACAGCTGCCCTCTGGCCTCTCCATGATGAGGTGCCCTCCACAACCTTCTGACAGATGGGGTCCCTGCGGAGG
GGCGGTTCACTGAAGACTTCCAGGGCCTACGGGCAGAGGTGGAGACCATCTCCAAGGAACCTGGAGCTTTTGGACA
GAGAGCTGTGCCAGCTGCTGCTGGAGGGCCTGGAGGGGGTGTGCGGGGACCAGCTGGCCCTGCGAGCCTTGGAGG
AGGCGCTGGAGCAGGGCCAGAGCCTTGGGCCGGTGGAGCCCTGGACGGTCCAGCAGGTGCTGTCTTGGAGTGCC
TGGTGTGTCTTCCGGAATGCTGGTGCCGGAACCTCGCTATCCCTGTTGTCTACCTGCTGGGGGCACTGACCATGC
TGAGTGAACCGCAGCACAAGCTGCTGGCGGAGGCGCTGGAGTCGCAGACCCTGTGGGGCCGCTCGAGCTGGTGG
GCAGCCTCTTGGAGCAGAGTGCCCCGTGGCAGGAGCGCAGCACCATGTCCCTGCCCCCGGGCTCCTGGGGAACA
GCTGGGGCGAAGGAGCACCGGCCCTGGGTCTTGCTGGACGAGTGTGGCCTAGAGCTGGGGGAGGACACTCCCCACG
TGTGCTGGGAGCCGAGGCCAGGGCCGATGTGTGCACTCTACGCCTCCCTGGCACTGCTATCAGGACTGAGCC
AGGAGCCCCACTAGCCTGTGCCCGGGCATGGCCTGGCAGCTCTCCAGCAGGGCAGAGTGTGGCCACCAGCTGC
TAGCCCTAGGAAGGCCAGGAGCCAGTAGCCATGTGGCCAGTCTACCATGGGGCCAGGAGTTGGGGAAACACAA
TAAAGGTGGCATAACGAAGG

3504/5332
FIGURE 3061

CAGGTGCAACTGACATGGGTGAACCCAGGGATCCATGCGGATTCTAGTGACAGGGGGCTCTGGGCTGGTAGGCA
AAGCCATCCAGAAGGTGGTAGCAGATGGAGCTGGACTTCCTGGAGAGGACTGGGTGTTTGTCTCCTCTAAAGACG
CCGATCTCACGGATACAGCACAGACCCGCGCCCTGTTTGAGAAGGTCCAACCCACACACGTATCCATCTTGCTG
CAATGGTGGGGGGCCTGTTCCGGAATATCAAATACAATTTGGACTTCTGGAGGAAAAACGTGCACATGAACGACA
ACGTCTGCACTCGGGCCTTTGAGGTGGGCGCCCGCAAGGTGGTGTCTGCTGTCCACCTGTATCTTCCCTGACA
AGACGACCTACCCGATAGATGAGACCATGATCCACAATGGGCCTCCCCACAACAGCAATTTTGGGTACTCGTATG
CCAAGAGGATGATCGACGTGCAGAACAGGGCCTACTTCCAGCAGTACGGCTGCACCTTCACCGCTGTATCCCCA
CCAACGTCTTCGGGCCCCACGACAACCTTCAACATCGAGGATGGCCACGTGCTGCCTGGCCTCATCCACAAGGTGC
ACCTGGCCAAGAGCAGCGGCTCGGCCCTGACGGTGTGGGGTACAGGGAATCCGCGGAGGCAGTTCATATACTCGC
TGGACCTGGCCCAGCTCTTTATCTGGGTCTGCGGGAGTACAATGAAGTGGAGCCCATCATCTCTCCGGTGGGC
GAGGAAGATGAGGTCTCCATCAAGGAGGCAGCCGAGGCGGTGGTGGAGGCCATGGACTTCCATGGGGAAGTCACC
TTTGATACAACCAAGTCGGATGGGCAGTTTAAGAAGACAGCCAGTAACAGCAAGCTGAGGACCTACCTGCCCCGAC
TTCCGGTTCACACCTTCAAGCAGGCGGTGAAGGAGACCTGTGCTTGGTTCACTGACAACTACGAGCAGGCCCGG
AAGTGAAGCTGGAAGACAGGATCAGGTGCCAGCGGACCATCGGCTGGCAGAGCCCAGCGGCCACCACCCGTCAAC
CCTGCCAGGAGCTGAGGGCACCACCCAGCAACCTGGGCCTGCATTCCATCCGCTCTGCAGCCCCAAGCATCTTTC
CAGTGGGGCCCCATTACGTTGGTCTCAGGGAAACCAGGGTCCCGGGCAGGCCCGGCGCTTTGCTCCCCACAC
CAGCCCCCTGCGCGTGTCCACTCTGATCCTGCATCCCACTCCCTGGGAGCCAATAAAGTGCATTTTCACAG

3505/5332
FIGURE 3062

AGCGCAGCGGCGTCCGAGGCAACAAGATGGCAGCTGCGGAGCCGTCTCCGCGGCGCGTGGGCTTCGTGGGCGCGG
GCCGCATGGCGGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGGAAGCTCAGCACATACTGGCCAGTG
CACCAACAGACAGGAACCTATGTCACTTTCAAGCTCTGGGTTGCCGGACCACGCACTCCAACCAGGAGGTGCTGC
AGAGCTGCCTGCTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTGGCAGAGGTGGCTCCTGTGG
TCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGGGTGTCTCTGAGCACCTGGAGGAGCTGCTGCCCCAA
ACACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGGGGGCC
GCCACGTGGGGAGCAGCGAGACCAAGCTCCTGCAGCATCTGCTGGAGGCCGTGGGGCGGTGTGAGGAGGTGCCTG
AAGCCTACGTGCACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGG
CTGAAGGAGCCGTCAAGATGGGCATGCCCAGCAGCCTGGCCACCGCATCGCTGCCAGACCCTGCTGGGGACGG
CCAAGATGCTGTGCACGAGGGCCAACACCCAGCCAGCTGCGCTCAGACGTGTGCACCCCGGTGGCACCACCA
TCTATGGACTCCACGCCCTGGAGCAGGGCGGGCTGCGAGCAGCCACCATGAGCGCCGTGGAGGCTGCCACCTGCC
GGGCCAAGGAGCTCAGCAGAAAGTAGGCTGGGCTCTGGCCATCCTTTCTGCCTCTGTGCCCCTGCCTCTCCCTG
TGTCCTTCCCCTGAGGACTGCGGCTCCCTCCCTCTGCATGAGGGTCTCCTACTGCTCCTTCTCCCTTGCA
GGGAAATGCAGGGGGCAGGACTTGGGAGGTTCCAGCAGCGGGGGAGCCCCGACCAGTGGGGACACTCCTCCCTC
CCCAGTGAGCAGAAGGCACCGTGGTGGTGGCTCTGCCCTTGTGTGAGTGAGCCACCTTGTGCAACATTGGTT
CTGAGGGGCCCCAAGAGATGGCGTCTTGGTCATTTGCCCGCATGGTTGGGCAGTTGGTTGAGGCCATGAACAGAAC
TTACGGTAACAGGCACGGCTGGCCCAATGCCTGGTCTGGAGCTGGAGCTTGCCTTTGGCTTTCCAGGTGGCTCCG
TGCAGCTACAGCCAGGCCGGCTGCCTCATCTCAGCTCTAGGGGGCACGAGCCATATGGGGTCTGCACAAAGAGACC
CTCTCCCTGCAGTAAAGCCAGGGGCCCTGGCCTGATGGGGCCCCCATGGGGAGCTGGAGCCTGCCCTGCAGCCT
GGAGAAGAGGGTGGCTGTGGTGGGCGTGTCTATCCCCTGCTAAGGAGCAGGAGCTGCTGGGCCAGGTCTGCGGCA
GTGCTGGGGTGGCACCAGGTGGGCAGTGGTAGGTGGGGTGGCTTGAGGTCTGGGAGGGTGGCCCTGGCCAGCCAG
GACACATGCAGACCCCTGGCTTTAGTCTGGATACAGGCTCCCTCTTTCTCCCAATCCTAAGCTCCTGACAAGTG
GCCAGGTGGCTCTGGGCCCTCTGCCCGTGCCTAGGTGAGGGTCTGGAATACCCCGTAGCTCTGGCACCACC
ACACTGGCCTCTGATGGCAAGACTTGGCCCCCTCCACCTGTCCCTAACGGACGGCAGGTCAGGAAAGCCAGGACTC
AGGGGAGAAGCAAACCCCAAGATTGAAGGCTAGGGTTCTAGGGCCTTTGGGTGGGAGGGCCCCGGCCGGACAG
CCTCAGCTCCGTCCCCTGCCCCACAAGATTACCTGGGCCTCCAGTCCCACGCTGGCCCCAACTGCTGCAGCTCT
CGGCTTCGCCCCAACAGCCTCTGGAGGTGAGGCGGGAGCATGCCCTCAGCGAGGCTGGGCGGCGGGTCTGTGT
GCCATCTCCCTGTGCGCCTGAGCAGATCAATCCACCAGTGCAAAACAGGGCTAACGGCACCTGCAGGACAGCAGC
ACGCTCCATCCCTCATGCTCAGCTGCCTCTGCGGCCACGGACTTCTGCCCTTCATCTGCTCTCTTACTCTCCT
GAGCCTAGCCCCGTCCGTAAGCTCCCTCCCCTGCCTGGTTCCCAGGGCAGGCTGACTCAGTTGACTGCTTGGTCCA
AGCCTGGCCCTGGCACTTGTGAGGCTCAGCCTAAGGAGATGGGAATAAAGAGGCCAGAGAGCACCAAGTGAGCTC
ATGTTTC

3506/5332
FIGURE 3063

CGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGTGCTCGGGGAGGTCCCCGCCGCCCGCCTCCCGGGAT
GTCCGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGAAACAGCCAGAAAGGCCCTTTCAGAAATGTCTGTTGC
ACATGCTTTCCCTCTCAGACCTTCAGAGACTTCCTGTTGCTCTGAGGACACTCATCCCAGCCGACCAGGCCAC
CAGGCCCCCAACAGCACTACCTGGCTGGGGTCACGTGCAGGTCTCCTGGCTCTGGCAGGTGGGAGAAGGAGAAGC
ACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCCCCCTCCCG
ATGGAGTGCGTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCACTTTTTATG
GGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTCCGGAAGAACTTCTTCAATGACTGGCGAAAGG

3507/5332
FIGURE 3064

GCGGACTCGGGAGATGAGGAGAAAGGAGATATTACGGCGGCAGATCCGCTACTGCAGGGTCTGATTGATGACTA
CAAAACCCTCCACGGCAATGCCCCGGCCCCCTGGTACCCAGCAGCTTCTGGGTGGCAGCCACCCACTTACCACAG
TGGCAGAGCCTTTAGTGCCCGCTACCTCGTCCAAGCCGGAGGGGCTACTCTTCCACCATGGGCTTCGTGGCG
CAAGAAATACTCCCTCGTGAATCGGCCCCCGGGACCCTCAGACCCTCCTGCCGACCATGTGTGCGGCCGTTGCA
CGGGGCCCCGGGGGGCCAGCCTCCTGTCCCGCAGCAGCATGTCTTGAGAGACAGGTCCAGTCTAGTCAGGGTCA
GAACGTGGTTCATCAAAGTTAAACCGCCATCAAAGTCTGGCTCTGCCAGTGCCTCAGGGGCCCCAGCGGGGCTCTTT
GGAAGAATATGAGGACACCCCCTGGAGTGACCAAAGGCCCGGGAAGGTGAAGGTGAGCCCCCTCGGGGACAGCT
GCAGCCCTCGAGGCCAACAAGAGCCAGGGGGACCTGCAGTGTGGAAGATCCTCTTCTGGTCTGCCAGAAGGAGCC
TGGTAAGCCCAGGATGGTGAAGTCAGTGGGCAGTGTGGGCGACAGCCCTGGGAGCCCCGCCGGACAGTCAGTGA
GAGCGTGATTGCCGTCAAGGCGAGCTTCCCATCCTCCGCTCTGCCCCACGCACTGGCGTGGCCCTGGGCCGGAA
GCTGGGTTCTCATTTCCGTGGCCAGCTGTGCTCCACAGCTCCTTGGGGACAGGAGAGTAGATGCTGGCCACACAGA
TCAGCCAGTTCCTGCTGGCTCAGTGGGGGTCGCCGAGACCGGCTCAGGACCCAGGCAGGCCCCGGGAGGCCCTC
GCTGGTTGTGACCTGTGCAACTAACAGTTCCCGAAAAACAATAAAATGGGTGGCTGCCTCCTCGAAGAGTCC
CCGGGTTGCTCGGAGGGCCCTCAGTCCAGAGTGGCTGCAGAGAATGTGTGCAAGGCCCTGTGCTGGCAGTCCAAA
CAAGGTGGAGAAGCCGAGCTCATAGCTGACCCAGAGCCCAAGCCAGGAAGCCAGCCACGTCCTCCAAGCCAGG
GTCTGCCCCCAGCAAGTACAAGTGAAGGCCCTCCAGCCCTCTGCCTCCTCCTCTTCTCCTTCCGTTGGCAGTC
GGAGGCCGGCAGCAAGGACCATGCCTCCAGCTCTCCCGAGTCTGTCTAGGTCCCCGTCGGGGGACAGACCAGC
AGTAGGACACAGTGGCTTGAAGCCCCCTCTGAGGAGACCCCGCTCTCGGCTTACAAAGTGAAGAGCCGCACCAA
GATCATCCGGAGACGCGGCAGCACAAGCCTTCTGGAGACAAGAAAAGCGGCACCTCACCTGCCGCCACCGCCAA
GAGCCACCTCAGCCTCCGGCGGAGACAGGCCCTCAGGGGGAAGAGCAGCCCTGTCTGAAGAAGACCCCCAACAA
GGGCCTGGTACAGGTACACACGCACCGACTATGTGCGCTGCCACCGAGCCGGGGCCACCTCCCCACCAAGGAAGC
GTCCAGCCTGCATGTGTGCGGACTGCACCCACCAGCAAGGTGATCAAGACCCGCTACCGCATTGTCAAGAAGAC
GCCGGCTCGCCTCTCAGCGCCCCGCCCTTCCCCCTGTCTCTGCCCTCCTGGCGGGCCCCGGCGGCTCTCACTATC
CAGGTCCCTGGTGCTGAACCGCTGCGTCCAGTTGCCAGCGGGGGTGGGAAAGCCCAACCGGGCTCCCTTGGTG
GCGGAGCAAAGGCTACCGCTGCATCGGAGGGGTCTCTACAAAGTATCTGCCAACAAAGCTCTCCAAGACCTCCGG
CCAGCCAGTGATGCGGGCAGCAGGCCCTCCTGCGCACAGGCCGGCTGGATCCTGCAGGCAGCTGTAGCCGTTT
CCTGGCCAGCCGGGAGTGCAGCGCAGCCTGGCCATCATCCGGCAGGCGCGGCAGCGCAGGGAGAAGAGGAAGGA
GTACTGCATGTACTACAACCGCTTCGGCAGGTGCAACCGTGGCGAGCGCTGCCCCACATCCACGATCCCGAGAA
GGTGGCCGTGTGCACCAAGTTTGTCCGGGGCACCTGCAAGAAAACGGATGGGACCTGCCCCCTTCTCCACCATGT
GTCCAAGGAGAAGATGCCGGTGTGCTCCTACTTCTGAAAGGCATCTGCAGCAACAGCAACTGTCCCTATAGCCA
CGTGATCGTGTCCGCAAGGCCGAGGTCTGCAGCGACTTCTCAAAGGCTACTGCCCCCTGGGTGCAAAGTGCAA
GAAGAAACACACGCTGTGTGCCCCGACTTTGCCCGCAGGGGGGCGTGTCCCCGCGGCCAGTGCCAGCTGTCT
CCACCGTACCCAGAAACGCCACAGTCGGCGGGCAGCCACGTCCCCCGCCCCAGGGGCCAGCGACGCAACCGCCAG
GAGCAGGGTCTCGGCCAGCCACGGGCCAGGAAGCCTTACGATCCAGCGCCCCACCAGGCAGACGCCAGCTC
GGCTGCCCTCACTGCGGCTGCCGTGGCTGCACCTCCCCACTGCCAGGGGGGTACGCTCTCCTCATCCTCGAA
GGCTTCTCCTCCTCCTCCTCCTCATCCCTCCCGCTTCTTGGACCACGAGGCACCATCTCTCCAGGAGGC
TGCCTTAGCAGCAGCGTGTCCAACAGGCTCTGCAAGCTGCCTTCTTCTCCTTCCCTGCAGTCTCGCCGAGCCC
AGGAGCCCAGCCCAGGTCCGGGCCCTAGGGCCCCCTACCAAGGACTCAGGGAAGCCTCTGCACATCAAACC
ACGTCTGTGAGGACCCCAGGACCGGCCCTGCACCTACCTCAGACCCTCATCCTTGGAGAGGAAAGAGGCTCTGTC
CACCCTCTACCCACAGGAGGGGCCGCCGCCACCAAGCCTCAGCTGGGGGCCACAGGGACACTGCTCTGCCTGC
CTGGCCCTCAACCTTCCATGACCAGCGTGTGCGCAGGGCCTGGTCTTCTCCCCCAAGCCAGGCCCTGTCCCCA
CCCCACCACCTTCCAGGGTGCCAGGCAGGGCTGGCCTCCAGGCCTGTCCCCGACTGCCATTGGCAACAGTGGCCC
TGCAGCCCCCAGCCCTCCCCACCCAGGTTTTGGGCCAGTGAAGAGGCCACTGGCCAGGCCTCCAGGCAGGTGT
TTATGTTTACGAATAAAGGTTCTATCCGT

3508/5332
FIGURE 3065A

GGCCGCTACGCCGAGGCTCTGGAGCAGCACTGGCAGGAGCTGCAGCTTCGGGAGCGCGCTGACGACCCCTCTGGG
CTGTGCCGTGGCCACCGCAAGATCGGAGAGCGCTGGCCGAGATGGAGGACTACCCGGCTGCCTTGACGACCA
GCACCACTACCTGGAGCTGGCACATTCCCTGCGCAACCACACGGAGCTGCAGAGGGCCTGGGCCACCATCGGCCG
CACCCACCTGGACATCTATGACCACTGCCAGTCGAGGGATGCTTTGCTGCAGGCACAGGCTGCCTTTGAGAAGAG
CTTGGCTATTGTGGATGAGGAGCTGGAGGGGACACTGGCCCAGGGAGAGCTGAATGAGATGAGGACCCGCTCTA
TCTCAACCTGGGCCCTACCTTTGAGAGCCTGCAGCAGACAGCCCTGTGCAACGATTACTTCAGGAAGAGCATCTT
CCTTGCGGAGCAGAACCACCTTTACGAGGACCTATTCCGCGCCCGCTACAACCTGGGCACCATCCACTGGCGCGC
GGGCCAGCACTCCAGGCTATGCGCTGCTTGAGGGGTGCCCGGGAGTGTGCGCACACCATGAGGAAGCGGTTTAT
GGAGAGCGAGTGTGCGTGGTTATTGCACAGGTCTCCAAGACCTGGGAGACTTTTTTGGCTGCCAAGCGAGCCCT
TGAAGAAGGCCCTACAGGCTGGGCTCCCAAGCCTGTGCAAGGGCAGCCATCTGTGCAACCTCCAGCATGTGC
TGGCAGTGGTCCGGCTGCAGCAACAGCTGGAAGAGGCTGAGGGCAGAGACCCTCAGGGTGCCATGGTTCATCTGTG
AGCAGTAGGGGACCTCTTCTCCAAGGCAGGAGACTTTCCAGGGCAGCTGAGGCTTACCAGAAGCAGCTGCGTT
TTGCTGAGCTGCTGGACAGACCGGGTGTGAGCGGGCCATCATCCACGTGTCCCTGGCCACCACACTGGGAGACA
TGAAGGACCACCATGGGGCCGTGCGCCACTATGAGGAGGAACCTGAGGCTGCGCAGCGGCAACGTGCTGGAGGAGG
CCAAGACCTGGCTGAACATTGCACTGTCCCGCAGGAGGCGGGCGATGCCACGAGCTGCTGGCCCCGTGCTTCC
AGAAAGCGCTCAGCTGTGCCAGCAGGCCCAGCGTCCCAGCTGCAGAGGCAGGTCTTGACGATCTCCATACCG
TGCAGCTGAGGCTGCAGCCCCAGGAGGCCCTGAGACCGAAACAGACTGCGGGAGCTCACTGTAGCTGAAGATG
AAGATGAGGAGGAGGAGGCGGAGGAGGCGGCAGCCACAGCGGAGAGCGAAGCCCTGGAGGCGGGCAGATGGAGC
TCTCAGAGGGCGAGGACGACACCGATGGCCTGACCCCGCAGCTGGAGGAGGACGAGGAGCTTCAGGGCCACCTGG
GCCGGCGGAAGGGGAGCAAGTGAACCGGCGAAACGACATGGGGGAGACCCTGCTGCACCGAGCCTGCATCGAGG
GCCAGCTGCGCCGCGTCCAGGACCTTGTGAGGCAGGGCCACCCCTTAACCTCGGGACTACTGTGGCTGGACAC
CTCTGCACGAGGCCTGCAACTACGGGCATCTAGAAATTGTCCGCTTCCCTGCTGGACCACGGGGCCGAGTGGACG
ACCCAGGTGGCCAGGGCTGCGAAGGCATCACCCCTCCACGATGCCCTCAACTGTGGCCACTTCGAGGTGGCTG
AGCTGCTGCTTGAACGGGGGGCGTCCGTACCCCTCCGCACTCGAAAGGGCCTCAGCCCGCTGGAGACGCTGCAGC
AGTGGGTGAAGCTGTACCGCAGGGACCTGGACCTGGAGACGCGGCAGAAGGCCAGGGCCATGGAGATGCTGCTCC
AGGCGGCTGCCTCGGGCCAAGATCCCCACAGCTCCAGGCCTTCCACACCCCAAGCAGCCTTCTGTTGACCCCG
AGACCTCTCCTCCTTTGAGCCCTGCCAGAACCCCTCTAATAGCACTAGACTCCCAGAGGCCTCTCAGGCC
ATGTCAGGGTCTCCCCAGGGCAGGCGGACACAGCCTGCGAGGCTCGGAGGAGCAGGCATGGGCCAGGCCA
GCAGCAGCAGCTCAGAAGGCGAGGACAGCGCAGGCCCGCCAGCGCCGTCCAGAAAGAGGCCTCGGTGCTCGGCCA
CAGCAACAAGGGTGGCAGCCTGGACGCTGGCCCCCGCAGCAACAGGGAAGCAGCCACAGCCAGCACCAGCCGGG
CAGCCTACCAGGCAGCCATCCGGGGTGTGGGAGTGTGCTCAGAGCCGGCTGGGGCCTGGCCACCAGCGGGGCCACA
GCAAGCCCTTGGCCCCAGGCAGCGCTCATCCCGGAGGAGGAGTGCCTGGCTGGGGACTGGCTGGAGCTGGACA
TGCCCTGACCCGAGCCGCGGCCCGCCCCGGGGCACTGGAGACAACCGCAGGCCAGTAGTACCTCTGGGT
CGGACAGTGAGGAGAGCAGGCCCGTGGCCGAGCCAAGCAGGTCCGCTGACCTGCATGCAGAGTTGCAGTGCGC
CAGTTAACGCAGGGCCAGCAGCCTGGCTTCAGAACCTCCAGGGAGCCCCAGCACCCCGAGGTCTCAGAGCCCA
GTGGGGACAGCTCTGCGGCAGGCCAGCCCTTGGGTCCGGCCCCCGCCCCCTCCATCCGGGTTTCAGTTCAAGTTC
AGGATCATCTCTTCTCATCCCTGTCCACACAGCAGTGACCCCACTCTGTGGCTGGCTGGCCGAGCAGGCGG
CCCAGCGCTACTACCAGACCTGCGGGCTGCTGCCAGGCTACCCCTACGGAAAGAGGGGGCCCTGCTGGCCCCAC
AGGACCTCATCCCTGATGTGCTGCAGAGCAATGACGAGGTGTTGGCTGAGGTGACTTCGTGGGACCTGCCCCAT
TGACTGACCGCTACCGCAGGGCCTGCCAGAGCCTGGGGCAAGGGGAGCACCACAGGTGCTGCAGGCCGTGGAGC
TCCAGGGCTTGGGCCTCTCGTTACAGCGCTGCTCCCTGGCCCTGGACCAGGCCAGCTTACACCCCTGCTGCGGG
CCCTCAAGCTGCACACAGCACTCCGGGAGCTGCGCTGGCAGGGAACCGGTGGGGGACAAGTGTGTGGCTGAGC
TGGTGGCTGCCCTGGGCACCATGCCCAGCCTGGCCCTCCTTGACCTCTCTCCAATCACCTGGGTCCCGAAGGCC
TGCGCCAGCTTGCCATGGGGCTCCAGGCCAAGCCACCTTGCAAGTTTGGAGGAGCTGGACTTAAGCATGAACC
CCCTGGGGGACGGCTGTGGCCAGTCCCTGGCCCTCCCTCTGACGCTGCCCCCTTACTCAGCACCCCTGCGCCTGC
AGGCGTGTGGCTTCGGCCCCAGCTTCTTCTGAGCCACCAGACAGCACTGGGTAGTGTCTTCCAAGATGTGAGC
ACCTGAAGACCCTGTCCCTGTCTACAACGCCCTGGGAGCCCTGCCCTGGCCAGGACCCTGCAGAGCCTGCCCC
CCGGCACCCCTCTGCACTTAGAGCTCAGCTCCGTGGCAGCCGCAAGGGTGATTGGACCTCATGGAGCCTGTAT

3509/5332
FIGURE 3065B

TCCGATACCTGGCCAAGGAAGGCTGTGCTCTAGCCCACCTGACCCTGTCTGCAAACCACCTGGGGGACAAGGCTG
TTAGAGACCTGTGCAGATGTCTCTCTCTGTGCCCCCTCACTCATCTCACTGGATCTGTCTGCCAACCCCTGAGATCA
GCTGTGCCAGCTTGGAAGAGCTCCTGTCCACCCTCCAAAAGCGGCCCCAAGGCCTTAGCTTCCTTGGCCTGTCAG
GCTGCGCCGTCCAGGGTCCCCTGGGCCTGGGCCTGTGGGACAAGATAGCCGCGCAGCTCCGGGAAGTGCAGCTGT
GCAGCAGACGCCTCTGCGCTGAGGACAGGGACGCCCTGCGCCAGCTGCAGCCCAGTCGGCCGGGCCCCGGCGAGT
GCACGCTGGACCACGGCTCCAAGCTCTTCTTTGCGCGCCTCTGACCCCTGGCGCTGCCTTTCCCCACCCTCACCGA
AGCCCCTAATAAATGAAGCTGCTGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCCAGG
CGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATACC
AAAAATTAGCCGGGCGTGGTGGTGGAAGCCTGTAGTCCAGCTACTCCGGAGGCTGAGGCAGGAGAATGGCGTGA
ACCCGGGAGGCGGAGCTTGCA GTGAGCCGAGATCGCACCCTGCACTCCAGCCTGGGCGACAGACCGAGACTCCG
TCTC

3510/5332
FIGURE 3066

GCGCACCCCGCCCCGGCGCCATCTTCCCGACCGCGAGCCGTCCAGGTCTCAGTGCTGTGCCCCCCCCAGAGCCT
AGAGGATGTTTTTCATGGGATCCCAGCCACGCCGGGCATAGGAGCCCCCTGGGAACAAGCCGGAGCTGTATGAGGAAG
TGAAGTTGTACAAGAACGCCCGGGAGAGGGAGAAGTACGACAACATGGCAGAGCTGTTTGCGGTGGTGAAGACAA
TGCAAGCCCCTGGAGAAGGCCTACATCAAGGACTGTGTCTCCCCCAGCGAGTACACTGCAGCCTGCTCCCGGCTCC
TGGTCCAATACAAAGCTGCCTTCAGGCAGGTCCAGGGCTCAGAAATCAGCTCTATTGACGAATTCTGCCGCAAGT
TCCGCCTGGACTGCCCCGCTGGCCATGGAGCGGATCAAGGAGGACCGGCCCATCACCATCAAGGACGACAAGGGCA
ACCTCAACCGCTGCATCGCAGACGTGGTCTCGCTCTTCATCACGGTCATGGACAAGCTGCGTCTGGAGATCCGCG
CCATGGATGAGATCCAGCCCGACCTGCGAGAGCTGATGGAGACCATGCACCGCATGAGCCACCTCCCACCCGACT
TTGAGGGCCGCCAGACGGTCAGCCAGTGGCTGCAGACCCTGAGCGGCATGTCGGCGTCAGATGAGCTGGACGACT
CACAGGTGCGTCAGATGCTGTTTCGACCTGGAGTCAGCCTACAACGCCTTCAACCGCTTCCTGCATGCCTGAGCCC
GGGGCACTAGCCCTTGACAGAAAGGGCAGAGTCTGAGGCGATGGCTCCTGGTCCCCTGTCCGCCACACAGGCCGT
GGTCATCCACACAACCTACTGTCTGCAGCTGCCTGTCTGGTGTCTGTCTTTGGTGTGAGAACTTTGGGGGCCGGG
CCCTCCCCACAATAAAGATGCTCTCCGACCTTC

3511/5332
FIGURE 3067

AGTCTGGCCCTGGACAACCCAGCAAAGCCGCCCTCAGCCAGCCCAGAAGCACTGGGCCTTGGCCACAGCAACAC
CCTACTGAGCACGCTGGGAGCTGAGTATGGCGTCCCTGGTCTCGCTGGAGCTGGGGCTGCTTCTGGCTGTGCTGGT
GGTGACGGCGACGGCGTCCCCGCCTGCTGGTCTGCTGAGCCTGCTCACCTCTGGCCAGGGCGCTCTGGATCAAGA
GGCTCTGGGCGGCCGTGTTAAATACGCTGGCGGACCGTGTGCACTGCGCCAACGGGCCGTGTGGAAAGTGCTGTG
TGTGGAGGACGCCCTGGGCCTGGGCGAGGCTGAGGGGTGAGGGCTGCCCCGGGGCCGGTCTGGAGGCCAGGTA
CGTCGCCCCGCTCAGTGCCGCCGCCGCTCCTGTACCTCAGCAACCCGAGGGCACCTGTGAGGACGCTCGGGCTGG
CCTCTGGGCCTCTCATGCAAGACCTCCTGGCCCTGCTCGAGAGCCCCAAGGCCCTGACCCCGGGCCTGAGCTG
GCTGCTGCAAGGATGCAAGCCCCGGGTGCGGCCAGACCCCAAGATGGCCTGCGTAGATATCCCTCAGCTGCT
GGAGGAGGCGGTGGGGGCGGGGGCTCCGGGCAGTGCTGGCGGCGTCTGGCTGCCCTGCTGGACCATGTGAGGAG
CGGGTCTTGCTTCCACGCCTTGCCGAGCCCTCAGTACTTCGTGGACTTTGTGTTCCAGCAGCACAGCAGCGAGGT
CCCTATGACGCTGGCCGAGCTGTGAGCCTTGATGCAGCGCCTGGGGGTGGGCAGGGAGGCCACAGTGACCACAG
TCATCGGCACAGGGGAGCCAGCAGCCGGGACCCCTGTGCCCTCATCAGCTCCAGCAACAGCTCCAGTGTGTGGGA
CACGGTATGCCTGAGTGCCAGGGACGTGATGGCTGCATATGGACTGTGGAACAGGCTGGGGTGACCCCGGAGGC
CTGGGCCCCAACTGAGCCCTGCCCTGCTCCAACAGCAGCTGAGTGGAGCCTGCACCTCCAGTCCAGGCCCCCGT
CCAGGACCAGCTCAGCCAGTCAGAGAGGTATCTGTACGGCTCCCTGGCCACGCTGCTCATCTGCCTCTGCGCGGT
CTTGGCCCTCCTGCTGCTGACCTGCACTGGCTGCAGGGGGGTACCCACTACATCCTGCAGACCTTCTTGAGCCT
GGCAGTGGGTGCAGTCACTGGGGACGCTGTCTGCATCTGACGCCCAAGGTGCTGGGGCTGCATACACACAGCGA
AGAGGGCCTCAGCCACAGCCACCTGGCGCCCTCCTGGCTATGCTGGCCGGGCTCTACGCCTTCTTCTGTTTGG
AGAACCTCTTCAATCTCCGGCAGCCAGGGACCCGGAGGACCTGGAGGACGGGCCCTGCGGCCACAGCAGCCATA
GCCACGGGGGCCACAGCCACGGTGTGTCCCTGCAGCTGGCACCCAGCGAGCTCCGGCAGCCCAAGCCCCCCCAG
AGGGCTCCCGCGCAGACCTGGTGGCGGAGGAGAGCCCGAGCTGCTGAACCTGAGCCAGGAGACTGAGCCAG
AGTTGAGGCTACTGCCCTATATGATCACTCTGGGCGACGCCGTGCACAACCTTCGCCGACGGGCTGGCCGTGGGCG
CCGCCTTCGCGTCTCCTGGAAGACCGGGCTGGCCACCTCGCTGGCCGTGTTCTGCCACGAGTTGCCACACGAGC
TGGGGGACTTCGCCGCTTGCTGCACGCGGGGCTGTCCGTGCGCCAAGCACTGCTGCTGAACCTGGCCTCCGCGC
TCACGGCCTTCGCTGGTCTCTACGTGGCACTCGCGGTTGGAGTCAGCGAGGAGAGCGAGGCCTGGATCCTGGCAG
TGGCCACCGGCTGTTTCTCTACGTAGCACTCTGCGACATGCTCCCGCGATGTTGAAAGTACGGGACCCGCGGC
CCTGGCTCCTCTTCTGCTGCACAACGTGGGCCTGCTGGGCGGCTGGACCGTCTGCTGCTGCTGTCCCTGTACG
AGGATGACATCACCTTCTGATACCTGCCCTAGTCCCCACCTTTGACTTAAGATCCCACACCTCACAAACCTAC
AGCCCAGAAACCAGAAGCCCCTATAGAGGCCCCAGTCCCAACTCCAGTAAAGCACTCTTGTCCTTGG

3512/5332
FIGURE 3068

CCCCGGCACCCAGGGCAGGTGCAGACCCGCGAGTGCATCGAGGCCGTGATCCGCTTCGCCTTCGAAGAGCGGGT
CTTTCTGCTGGCGGACGAGGTGTACCAGGACAACGTGTACGCCGCGGGTTCGCAGTTCCACTCATTCAAGAAGGT
GCTCATGGGAGATGGGGCCGCCCTACGCCGGGCAGCAGGAGCTTGCCTCCTTCCACTCCACCTCCAAGGGCTACAT
GGGCGAGTGCGGGTTCGCGCGCGGCTATGTGGAGGTGGTGAACATGGACGCTGCAGTGCAGCAGCAGATGCTGAA
GCTGATGAGTGTGCGGCTGTGCCCCGCCGGTGCCAGGACAGGCCCTGCTGGACCTGGTGGTCAGCCCCGCCGCGC
CACCACCCCTCCTTTGCGCAGTTCCAGGCTGAGAAGCAGGCAGTGTGGCAGAGCTGGCGGCCAAGGCCAAGCT
CACCAGCAGGTCTTCAATGAGGCTCCTGGCATCAGCTGCAACCCAGTGCAGGGCGCCATGTACTCCTTCCCGCG
CGTGAGCTGCCCCCGCGGGCGGTGGAGCGCGCTCAGGAGCTGGGCCTGGCCCCGATATGTTCTTCTGCCTGCG
CCTCCTGGAGGAGACCGGCATCTGCGTGGTGCCAGGGAGCGGCTTTGGGCAGCGGGAAGGCACCTACCACTTCCG
GATGACCATTCTGCCCCCTTGGAGAACTGCGGCTGCTGCTGGAGAAGCTGAGCAGGTTCCATGCCAAGTTCAC
CCTCGAGTACTCCTGAGCACCCAGCTGGGGCCAGGCTGGGTGCGCCTGGACTGTGTGCTCAGGAGCCCTGGGAG
GCTCTGGAGCCCAGTGTACTTGCTCTTGATGCCTGGCGGGTGGGGTGGGGGGGTGCTGGGCCCTGCCTCTCT
GCAGTCCCTAATAAAGCTGTGTGGCAGTCTG

3513/5332
FIGURE 3069

AGCCGCCGGCCGCCGGTGTCCGGACCGCTCGCCCCCGTTTGGACCCGACTTCGGTTCTTCTGGGGTGTGATGCT
CCTAAAGCCCCGAGAGCACGTGTCCAGACCCTAGCCTGTACGACGCTGACTCTGCCCGGTCCCAGAACCAAAGCCA
TGCCGGGGTGTGGCCTCTGACCCACGCGGAGGGGACCTCGCCTTGCGGGACCCACCTGGAACCCGACCTCCCA
GCCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTCTACCTGGTGCAGGGCCTG
CCCTACGGGTCCAGTCCGGCCTCCTGCCAGTGCTGCTGCGTGCCGGCGGCCTCTCGCTGACGCGCGTGGGGCTG
GCCAAGGTTCTGTACGCTCCGTGGCTGCTCAAGCTGGCTTGGGCCCGCTGGTGGACGCGCAGGGCTCGGCGAGG
GCCTGGGTGACGCGCAGCACGGCGGGCCTGGGCCTGGTGTGTGGGCTGCTTGCCGGGGTGCCTCCTGGAGCT
GGCCAGGCCGGGTGCCCGCCGCTGTGGCGGGGTGCTGCTGTTGTTGAACCTGGGTGCCGCCATGCAGGATGTG
GCCCTGGACGCGCTGGCTGTGCAGCTGCTGGAGCCGGCCGAACGGGGCCGGGCAATACCGTGCAGGTGGTCGCG
TACAAGCTGGGGGCCGCGCTAGCTGGGGGCGCGCTGCTGGCGCTGCTGCCCACCTTCTCGTGGCCGCAACTCTTT
CTGCTCCTGGCTGCCACCTACTGGCTGGCCGCGGCCCTGGCCTGGGCTGCACCAGCCCTGCGGCGGCTCCACAG
CAGCCCCCTTCCGAGCAGCGTCCCCACACCGCGCACCTTCTGCGGGACGTGCTAGCCGTGCCGGGGACCGTGTGG
ACGGCAGGCTTTGTGCTCACCTACAAGCTGGGTGAGCAGGGTGCCAGCAGCCTGTTTCTCTCTCTGCTGGAC
CACGGCGTTTCTGCTCCCGAGTTGGGACTGTGGAATGGTGTGGGTGCTGTGGTCTGCTCCATCGCTGGCTCCTCC
CTGGGTGGGACCTTGCTGGCCAAGCACTGGAAACTGCTGCCTCTGTTGAGGTCGGTGCTGCGCTTCCGCCCTCGGG
GGCCTAGCCTGTGAGACTGCCTTGCTTCCACCTGGACACCCTGGGGGCCAGCATGGACGCTGGCACAATCTTG
AGAGGGTCAGCCTTGCTGAGCCTATGTCTGCAGCACTTCTTGGGAGGCCTGGTCACCACAGTCACCTTCACTGGG
ATGATGCGCTGCAGCCAGCTGGCCCCAGGGCCCTGCAGGCCACACACTACAGCCTTCTGGCCACGCTGGAGCTG
CTGGGGAAGCTGCTGCTGGGCACTCTGGCCGGAGGCCTGGCTGATGGGTTGGGGCCACATCCCTGCTTCTTGCTC
CTGCTCATCCTCTCTGCCTTTCCCGTTCTGTACCTGGACCTAGCACCCAGCACCTTTCTCTTCAGCTGAGTGGCTG
GAGTGGTCAATAAAGCCACATGTGCCTGTG

3514/5332
FIGURE 3070A

CGGGGCTGGAGGCGGTGGCTGCGGTTGCGGGACCGGCACTATGCTGGGCCTTCCTACCACTTGTGTGTGGCTTGG
TAGTGGCCTAGGGTCTCTCCTCCCTGCTGAAGTCCCTCTCCTGCAGGTGGCCGTCTGCCCCGCCAGCACCATGC
ACACGCTTGTGTTCTTGAGCACACGGCAGGTGCTGCAGTGCCAGCCAGCTGCCTGCCAGGCCCTGCCCTTGCTGC
CACGCGAACTCTTCCCCCTGCTGTTCAAGGTGGCCTTCATGGACAAGAAGACAGTGGTACTGCGCGAGTTGGTAC
ACACGTGGCCCTTCCCGCTGCTCAGTTTCCAGCAGCTGCTACAGGAGTGTGCCACTGCAGCCGTGCCCTCCTGC
AGGAGCGGCCTAGCACTGAGAGCATGCAGGCTGTTATCCTGGGGCTGACTGCCCGGCTCCACACCTCAGAGCCTG
GGGCCAGCACACAGCCCCCTCTGCAGGAAGCATGCGCTGCGGGTGTGGACATGACGGGCCTCTTGATGATGGTG
TGGAACAGGATCCTGGCACCATGAGCATGTGGGACTGTAAGTGTGCGTAGCTCGCACATGCATTGCCAGCAGC
AGGGTGGGGCCGAGAGCCTGGGCCAGCCCCATCCCCGTGGAGGTGCGCGTGGACCTGCGGGTGAACCGGGCCT
CCTATGCGTTCTCGGGAGGCACTCCGAAGCAGCGTGGGCAGCCCGCTGCGGCTCTGCTGCCGGGACCTGCGAG
CTGAGGACCTGCCCATGCCAACACTGTGGCCCTGCTGCAGCTTCTGGATGCAGGCTGCCTGCGCCGCTGGACC
TGGCTTCAACAATCTGGGCTGCGCGGCTGTCTGTGATCATCCACACGTGGCCCGCTTCCAGCACTGGCCA
GCCTGCGGCTCCACTATGTGATGGGGATTCAAGGCAGCCCTCCGTGGATGGCGAGGACAACCTCCGCTACTTCC
TTGCCCAGATGGGCCGCTTACCTGTCTGCGTGAGCTCAGCATGGGCTCCTCTCTCCTTTCAGGGAGGCTGGACC
AGCTGCTCAGCACCCTGCAGAGCCCCCTGGAGAGCCTGGAGTTGGCCTTCTGTGCTCTGCTGCCTGAGGACCTAC
GCTTCTGGCAGGAGCCACATGCTGCCACCTCAAGAAGTTGGACCTGAGTGGTAACGACCTGTCTGGCAGCC
AGCTGGCACCCTTCCAGGGTCTGTTGCAGGCATCAGCAGCCACACTGTTGCATCTGGAGCTGACTGAGTGTGAGC
TCGAGACACCCAGCTGTTGGCCACACTACCCATCCTGACTCAGTGCGCCAGTCTCCGGTACCTTGGCCTCTATG
GCAACCCACTGTCCATGGCGGGCCTCAAGGAGCTGCTGCGGGACTCAGTGGCACAGGCTGAGCTGCGTACTGTGG
TGCACCCCTTCCCTGTGGACTGCTATGAGGGCTTGCCCTGGCCGCCGCTGCCTCTGTCTGCTGGAGGCTCCA
TCAATGAGGAGAAGTTTGCCCGCGTAGAAGCTGAGTTGCACCAGCTGCTTCTAGCCTCAGGCCGTGCCATGTGC
TCTGGACCACGGACATCTACGGGCGACTGGCTGCGGACTACTTCAGCCTATGATGAAGTAGCTCTGGGTGAGACA
CAGGCCGCCCTGCAGTCTCTTTAGGTAGGCAGGGCCTTTGCTGGGACCCCTGGTGGAGGCCTTACAAAAGCACT
GGTTACTGGTTTCTGCTGGGTCTACCTTGCTTCTGGGCACACCTCAAGCCTCCCTGCTTTCTGCAGTGCCCCA
CGCGGTTTTCCCTGCACTTGCTCCATAATTGGCTGATCATCTGTGGGCCCCGGGGCTGGATGTCAGGCCCTCATT
GCCCTGCTCAGTTTGGCTGCATTTGGCTGCGCTCTGGGGTCTGGTCTCTTTGTGCAAATGCTTTGGGATTCCAGT
TGTGAGCTGAGAGAGATGATGGCCTCTCTGGGCCTTCTCTCCTTTACTGAGAGCTCAGTGCTTCTGGGGTTG
AAGTTGGACAGAGCCTGCTTCAGGGAAGCTGGGAGTCCCCAGGCACTCACGCCTCTTACGTGTTCCCTACCCTG
CCACCCAGCCACCCCTGCTGGGCTGGGCTCGGGCTGAGGGGGTCAAGGTACACATGTGCTTGGAGTTGAAT
TTGTGGCTGTTTTTTTTTGTCCACGTTGGTCAACCTTATCCTTATCTGTCTGCACCCCAACATGGCCACC
CGGCAACAACCTGCCATCCAGCCTGTGCCCCGCCCTTCTGCGGGGAGCCCCGTGCGCACTGCGGCCAGTCCCTG
CTCTTCCACCTTTTCGGAGGCCAAGATCCTACTGTGGCCGGCCAGGGCCAGCGAGGGACCCCCCATGCAGAG
CTGGAGGTTGGGGTGATGCTTTTCGGAAGAGCTTCAAGGGAGGTGTTGGGGCTCCCCGGCCACCTTCCATTGC
TACCCAGGATTCCCGAGTGCAACGTTCCCGGCTCGCGCCCCACACACGGCTCAGCGCACACTGCGCGGCTTCCA
CCTTTACTGACGGAGCATGCGCGAGGCCGACCGGCCAATCTCCGGCGCCACGTCATCCGCGCGCCGCGGCC
TAGCAGTGGATCTCGTAGGCGACCGCGGGGGCACGCGGAGTCCCGCCCCGCCCCCTGTTCCGGGCGCGAGTCA
GCGGGCGCCTCCGCGGACCTCGGCGAAGAGCGGCTTGGAGCGGTTGATGACGAACATCTCGTGGCCGCGCTCG
TCGCGGAGCTCCTCTAGCTGTGCGAACGTACAGGGGCCGTCCAAGTAGTCTGTGACGAACAGCGCTCCCTCCCC
GGAGGCCCCCGCGCTTTTTTTCGCTGCGGCGCGCGGACAGATCATGGCGACCAGGAGCAGCGCGGTGAGCGCC
AGCAGCGCGATGGCCGCCCAATGGCCGTCTGTGTGCCACGCCAGGGCGCGGAAGGCCATGCTGCCCGCCTCG
GGCCGGGGCTCGCTGCCGGCGGGGCGGGCGGGGAGGCGGGCGGTTGCGCGGGCTGCTGCGGCTGCTGCCGGGAC
GCGTTGACCAGGAGCCGGAAGGGCACGCGGGCAGCGCCGCGCGGCTTGGAGGCTCGCACTCGTACTTACGGGCG
TGCGCCAGCGTGATGTTGCTGAGGAAGAGCATGCCGCTGCCGCTGCGGATGCCGAGTGTCCGCCAGGCCAGC
AACCCGCTTCTAGCTGGGCCTGGGCTCGCGGCCGCGCCCTCGCGAGGCTGGGGCACCTTCTCCAGGTACCAAT
GGCTGCGGGTAGCCGAGGCTTGGCAGGCAACCCGAGGTCTTACCCAGGTTGGCTGTGAGCTCCAGCGGCTGC
ACGTGGACAGAGGGCGGAATGCAGATGAGGCTGCTGTGGGATACGTCCAGGAGACTCTGGAGCGCCAGGCGCGG
GGCTCTGCACACATGATCTTCTGTCCCTGGAGGTGAGCAGCGCTGGCCGCCCTCCTTGATCCAGGCACCCAGC
CAGTGACGGGCGCAGTCACAGCGCCATGGGTTCTCTGTGGGAGAGCAGCGTTAGGCAGGTGGCTTGGGGTGTG

3515/5332
FIGURE 3070B

CTAAAAACAGCCTGTGCAGTTGGGGTTTTGCAGGCCAGGACAGAGGCCTCTTTCCACCTCCCACAGCGTTTTCAC
ACGGAGTCCAAGGCCCTGCCACCCCTTCCTTGACCCCAAGCTCCTTGGGGCGGCAGGCCCTTCACCCTCNGCCCC
CCTCCCCCTTTAGCTCTGTGATGCCTGCCTGTTACAGATCACTTCTCCGTCGGTCTCTGAGAAAGCACCTGCTCCT
TAAGTCTTCCTGCAACAAGTGCCACTGTTTTTAGGAACCTGGGCGTCCACATAGACATCTCACCAGCACTGAAAC
CTCACAAGTCCTCTCAGCCTTGCCCTTGGATGCCCTCTCTTGGGAATGTCCCAGTCCTGGTCAGCTGTCTCTCT
CCTTTGCAATTTTGTCTGCCTCCCCCTCAGCCTAAAAGTGTGCAGAACCCTCAATTCTGTTAAGTCACCCGTGGA
GTTCTGTCTTCTGTTTTCCCAGGCAGGGTGCCTGAGCTGTATTCCCAGCACACCCACTCCCGCAGCCCTCCA
GTGTGGCTGCAGGCGGTGGTGCAGCCTTCCAGACTGCTGCCAGTTGCCTGATGTCAGAGCCCTCCACACATGA
GCCTGCTCCCTACTGCCAACACCGTGGCCCAGACAGAGACGCTTTCCGAGGAAGAGGTACCTGTGAGGCGCAGGA
CTTGACAGACTGGCCAGGGGCTGCAGGGCCTCTCGGCTGATGGTGCCAGCTGGTTCTGTGAGGTCCAGCAGTG
CTAGGGAGGACAGCCCCGCTAGAGCCTGGTCTCCAGCAGCTCAATGCTGTTTTCTTGACAGGTGAAGCTCCTGCA
GTCGCTGAAGTAAGGACAGCAGATCGTGAGGAAAAAGGGCGCCGAGGTTGGGGGCATGTCTCTCTTCTTACCAAG
CTAGACTGGGTTGCCTTTTCTAACTATTCCAGCCCTACAGGGCGAGGGGCCATAATGGAGTATCCCGCCCTTTA
GACCCAGGCGCTCACCAGCAGGTGCAAGAAGGTGAAATCCAGCAGCCGCGCCAGCTGGTTGCCCGCCAGGTAGA
GCACGCGCAGCTGGGCCAGGCCTACGAAGGCGCCGCTGCGCAAGCCGCGCAGCCGTTGCTAGTGAGCGCCAGCT
CCAGCAGGCGCGGCTGCGCGCGGAAGGCGCCGGCCTCCAGGGCGCGCAGGCTGTTGTTGTGTCAGGTAGAGCCGGC
GCAGAGCGGCGAGTGGCGCCAGGGCTCCCGGCTCTAGGCGGGCGATGTTGTTGTCTGTCAGGAACAGTGTCTGCA
GGCCGGGAAAAGAGGAGGCGCTTACCCCGTTGCGGGGGTCTTCTCTCCCTGGGGGCACCCCGTCTCCCGCAGC
TCCACACGGTGCCACCTGCGTCCCTGGCGGGATTCCCAGCGGGACGACGCGCAACCGCAGGGCGCCACACTCCA
CCGTGGCGCTGTAGCAGCGGCAGGCTGCTGGGCAGCCGGCGGCGGAGCGGCAGTAGTAGCAGCAGCAGCGGCA
GCAGTGCAGGGGGCCCTCAGGGCCATCTCCCGAGGCCCGGTTCTCACCAGGCCCTCCGCGGTTACGCCGAGACG
CGTGCCCTCCTGAAACACAGGTTGGCAGGCCAGTCTCGGCAGTCGAGAGCCAGCCAATAGATGGAATGGAGGCCT
GCACCTGCGTCTAACTTTTGACGCTATAAATAGGTTCAAGAACTAATAAAACGTTCTGGTTTTCTCCTTTGAC

3516/5332
FIGURE 3071A

AGCCTGAGAAGCCAGGCCCGGCGAGCAAGGACCCCAAGGCCGACAGCGTGCGGGCCATCAGCGTGCGCACCCCTCT
ACCTGGTCAGCACCACCGTGGACAGGATGAGTACAGTCCTCTGGCCATACCTGCTCCAGTTCCCTCACCCCTGTGC
GCTTCACTGGGGCCCTGACTCCGCTCTGCAGGAGCCTCGTGCATCTGGCGCAGAAGAGGCAGGAGGCCGGGGCCG
ACGCCCTTCTCATCCAGTACGACGCCCATGCGAGCCTCCCGTCTCCCTATGCTGTAACCGGAAGACTGTTGGTTG
TGTCTTCCAGCCCTACCTAGGGGACGGACGTGGGGCAGCGGCGCTGCGCCTCCTCAGTGTTCTGCACCCAAACA
TTCACCCCTTGTGGGTGAGCATTGGGAAACGACTGTCCCGCTGCTGCTGGGGTACCTGGATGAGCACACAGAAG
AGACCCTGCCACAGGAGGAGTGGGAGGAGAAGCTGTTGATGTTCTGCGAGACACCCTGGCCATCATTCTGACA
ACGCGTGGATCTGCCAGCTGAGCCTGGAGCTGTGCAGGCAGCTGCCCTGCTACGATGAGGCACCCAGGAGAAGA
ACTTCTGTACAAATGCATAGGCACCACCCTGGGTGCTGCTTCAAGTAAGGAGGTGGTGAGGAAGCACCTTCAAG
AGCTCTGGAGACGGCCAGATACCAGGAGGAGGAGACGCGAGGGCCTCGCCTGCTGCTTCGGGATCTGTGCCA
TCTCCACCTCGAGGACACGCTGGCCAGCTGGAGGACTTCGTGAGGTGAGAGGTCTTCAGAAATCCATTGGCA
TTCTCAACATTTTTAAGGATCGAAGTGAGAACGAGTGGAGAAGGTGAAGAGTGCTCTGATCCTGTGCTATGGGC
ACGTGGCGGGCCCGGGCCCCCGGGAGCTGGTGCTGGCCAAGGTAGAGTCAGACATCCTCCGGAACATCTGCCAGC
ACTTCAGCACCAAGGACCCAGCCCTGAAGCTGTGCCTTGTCCAGAGTGTGTGCATGGTCAGCCGCGCCATCTGCA
GCAGCACCCAGGCTGGCTCCTTCCACTTACCCGAAAGCAGAGCTGGTGGCACAGATGATGGAGTTCATCAGGG
CAGAGCCCCTGGACTCCTTGAGGACACCTATTCCGAAAGAAAGCCATGCTCACCTGCACTTACTTGGTCTCCGTGG
AGCCAGCGCTGGACGAGCAGGCCCGGGCGGATGTGATCCATGGCTGCCCTGCACAGCATCATGGCCCTGCTGCCTG
AGCCCAAGGAGGAGGACGGAGGCTGCCAGAAGTCCCTGTATCTGGAGACACTGCACGCCCTTGAGGATCTGCTGA
CGAGCCTCCTGCAGCGGAACATGACCCCCCAAGGCCTGCAGATCATGATTGAGCACCTGAGCCCATGGATCAAGT
CCCCAAGAGGTACGAGCGGGCGCGGGCCCTGGGCCTGAGCGCCCTCCTGCTGCGCTACTTCTTGAGCACCTGC
GTGTGACGCGCCTGGTGCCCTTCCACAACCTGGGCCTTCTCATCGGCCTTCTCTCCACGGTGTGCGGACCTGT
GGCCTGCCACCCGCCAGGAGGCCGTGGACTGTGTCTACTCCCTGCTGTACCTCCAGCTCGGCTATGAGGGCTTCT
CCCGGGACTACCGCATGACGTGGCGGAGCGGCTCCTCAGCCTCAAGGACGGCCTCGTGCACCCCTGACCCCGCCA
TTCTCTTCCACACCTGCCACAGTGTAGGCCAGATTATTGCCAAGCGCCTCCCCCAGACCAGCTCATCAGCCTCT
TGCTAACCATGTTTGAGGCCCTGGGAGACCCGAAAGAACTGCTCCCGAGCAGCTACCGTTCATGATCAACTGCC
TGCTGCAGGAGCGGGCGGTGTGCTCCAGGAGAAGGTGCCCGAGATCGTGAGCGTCTGCGCTCCAAGCTTCAGG
AGGCCCAGGAGAGCACGTCCTGCCGGCCGCCAGCACAGCGTGTACCTCCTGGCCACCAGCACTGCGCAGCCG
TGGTGTCAGCCTCCTGGGACGCCCTTGCCCTTGGACAGGTACCCAGCTCAGACTCCAGGCTTAGGGGTCCCTC
TGGAATGATGCTCCCCCTGGAATGATGCTCCCCGAGCCCTCCACCCGGCTCTGCACCCGACTTCTGTCATGAGT
TCCCATGGCTGTAGGCCACGTGGGACAGAAAGTGACATGGAGCCAGGCCCCAGTCTCTCAGGTACCCAGGGGAC
CTCTCTCTCCAGGCGTTTTTGGGATCCTCACTGGCTCCGGTGGGCCCTGCACAGCACCCCCACAGGGAAGCTGCT
GTTTCTGCCTTCTCTAAGGTCCCAAACTGCCTGGCTGCTCTGTTGGCCCCAGGCTCCAGCACACACTGGAGGC
TGCCCCCTACCCCTGTGTCTTGGTTCCGGCTACTCCAAGCCTTGTCTCTGCAGGGCATCCACTGCTGCCTGTGAG
CAGACCCCTGGGAAGTGCCTGATCTGAGCCCCCTCAGGAGCCCAAGGACAACCTTGTCTGTACCATACTACTA
TGTCTTCCCAAGCTCACACCTCCCAGCTCCCAGCAAAGGGCAGGGCGTGTCTACCACCCACCAGCCCACTGGGGT
CCCCCTTCTCGCCGAGGCTCCGGAGCATGGGTCTGCTGGCCCTTCTTTTCCATCTTAGTCATGGACAG
AGGCTGGCCAGGGGACCTGGCTTCTGTGACCTCCGGGAGACTCCATGCTGGGCAAGGCAGAGTGACCCCTCC
CCTGGCAGGCGGGGATGAGGCTGCCACGGGGAACACAGGTTTCTTGACCTGGCCCTTACCCTGTGACGTT
TGCTGTTTTTATGTGCTCTGACGCCCTCCCAATAGGTGCATCCAAGCTGCAATGCCCACTTCTCTGTCAGGGG
GGACCCGACGGCACCTTCTGCTCAGAGGTGCACTTGTCTGGTGGCCCTGCTCCTTCTGTTACTGTTGACCTTTC
TGTGTGTTTGTTTTAAATCTCTTGATGGTAAATAGCTGCATTTTGTACTGATAAGAGTGAGTTTAAATCCACT
GTCATATCTTTTGGCTCTTTGTTACACATTTTGTTTTTTAAATCTTCTTTCTTGTCTTTTTTAGATTGACAG
TGTCCCTCTTACCTCACTTCTCCACTCAGTTTGTAACTCTGCAGTCTGTTGCTTTTCTTTTAGCGTTTGCCCTA
AAGGTGGCTGCATGTGCTCTCACTGAAGTCCAGCATGGGCCCCAAATGCAGGCTGAGGTCTGGGTCTGGCTGGGC
TGCTGGGCGCCGAGTCATCATGACCATTTGTTCTGGGCACAGCCGGCGTTGACTTGTATTTCCTCCGTGATTAC
CGCCTGGCTCATCAATCACTGTTTTGTTTTCCGTGGAGCGTGGCTCACACAAAGGGCAAGCACGGAGTCACTG
GGTCTGCAGGACTTTCCAGGTCAAGGCAGAGGAGTGTCCGGTCCCAGCAGGCTCCTGTGTGCCCTCAGTCC
CCTAGAGGGTCACGGCCACCTGACCGCCACCCTAGAGGTTTTGGCGATTGTGCTGTGTGGTGGGTCTTCCCGG

3517/5332
FIGURE 3071B

CTCTGCTTAGCACAGCAGTGCTGCTGCCCCATCCTTCCTCCTTGCCAGGTAGTGCCGGGTGCTGCTGCCCCATCCTT
CCTCTGCCGGGCAGTGCCGGGTGCTGCTGCCCCATCCTTTCTCCTTGCCGGGTAGTGCCGGGTGCTGCTGCCCCATC
CTTTCTCCTTGCCGGACAGTGCTGGGTGCCGTGTGGGCTGCACTGTGTGTGTGTTTCTAGGTGATGGACATTCAG
ATTGTTTTTTGGTTTTGGGGCTGCTGGGGATGGCGATGCTTTGAATGTTTCTGGGAGTGCTGTGTTGGTGGGTAGAG
CATGCATTTCTCTTTTCGTGTGTATATAGGAGTGGAATCAAGGCCGGGCACTGTGGCTCATACCTGTAATCCCAGC
AGTGTGGGAGGCTGAGGCAGGAGGATTACCTGAGGTCAGAAGTTTGCACCAGCCTGGCCAACATGGCAAAACCC
CGTCTCTACTGAAAAATATAAAATTGGCCAGGCATGGCCAGGCGCAGTGGCTCACCCCTGTAATCCCAGCACTTT
GGGAGGCTGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTAAAACCCCGTCTCT
ACTAAAAATATAAAAAATTAGCCAGGCGAGGTGGCAGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGG
AGAATGGTGTGAACCCAGGAGGCGAGCTTGCAGTGAGTTGAGATTGCACCACTGCACTCCAGCCTGGGCGACAG
AGCAAGAACTCTGTCTC

3518/5332
FIGURE 3072

CTCCTGCGCACGCGGCCCGGTGCTGTCGGAAGCGGCTGTGCGGGTGGCGGCCGCGCGGGTGGGGCATGCGGG
GTTTCGCGGGGTGCGGGGCGCACGCGCGCGCCGAGCGTGCGGCCGGAGAAGCGGCGGTCTGAGCCCCAACTGGAGC
CTGAGCCCGAGCCGGAGCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCT
CCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCG
ACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGATTAAGAAAGACCACTGAGGAGCAGGTGC
AGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGAGCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTG
ATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCCCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACG
ACCTGGATGGCAGGCGCATCTACAAGCCCCTGCGGACCCGGGATGAGCTGGACCAGTTCCCTGGACAAGATGGACG
ATCCTGACTACTGGCGCACCGTGCAGGACCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCC
TGGTGGCGGGCTGCAGAGTGGCCAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTGCACTTCTTCA
GCGGGGACGTCATGATCCACCCGGTGACCAACCGCCCGGCCACAAGCGCAGCTTCATCCCTCCCTGGTGGAGA
AGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCC
CCAGCTTCTATGACCTGTGGGCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTC
CCAAGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCT
TGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGCTGAGCTTTTGGCACGCAAGTTCGCGAGCCTGCGGGCCG
TGCCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCCTGACCTGTACCTGTGCCACGGCAGCGCA
AGATGAGGGTGAATGTAGACCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCA
CGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGTGTCTCTCCTGGGGGCCAGTGGC
TGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCG
TGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACT
CGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCGGCTGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCG
TCCCGCCTGAGGAGCCCCCTTGACGCCGGCCCGCTGGCTGGAGGCCCTCAGAGGAGGAGCGCCAAGTGGGCCTGC
GGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGGTGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGC
TGGCCACCCAAGGCCACACCCAGGTGCTGATTACACAGCTGAGCCGTCGCCGAGCCAGAGTCCGTTCGCCCGCA
GCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTGGTGGCGTCCAGCGCAGCGTCC
GCCTCTACCACCTGCTGCGCCAGGAGCTACCAAGAAGCTGATGCCAACTGCAAGTGGGTGTCCAGCCTGGCGG
TGCACCTGCAGGTGACAACGTCATCTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCA
CCAAGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCT
TTGCGTCAGGCTCGGACGACGGCAGTGTCTCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCCT
TGCTGGTGGCCGTCAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGACGTCATCTTCCACC
CCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACGGGACTGTCCGCCTCTTCACTAGCTGTTCTGCCTGCCTG
GGGCTGGGGTGGTGTGCTGAAGTCAACAGAGCCTTTACCCTGTGCTGCCTGGTGTCTCCACCTTCTTGAATTGG
GGTTGCCAACAAAGCCGCCCCCACCACA

3519/5332
FIGURE 3073

GCCCGTTGCAAGATGGCGGCGGCCATGCTGGGCCCCGGGGCTGTGTGTGCGCAGCGGGCGGCGGCGGCGGCCCCGGA
AGGCTGGCGCGGCGACGGCGTTAGCCCGGCCCTCGGCCCTCTTTGCGGCGCTCCCTCCGCCTATTCCCTCCTT
GCTCGAGATGGATCTGCCCCGTTGGGCCCCGGCGGGCGGGGCCAGCAACGTCCCGGCTTCCCTGACCAAGCTGTG
GACCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCCCGAGCGGGAACAGCTTCCACGTGTTTGA
CCAGGGCCAGTTTGCCAAGGAGGTGCTGCCAAGTACTTCAAGCACAAACATGGCCAGCTTCGTGCGGCAGCT
CAACATGTATGGCTTCCGGAAAGTGGTCCACATCGAGCAGGGCGGCTGGTCAAGCCAGAGAGAGACGACACGGA
GTTCCAGCACCCATGCTTCCTGCGTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAGGAAAGTGACCAGTGTGTC
CACCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTGCTGACGGACGTGCAGCTGATGAA
GGGGAAGCAGGAGTGATGGAAGTCCAAGCTCCTGGCCATGAAGCATGAGAATGAGGCTCTGTGGCGGAGGTGGC
CAGCCTTCGGCAGAAGCATGCCCAGCAACAGAAAGTCGTCAACAAGCTCATTCAGTTCCTGATCTCACTGGTGCA
GTCAAACCGGATCCTGGGGGTGAAGAGAAAGATCCCCCTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCC
CAAGTATAGCCGGCAGTTCTCCCTGGAGCACGTCCACGGCTCGGGCCCCCTACTCGGCCCCCTCCCCAGCCTACAG
CAGCTCCAGCCTCTACGCCCCCTGATGCTGTGGCCAGCTCTGGACCCATCATCTCCGACATCACCGAGCTGGCTCC
TGCCAGCCCCATGGCCTCCCCCGGCGGGAGCATAGACGAGAGGCCCCCTATCCAGCAGCCCCCTGGTGCGTGTCAA
GGAGGAGCCCCCAGCCCCGCTCAGAGCCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCCATCTTCCGTGGACAC
CCTCTTGTCGCCGACCGCCCTCATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCCTCCGTACAGCCCT
CACGGACGCCAGGGGCCACACGGACACCGAGGGCCGGCTTCCTTCCCCCGCCACCTCCACCCATGAAAAGTG
CTTCAGGGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACTTGGATGCTATGGAAGTCCAACCTGGATAACCT
GCAGACCATGCTGAGCAGCCACGGCTTCAGCGTGGACACCAAGTGCCTGCTGGACCTGTTAGCCCCCTCGGTGAC
CGTGCCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGTCTCCCCAGGAGCC
CCCCAGGCCTCCCGAGGCAGAGAACAGCAGCCCGGATTAGGGAAGCAGCTGGTGCACTACACAGCGCAGCCGCT
GTTCTCTGCTGGACCCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTGCTGTTTGAGCTGGGAGAGGGCTC
CTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCCTGCTGACAGGCTCGGAGCCTCCCCAAGC
CAAGGACCCCACTGTCTCTTAGAGGGCCCCGGAGGAGCTGGGCCAGCCGCCACCCCCACCCCCAGTGCAGGGCTG
GTCTTGGGGAGGCAGGGCAGCCTCGCGGTCTTGGGCACTGGTGGGTGGGCCGCCATAGCCCCAGTAGGACAAACG
GGCTCGGGTCTGGGCAGCACCTCTGGTCAGGAGGGTCACCTGGCCTGCCAGTCTGCCTTCCCCAACCCGCTGT
CCTGTGGTTTGGTTGGGGCTTCACAGCCACACCTGGACTGACCCTGCAGGTTGTTTCATAGTCAGAATTGTATTTT
GGATTTTACACAACCTGTCCCGTTCCCCGCTCCACAGAGATACACAGATATATACACAGTGGATGGACGGACA
AGACAGGCAGAGATCTATAACAGACAGGCTCT

3520/5332
FIGURE 3074

GTCCCTGGGCCGGACGGCGGTGTCCCGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGGGCGCGGGAC
CGGGAGGCGCAGGGACCGGACGGCTCCCGAGTCGCCCACCTGACGCTAGAAGAAGTCTTCACTTCCCAGGAGAGC
CAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCCCAGCCTTGG
GCTGAATGGCAGCACCCACGCCCCCGCTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGCATGGGCTCCT
GGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGAGCCTCCCCT
CTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCCTCTGGAGGAGGCTGGCCCCAG
GAAAGGACGAGCAGGTCCCCATCCGGGTGGTGAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGGCCTCTCTGT
GGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTGCTGGCACTGG
CATGCTGTGCCTCGAATGTCACTTTCCTGCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGTCATTCTTCC
TGGGTCAAGGCCTGAGTGCCCTGCTGCCCTGCGTGCTGGCCCTAGTGCAGGGTGTGGGCCGCTCGAGTGCCCGC
CAGCCCCCATCAACGGCACCCCTGGCCCCCGCTGGACTTCCTTGAGCGTTTTCCCGCCAGCACCTTCTTCTGGG
CACTGACTGCCCTTCTGGTCGCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTG
TACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAGAGTCCTCAC
CACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCAACCCCTGGTCCAGACCCCTAAGGCCTATCAGCTTCTATCAG
CCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGA
GCTTTTCCTGCTTACCCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGG
CCTGCTTCCCTGGCCATGGGTGTGCTGTGCAGGTCTTGGCAGGGCTGGGCGGCTCTCTCTGCTGGGCGTGTCT
GTGGGGGCTACCTGATGGCGCTGGCAGTCCTGAGCCCCCTGCCCGCCCTGGTGGGCACCTCGGCGGGGTGGTCC
TCGTGGTGCTGTGCTGGGTGCTGTGTCTTGGCGTGTCTCCTACGTGAAGGTGGCAGCCAGCTCCCTGCTGCATG
GCGGGGGCCGCGCGCATTGCTGGCAGCCGGCTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTGTTGCTATGT
TCCCCCGACCAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCCTGAGCCTGGG
CAGGTGGGGACCCCGCTCCCCAACACCTGTCTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTGCAGCCCAGG
AGGCCCCGACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTTCCAGGGTGGGCAAGGG
CAAGGAGCAGGCTTGGAGCCAGGACAGTGGGGGCTGTAGGGTAAGCCCTGAGCCTGGGACCTACATGTGGTT
TGCGTAATAAAACATTTGTATTT

3521/5332
FIGURE 3075

GCTTCCCCGAGCGCCGTCGGTGGTCATGGCTGCCCCAGCCTCCCGGCAGGTCCGACGCAGAGCCCGGGCAGCGCC
GCGGCCCCGCTCGGCCGAGGATTGGTGGTGGGACCGGCTGGCGCCGAGGGGCTCGGGGTACCACCTGCTGCAGTC
CGACAGCATGCTGCTGGTGTCTCCGAACCAGGCCCCGCCCGGCCCGCGCACAGCGGCGCGATTCCCGCCGCAC
TCCCCGGCAGCCGCCCGGGGGCCCCAGCGCCGCGGCCAAGCCCAAGGCCGGGCTCAGGTCCGAGGCGGCGGCCG
GCCCCGACCCGACCGGCACCCACGCCCACGCCGAGGAAGGGCCCGACGCGGGCTGGGGAGACCGCATTCCCTT
GGAATCCTGGTGCAGATTTTCGGGTGTTGGTGGCGGGCGGACGGCCCCATGCCCTTCCTGGGCAGGGCTGCGCG
CGTGTGCCGCCGCTGGCAGGAGGCCGCTTCCCAACCCGCGCTCTGGCACACCGTGACCCTGTCTCGTCCCCGCTGGT
CGGCCGGCCTGCCAAGGGCGGGGTCAAGGCGGAGAAGAAGCTCCTTGCTTCCCTGGAGTGGCTTATGCCCAATCG
GTTTTACAGCTCCAGAGGCTGACCCTCATCCACTGGAAGTCTCAGCTGGTAGGTGAGTGCTGTCTCGGCTCAC
TTTCTCAAGCTCTCCGGCTGCCACGGTGTGACTGTGACGCTCTGGTCATGCTAGCCAAAGCCTGCTGCCAGCT
CCATAGCCTGGACCTACAGCACTCCATGGTGGAGTCCACAGCTGTGGTGAGCTTCTTGGAGGAGGCAGGGTCCCG
AATGCGCAAGTTGTGGCTGACCTACAGCTCCCAGACGACAGCCATCCTGGGCGCACTGCTGGGCAGCTGCTGCCC
CCAGCTCCAGGTCCTGGAGGTGAGCACCGGCATCAACCGTAATAGCATTCCCCTTCAGCTGCCTGTGAGGGCTCT
GCAGAAAGCTGCCCTCAGCTCCAGGTGCTGCGGCTGTTGAACCTGATGTGGCTGCCCCAAGCCTCCGGGACGAGG
GGTGGCTCCCGGACCAGGCTTCCCTAGCCTAGAGGAGCTCTGCCTGGCGAGCTCAACCTGCAACTTTGTGAGCAA
CGAGGTCTGGGCCGCTACTCCACGGCTCTCCCAACCTGCGCTTACTGGATCTTCGTGGCTGTGCGCGCATCAC
GCCGGCTGGCCTTCAGGATCTGCCATGTGGGAGCTGGAGCAGCTTCATCTGGGCCTGTATGGCACGTCAGACCG
GCTGACTCTAGCCAAGGAGGGCAGCCCCTTTTTGACCCAGAAGTGGTGCCATACACTGCGAGAAGTGGACTTGAG
TGGCCAGGGGTTCAAGTGAAGGACCTGGAGCAGGCCCTGGCTGCCTTCTTAAGCACCCCTGGGGGCTCACACCC
AGCCCTGTGCTCTCTTAACCTCAGGGGCACCCGGGTACACCAAGCACTGTCAGCTCTGTGATCAGCAGCTGCC
GGGCCTGCTTTACCTCAACCTGGAGTCTGCGCGTGCCTTCCCCGGGGTTTGAAGCGGGCCTACCGGGGCTGGA
GGAAGTCCAGTGGTGTCTGGAGCAGGTGCTCACCAGCCCCCTCACCAGCTAGGCAGCCACAGACCTGGGACACCT
CAGCCAGCTTGCCACCCCTCCACCTTTGCCCAATTTAGATATTTGAGCATTTTGTAAAAATAAACATTTTTAG
G

3522/5332
FIGURE 3076

GAAGCTCTGGGAAGGGGATGCCCCGAGGGTGCCAGTCCAGCTAGCTGCCCCACCCCTCAGGCCCAGCCTGGCCC
CCAAGCTCCCCACTCTGGTGCCCCGAGCAGCCCTGTGGGCAAGCAGCCGCCGCCATGGCCGAGCACCTGGAGCTG
CTGGCAGAGATGCCCATGGTGGGCAGGATGAGCACACAGGAGCGGCTGAAGCATGCCAGAAGCGGCGCGCCAG
CAGGTGAAGATGTGGGCCCAGGCTGAGAAGGAGGCCCAGGGCAAGAAGGGTCCTGGGGAGCGTCCCCGGAAGGAG
GCAGCCAGCCAAGGGCTCCTGAAGCAGGTCTCTTCCCTCCCAGTGTGTCTTCTGGAGGCCGCTGCCCGAAAT
GACCTGGAAGAAGTCCGCCAGTTCTTGGGAGTGGGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCC
CTGCACCAAGTGTGATTGATGATTTCCGAGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCC
TGTGACAGTGAAGTGTGGACGCCTCTGCATGCTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGCTGCTCATC
GCCAGTGGCGCCAATCTCCTGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACG
CTGGACTGCCCTGGAGACTGCCATGGCCGACCGTGGCATCACCCAGGACAGCATCGAGGCCGCCCGGGCCGTGCCA
GAACTGCGCATGCTGGACGACATCCGGAGCCGGCTGCAGGCCGGGGCAGACCTCCATGCCCCCTGGACCACGGG
GCCACGCTGCTGCACGTGCGAGCCGCCAACGGTTTCAGCGAGGCGGCTGCCCTGCTGCTGGAAACACCGAGCCAGC
CTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCCTACTGGGGCCAGGTGCCCTGGTGGAG
CTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAGAGGTGCGGGCCAAGCTTCTGGAACTGAAACACAAGCAGC
ACGCCCTCCTGCGCGCCAGAGCCGCCAGCGCTCCTTGCTGCGCCGCCGACCTCCAGCGCCGCGAGCCGCGGGA
AGGTGGTGAGGCGGGTGAGCCTAACCCAGCGCACCGACCTGTACCGCAAGCAGCACGCCCCAGGAGGCCATCGTGT
GGCAACAGCCGCCGCCACAGCCCGGAGCCGCCGAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGGC
CGCCGCCCGGAGGAGGACAACCCGAAGTGGTCAGGCCGCAATGGCCGAGTAGGGGGCTCCCCAGTGCGGC
ATCTATACTCCAAGCGACTAGACCGAGTGTCTCCTACCAGCTGAGCCCCCTGGACAGCACACCCCCACACCC
TGGTCCACGACAAGGCCCACCACACCTGGCTGACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCC
CACCTGAGGGGCCCAGAGCCCTGAGACAGCTGAGCCTGGCCTGCCTGGTGACACGGTGACCCCCAGCCTGACT
GTGGCTTCAGGGCAGGCGGGGACCCACCCCTGCTCAAGCTCACAGCCCCGGCGGTGGAGGCTCCCGTGGAGAGGA
GGCCGTGCTGCCTGCTCATGTGAGGCTGTTGCTCAGCATGCAGGGGCCCTGTCTCGGGCACAGCCCAAGGCTGCC
TCCCCACGGTGCCTGCCCTGGTGTGCTGCGGGTGACGACGGAACCCCGGCTTCTACTGTACAGGACACTGGCCCC
TCTCAGGTGAGAAGACATGCCTGGAGGGATGTCTGGCTGCAAAGACTATTTTTATCCTGCAACTCTTGATAAAGG
GCTGTTTTGCCATGG

3523/5332
FIGURE 3077

GGGCCACACAGCGGACCCCTAAGCGGACCGCTGGCACC GGTCGGGTGGCAGCAGAGTGTGCTCGACATGGGGGA
GGCCGGGGCTGGCGCTGGCGCCTCGGGAGGGCCGGAGGCAAGCCCGGAGGCAGAGGTGGTGAAGCTGCTGCCCTT
CCTGGGCGCCGGGCGCGCGGGCGGACCTGCAGGCGGCGGGCGGTGCGGCACGTGCTGGCGCTGACTGGCTGCGGAC
CCGGCCGCGCGCTGTTGGCGGGGACAGGCGGCGCTGCTGCAGGCGCTGATGGAGCTGGCGCCGGCCTCTGCCCCG
CCGGGACGCCGCCCGCGCGCTCGTGAACCTGGCCGCGGACCCCGCCTGCACGAGACATTGCTGGCGGGCCGACC
CCGGGCTGCCAGCGCGCCTGATGGGCCGCGCTTGGACCCGAGTGGCCCTGGGCGGAGGAGGCGGCCGCGCGC
TAGCCAACCTCAGTCGCGAGCCGGCGCGCTGTGCAGCGCTCATGGCGGCGCTGGCGGCCGCGGAGCCGGCAGACT
CGGGCCTGGAGCGGCTGGTGC GCGCGCTGTGCAGCGCCGGCTACAACGCGCGCGCGCCCTGCACTACCTAGCGC
CGCTGCTCTCCAACCTCAGCCAACGCCCTGCGGCGCGGGCCTTCTACTGGACCCGACAGGTGCGTGGTCCAGC
GGCTGCTGCCCTTACCCAGTACCCGACTCCTCTGTACGCAGGGGCGGGGTGGTGGGACGCTGCGGAATTGCT
GCTTCGAGCACCAGCATCACGAGTGGTTGCTTGGACCTGAGGTGGACATTCTCCCCTTTTGTCTCTGCCCTTG
CTGGGCTGAGGATTTCTCCGAGGAAGAGATGCAACGGCTGCCGTGCGACTTGCGACTTGCGAGTACCTGCCACCAGACAAGC
AGCGAGAACCTGATGCAGACATCCGCAAGATGCTTGTGAAGCATCATGCTGCTGACAGCCACAGCACCAGGTG
GGAGCAGGTGCGGGACAGGGAGCCTACCTGATCCTTCGAGAGCTGCACAGCTGGGAGCCGGAGCCCGACGTGC
GGACGGCTTGTGAGAAGCTCATCCAGGTGCTTATTGGGGACGAGCCTGAACGTGGCATGGAAAACTGCTGGAGG
TGCAGGTGCTGAGGATGTGGAGCAGCAGCTGCAGCAGCTGGATTGCAGGGAGCAGGAGCAGTTGGAGCGGGAGC
TGGCCCCAGAGCCATGGGTGGAGAGGGCCACACCCACCTGAGGCCCCCTGCAGCCGGACACCAGCTCCAGGGTCCC
CTTTGCCAGGCTTTCTCAGACCAGGCCTTCTGCAGCTGTCTGCAGGCCCCCTGGGTCCCCTTGTTCAGAGACTG
TGCTCTTCTGAGAAGCAGAGCTACGCTTAGGCTCCAGTAAGGATTGGAGGCACCTTCCAGCCCTGTGCAGTGTG
CTACCAGCAAGAATGAAGGTTGTGCAGAGCAGTACTGTGAGGTAGGCACCGTGA CTGCGCTGCCTGTGCAGAAGG
TGGAGGTGGCAGGCGGATGGCCAGGGAGCCATGAGAAGACTCTTCTGGGCACGGCGTGGGGACTGGACAGAAAA
CCACTGCAAGCCCCAAGGAGCCAGCTGAAGCCTCCCAATCCCAGGGCACTGCAGAGTCTGGGCAGAGGTGGGCG
CATAGGTACAAGTGTCTGCTTTGTGAGCCTCACTCCCTGCAGCTCTCAGCTCCCTGTTCCCTGAGACCTGGCCTCA
AAGGGCTGACCCAGCCATACGTAGATCCTGGGGTCTTTCTAGGACTGTGCCTCCCTGCTTGACCTATGCTCCAGG
ACCCTGCCCTCAACCTTGTGAGCTCCCTAAGTCTTCTGTTTCCAGTCTCAGATTGAGTGGGTGCTCTCATTG
GCCTCTCTAGCTAGGCCGTCTCCCTGGTCAGCTTCCTTGAGCCTGGGCCACTCCTCCCTGGCCTTCTTACCTCTG
CCAAGAGCCTCCAGATGTGCCTGCAGCCTAGTCCCTGCCAAGCTTCTCCCCAGCCACCCCTTGCCCCCTGTGGT
AGAGCCCACTATAGGCCCAGGCGCCTTACGTGCTTCTCCCTGGACCTATGTGCATCCCTACCTGCCAGTTATG
TGGCTGCCAAGCCCCACAGGCTGTCTGTTGGCTCTTGCCACACTTCCCTTCTGAGCTGACCTGACCTCACTGC
CACCTCTTGCAATTGGGATCCTGAGGGCTGGCCCCCTGCTCACTGATGGGCCCTCCAGGCCGTC AAGCCCTGGTG
AAGGAGCTTAGCTTGTCTTCTTGGCAATTCACAATGCCTCACTCCACACCCCTAAACTGGAGCGTCCCCTATGGT
CTCCTGCTGTGGCTTGGGTGCCGGGCGTCTCCCGCCTCCAGGATCTCCTCTCACCTGCCCCCATTAAGCTCTGC
CACTCATGCAGGCATGTGTGGACCATGTTTTCCCTGGCCAGAGCCCCACCTGCCACTGGAGGCCAGTTGCCCT
CTTAGCACTCAGACATCAGCACTGTCTTCACAGAATAAATGCTTTATCTGGCCTTG

3524/5332
FIGURE 3078

GGCGCCGAGTCTGGGCGCGGGGACGCGGGGCGGCGGAAGCGGGGCCCTCTGCCGCCCCGCGCTCCCATGTACGC
CTTTTACTCGTTGCTCATCTACATCTTCTACAGCCTCTTCCGCAGGGATGGTGGCGCCGCGCGGGCCGCGGAGCC
CGGGGACCCCGCCAGAGAGCCCGCAAGCCCGGGGTCGCCGCGCCAGACCTGCCCGCGCCAGAGCTGTGGAC
CGAGCTGACCGGCTTGGCCGCCAGCTCCGAGCCTGAGGATGGGTGCGAAGGCGCAGCCGAGGGTCGCGCGGGCCG
GGTGTCCCTGGAAGAGGCCCTACTGCGCCTCGCCGAGTTCTCTCCGTCCAGCTGGGGGCGGAAGAGAGCTGCGG
GGGCCCCGCGGACCTGGGCCAGTCTGGCGAGGTCCCCCTACTGTTGACAGTGACCAGTCAGCTCTTGGCCCTTCT
GGCATGGCTTCGAAGCCCCAGGGGGAGGCAGGCCCTGCTCCAGGGGACTCAGCCAGCCCCCTCGGGTCCGGCCCCC
CTCTCCAGATGGATCCACATCCCAAGAAGAAAGCCCTTCCACTTCACCGCAGTCCAGGCGAGCCACTGGGGGA
TGAGACCCAGGGACAGCAGCCCCCTCCAGTTGGAGGAGGATCAGAGGGCGTGGCAGCGGCTGGAGCAGCTCATCCT
GGGACAGGAGGAGCTGAAGCAGCAGCTGGAACAGCAGGAGGAGGAGTTGGGTGCACTGCGCCTGGGCGTGGGCGA
CGGACTCAGAGAAAAGGGTTACGATCTGACTCTGGAGAACGAGGCCCTGAAGCAGAGCCTGAGTCTCATGCGGG
ACCTCTGTCTGCACTGGGGCCCCGGGCCCCCATCAGGGCTCCGCGAGGAGGCGGAGGCATTGCTAGAGCTCC
AGGGCCGGCTTCAGGAGGCCCAAGACACCACAGAAGCCCTCCGAGCCAGCTGGGGGTGCAGGAGGTGCAGCTGC
AGGGCCCTTCAAGGGGCCCTCCAGCAGCTCCAGCAGGAGACGAGCAGAACTGCAGGCGTGAGCTACAGCAGATGC
ATGGGCAGCTGGCAGGACTTCGGGCACGGATGGCCAGCCTGCGTCAGGGCTGCGGGGACCTCCGAGGTTTGGTCA
GCACCTTTACCCAGAGCTGTGAGGGTTGCTGAGTGAGGCCCGGGGCCAGGTGTCTGGGCCCTGGGGGCACTGT
CATCTGGAGGGCTTGGCACTCAGCTCCCTGAGGGGCGAGCAAGGGCCCCCAGCCGGATGCCAGGGCGGCTGCCAG
AACTCAAGGGAAATATCCGTGTGCTGTGTCGGCTGAGGCCAGGGACATCTTCTAGCCTTGTGAGTGTGGAGCCTG
GCCCAGGGGGCACCGTCACACCTGCTACCGGGGGCGCCATCGTCGATTCCGCTTAGACTGGGTCTTCCCTCCAG
ACGCCAGCCAGGAGGAGGTCTTCAGAGAGCTGGAACCTGCGGTGCTGTCTGCTCCGAGGCTACAGCGTCTGCA
TCTTACCTATGGCCAGACAGGCACCGGGAAGACCTACAGCATGGAGGGCCCTCCTGAGGACCCCGCATAGTTC
CTAGGGCGCTGCAGTCGCTGTTCCGGGAGATGGGGGCCGGCCGGCAGCACCGGGTGACACTCAGCATGGTGGAGA
TCTACAATGAGGCTGTGAGGGACCTCCTTGCTCCAGGGCCTCCCGAGCGCCTGGCCGTGAGGCAGGGCCAGAA
GCCAGGGCGGGATCCAGGTGGCTGGCCTCACCCACTGGGACGTGCCCAACCTGGAGACATTGCACCAGATGCTGA
AACTGGGGAGGAGCAACCGGGCCACCGCCGCCACCGCCATGAACCAGCGCAGCTCCCGCTCGCATGCCCTGGTCA
CGCTGACGCTGCGCGCGCGCTTCCACCGCGCGCTCCAGGCACCGCAGGCACGCTGCACCTGGTGGACCTGGCGG
GATCCGAACGCGCACGGAAGGCAGGGGCGGTGCGCCCCCGCGGAGAGACCCAGACGGCGCCCGGCGCTGCGGG
AGGCCCAGACCATAAACCGCTCGCTGCTGGCGCTAGGAGGCGTGATGGCCGCACTGCGGGCCACCGGCCGCGACG
TGCCCTTCCGCGACTCGCAGCTCACGCGACTGCTGCAGCCGCGCTGGGCCAGGCACCAACCGCGGTGCTGCTGC
TTGCCCCGAGATCTCCACGCGGCCGAGGATCTCGGGGAGACAGTCTGCTCCCTCAAGTTCGCCGACCGAGTGGG
TCAAGTGGAGCTGGGGCCAGCCCCGGCGCGCAGGGTCCCGCGCTCCTCCGGGACGCCTTCTTCCCTCAGCACCGA
CACTCCGCTCACCGGGACCCCTGCACCCCTACGCCGTCCCTGGCAGTCTCCATGCCCCAGTCCCGACAACGG
CTCGGGCTCGGCTCTCGCGCCCGCAGAGGGCCTGCCCCCTAGTCTTGGGTGCGGGCCCTGCCCCATGGGGTCTCA
GGCCAGGTCTCTGCTGGCAGAGGCGGTAGTAAAGTCCCTGTACCCCGTCTCCAGGGCACAAGCTCCCTAGCCTC
TTTGGATCCATTGCCCTGAGCTCCAGAGTCACCCCTCCACCTCCGCAGCCAGTGAAGTGTGTTGTGCCTGCTG
AAGTGATCACCCCCCGCCCCAGCCCTGCATCAGGCCACAGGTCTTGGCTTTCTCCTTATCACCATTGTGCTGTA
TCACGGCACACAGCAGGGAATCCAGGCCCCCCCCGCAAGTGTTACCCAAGTCACCACTCCTGACCCAAAAATC
AGGCATGGCATTAAAACGTTGCAAATTCCTTTACTGTTATCCCCCCCCACCACCAGGACCATGTAGGGTGCAGTCT
TTACTCCCTAACCCGTTTCCCGAAAAAGGTGCTACCTCCTTTCCAGACAGATGAGAGAGGGCAGGACTTCAGGCT
GGATCCACCACTGGGCTCTCCCTCCCCAGCCTGGAGCACGGGAGGGGAGGTGACGCCCTGGTGACTGATGGATGGG
TATGGGTGAGAAGAGGGGACTAGGAAGGGCTATTCCAGGCTCAGGCCCTGCTCCTGCAGGCTTTGCCGCTGAGT
GTAGGAAAAACAGGCATGGCAGACCAGGGTGAGGGTTGTGCCAGCTGGGCCACGGCCATGCGTGGGGTGGCCCA
ATAAACACCGTGGACTCCC

3525/5332
FIGURE 3079

CGGAGCAGTGGTCGGAGATGTGGCGACCGGCTGGAGTGCAGTGTCTCAATCTTGGCTCACTGCAATCTCCGCCTA
CCAAGATCAAGCGATTCTCCTGTCTCAGCCTCCCAACTACCTGGGATTACAGGTGCAGCTCTGTCAATTCCACTC
TGCTCTGCTGCACAGAAGGCAGAAGCCCIGGCCGTCCCCTGCTGTGTTCTTCAGGAGAAACGTCAGGGGCCTTCC
TCCAAGGTTCTCCAGCCCCACACCCCTGTGGAGGAAGGTGCTCTCCACCGCGGTAGTGGGGGCGCCCTGCTCCT
CGGAGCCCGCTATGTCATGGCAGAGGCACGGGAGAAGAGGAGGATGCGGCTCGTGGTGGATGGCATGGGGCGCTT
TGGCAGACCTTGCCTCCCCAGGCCTTGGAGACCCACCCCTCCTGGTGTCTCCTCTCTTCTAGTGGACCTCAGGC
TGCAGGTCTCTGAAGGTCGGCCTGCAGATCTCCCTGGACTACTGGTGGTGCACCAATGTTGTCTTCGAGGGGTG
GAAGAGAACAGCCCAGGCTACTTGGAGGTGATGTCTGCGTGTACACAGCGGGCGGCTTGATGCCCTGGTGGCAGGG
GCCATCAGCAACGGGGGCCTCTACGTGAAGCTGGGCCAGGGGCTGTGCTCCTTCAACCACCTGCTTCCCCCGAG
TATACCCGGACCTGCGCGTGCTAGAGGACAGGGCCCTCAAGCGGGGCTTCCAGGAG

3526/5332
FIGURE 3080

ATGGTCAACCATGGAGCCCGGGTACCTGTTCTCGCTGGGCAATTCCCTCCTCCTCAAGTACACGGAG
AAGCTGCAGGAGCCCCCGGCCAGTGCTGTCCGTGAGGCTGCCGACAAGGAAGAGCCTCCCTCAAAGAAGAAGCGA
GTGGATGCGACGGCCGGCTGGTCAGCTGCGGGTAAGTCGGTGCCGCAGGATGAGGTGGACGAGATTGAAGTGTAC
GGCAGCGAGGCCCCAGTCGGGAACACAGCTGGCCACCTACTCCTTTGAGGTGTGTGACAGCATCCTGAACATTGGA
CCCTGTGCCAATGCCGCCGTGGGCGAACCTGCCTTCTCTCTAAAGAGTTTCAGAACAGCCCCGAGCCGGACCTG
GAGATTGTGGTTTGCTCCGGCCACGGGAAGAACGGGGCTTTGTCGGTGCTGCAGAAGAGCATCCGGCCCCAGGTG
GTGACAACATTTGAGCTTCCCGGCTGCTATGACATGTGGACAGTCATCGCCCCGGTGCCTAAGGAGGAGGAGGAC
AATCCCAAGGGGGAGGGCACAGAGCAGGAACCCAGCACCACCCTGAAGCAGACGACGACGGCCGCAGACACGGA
TTCTTGATTCTGAGCCGGGAAGACTCCACCATGATCCTGCAGACGGGGCAGGAGATCATGGAGCTGGACACCACT
GGCTTCGCCACTCAGGGCCCCACGGTCTTTGCTGGGAACATCGGGGACAACCGCTACATTGTCCAAGTGTACCA
CTGGGCATCCGCCTGCTGGAAGGAGTGAATCAGCTGCACCTTCATCCCCGTGGACCTGGGCGCCCCCATCGTGCAG
TGCGCCGTGGCCGACCCCTATGTGGTCATCATGAGTGCCGAGGGCCACGTACCATGTTCTCTGCTGAAGAGTGAC
TCCTACGGTGGCCGCCACCCGCTGGCGCTGACACAAGCCCCGCTGCACCATCAGTCCAAGGTGATTACGCTG
TGCCTGTACCGGACCTCAGCGGCATGTTACCACTGAGAGCCGCTGGGTGGGGCCCCGTGACGAGCTCGGGGGC
CGCAGTGGCCCGGAGGCCGAGGGCCTGGGCTCAGAGACTAGCCCCACAGTGGATGACGAGGAGGAGATGCTGTAT
GGGGATTTCGGCTCCCTCTTCAGCCCCAGCAAGGAGGAGGCCGAGAAGCAGCCAGCCCCCTGCTGACCGGGAC
CCTGCACCCTTCCGGGCAGAGCCTACCCACTGGTGCCTGCTGGTGCGGGAGAATGGCACCATGGAGATCTACCAG
CTTCCCGACTGGCGCTGGTGTTCCTGGTGAAGAACTTCCCTGTGGGGCAGCGGGTCTTTGTGGACAGCTCCTTT
GGACAGCCCACTACACAGGGCGAGGCCCGCAGGGAGGAGGCCACGCGCCAGGGGGAGCTGCCCTCGTCAAGGAG
GTGCTGCTGGTGGCGCTGGGCAGCCGCCAGAGCAGGCCCTACCTGCTGGTGCATGTGGACCAAGAGCTGCTTATC
TACGAGGCCTTCCCCACGACTCTCAGCTCGGCCAGGGCAATCTCAAAGTCCGCTTTAAGAAGGTCCCTCACAAC
ATCAACTTCCGTGAGAAGAAGCCAAAGCCATCCAAGAAGAAAGCAGAAGGTGGCGGGCGCAGAGGAGGGGGCTGGG
GCCCCGGGGCCTCGTGGCGCGTTTCCGCTACTTCGAGGATATTTATGGCTACTCAGGGGTCTTCATCTGCGGCCCC
TCCCTCACTGGCTCTTGGTGACCGGCCGAGGGGCTCTGCGGTACACCCCATGGCCATCGACGGCCCCGGTTCGAC
TCTTTTCGCTCCATTCCACAATGTCAACTGTCCCGCGGCTTCTGTACTTCAACAGACAGGGCGAGCTGAGGATC
AGTGTCTCTGCCTGCCTACCTGTCTATGATGCCCCATGGCCTGTGAGGAAGATCCCGCAGCGTTCACGGCCCCAC
TATGTGGCTTACCAGTGAGTTTAAGGTGTATGCTGTGGCCACCAGCACCAACACGCCGTGTGCCCCGATCCCA
CGCATGACTGGCGAGGAGAAGGAGTTTGAGACCATCGAGAGAGATGAGCGGTACATCCACCCCAAGCAGGAGGCC
TTCTCCATCCAGCTCATCTCCCCGGTCAGCTGGGAGGCTATTCCCAATGCCAGGATCGAGCTGCAGGAGTGGGAG
CATGTGACCTGCATGAAGACAGTGTCTCTGCGCAGTGAGGAGACCGTGTGCGGCCTCAAAGGCTACGTGGCCGCC
GGGACCTGCCTCATGCAGGGGGAGGAGGTACAGTGCCGAGGGCGGATCTTGATCATGGATGTGATTGAGGTGGTG
CCCCGAGCCTGGCCAGCCCTTGACCAAGAACAAGTTCAAAGTCTTTACGAGAAGGAGCAGAAGGGGCCCGTGACC
GCCCTGTGCCACTGCAATGGCCACCTGGTGTGCGGCATCGGCCAGAAGATTTTCTGTGGAGCCTGCGGGCCAGC
GAGCTGACGGGCATGGCCTTCATCGACACGCAGCTCTACATACACCAGATGATCAGCGTCAAGAAGTTCATCCTG
GCAGCCGACGTATGAAGAGCATTTCGCTGCTGCGCTACCAGGAGGAAGCAAGACGCTGAGCCTGGTGTGCGGG
GATGCCAAGCCCCCTGGAGGTGTACAGCGTGGACTTCATGGTGGACAATGCCAGCTGGGTTTTCTGGTGTCTGAC
CGCGACCGCAACCTCATGGTGTACATGTACCTGCCGGAAGCCAAGGAGAGTTTCGGGGGCATGCGCCTGCTGCGT
CGGGCAGACTTCCACGTGGGTGCCCCAGTGAACACGTTTGGAGGACCCGTCGCGGGGGGCCACTGAAGGGCTC
AGCAAAAAGTCGGTCTGTGGGAGAATAAGCACATCACGTGGTTTGGCACCTGGACGGCGGCATCGGGCTGCTG
CTGCCCATGCAGGAGAAGACCTACCGGCGGCTGCTGATGCTGCAGAACGCGCTGACCACCATGCTGCCACACCAC
GCCGGCCTCAACCCCCGCGCTTCCGGATGCTGCACGTGGACCGCCGACCTCCAGAATGCCGTGCGCAACGTG
CTGGATGGGGAGCTGCTCAACCGCTACCTGTACCTGAGCACCATGGAGCGCAGCGAGGTAGCCAAGAAGATCGGC
ACCACACCAGACATAATCTGGACGACTTGCTGGAGACGGACCGCTACCGCCCACTTCTAGCCCCGTGGATGC
CGTCAACCACCAGCACACGGAACCTACCTCCCACCCCTTTTTGTACAAAACACAAGGAAAAACATTTTTTGC

3527/5332
FIGURE 3081

CGCTCGCTCCGGCAACTGGAGGCACGGCAGAGGAGGCAGGGCCGACGGCGGTGGGCGGTGCGTTGCGCAGGCTCG
GGCCTCCCGCTCGCCGCTGCGTTGGGACCGCGCAGCCCGGTGTGTGCAGTGGCCTCAGGGATCCGGAAAGTCTAG
GACTGAACTTCTCCTAACATCCAGTAATGGGGACCTGGAACCTGGGCGTACTAGAGTGCCGCGCGTAGGGCTCCA
GGTCGCTGGCTTCTGCGCTTTCTTCTCTCCAAAGTTGAGTATCTCCTATCTGTGTCTCATACATACTGCCGCC
TGAGGTGCCATGGCCCCAAGCCGGGGGCCGAGTGAGACACAGCCCTGTCCCATCTGGTGCTGGGAGTGGTGTCT
CTGCACGCAGCCGTGAGCACAGCCGAGGCAAGTCGAGGGGCTGCTGCTGGCTTCCTGCTCCAGGTCTTGGCTGCC
ACCACCACGCTGGCCCCAGGGCTGAGCACACATGAAGACTGCCTTGCTGGAGCCTGGGTGGCCACCGTCATCGGC
CTTCCCCTTCTGGCCTTCGATTTCCACTGGGTGAATGGGGACCGCTCCTCTGCCAACCTGCTCCTGGGAGGAGGC
ATGGTGCTGGCAGTGGCTGGCGGCCACCTCGGCCCTGAGGGCCGCTCTGTGGCTGGTCAGGCAATGCTGTTGGTG
GTCGCAGTGACCATCCTCATTGTAGCTGTCTTCACGGCCAACACTTATGGGATGTGGGGGGGGCGATGCTGGGT
GTGGCAGGCCTCCTGAGCCGGCTGGAGGAGGACAGGCTGCTGCTGCTACCGAAGGAGGATGTCTGTCGCTGGGCC
TTGGCTGTAGGCAGCTGGGCTTACTGCCGGGCCCTGCATACACAGCGCCTCCAGTGGGAGTGACAGTTGGATACA
GCCAGGCAGGGTTTCTGCCCTGCCGAACACTTTCCCTCCACCTGCCTGCTCCTGGCGCCTTCTCCCTAGGGGTA
GACTCTTCTGCCTACTGAAGTGGGTTTGCTGCACATTGACTGGTCAGGGGCAGAGTCTGGGTGCTGTCCTTTGGC
CACGTGTGGGGACTTGTCTAGACCAGAATGAAAGGGACAGGGTCCCAGACACGTTTGGGGGTCTGATTCTGGGC
TGGACACGGTTGTGGATCCAGAGAAGAGGCCTAGTCTCCAATAAATCTTAGGAATTTTGCAGG

3528/5332
FIGURE 3082

CTAATGGTCACTTGATGTGCGCTGGCTGTTTTATCCACCTACTAGCAGATGCCCGGCTGAAGGAGGAGCAGGCCA
CGTGCCCCAATTGTCGTTGTGAGATCAGTAAGAGCCTCTGCTGCCGGAACCTGGCCGTGGAGAAAGCCGTGAGCG
AGCTGCCCTTCAGAGTGTGGCTTCTGCCTGCGCCAGTTTCCCCGCTCCCTCCTGGAGAGGCACCAGAAAGAGGAAT
GCCAGGACAGGGTAACCCAGTGCAAGTACAAACGCATCGGCTGCCCATGGCACGGCCCCCTTCCATGAGCTGACGG
TGCACGAGGCTGCGTGCGCCACCCGACCAAGACAGGCAGTGAGCTGATGGAGATCCTGGATGGGATGGACCAGA
GCCACCGCAAGGAGATGCAGCTGTACAACAGCATCTTCAGCCTGCTCAGCTTCGAGAAGATTGGCTACACAGAGG
TCCAGTTCGGCCGTACCGCACAGACGACTTCATCACGCGCCTGTACTATGAGACGCCCAGGTTACAGTGCTGA
ACCAGACGTGGGTCTCTGAAGGCTCGAGTCAACGACTCGGAGCGTAACCCCAACCTGTCCTGCAAGCGTACGCTCT
CCTTCCAGCTCCTCCTCAAGAGCAAGGTCACGGCACCGCTGGAGTGCTCCTTCTGCTGCTCAAGGGCCCCCTACG
ACGACGTGAGGATCAGCCCCGTCATCTACCACTTTGTCTTCACCAACGAGAGCAACGAGACGGACTACGTGCCAC
TGCCCCATCATTGACTCCGTGGAGTGCAACAAGCTGCTGGCTGCCAAGAACATCAACCTGCGGCTCTTCCTGTTCC
AGATACAGAAGTAGGGCGGGGCCCTCAGGATGTCCGAGGAGCCACGGGCGGCATCCCAGCACCGCTGCCCTGTCC
ACCTGGCTGGCAGCTGCTTCACAGGACTATCTGATCACTTTAGCAAAGGAGGAGAAACAAACGAAGCCAAACAGG
GCAAGTCTGCATGCGTGACGACGGGGCCCCCGCCTCCGGCTCACCCACCGACCCCTGCCTCCCCCTCCTTCCGA
GGGCCGCCAGAGGCTGGGCTGACCCGAAGAGGAGACGGTGACACAGGCGCCCCGAGGCTAAGAGACGGTGGCAGC
AAGGAGGCCGAGAGGCACAGCGACCTGCCCCAGCCCTTCTGTGCAGTCAGGCGGCGGTGCTGCTCCATCCCTGC
GGGTTCCGGCGGGCGCGGGGGCCTTGCTGACATCAGACGGGATATCCGAATATCTGATAGCAATTAAAAGGCAG
CCTTGTTTCGTACTTTCTGTTTTGTTTCGAGGGGAAGGCATGGCTGTGAATGGACAGCGTGGGGGCTTTGGTTTG
CCTGGGGGTGAGAGCTGCCCCGCCCCATCTGTGTGCCCGCACACGTCCCCGAGGAAAGACTCAGAGACTG
CCTCCCCCTACGCTCTGTCATGGGGTCTTGAGACTGAGGCTTGGGCAGGAAGATCCAGGTAGGGTCGGGGCTGCC
CTGGCCAACCGCCGCTCCCAGGGAGACAGGACTCAGCCACCAGGGCTCAGCAGGCATTTTCGGAAGCAGGGTG
AAATTGTCTCTTCCCAGGAAAAAGATTAACTCCTTGCAAGGCTCTTGGATAAGTTACAC

3529/5332
FIGURE 3083

AATGGACGAGAGAGGCGGCCGTCCATTAGTTAGCGGGCTCCGGAGCAACGCAGCCGTTGTCCTTGAGGCCGACGGG
CCTGACGCGGGCGGGTTGAACGCGCTGGTGAGGCGGTACCCGGGGCTACGGCGGCCGGCAGGGGGCAGTGCGGGC
CGTTGTCTAGGGCCCGGAGGTGGGGCCGCGCGCCTCGGGCGCTACGAACCCGGCAGGCCCCACGTTGGGTGCGGC
CGGGTGCGGGCTGAGGCCATGGGCGACCGCGGCAGCTCCCGGCGCCGGAGGACAGGGTCGCGGCCCTCGAGCCAC
GGCGGCGGGCGGCCCTGCGGCGCGGGAAGAGGAGGTGCGGGACGCCCGCTGCGGGCCCCGACGTGGGAGCCGCGGGG
GACGCGCCAGCCCCGGCCCCCAACAAGGACGGAGACGCCGGCGTGCGGACGCCCGCCACTGGGAGCTGAGGTGCCAT
CGCCTGCAGGATTCTTTATTAGCTCTGACAGTGGCTTCAGCAACTACCGTGGCATCCTGAACTGGTGTGTGGTG
ATGCTGATCTTGAGCAATGCCCGGTTATTTCTGGAGAACCTCATCAAGTATGGCATCCTGGTGGACCCCATCCAG
GTGGTTTCTCTGTTCCCTGAAGGATCCCTATAGCTGGCCCCGCCCATGCCTGGTTATTGCGGCCAATGTCTTTGCT
GTGGCTGCATTCCAGGTTGAGAAGCGCCTGGCGGTGGGTGCCCTGACGGAGCAGGCGGGACTGCTGCTGCACGTG
GCCAACCTGGCCACCATTCTGTGTTTCCAGCGGCTGTGGTCTTACTGGTTGAGTCTATCACTCCAGTGGGCTCC
CTGCTGGCGCTGATGGCGCACACCATCCTCTTCCTCAAGCTCTTCTCCTACCGCGACGTCAACTCATGGTGCCGC
AGGGCCAGGGCCAAGGCTGCCTCTGCAGGGAAGAAGGCCAGCAGTGCTGCTGCCCCGCACACCGTGAGCTACCCG
GACAATCTGACCTACCGCATCTCTACTACTTCTCTTCGCCCCCACCTTGCTGCTACGAGCTCAACTTTCCCCGC
TCTCCCCGCATCCGGAAGCGCTTTCTGCTGCGACGGATCCTTGAGATGCTGTTCTTACCCAGCTCCAGGTGGGG
CTGATCCAGCAGTGGATGGTCCCCACCATCCAGAACTCCATGAAGCCCTTCAAGGACATGGACTACTCACGCATC
ATCGAGCGCCTCCTGAAGCTGGCGGTCCCCAATCACCTCATCTGGCTCATCTTCTTCTACTGGCTCTTCCACTCC
TGCCTGAATGCCGTGGCTGAGCTCATGCAGTTTGGAGACCGGGAGTTCTACCGGGACTGGTGGAACTCCGAGTCT
GTCACCTACTTCTGGCAGAACTGGAACATCCCTGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCCATGCTT
CGACGGGGCAGCAGCAAGTGGATGGCCAGGACAGGGGTGTTCTGGCCTCGGCCTTCTTCCACGAGTACCTGGTG
AGCGTCCCTCTGCGAATGTTCCGCCTCTGGGCGTTACGGGCATGATGGCTCAGATCCCACTGGCCTGGTTCTGTG
GGCCGCTTTTTCCAGGGCAACTATGGCAACGCAGCTGTGTGGCTGTCGCTCATCATCGGACAGCCAATAGCCGTC
CTCATGTACGTCCACGACTACTACGTGCTCAACTATGAGGCCCCAGCGGCAGAGGCCTGAGCTGCACCTGAGGGC
CTGGCTTCTCACTGCCACCTCACACCCGCTGCCAGAGCCCACCTCTCCTCCTAGGCCTCGAGTGTGGGGATGGG
CCTGGCTGCACAGCATCCTCCTCTGGTCCCAGGGAGGCCTCTCTGCCCTATGGGGCTCTGTCTGCACCCCTCA
GGGATGGCGACAGCAGGCCAGACACAGTCTGATGCCAGCTGGGAGTCTTGCTGACCCTGCCCCGGGTCCGAGGGT
GTCAATAAAGTGCTGTCCAGTG

3530/5332
FIGURE 3084

GGCTGCCGTGCTGCTCGGCGGCGCTGAGGCCAAATAGTTGCATCACATGTATCTAATCCGAGAGTCTCATGCTTC
TGCTCCTCAGTGACCAGCTCCTGCTCACTGCCCTCAGAAAGCCCAACCCTCAGGCAATGGCGGCCTTGTTCCCTGT
CTGCCCCACCCAGGCCGAGGTGACCTTCGAGGACGTGGCTGTGTACCTCTCCCGGGAGGAATGGGGCCGCCTGG
GCCCTGCTCAGAGGGGCTCTACAGGGACGTGATGCTGGAGACCTACGGGAACCTAGTCTCACTGGGAGTAGGAC
CTGCAGGCCCCAAGCCTGGAGTGATCTCGCAGTTGGAGCGAGGGGATGAGCCCTGGGTCTGGATGTTTCAGGGCA
CCTCTGGGAAAGAGCACCTGAGAGTCAACAGCCCAGCTCTTGGGACCAGAACTGAGTACAAGGAGTTGACTTCAC
AGGAGACATTTGGTGAGGAAGATCCCCAGGGATCTGAGCCAGTAGAAGCCTGTGACCACATCAGTAAGTCAGAGG
GGAGCCTGGAAAAGCTAGTGAGCAGAGAGGGCCCCAGGGCAGTCACACTGACCAACGGGGAGAGCAGCAGGGAGT
CTGGGGGAAACCTCAGGTGCTGTCAAGACCTGTTCCCTGATCAGAGACCTCACAATGTGATATATGTGAGCAAA
GTTTTGAACAGAGATCATATCTCAACAACCATAAGCGTGACACAGGTCAAAAAAACAATAACAGTTCGTAAC
CTGGGGAAATCTTCAGTGCAAACTTAGTTGTTAAAGAAGATCAGAAAATTCCTACTGGGAAAAAATTGCATTATT
GCAGTTACTGTGGGAAAACATTCAGGTACAGTGCCAACCTTGTCAAGCATCAGCGGCTTCACACTGAAGAGAAGC
CCTACAAATGTGATGAGTGTTGGGAAAGCCTTCAGCCAGAGCTGCGAGTTCATCAATCACCGAAGGATGCACTCAG
GAGAGATTCCCTACCGGTGTGACGAGTGTGGGAAGACATTCACCCGGAGGCCAACCTCATGAAGCACCAGAGGA
TTCACACTGGGGAGAAACCTTACAAGTGTGGGGAGTGTGGGAAGCACCTTAGCGCCTACTCTTCCCTGATTTATC
ACCAGAGAATCCACACCGGAGAGAAACCTATAAATGTAATGACTGCGGGAAAGCCTTCAGTGATGGCTCAATCC
TTATCCGACATCGTCGGACTCACACCGGAGAGAAGCCATTTGAGTGCAAGGAATGTGGCAAAGGCTTTACACAAA
GTTCTAACCTTATCCAACATCAGAGAATTACACTGGAGAGAAACCTATAAATGTAATGAATGTGAGAAAGCTT
TCATTCAAAAAACCAAACTCGTGGAAACATCAGAGAAGCCACACTGGAGAGAAGCCCTATGAATGCAATGACTGTG
GCAAAGTTTTTCAGCCAAAGCACACACCTCATCCAGCACCAGAGAATCCACACAGGAGAGAAGCCCTACAAGTGCA
GCGAGTGTGGGAAGGCCTTCCACAACAGTTCCAGACTCATCCACCACCAGAGGCTGCACCACGGAGAGAAACCTT
ACAGATGCAGCGATTGCAAGAAAGCCTTCAGCCAGAGCACGTACTTGATTACGACCGGAGGATCCACACCGGGG
AGAAGCCCTACAAGTGCAGCGAGTGTGGGAAGGCCTTCCGGCACAGTTCCAACATGTGTCAGCATCAGCGGATTC
ACCTCCGGGAGGACTTCTCCATGTAAACAGTGGCGCGGTGTCCGAGGGCAGAGTCCAGCTGAGCACTTCCTGCATG
CGCCCCCGGCACCTGACTCTGCCCTTATGTATTATCCACACGATGTTTTTCAGAGTGAAAGGACGTTTTCTCAT
TAAACAAACCTCTTTTCTT

3531/5332
FIGURE 3085

GCGGCATGGGCAGTATCCGCCGCCATCCTCTTCCGTGAGGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAGGAT
GCCGGTGCGGGCGCCCGCGGAGAGGGACCCGTGCGCCATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGG
TCTGTGTTCCGCGCGCACGTGAAGCACCGTAAAGGCGCTGCGCGCCTGCGCGCCGTGGATTTCGCTGAGCGGCAC
GGCTACATCAAGGGCATCGTCAAGGACATCATCCAGACCCGGGCCGCGCGCGCCCTCGCCAAGGTGGTCTTC
CGGGATCCGTATCGGTTTAAAGAAGCGGACGGAGCTGTTTCATTGCCGCCGAGGGCATTACACGGGCCAGTTTGTG
TATTGCGGCAAGAAGGCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTG
TGCTGCCTGGAGGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCCGGGCATCAGGGAATATGCCACCGTTATCTCC
CACAACCCTGAGACCAAGAAGACCCGTGTGAAGCTGCCCTCCGGCTCCAAGAAGGTTATCTCCTCAGCCAACAGA
GCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCATCTTGAAGGCTGGCCGGGCGTACCACAAA
TATAAGGCAAAGAGGAACTGCTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGT
GGCAACCACCAGCACATCGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATT
GCTGCCCGCCGGACTGGACGTCTCCGGGGAACCAAGACTGTGCAGGAGAAAGAGAACTTAGTGCTGAGGGCCTCAA
TAAAGTTTGTGTTTATGCC

3532/5332
FIGURE 3086

ATGGGGCGCCTGCAACTGGTTGTGTTGGGCCTCACCTGCTGCTGGGCAGTGGCGAGTGCCGCGAAGGAAGCTGAA
AGCCGAGCTACTCCACACCCGGACCCCATGCTGCACTATGTGGGCTTCGTCCCTGTCATTGATGGAGACTTCATC
CCCGCTGACCCGATCAACCTGTACGCCAACGCCGCCGACATCGACTATATAGCAGGCACCAACAACATGGACGGC
CACATCTTCGCCAGCATCGACATGCCTGCCATCAACAAGGGCAACAAGAAAGTCACGGAGGAGGACTTCTACAAG
CTGGTCAGTGAGTTCACAATCACCAAGGGGCTCAGAGGCGCCAAGACGACCTTTGATGTCTACACCGAGTCCTGG
GCCCAGGACCCATCCCAGGAGAATAAGAAGAAGACTGTGGTGGACTTTGAGACCGATGTCCTCTTCCTGGTGCCC
ACCGAGATTGCCCTAGCCCAGCACAGAGCCAATGCCAAGAGTGCCAAGACCTACGCCTACCTGTTTTCCCATCCC
TCTCGGATGCCCCGTCTACCCCAAATGGGTGGGGGCCGACCATAGAGATGAGATCCAGACAGTCTCTAAGGCTATG
ACCGCCTACTGGACCAACTTTGCCAAAACAGGGGACCCCAACATGGGCCACTCGGCTGTGCCACACACTGGGAA
CCCTACACTACGGAAAACAGCGGCTACCTGGAGATCACCAAGAAGATGGGCAGCAGTCCATGAAGCGGAGCCTG
AGAACCAACTTCCTGCGCTACTGGACCCTCACCTATCTGGCGCTGCCACAGTGACCGACCAGGAGGCCAGTTCC
ATGCCCTCCACAGGGGACTCTGAGGCCACTCCCGTCTCCCCGACAGGCAACTCCGAGTCTGCCCCCGTGACTCT
GAGGCTCCCCCGTACCCCTACGGGTGACTCTGAGGCCCGTGCCACCTTGGGTGACACTGAGGCTGCCCTGTG
TCCCCCAGAGTACTCCGAGGAAGCTCAGATGCTGCAGTCATTAGTTTTCTAGTGTCCCATCAGCCTTGACTCCA
GATGATGAAGTTGAAAATACTGACAGGCTGGAGGCCATCTGGGGTCTGCTGGCTCCCAGTTCCAGGAAGCCTGG
AAGAGCACTGGGGTGAGCTCGGGCCAGCGCATGTTTACTGTACAGGGGACATGTTTCAGCACTTTTCATTGTAAG
GCTGTGGCCTTCTGTGCTTGTGGATCCTCAGTCTCAGTGGCCTTCCTCTTCCCCCACCCTCACTCCTGTGTTC
GTGTTTAACACACCTACGCCCAACCGGGACATAACTAAATCCTTAG

3533/5332
FIGURE 3087

ATGGCGGCGGAGGCGGCCGATTGGGGCTGGGGGCCCGCTCCCCGTGGAGCTGAGGCGGGAGCGACGCATGGTG
TGCGTGAGTACCCGGGAGTGGTGCGTGATGTGGCTAAGATGCTGCCGACTCTGGGCGGCGAGGAAGGCGTCTCC
CGGATCTACGCAGACCCACCAAGAGGCTGGAGCTGTACTTCCGGCCCAAGGACCCATACTGCCACCCAGTGTGC
GCCAACCGCTTCAGTACCAGCAGCCTGCTGCTCCGCATCAGGAAGAGAACGAGGCGGCAGAAAGGGGTGCTGGGC
ACTGAGGCCCCTCCGAGGTACATTTGACATGGAGATCCTTGGCATCATCTCCACCATTTACAAATTCAGGGG
ATGTCTGACTTCCAGTACTTGGCTGTGCATACGGAAGCAGGCGGCAAGCATACGTCAATGTATGACAAGGTGCTC
ATGCTCCGGCCCGAGAAGGAGGCCTTTTTCCACCAGGAGCTGCCGCTCTACATCCCCCACCCTCTTCTCCCGG
CTGGACGCCCCGGTGGACTACTTCTACCGACCAGAGACCCAGCACCAGGCACTTTAAAAAGAAGGCCAGGCTCGA
TCCCGTCTTTCTAGTTTTGTTTCACAATGTGAAAATTACTGCTATTCTTTGGAAGGCTACAACAATCCCCCATC
TCAGGTGAGAATCTGATTGGCCTGAGCAGAGCCCGGCGCCCCACAATGCCATCTTTGTCAACTTTGAGGATGAG
GAGGTGCCCCAAGCAGCCACTGGAGGCTGCAGCCCGAGACGTGGAGGAGAGTCTGCACTAACCCCGTGGACCGGAAG
GTGGAGGAGGAGCTGAGGAAGGCAAGTCCTGCGCTGCGCCTGGCCCCGCTGTTTGACATCCGTCCCCTCTGGTCC
CGAAATGCTGTCAAGGCCAACATCAGCGTCCACCCAGACAAGCTCAAGGTCTTGCTTCCCTTCATAGCCTATTAC
ATGATAACAGGCCCCCTGGCGCAGCCTATGGATTGATTGGGTATGACCCCCGAAAAAACCAGATGCCAAGATT
TATCAAGTCCTCGATTTCCGAATCCGTTGTGGAATGAAACACGGTTACGCCCCCAGTGACTTGCCGGTCAAAGCA
AAGCGCAGCACCTACAACCTACAGCCTCCCCATCACCGTCAAGAAGACATCCAGCCAGCTTGTCACCATGCATGAC
CTGAAGCAGGGCCTGGGCCCCGTCGGGGACGAGTGGTGCTCGGAAACCAGCTTCAGCAAGTACAAGCTCAAGGAC
TCTGTCTACATCTTCCGGGAAGGGGCCTTGCCACCCTATCGGCAGATGTTCTACCAGTTATGCGACTTGAATGTG
GAAGAGTTGCAGAAGATCATTCACCGCAATGACGGGGCAGAGAATTCCTGCACAGAACGGGATGGGTGGTGCCTC
CCCAAGACCAGCGACGAGCTCAGGGACACCATGTCCCTCATGATCCGGCAGACCATCCGCTCCAAGAGGCCTGAG
GGCTGTGCGGTGGCTGGAGCTGCCACTGAGTGTCTCGGTGAGGGTGACCTCACACTGGCTGAGCTTAAAGGCCCC
ATCTGA

3534/5332
FIGURE 3088

AGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAATGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATTGAA
TATTATCCCTAATACCTGCCACCCCACTCTTAATC

3535/5332
FIGURE 3089

GCCAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCGACACAGTAGCATTTGTGCCAAATTCTTGAAGTCTGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTC

3536/5332
FIGURE 3090

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACATGCCTTGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGG

3537/5332
FIGURE 3091

CTAAAAGCCAAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCC
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCT
GCTGAGATGGGAAAGGGCTCCTTCAAGTAIGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATC
ACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGA
GACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGT
GAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAA
CAACTAATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAACTACA
AAATTGGTGGTATTGGTACTGTTTCCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGG

3538/5332
FIGURE 3092

ATGGCCCAACAAGCAAATGTCGGGGAGCTTCTTGCCATGCTGGACTCCCECATGCTGGGTGTGCGGGACGACGTG
ACAGCTGTCTTTAAAGAGAACCTCAATTCTGACCGTGGCCCTATGCTTGTAACACCTTGGTGGATTATTACCTG
GAAACCAGCTCTCAGCCGGCATTGCACATCCTGACCACCTTGCAAGAGCCACATGACAAGCACCTCTTGACAGG
ATTAACGAATATGTGGGCAAAGCCGCCACTCGTTTATCCATCCTCTCGTTACTGGGTGTCATGTCATAAGACTGCAG
CCATCTTGGAAGCATAAGCTCTCTCAAGCACCTCTTTGCTTCTTTACTAAAATGTCTCAAGATGGACACTGAC
GTCGTTGTCTCACAACAGGCGTCTTGGTGTGATAACCATGCTACCAATGATTCCACAGTCTGGGAAACAGCAT
CTTCTTGATTTCTTTGACATTTTGGCCGCTGTGCATCATGGTGCCTGAAGAAACCAGGCCACGTGGCGGAAGTC
TATCTCGTCCATCTCCATGCCAGTGTGTACGCACTCTTTCATCGCCTTTATGGAATGTACCCTTGCAACTTCGTC
TCCTTTTGGCGTCTCATTACAGTATGAAAGAAAACCTGGAGACTTTTGAAGAAGTGGTCAAGCCAATGATGGAG
CATGTGCGAATTTCATCCGGAATTAGTGACTGGATCCAAGGACCATGAACTGGACCCTCGAAGGTGGAAGAGATTA
GAAACTCATGATGTTGTGATCGAGTGTGCCAAATCTCTCTGGATCCACAGAAGCCTCATATGAAGATGGCTAT
TCTGTGTCTCACCAAATCTCAGCCGCTTTCCCTCATCTGTCAGCCGATGTCACCACCAGCCCTTATGCTGACACA
CAGAATAGCTATGGGTGTGCTACTTCTACCCCTTACTCCACGTCTCGGCTGATGTTGTTAAATATGCCAGGGCAG
CTACCTCAGACTCTGAGTTCCTCCATCGACACGGCTGATAACTGAACCACCACAAGCTACTCTTTGGAGCCCATCT
ATGGTTTGTGGTATGACCACTCCTCCAACCTCTCCTGGAAATGTCCACCTGATCTGTACACCCTTACAGTAAA
GTCTTTGGTACAACCTGCAGGTGGAAAAGGAACCTCTCTGGGAACCCAGCAACCTCTCCTCCTCCAGCCCCACTC
TGTCATTGCGATGACTACGTGCACATTTCACTCCCCAGGCCACAGTCACACCCCCAGGAAGGAAGAGAGAATG
GATTCTGCAAGACCATGTCTACACAGACAACACCATCTTCTGAATGACAGAGGATCAGAAGAGCCACCTGGCAGC
AAAGGTTCTGTCACTCTAAGTATCTTCCAGGGTTTTAGGTGATCTGGCCTCTGAAGAAGATAGTATTGAAAAA
GATAAAGAAGAAGCTGCAATATCTAGAGAACCTTCTGAGATCACCACAGCAGAGGCAGAGCCTGTGGTTCTCGA
GGAGGCTTTGACTCTCCCTTTTACCGAGACAGTCTCCAGGTTCTCAGCGGAAGACCCACTCGGCAGCCTCCAGT
TCTCAGGGCGCCAGCGTGAACCTGAGCCTTTTCACTCCTCCCTGGACAAGCTTGGGCCTGACACACCAAAGCAA
GCCTTTACTCCCATAGACCTGCCCTGCGGCAGTGCTGATGAAAGCCCTGCGGGAGACAGGGAATGCCAGACTTCT
TTGGAGACCAGTATCTTCACTCCAGTCTTGTAAAATTCCACCTCCGACGAGAGTGGGCTTTGGAAGCGGGCAG
CCTCCCCCGTATGATCATCTTTTGGAGGTGGCATTGCCAAAGACAGCCCATCATTTGTATCAGGAAGACTGAG
GAGCTGTTAAAGAAAGCAAAAGGAAACACAGAGGAAGATGGTGTGCCCTCTACCTCCCCAATGGAAGTGCTGGAC
AGACTGATACAGCAGGGAGCAGACGCGCACAGCAAGGAGCTGAACAAGTTGCCTTTACCCAGCAAGTGTGTCGAC
TGGACCCACTTTGGAGGCTCTCCTCCTTCAGATGAGATCCGCAACCTCCGAGACCAGTTGCTTTTACTGCACAAC
CAGTTACTCTATGAGCGTTTTAAGAGGCAGCAGCATGCCCTCCGGAACAGGCGGCTCCTCCGCAAGGTGATCAAA
GCAGCAGCTCTGGAGGAACATAATGCTGCCATGAAAGATCAGTTGAAGTTACAAGAGAAGGACATCCAGATGTGG
AAGGTTAGTCTGCAGAAAGACAAGCTAGATAACAATCAGCTCCAGGAGCAGCGTGACACTATGGTAACCAAGCTC
CACAGCCAGATCAGACAGCTGCAGCATGACCGAGAGGAATTCTACAACCAGAGCCAGGAATTACAGACGAAGCTG
GAGGACTGCAGGAACATGATTGCGGAGCTGCGGATAGAAGTGAAGAAGGCCAACAACAAGGTGTGTACACTGAG
CTGCTGCTCAGTCAGGTTTTCCCAAAGCTCTCAAACAGTGAGTCGGTCCAGCAGCAGATGGAGTTCTTGAACAGG
CAGCTGTTGGTTCTTGGGGAGGTCAACGAGCTCTATTTGGAACAACCTGCAGAACAAGCACTCAGATACCACAAAG
GAAGTAGAAATGATGAAAGCCGCCTATCGGAAAGAGCTAGAAAAAACAGAAGCCATGTTCTCCAGCAGACTCAG
AGGCTTGATACCTCCCAAAAACGGATTTTGAAGTGAATCTCACCTGGCCAAGAAAGACCACCTTCTTTTGGAA
CAGAAGAAATATCTAGAGGATGTCAAATCCAGGCAAGAGGACAGCTGCAGGCCGAGAGAGCAGGTATGAGGCT
CAGAAAAGGATAACCCAGGTGTTTGAATTGGAGATCTTAGATTTATATGGCAGGTTGGAGAAAGATGGCCTCCTG
AAAAAATTGAAGAAGAAAAAGCAGAAGCAGCTGAAGCAGCAGAAAGAGGCTTGACTGTTGTAATGACGGGTGC
TCAGATTCCATGGTAGGGCACAAATGAAGAGGCATCTGGCCACAACGGTGAGACCAAGACCCCCAGGCCAGCAGC
GCCCCGGGGCAGTAGTGGAAGCAGAGGTGGTGGAGGCAGCAGCAGCAGCAGCAGCAGCTTTCTACCCAGAGAAA
CCCCACACCAGAGGGCAGGCCCATTCAGCAGTCGGTGGGAGACGACTATGGGAGAAGCGTCTGCCAGCATCCCC
ACCACTGTGGGCTCACTTCCAGTTCAAAAAGCTTCTGGGTATGAAGGCTCGAGAGTTATTTCTGTAATAAGAGC
GAGAGCCAGTGTGATGAGGACGGCATGACCAGTAGCCTTTCTGAGAGCCTAAAGACAGAAGTGGGCAAAGACTTG
GGTGTGGAAGCCAAGATTCCCCTGAACCTAGATGGCCCTCACCCGCTCTCCCCGACCCGGACAGTGTGGACAG
CTACATATCATGGACTACAATGAGACTCATCATGAACACAGCTTAA

3539/5332
FIGURE 3093

CCCAGATACCCGATCCTCGGTCGCGCGGGTCGCCCCGCCCCGACCTCCCCGGCTGACGCGCTCTGCGGCTCGGA
TTCCTCTTCTCCTGTAAATGACCACAGAGGAAGACAATGAATGAGGTGAAAGAATCCCTTCGCAGCATCGAGCAG
AAGTACAAGCTCTTCCAGCAGCAGCAGCTCACCTTCACCGCCGCTCTGGAGCACTGCAGGGAGAACGCCCACGAC
AAGATCCGCCCCATCTCCAGCATTGGACAGGTGCAGAGCTACATGGAACACTACTGCAACAGCTCCACAGACCGG
CGGGTTCTGCTCATGTTCTGGACATCTGTTTCAGAGCTGAATAAGCTCTGCCAGCACTTTGAGGCCGTGCACTCT
GGCACCCAGTCACCAACAACCTCCTGGAGAAATGAAAACCCCTCGTTAGCCAAAGCAACGACTTAAGCAGCCTC
AGAGCAAAATACCCCTCATGATGTGGTGAACCACCTCAGCTGTGACGAGGCCCCGGAACCACTACGGCGGCGTGGTC
AGCCTCATCCCCCTCATCCTAGACTTAATGAAAGAATGGATCGCCCACTCCGAGAAGTTGCCGCGCAAGGTGCTG
CAGCACGTGAGTGAGCCCCAGGCGCACCCAGGAGAGCACCAGGGGAGCCGCTCGTCTGCCAGGCCATAGGGACC
CAGCCCAGGGCCACTAAACACAAGTGTAGACAGCTCACAAAAGCCAGCCTCAAACCCAGGGGATGTTCAAACCA
CCCTGGAGGCCCTCCTGGTGGGAAATTGTAACCTCAGAGCCAGGAGCTCCGTCCGCGGAGAGCTTTGCTGTTTTAATT
TGGATTTTACTGGTTGGTTCCTTTTTTCACTGGTACCCATGGACCCCTGCCACTTACTAACCCCAAGGGAATCAGCC
AATATATTACTGAGACTTCCTCTCTCTCTTCTTTAATTCTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTC
GCCCAGGCTGGAGTGCGGTGGCGCAACCTCGGCTCACTGCAACCTCCGCCTCCAGGTTACAGCCATTCTCCTGC
CTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCACCACCTCGCCTGGCTAATTTTTTGTATTTTGTAGTAGAGA
CAGCGTTTTACCATGTTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCTACCCTCGTGATCGGCCTCCCAA
AGTGCTGGGATTACAGGCGTGAGCCACAGCGCCCGGCCCTCTTGCTTTAACTTCTAACATTTCCACTTCTAAGCA
TCAGGCTCCGTGCTGATGAAGAGGAAACCCACTTACAGAAGTTGCCCAAACAGGATGGTGTGGTAGAGGGTCCCA
GGAGGGCACTGAAGTGTACCTAGGTCTCTTTGAGCCACATCCGGCTCCAGTGCCACGCCGTGCCCTGCTGCGG
GCTGCAGTTTTGCAGAGGGTGATCAAGCTGGAGACCATCTGCTCCTTGCCCCACCACCAGCCCCAACTGTAGGCA
AGGCACACGCTGTTTGCAGGCCAGGGATGCTCCCTCCAGGATGGAGTGGGGGTGGGCATGTGGAACCTCAGCGTG
TTTATTTTTTTTATTTTTTGGAGATGGAGTTTCACTCTGTCTCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCA
CTGCAACCTCCACCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGAATTACAGGCGCCAC
CACCCACCTGGCTAATTTATATATATATATATTTTTTAGTAGAGACGGGGCTTACCACGTTGGCCAGGCTGGT
CTTGAACCTCCTGACCTCAACTGGTCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACGGC
ACCTGGCCAGAACTCAGTAGTGTGTTTAGTTCTCTGGACCACAGCCAAAGGGGAATAAACTACCTTTCCTTCGC
CTTTACTTGGGAGAGGGAGACCATGACAGAAGCCAGAATTCTGATTTTGTGGCTCCTGAGCAAGGGCGATGACCT
GGTTTTACAGCGTAGTCGAACCCCAAACATTGTAATGTGTCCCTGGCTTCTGAGCTTGCCCAAAGTAATGTC
TGACTGTTGGTTTTTCCCTTCACAGGGGACGACTTAGCTTCTGTATTATTGTTGCTTCCTCAGGGGGAGACAGTC
AAGAATAAAAAGTATTCTACCACCT

3540/5332
FIGURE 3094

GAGCTCAATCCCTGGGCAGGGAAAAGGGGGTCCCTCGGGGCTCCCGCTCGCTGTCCTTTTTCTGGACAGGCAGTT
CCTTGGCCACCTGGTAGGGCCGCGTTGCCTGGCAACGGCGGGGTCTTCTTGGCTCGGCGGCGCTCGGGGCCTGA
GGGGAGAAAACGCCCGCGGAGGGCGCTGGGGGTGGCGGCGGCGGTCCGGGAGGTGGTCGCGCGACTGCGTGGAGC
GCCAGGGCGTCCGACCTCTGCACCTGAGAGAAGATGAACACGGCCGACCAGGCCCGGGTGGGGCCCGCGGACGAC
GGGCCTGCGCGCTCTGGGGAGGAGGAGGGAGAGGGGGGCGGCGAGGCGGGCGGGAAGGAGCCAGCAGCGGACGCG
GCCCCGGGGCCAGCGCTGCATTCCGCCCTCATGGTGACTCGGCGGGAGCCGGCCGTGAAGCTGCAGTATGCGGTG
AGCGGCCTGGAACCGCTGGCTTGGTCCGAGGACCACCGCGTGTCTGTGTCCACGGCCCGCAGCATCGCTGTGCTG
GAGTCTATCTGCGACGTGCACAACCCGGGCCAGGACCTGGTTATCCACCGCACCTCGGTGCCCGCACCGCTCAAC
AGCTGTCTCCTCAAAGTTGGCTCAAAAACAGAAGTTGCTGAGTGCAGGAGAAATTTCGCCCGCTCCAAGGACCCC
ACGGTCAGTCAGACTTTTATGTTGGATAGGGTGTTCACCCCTGAGGGGAAGGCTTTACCACCAATGAGAGGATTG
AAGTACACACAGCTGGTCTCCCATGGGTGCGATGCTAATGGCAGGTGCCTCTTGGCAGCACTGACCATGGACAAT
CGCTGACCATCCAGGCAAAATCTCAACAGACTGCAGTGGGTCCAGCTGGTTGACCTGACTGAGATCTATGGAGAA
CGTCTTTTATGAGACAGTTACAGGCTCTCTAAAAATGAGGCCCCGGAAGGAAATCTCGGGGATTTTGTGAGTTT
CAGAGGAGACACAGCATGCAGACCCCAGTCAGAATGGAGTGGTGGGCATCTGTACCACCCAGCAGGTCAAGCAT
AACAACGAATGCCGGGACGTTGGCAGTGTGCTCCTGGCTGTCTCTTTGAAAACGGTAATATCGCCGTGTGGCAG
TTTCAGCTGCCGTTTGTAGGAAAAGAATCCATCTCTTCATGCAACACAATTGAGTCAGGAATCACCTCTCCAGT
GTATTGTTTTGGTGGGAATATGAGCACAATAATCGAAAAATGAGTGGCCTTATTGTGGGGAGTGTCTTTGGACCC
ATAAAAATTCTCTGTCAATCTCAAAGCAGTCAAAGGCTATTTCACTTTAAGGCAGCCTGTTATCTGTGGAAA
GAAATGGACCAGTTACCTGTGCACAGTATCAAATGTGTGCCACTTTATCATCCTTACCAGAAGTGTAGTTGCAGC
TTAGTAGTGGCTGCAAGAGGCTCTTATGTATTTTGGTGTCTTCTTCTGATCTCCAAAGCAGGGCTGAATGTTTAC
AATTCCCATGTGCAGGCCTTCACTCACTGCCAATGTCTCCATGACTGCAGACAAACAGAATGGAACAGTCTAT
ACTTGCTCCAGTGACGAAAGGTGAGGCAGCTGATTCCCATTTTACAGATGTTGCATTGAAGTTTGAACACCAG
TTGATTAAACTCTCAGATGTGTTTGGCTCAGTGAGGACTCACGGGATAGCAGTGAGCCCTGCGGTGCATACCTG
GCCATCATCACCCTGAGGGCATGATCAACGGCCTCCACCCTGTTAACAAAACTACCAGGTCCAATTTGTTACT
CTCAAAACCTTTGAAGAGGCAGCTGCTCAGCTCCTGGAATCTTCAGTTCAAAACCTTTTAAAGCAGGTAGATTTA
ATAGACCTAGTACGCTGGAAGATTTTAAAGATAAACATATCCCTCAATTTTACAAGAAGCTTTGGAAAAAAG
ATTGAAAGCAGTGGAGTCACCTATTTTGGCGTTTTAAGCTTTTCTCCTGAGGATTTTATATCAGTCAATGCAG
AAAACCCCTTCAGAAGCCTTGTGGAAACCCACCATGAGGACTCAAAAATCTTACTAGTGGATTTCGCTGGGATG
GGCAATGCTGACGATGAACAGCAGGAAGAAGGCACCTTCTTCCAAACAGGTGGTGAAGCAAGGCCTGCAGGAGAGG
AGCAAGGAAGGAGATGTAGAGGAGCCCACTGATGACTCGCTCCCCACGACTGGAGATGCTGGAGGCCGTGAGCCA
ATGGAAGAGAACTCCTGGAAATCCAAGGGAATTCGAAGCTGTGGAGATGCACTTGACCAGGGAACACATGAAG
CGAGTCTTAGGAGAAGTGTATCTGCACACCTGGATCACAGAAAACACTAGCATCCCCACCCGCGGACTCTGTAAC
TTTTTAATGTCTGATGAAGAGTATGATGACAGAACTGCACGGGTGCTGATTGGACATATCTCAAAGAAGATGAAC
AAACAGACTTTCCCTGAGCACTGTAGTTTGTGTAAAGAGATCTTGCCATTACAGATCGCAAACAGGCAGTCTGT
TCCAATGGCCACATTTGGCTCCGGTGCTTCTTAACCTACCAGTCTGCCAGAGTTTGATATATAGAAGGTGTTG
CTCCATGACAGCATTGCCCGCATCCAGCTCCAGAAGATCCCGACTGGATTAAGAGGTTACTGCAAAGCCCTGC
CCTTCTGTGATTCTCTGTCTCTTAAATAATCAGTGACGGGAAGATGGAAGGGCATGATGAACCTTGCCATAGA
AAACTTCTCCAGCCTGAAGAGAAGGATGCACTGGAGGAAGCCGGACCCTCACGAGTGGAGAGAAGTCCTTGGTG
ATTGTAAAGAGGGCCCTGGAGCTCATTTCTGAATCGCACTCTCCATTTCCAGAGACTAAAGGATGTCCTTTGAA
ATGGCTGGACTCAGAGAGTTGGAGTCGTTTTGAGATGAGCATTAGCCCCAGCTTTGTAACCAATGAGGAACACTT
ACTTATTTTAAAGTATCTTGACAGAAGCAATTTGAACACAGTGTCCCGTCATTTCTAGAAACAGAATGGTCTCTT
CTAGAGAGCTTGGATAAGGACCTTGCTGGGTGAGTTAGGTTTTAATCCTTGCTTTGGTTTGGAACTGCCTTCGG
GCTCCAGAACTTAAATTGCTTGGTCCGTGGCATCTGATGTACCAACAGAGATTAAAAGTG

3541/5332
FIGURE 3095

[illegible]

3542/5332
FIGURE 3096A

ATGGGGCAGCAGCCTGGAAAAGTACTTGGGGACCAAAGAAGGCCAAGCTTGCCTGCCCTGCATTTTATCAAAGGA
GCAGGGAAGAAGGAATCATCGAGGCATGGGGGTCCACACTGCAATGTTTTTGTGGAACAAGCCCTTCAGCGGCCA
GTAGCATCTGACTTTGAGCCTCAGGGTCTGAGTGAAGCCGCTCGTTGGAACCTCAAGGAAAACCTTCTCGCTGGA
CCCAGTGAAAATGACCCCAACCTTTTCGTTGCACTGTATGATTTTGTGGCCAGTGGAGATAACACTCTAAGCATA
ACTAAAGGTGAAAAGCTCCGGGTCTTAGGCTATAATCACAATGGGGAATGGTGTGAAGCCCAACAAAAATGGC
CAAGGCTGGGTCCCAAGCAACTACATCACGCCAGTCAACAGTCTGGAGAAACACTCCTGGTACCATGGGCCTGTG
TCCCCGAATGCCGCTGAGTATCTGCTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGGCTGAGAGTGAGAGCAGT
CCTGGCCAGAGGTCCATCTCGCTGAGATACGAAGGGAGGGTGTACCATTACAGGATCAACACTGCTTCTGATGGC
AAGCTCTACGTCCTCCGAGAGCCGCTTCAACACCTTGGCCGAGTTGGTTCATCATCATTC AACGGTGGCCGAC
GGGCTCATCACCACGCTCCATTATCCAGCCCCAAAGCGCAACAAGCCCACTGTCTATGGTGTGTCCCCCAACTAC
GACAAGTGGGAGATGGAACGCACGGACATCACCATGAAGCACAAGCTGGGCGGGGGCCAGTACGGGGAGGTGTAC
GAGGGCGTGTGGAAGAAATACAGCCTGACGGTGGCCGTGAAGACCTTGAAGGAGGACACCATGGAGGTGGAAGAG
TTCTTGAAAGAGCTGCAGTCATGAAAGAGATCAAAACACCTTAACTGGTGCAGCTCCTTGGGGTCTGCACCCGG
GAGCCCCGTTCTATATCATCACTGAGTTCATGACCTACGGGAACCTCCTGGACTACCTGAGGGAGTGCAACCCGG
CAGGAGGTGAACGCCGTGGTGTCTGTACATGGCCACTCAGATCTCGTCAGCCATGGAGTACCTGGAGAAGAAA
AACTTCATCCACAGAGATCTTGCTGCCCCGAAACTGCCTGGTAGGGGAGAACCCTTGGTGAAGGTAGCTGATTTT
GGCCTGAGCAGGTTGATGACAGGGGACACCTACACAGCCCATGCTGGAGCCAAGTTCCCCATCAAATGGACTGCA
CCCGAGAGCCTGGCCTACAACAAGTTCTCCATCAAGTCCGACGCTGGGCATTTGGAGTATTGCTTTGGGAAATT
GCTACCTATGGCATGTCCCTTACCCGGGAATTGACCTGTCCAGGTGTATGAGCTGTAGAGAAGGACTACCGC
ATGGAGCGCCAGAGGCTGCCAGAGAAGGTCTATGAAGTCAAGTGCAGCATGTTGGCAGTGAATCCCTCTGAC
CGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAAACAATGTTCCAGGAATCCAGTATCTCAGACGAAGTGGAA
AAGGAGCTGGGGAACAAGGCGTCCGTGGGGCTGTGAGTACCTTGTGTCAGGCCCCAGAGCTGCCCCACCAAGACG
AGGACCTCCAGGAGAGCTGCAGAGCACAGAGACACCACTGACGTGCCTGAGATGCCTCACTCCAAGGGCCAGGGA
GAGAGCGATCCTCTGGACCATGAGCCTGCCGTGTCTCCATTGCTCCCTCGAAAAGAGCGAGGTCCCCCGGAGGGC
GGCCTGAATGAAGATGAGCGCCTTCTCCCCAAAGACAAAAGACCAACTTGTTTCAGCGCCTTGATCAAGAAGAAG
AAGAAGACAGCCCCAACCCCTCCCAAACGCAGCAGCTCCTTCCGGGAGATGGACGGCCAGCCGAGCGCAGAGGG
GCCGGCAGGAAGAGGGCCGAGACATCAGCAACGGGGCACTGGCTTTCACCCCTTGGACACAGCTGACCCAGCC
AAGTCCCCAAAGCCAGCAATGGGGCTGGGGTCCCCAATGGAGCCCTCCGGGAGTCCGGGGGCTCAGGCTTCCGG
TCTCCCCACCTGTGGAAGAAGTCCAGCAGCTGACCAAGCCGCTAGCCACCGGCGAGGAGGAGGGCGGTGGC
AGCTCCAGCAAGCGCTTCTGCGCTCTTGCTCCGCTCCTGCGTTCCCCATGGGGCCAAGGACACGGAGTGGAGG
TCAGTCAAGCTGCCTCGGGACTTGCAAGTCCACGGGAAGACAGTTTGAAGTTCGTCCACATTTGGAGGGCACAAAAGT
GAGAAGCCGGCTCTGCTCGGAAGAGGGCAGGGGAGAACAGGTCTGACCAGGTGACCCGAGGCACAGTAACGCCT
CCCCCAGGCTGGTGAAAAAGAATGAGGAAGCTGCTGATGAGGTCTTCAAAGACATCATGGAGTCCAGCCCGGGC
TCCAGCCCGCCCAACCTGACTCCAAAACCCCTCCGGCGGCAGGTACCCGTGGCCCCTGCCTCGGGCCTCCCCAC
AAGGAAGAAGCTGGAAAGGGCAGTGCTTAGGGACCCCTGCTGCAGCTGAGCCAGTGACCCCCACCAGCAAAGCA
GGCTCAGGTGCACCAGGGGGCACCAGCAAGGGCCCCGCGAGGAGTCCAGAGTGAGGAGGCACAAGCACTCCTCT
GAGTCGCCAGGGAGGGACAAGGGGAAATTGTCCAGGCTCAAACCTGCCCCGCCGCCCCACCAGCAGCCTCTGCA
GGGAAGGCTGGAGGAAAGCCCTCGCAGAGCCCGAGCCAGGAGGCGGCGGGAGGCAGTCTGGGCGCAAAGACA
AAAGCCACGAGTCTGGTTGATGCTGTGAACAGTGACGCTGCCAAGCCAGCCAGCCGGGAGAGGGCCTCAAAAAG
CCCGTGTCTCCCGCCACTCCAAAGCCACAGTCCGCCAAGCCGTGGGGACCCCATCAGCCAGCCCCGTTCCC
TCCACGTTGCCATCAGCATCCTCGGGCCTGGCAGGGGACCAGCCGTCTTCCACCGCCTTCATCCCTCTCATATCA
ACCCGAGTGTCTCTTCGGAAAACCCGCCAGCCTCCAGAGCGGATCGCCAGCGGCGCCATCACCAGGGCGTGGTC
CTGGACAGCACCGAGGCGCTGTGCCTCGCCATCTCTAGGAACTCCGAGCAGATGGCCAGCCACAGCGCAGTGCTG
GAGGCCGGCAAAAACCTCTACAGCTTCTGCGTGAGCTATGTGGATTCCATCCAGCAAATGAGGAACAAGTTTGCC
TTCCGAGAGGCCATCAACAACTGGAGAATAATCTCCGGGAGCTTCAGATCTGCCCCGCGACAGCAGGCAAGTGGT
CCAGCGGCCACTCAGGACTTCAGCAAGCTCCTCAGTTCCGTGAAGGAAATCAGTGACATAGTGCAGAGGTAGCAG
CAGTCAGGGGTGAGGTGTGAGGCCGTGGAGCTGCCTGCAGCACATGCGGGCTCGCCCATACCCGTGACAGTGG
CTGACAAGGGACTAGTGAGTCAGCACCTTGGCCCAGGAGCTCTGCGCCAGGCAGAGCTGAGGGCCCTGTGGAGTC

3543/5332
FIGURE 3096B

CAGCTCTACTACCTACGTTTGCACCGCCTGCCCTCCCGCACCTTCCTCCTCCCCGCTCCGTCTCTGTCCTCGAAT
TTTATCTGTGGAGTTCCTGCTCCGTGGACTGCAGTCGGCATGCCAGGACCCGCCAGCCCCGCTCCCACCTAGTGC
CCCAGACTGAGCTCTCCAGGCCAGGTGGGAACGGCTGATGTGGACTGTCTTTTTCATTTTTTCTCTCTGGAGCC
CCTCCTCCCCCGGCTGGGCCTCCTTCTTCCACTTCTCCAAGAAATGGAAGCCTGAACTGAGGCCTTGTGTGTCAGG
CCCTCTGCCTGCACCTCCCTGGCCTTGCCCGTCTGTGTGCTGAAGACATGTTTCAAGAACCAGCATTTTCGGGAAGGGC
ATGCACGGGCATGCACACGGCTGGTCACTCTGCCCTCTGTCTGTGCTGCCCGGGTGGGGTGCACCTGCCATTTCCCTC
ACGTGCAGGACAGCTCTTGATTGGGTGGAAAACAGGGTGTAAAGCCAACCAGCCTTTGGGTCCTGGGCAGGTG
GGAGCTGAAAAGGATCGAGGCATGGGGCATGTCTTTCCATCTGTCCACATCCCCAGAGCCCAGCTCTTGCTCTC
TTGTGACGTGCACCTGTGAATCTGGCAAGAAAGCTTGAGTCTCAAGGGTGGCAGGTCACTGTCACTGCCGACATC
CCTCCCCCAGCAGAATGGAGGCAGGGGACAAGGGAGGCAGTGGCTAGTGGGGTGAACAGCTGGTGCCAAATAGCC
CCAGACTGGGCCCAGGCAGGTCTGCAAGGGCCCAGAGTGAACCGTCCCTTTCACACATCTGGGTGCCCTGAAAGGG
CCCTTCCCCCTCCCCACTCCTCTAAGACAAAGTAGATTCTTACAAGGCCCTTTCCCTTTGGAACAAGACAGCCTTC
ACTTTTCTGAGTTCCTGAAGCATTTCAAAGCCCTGCCTCTGTGTAGCCGCCCTGAGAGAGAATAGAGCTGCCACT
GGGCACCTCGGCACAGGTGGGAGGAAAGGGCCTGGCCAGTCTGGTCTGGCTGCACCTTTGAACTGGGCGAATG
TCTTATTTAATTACCGTGAGTGACATAGCCTCATGTTCTGTGGGGTTCATCAGGGAGGGTTAGGAAAACACAAA
CGGAGCCCCTGAAAGCCTCACGTATTTACAGAGCACGCCTGCCATCTTCTCCCCGAGGCTGCCCCAGGCCGGAG
CCCAGATACGGGGGCTGTGACTCTGGGCAGGGACCCGGGGTCTCCTGGACCTTGACAGAGCAGCTAACTCCGAGA
GCAGTGGGCAGGTGGCCGCCCTGAGGCTTACGCCGGGAGAAGCCACCTTCCCACCCCTTCATACCGCCTCGTG
CCAGCAGCCTCGCACAGGCCCTAGCTTTACGCTCATCACCTAAACTTGTACTTTATTTTTCTGATAGAAATGGTT
TCCTCTGGATCGTTTTATGCGGTTCTTACAGCACATCACCTTTTGCCCCCGACGGCTGTGACGCAGCCGGAGGG
AGGCACTAGTCACCGACAGCGGCCTTGAAGACAGAGCAAAGCGCCACCCAGGTCCCCCGACTGCCTGTCTCCAT
GAGGTACTGGTCCCTTCCTTTTGTTAACGTGATGTGCCACTATATTTTACAGTATCTCTTGGTATGCATCTTTT
ATAGACGCTCTTTCTAAGTGGCGTGTGCATAGCGTCTGCCCCTGCCCGGCGCTGGTGGCTCCCCCT
CTGCTTCTCGGGGTCCAGTGCATTTTGTCTGTATATGATTCTCTGTGGTTTTTTTTTGAATCCAAATCTGTCTCCT
CTGTAGTATTTTTTAAATAAATCAGTGTTTACATTAG

3544/5332
FIGURE 3097

GGCCTGGAGTTGTGGAGTCGGATATCGCAGCTCCCAGCTGAGCTGCGCCTGCGCAACTCATTGGCGCCAAGATGG
CGATGGAGATGAGGCTTCCAGTGGCTCGCAAGCCTCTTAGCGAGAGACTGGGCCGCGACACTAAGAAACATCTAG
TGGTGCCGGGGGATACAATCACTACGGACACAGGATTTCATGCGGGGCCATGGAACGTATATGGGAGAAGAGAAGC
TCATTGCATCTGTTGCTGGCTCTGTGGAGAGAGTAAACAAGTTGATCTGTGTGAAAGCTTTGAAAACCAGATACA
TTGGTGAAGTAGGAGACATCGTAGTGGGACGAATCACAGAGGTTCAACAGAAGAGGTGGAAGGTGGAGACCAACT
CCAGGCTGGATTTCGGTCTTGTGCTCTCGTCCATGAACCTTCCTGGAGGAGAGCTGAGGAGAAGATCTGCAGAAG
ATGAGCTTGCAATGAGAGGTTTCTTACAGGAAGGGGACCTTATCAGTGTGAGGTCCAGGCAGTGTTCTCTGACG
GAGCTGTCTCTTTGCACACGAGGAGCCTGAAATATGGAAGCTAGGTGAGGGGTTTTTGGTCCAGGTTTTCCCT
CCCTGGTGAAACGGCAGAAGACCCACTTTCATGATTGTCATGTGGTGCCTCAGTGATTCTCGGTAACAACGGCT
TCATCTGGATTTACCCAACACCTGAGCACAAAGAAGAGGAAGCAGGGGGCTTCATTGCAAACCTGGAGCCTGTCT
CTCTTGCTGATCGAGAGGTGATATCCCGGCTTCGGAACACTGCATCATCTCGCTGGTAACCTCAGAGGATGATGCTGT
ATGATACCAGCATCCTGTACTGCTATGAAGCATCCCTTCCACATCAGATCAAAGACATCTTAAAGCCAGAAATAA
TGGAGGAGATTGTGATGGAAACACGCCAGAGGCTTTTTGGAACAGGAGGGATTAAGGAGGTGCTCCAGAAGCACGGG
ACTGTGGACCTTGACAGGAGTGAAGACTGTGATGTGTGGTCCCCATATGTGGCTCAGCAAAGACTCGAGAGATCAT
CCCTTTGTCTGCATTGACGGCCCTGTGACGGCCTCCAGCCCACAGGCCTGCTTTCTCCTGTCTTAACACCAAGCC
TGGGTGGCAGATGAACAGTGCTTCCTTGGGTGGCCAGCTGAGTCCCGGTATTAGGGAATAGTTTCAGCTCTTTCA
AAGTGACAGTGTTACAGTGAATGGGCTCCCATCCTGGAATAATATGGAGAATCCTTTGTCTTCCACTCACTGT
CATTACAAAGGCACAGTGCCCCATGAAATTGCCCAATAGAAAACATGGCATCCCTGACCTCCAAATGGTCTGTT
TTGGCCTCCATTCTATATCCTTTAAATGACTGAGAATGCAGCTGGTAAAGTTGGAAGAATAAAGTTAACCAAGC
AGGCCAGGCACGGTGGCTCACGCCTATAATCCCAGCACTTAGGGAGGCCAAGGCGGGCAGATCACCTGAGGTCAA
TAGTTCGAGACCAGCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGGTGTGGT
GGTGTGCACCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTGGGAGAATCACTTGAACCTGGGAGGCGGAGGTGTC
AGTGAGCTGAAATCGCGTACCACACTCCAGCCTGGGTGACAGAGCGAGACTGTGTTTCAAAGAAAAAATAACA
AGCAGCCTTTTGTGTTGGTGGAAATCTGATTTTCTGTTGCGTGTTTCTTGTAGCCATAGATGTGATTATGTCCACA
CCGGGCTGCCTTAATCTGTCTGCTTGGAGAGTGAAGTGTGAAGATGCTGAATTATTCATGATAATACAGTGAATG
TTCTGGGTCCATGTACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGAGACTGGGAAAGCAAAGCTGTT
TTCATCCTATAATTGAAGTAGTGTGGAGCATTAACTTGTGGATGATTGAGAGTTAAAAGATAAAAAGACGCCAGA
GTTCTCGCTGAAGAATGTGAGAA

3545/5332
FIGURE 3098

TTTCCGGCTACGGGTCCCCAAGCGGAGCGGGAGGCCGGACCGGGGAGCCGAGCGGCGGCGTTCGGCGGGCGTTCGGCG
GCGGCGGCGACGGCGGGCGGGGGCGGTAATGCGGAGCTGGTGCAGGGGCAGAGCGCTCCTGTGGGGATGAAGGCC
GAGGGCTTCGTGGATGCCCTGCACCGGGTCCGGCAGATTGCTGCTAAAATTGATTCAATTCCTCACTTGAATAAT
TCCACACCTCTAGTGGACCCCTCAGTATATGGATACGGAGTACAAAAACGGCCCTTGGATGATGGAGTAGGTAAC
CAGTTAGGGGCCCTTGGTACATCAAAGACGGTAATAACGGAAGAATTCAAAGTGCCTGACAAAATGGTTGGATT
ATTATCGGCAGGGGAGGTGAGCAGATTTACGGATTCAAGCAGAATCTGGTTGCAAAATTCAGATTGCTTCAGAG
AGTTCTGGGATTCCAGAGAGGCCCTGTGTACTTACCGGAACCCAGAAAGTATTGAACAAGCCAAACGGCTCCTG
GGACAGATTGTGGACCGCTGTGAAATGGACCTGGCTTTCATAATGACATAGACAGCAACAGCACAATCCAGGAG
ATTCTCATTCCCGCATCTAAAGTGGGTCTGGTCATCGGCAGAGGAGGGGAAACAATCAAGCAGTTGCAGGAGCGG
ACAGGGGTGAAGATGGTCATGATCCAGGATGGCCCATTTGCCACGGGAGCAGACAAGCCTCTTCGTATCACTGGA
GATGCATTTAAAGTACAGCAAGCAAGAGAAATGGTACTAGAGATTATCCGAGAAAAAGACCAAGCTGACTTTTCGG
GGTGTACGCGCGGATTTCAACTCTCGAATGGGAGGAGGCAGTATAGAGGTATCTGTGCCTAGGTTTGTGTGGGG
ATTGTAATAGGAAGAAACGGGAAATGATCAAAAAGATCCAGAATGATGCTGGTGTGAGGATTCAGTTTAAACCA
GATGATGGGATTAGTCCAGAAAGAGCTGCCAGGTCTGGGCCCTCCGGATCGGTGTGAGCATGCAGCGCATATC
ATCAGCGAGCTGATTCTTACAGCCAGGAAAGAGACGGCTTTGGAGGCCTGGCAGCAGCCAGAGGAAGAGGTCTGT
GGCCGTGGCGACTGGAGCGTGGGAGCCCCCTGGTGGCGTCCAGGAGATAACATACAGGTGCCAGCCGATAAGTGT
GGCCTCGTCATAGGCAAGGGGGTGAGAACATCAAAAGCATCAACCAGCAGTCAGGGGCGCACGTGGAGCTTCAG
AGGAACCCCCCTCCCAACAGCGACCCCAACCTGCGGAGATTACCATCAGGGGGGTTCCCCAGCAGATCGAGGTG
GCCAGGCAGCTCATAGATGAGAAAGTTGGCGGGACCAATCTCGGAGCACCTGGAGCCTTCGGACAGAGTCCATT
AGCCAGCCACCTGCCCCACCTCATCAAATACCTTTCTCCTCAAGGAGCTCCGGGTGCTTCCCAACATGGCTGCC
AAGGTGAATGGGAACCCCAACAGCACCCCTGTGAGTGGTCTCCGGCCTTTCTGACCCAGGGCTGGGGCAGCACC
TACCAGGCGTGGCAGCAGCCACACAGCAGGTCCCAAGCCAGCAGAGCCAGCCGAGAGCAGCCAGCCCAACTAC
AGCAAGGCCTGGGAAGACTATTACAAAAACAGAGTCACGCCGCCAGCGCTGCTCCTCAGGCCAGCTCCCCACCG
GACTACACAATGGCCTGGGCAGAATATTACAGACAGCAGGTGCTTTCTACGGACAGACGTTAGGGCAGGGCGCAG
GCCACAGCCAGGAGCAGTAGGACAGCGTCTCGTGGCCAACTCTCCCTCAAAATCATTGTCAAAGAAAACCTA
TTTGTAACAGAGGTTTTTACATTTGCAAACCTTTTGATGAAGAACTGTTGTTTGTCTGTGAAACACTATATTT
AGATTAACGGAATTTTTCTAAAAATCAGGAAAATTAGTTACTAAAAATTGCTGATCATTTTTGTTCATTATTTT
TGTTATTTCAAATGTATAAGCTCTGGGATTCTTTTGGAGCAATACCTACAAAGTCAGGCACCAGAATGTGCCTC
AGAGCTGTGACATTTCAACATGATGGTTTTGGTTTTGGTTTTGGTTTTGTGTCTTTTTATTGTCAGTTTTTTCTGT
TGCAACAGAAAGTGGCTTGGAAGTCTTAGGTGGTATGTAACAAATCTTTTTAAAAATTTTAAAGCAGTATTTAA
GTATTCTTAAATGTGTAAATTCATTTAATGTTTTACTTCTAATTTCTTGATCTTGGCTGTCTGGTTTTATTGCA
TTTTTAAAAAACTGAACATATTATGATTGTAATGAATGATGTGAATCTGAACTGAGACAGATAATTGTATTGC
TGTCACAGAGGGGTTGGGAGGGGCATTTTGTAGGGTTTGTATAATTTCTAGAGTTCGAAAGGGGTAATATAAAAA
TGTGCTCGTGTGTTTAGCCTACGTTTTTCTCATGCCTCCATTACCAGTTGCAATTGTGTATCTAAGACCTCCAAG
CTTGTTTTTAAAAACAAAACAAAAACCTTTCTCTATTATCTCAGAAATATAAATACTGTTATTTTTTAATATTAAG
AAATTCAATATAACTTTTAAACACACTGTGGAACATTAAACCGTATAAAAATGTAGTTATAACTATTTTTAATT
CCAAGGTGTTGTTGCTTTTTTCTTTAAATATTTTCTTAATATTTTGTGAGTTAACTAGATGAATAAATAAAT
CTAGTATTAACCGCATTATGAATTAAATAATTTTGATTTAATGAAAGGGATAATATGATTTCCAGTGTTTACTGT
AGTGTATCTGTACAGATAACATGATTTTTTAAAGGAAAAAAACGGAATTGAAGCTATTTTTTCTGCAATTTCT
AATTGACCTGAGGGACATTCCGTTTGAAATGTACTGAAGTTACAGTTTCTGGTTTTTCTCCTTATTTTTCTTAT
AATGCTTGAATGTCTAACTATTAAAAAGACAATTGGAATGTTATGATGGGGTTTTTAAAGAAAACAAAGTG
TTCTTTTTATTGACTGACAATTCATTTACACTCTATATAATAAATCTCCACAAGGCATCTGTGGGCAAAGT
C

[illegible]

3547/5332
FIGURE 3100

ATGTGGCTGACCTTATCTGTACGAGCTTTTCCTGGGGCCCGTGGAGCGGGTAGTCCAAGCTGGGTATTAATCCTG
GAGCCAGGAAAGGCTCTGAGAAGTGAAAGAACACCACGAACAAAGTCTTCAGATGGGGCCTTTAAGCTCAGCCAG
TGTGAGGTCACCCTCACCAGACACTCAGTGGCAGCTCCAGCCACCGCACAGCCCTCTGCAGTGATGGGAACAGG
GGACCGAGTGGACCTGCAGAGCCACGTCTGTCCCTCTGTCTGTGACCCACAGCCGGTGCCAGCAATTCAGGAGGC
CTAGTGGGCGAGGGAGGCTGGGGAAAGGACTGGAGGGGAGGCCAGCCTTGGGCCCTGTCACACGTAGTCCAGAA
TCTCTGTCTCCATTTTCGTTTTCACTGCCGTCGGATGGCTTGA

3548/5332
FIGURE 3101

CCAGAGGCTGATGCTCACCATGGGGCGCCTGCAACTGGTTGTGTTGGGCCTCACCTGCTGCTGGGCAGTGGCGAG
TGCCGCGAAGCTGGGCGCCGTGTACACAGAAGGTGGGTTTCGTGGAAGGCGTCAATAAGAAGCTCGGCCTCCTGGG
TGACTCTGTGGACATCTTCAAGGGCATCCCCCTTCGCAGCTCCCACCAAGGCCCTGGAAAATCCTCAGCCACATCC
TGGCTGGCAAGGGACCCTGAAGGCCAAGAACTTCAAGAAGAGATGCCTGCAGGCCACCATCACCCAGGACAGCAC
CTACGGGGATGAAGACTGCCTGTACCTCAACATTTGGGTGCCCCAGGGCAGGAAGCAAGTCTCCCGGGACCTGCC
CGTTATGATCTGGATCTATGGAGGCGCCTTCCTCATGGGGTCCGGCCATGGGGCCAACTTCCTCAACAACTACCT
GTATGACGGCGAGGAGATCGCCACACGCGGAAACGTTCATCGTGGTCACCTTCAACTACCGTGTGCGCCCCCTTGG
GTTCTCAGCACTGGGGACGCCAATCTGCCAGGTAATATGGCCTTCGGGATCAGCACATGGCCATTGCTTGGGT
GAAGAGGAATATCGCGGCCTTCGGGGGGGACCCCAACAACATCACGCTCTTCGGGGAGTCTGCTGGAGGTGCCAG
CGTCTCTCTGCAGACCCTCTCCCCCTACAACAAGGGCCTCATCCGGCGAGCCATCAGCCAGAGCGGCGTGGCCCT
GAGTCCCTGGGTCTCCAGAAAAACCCACTCTTCTGGGCCAAAAAGGTGGCTGAGAAGGTGGGTGCCCCGTGTTGGG
TGATGCCGCCAGGATGGCCCCAGTGTCTGAAGGTTACTGATCCCCGAGCCCTGACGCTGGCCTATAAGGTGCCGCT
GGCAGGCCTGAGTACCCCATGCTGCACTATGTGGGCTTCGTCCCTGTCAATTGATGGAGACTTCATCCCCGCTGA
CCCCGATCAACCTGTACGCCAAGCGCCGCGACATCGACTATATAGCAGGCACCAACAACATGGACGGCCACATCTT
CGCCAGCATCGACATGCCTGCCATCAACAAGGGCAACAAGAAAGTCACGGAGGAGGACTTCTACAAGCTGGTCAG
TGAGTTCACAATCACCAAGGGGCTCAGAGGCGCCAAGACGACCTTTGATGTCTACACCGAGTCTGGGCCACAGGA
CCCATCCCAGGAGAATAAGAAGAAGACTGTGGTGGACTTTGAGACCGATGTCTCTTCCTGGTGCCACCGAGAT
TGCCCTAGCCAGCACAGAGCCAATGCCAAGAGTGCCAAGACCTACGCCTACCTGTTTTCCCATCCCTCTCGGAT
GCCCGTCTACCCCAAATGGGTGGGGGCGGACCATGCAGATGACATTCACTACGTTTTTCGGGAAGCCCTTCGCCAC
CCCCACGGGCTACCGGCCCAAGACAGGACAGTCTCTAAGGCCATGATCGCCTACTGGACCAACTTTGCCAAAAC
AGGGGACCCCAACATGGGCGACTCGGCTGTGCCACACACTGGGAACCTTACACTACGGAAAACAGCGGCTACCT
GGAGATCACCAAGAAGATGGGCAGCAGCTCCATGAAGCGGAGCCTGAGAACCAACTTCCTGCGCTACTGGACCT
CACCTATCTGGCGCTGCCACAGTGACCGACAGGAGGCCACCCCTGTGCCCCCACAGGGGACTCCGAGGCCAC
TCCCGTGCCCCCACGGGTGACTCCGAGACCGCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCC
GCCACGGGTGAGTCCGGGGCCCCCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCCGCCACGGG
TGACTCCGGGGCCCCCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCCGCCACGGGTGACTCCGG
GGCCCCCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCCGCCACGGGTGAGCGCGGGCCCCCCC
CGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGACCCC
CACGGGTGACTCCGAGACCGCCCCCGTGCCGCCACGGGTGACTCCGGGGCCCCCCCCCGTGCCCCCACGGGTGA
CTCTGAGGCTGCCCCGTGCCCCCACAGATGACTCCAAGGAAGCTCAGATGCCTGCAGTCATTAGGTTTATAGCG
TCCCATGAGCCTTGGTATCAAGAGGCCACAAGAGTGGGACCCACAGGGGCTCCCTCCCATCTTGAGCTCTTCCTG
AATAAAGCCTCATACCCCT

3549/5332
FIGURE 3102

CACCCAGAGGCTGATGCTACCATGGGGCGCCTGCAACTGGTTGTGTTGGGCCTCACCTGCTGCTGGGCAGTGGC
GAGTGCCGCGAAGACCCCATGCTGCACTATGTGGGCTTCGTCCCTGTCATTGATGGAGACTTCATCCCCGCTGAC
CCGATCAACCTGTACGCCAACGCCGCCGACATCGACTATATAGCAGGCACCAACAACATGGACGGCCACATCTTC
GCCAGCATCGACATGCCTGCCATCAACAAGGGCAACAAGAAAGTCACGGAGGAGGACTTCTACAAGCTGGTCAGT
GAGTTCACAATCACCAAGGGGCTCAGAGGCGCCAGACGACCTTTGATGTCTACACCGAGTCCTGGGCCCAGGAC
CCATCCCAGGAGAATAAGAAGAAGACTGTGGTGGACTTTGAGACCGATGTCTCTTCTGGTGCCACCCGAGATT
GCCCTAGCCCAGCACAGAGCCAATGCCAAGAGTGCCAAGACCTACGCCTACCTGTTTTCCCATCCCTCTCGGATG
CCCGTCTACCCCAAATGGGTGGGGGCCGACCATAGAGATGAGATCCAGTACATCTTTGGGGAGCCCTTTGCCACC
CCACTCCGGGCTACCGGCCCAAGACAGGACAGTCTCTAAGGCCATGACCGCCTACTGGACCAACTTTGCCAAAA
CAGGGGACCCCAACATGGGCGACTCGGCTGTGCCCACACACTGGGAACCCTACACTACGGAAAACAGCGGCTACC
TGGAGATCACCAAGAAGATGGGCAGCAGCTCCATGAAGCGGAGCCTGAGAACCAACTTCTGCGCTACTGGACCC
TCACCTATCTGGCGCTGCCACAGTGACCGACAGGAGGCCAGTTCCATGCCCTCCACAGGGGACTCTGAGGCCA
CTCCCGTCTCCCCCGACAGGCAACTCCGAGTCTGCCCCCGTCCCTGCAACGGGTGACTCTCAGGATGCCCCGTG
CCCCCTACAAGTGACTCTGAGGCTGCCCCCGTCCCCCCTCAGGTGACTCTGAGGCTCCCCCGTACCCTACGGGT
GACTCTGAGGCCCGTGCCACCTTGGGTGACACTGAGGCTGCCCCATCCCCGCTACGGGTGACTCTGAGGCCGCC
CCTGTGTCCCCACAGATGACTCCGAGGAAGCTCAGATGCTGCAGTCATTAGTTTCTAGTGTCCCATCAGCCTTG
GTCTCAAGAGGCCGAGAGGGTGCAACCCAGGGGCTCCCCTCCATCTTGAGCTCTTCTGAATAAAACCTCATT
CCCC

3550/5332
FIGURE 3103

AGAGTCGCACGCGCAGCGGGGAAGGTGTGAGTCGTGAACGGCCCCGGGTCTCCGCCATGGCCTCTCTACTCGCCAA
GGACGCCTACCTGCAGAGCCTGGCCAAGAAGATCTGCTCCCATTCGGCCCCGGAACAGCAGGCGCGCACGCGGGC
TGGCAAACTCAAGGCTCAGAACTGCAGGGCCCCCAAAAAGAAAAGGAAGAAAACACAAAAGAAATTCCGGAA
GCGAGAAGAGAAGGCTGCTGAGCACAAAGGCCAAGTCCTTGGGGGAGAAATCTCCAGCAGCCTCTGGGGCCAGGAG
GCCTGAGGCAGCCAAAGAGGAAGCAGCTTGGGCTTCCAGCTCAGCAGGGAACCTTGAGATGGCTGGCCACTGA
GCCTGAGTCTGTCTTTGCTCTGGATGTTCTGCGACAGCGACTGCATGAGAAGATCCAGGAGGCCCGGGGCCAGGG
CAGTGCCAAGGAGCTGTCCCTGCCGCTTGGAGAAAAGGCGGCGGAGAAAAGCAGGAACGGGACCGGAAGAAGAG
GAAGCGAAAGGAGCTGCGGGCGAAAGAGAAGGCCAGGAAGGCTGAGGAGGCCACGGAGGCCAGGAGGTGGTGGA
GGCAACCCAGAGGGGGCTGCACGGAGCCGCGGGAGCCGCCGGGCTGATCTTCAATAAGGTGGAGGTGAGCGA
AGACGAGCCGGCCAGCAAGGCGCAGCGCAGAAAAGAGAAGAGGCAGAGGGTGAAGGGGAACCTCACGCCGCTGAC
CGGGAGGAACCTACCGGCAGCTGCTGGAGCGCCTGCAGGCACGGCAGAGCCGGCTGGACGAGCTGCGCGGCCAGGA
TGAGGGGAAGGCGCAGGAGCTGGAGGCGAAGATGAAGTGACCAACCTCCTCTACAAGGCGGAGGGCGTGAAGAT
CCGTGACGACGAACGCCTGCTGCAGGAGGCCCTGAAGCGCAAGGAGAAGCGCAGGGCGCAGCGGCAGCGCCGGTG
GGAGAAGCGCACGGCCGGCGTGGTGGAGAAGATGCAGCAGCGCCAGGACCGGCGGCGGAGAACCTGCGCAGGAA
GAAGGCGGCCCGCGCCGAGCGCCGCTGCTCAGAGCCCGCAAGAAGGGCCGCATCCTGCCGCAGGACCTGGAGCG
CGCAGGCCTGGTCTTGAGTCTTTCCACCTGGGGCCGCGTCTTCCGTCCTAGGAGACTCCAGGACACCTCTGAG
TCCTTGACGCTGGCTCTGTCCCAGGATCTCCACAGACCTCGGCCTCTCCATGTGAGGGGGACACAGTGGTGCTCT
GCTGAGTTGTGAGGGCCAGATCACAGATCCCATGTGAGAAAGAGAGAGTTTCAGCGTCATCCTTGAACGCAGGA
TCCGGGACCTTCAGACCCAGGGAAAGGTGAGGGAGACTGGGGCCTGGTCTGCTTTCCCGGGCCTGAAAGCTTCC
CCGAGGTTTGCAGGGTCAGGGAGGAGGAACGGTGGGGGTGGGCAGTCACTGCCTGTTCCCCACTGCCTGTGTTTCG
CAGGAGCCACGGGACAGAAGACGGTGGCCTCTGCTGCCGGGCCACGTTAGTCCGCAGCTCACCCGAACAGAGGAC
AACCCTGAGGTGTGGCATATGGGCACCTGGCACTGGGAGTGGGGGAGCACGTCCAGGCGTGGTGCATCCTGGGG
CAGAACGCCATGGCTCCTCCCCGCTCTCTTGCTTCTGCCTGTTGGGGTCTCATTCTTTCTGTTCCCCAGTGCC
CCGGGGCGGCATTTTACTGCTCAGAATTTGGAGGGAGGGAGCAGTACCTTCCCGGAGTCCACGCATGTGAGTTGG
GTCAAGTGCAATTGGACCTAGGGAAAGAGAAAGAAAGAATAAAAGCTGGAGAGAGAGTGAAGTGAATGCAAGATAA
AAAGTGGGATGGAAGAATTAAATCCAGAGTTCCAGGCAATCAAAATGAGTGCAGGTTGAAAGAAAACAGGTGAAT
TTTAGTGGCATATGGATGATAAAGCTGTAAATAAAATTCTTTTGATGAACTCTCCGGTTACGAGACAAAGACTG
TAACTGAACAGGAGCTGGTGTGACTGTTACCAGACAGAGGCAACTGATGAAAAAGCCCTGTGAAAGATAGGATGT
GAGGTGAGCATGAGCTTGAGCTGAGAGACAGACACAACAGTATCTGAAAAGAATACATACTCTTTCCATGCATAT
ATGGAACATGGATGGAAACTGACCACCTACTTTGTCCAGAAAAGAAGTCTTAAGATATTTCAAGGAATCAGTGTC
GTTATCTGACCGTATCCCAATGTCATTAAAAAAATTTGAGCTA

3551/5332
FIGURE 310410/52111-
10/531147

AAAAATCGAGGCGGGGCTGAGAGGCTGCGGCGGGTGAAGTGGTTCGCGACCGCGGCGGGGGAAGAGAGAC
TGCGGCGGGAGGGCCAGGCCGTGGGAGAGACGCGGGAAAGTGCAGGCTCGCAGAGGCATTGACCACCCGCCCTA
GGCCGACCCGGCGGACGCGGCGTCTGGTGTGCGGCGCTGGGGCGGGTCCCAGGTCTCCCCGCTGCGCTGCTTGA
GGCTCAGCCATGGCCCAGCAGAGAGCCCTGCCCCAGAGCAAGGAGACGCTGCTGCAGTCCTACAACAAGCGGCTG
AAGGACGACATTAAGTCCATCATGGACAACCTTACCGAGATCATCAAGACCGCCAAGATTGAGGACGAGACGCAG
GTGTCACGGGCCACTCAGGGTGAACAGGACAATTACGAGATGCATGTGCGAGCCGCAACATCGTCCGAGCCGGC
GAGTCCCTGATGAAGCTGGTGTCCGACCTCAAGCAGTTCTGATCCTCAATGACTTCCCCCTCCGTGAACGAGGCC
ATTGACCAGCGCAACCAGCAGCTGCGCACACTGCAGGAGGAGTGCAGCCGGAAGCTCATCACGCTGCGAGACGAG
ATCTCCATTGACCTCTACGAGCTGGAGGAGGAGTATTACTCGTCCAGCTCAAGCCTTTGCGAAGCTAATGACCTG
CCTCTGTGCGAAGCTTACGGGAGGCTGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCTCTGCTGGCG
TCCCCGAGCCCAGTGTGGCCCCCTACAGGTGGCAGCCCCCTGCCACTCCCATGCTGGTGGCCCTGGCCCCACT
GAGCACGCCGAGCCCTCCGGGGCCACGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTTGGATGCCCTCAC
AGCCTTGCTTCTCTCAGCCTAGGTTCCCATTTGGGGACTTCAGGACCCAGAGCCACTAGGACTTCCTTGGGAAG
CCCGTTAGCCCAGGGTGGGTCCCACCAGGACAGTAGGGAAACAGTTGTTTCCCTAGCCATTTCCGAATAGCCCAT
CATTCCGAGTCATCATCTCTGTTTGCTGCCCTTCTGGCCAGCCAGGTGGGAAGAAAGTTTCCAAGCTAGGTCTGGC
CCGTTGGGGATCTCAGCAGTGGGGCAGGAGGGTGCCTGATTTGCGGGAGTCTGACCCGAGCCTGTTGTGACAGT
TGGGAGGGGCTCTGAGCAGTGTTGGGCAGGCCGGGTCTCCCATCCCGAGGCCAGCGTTCCCTGTGCAGAGCCCCAT
CCACTGGTTCTTGCCCTGAGCCACATATGTCTGTGCCATGGGCTGAGTGCCACGACAGGCCCCGTGTGACAGCTGC
TGCCACGCATGTGGAAGCTAGGTGGGACTCATTCTAATTCTGCCGTGTAATGAGACTTGATTAAACACCGC
CACTTTTTTGC

3552/5332
FIGURE 3105

TTTCCTTTCTCTCTCTCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCC
CCAGCTGTCGTGAAGAAGCAGGAGGCTAAGAAA³TGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGC
ATTGGACAGGACATCCAGCCCAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGG
CAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAA
ACAGCTACTCAGCTGCTTAAGCTGGCCCAACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTG
GCCCCGGGCCGAGAAGAAGGCTGCTGGCAAAGGGGACGTCCCAACGAAGAGACCACCTGTCTTCGAGCAGGAGTT
AACACCGTCACCACCTTGGTGGAGAACAGAAAGCTCAGCTGGTGGTGATTGCACACGACGTGGATCCCATCGAG
CTGGTTGTCTTCTTGCCCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATCAAGGGAAAGGCAAGACTG
GGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTG
GCTAAGCTGGTGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGCGGTGGCAAT
GTCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAACTG
GGT~~TAA~~ATGTACACTGTTGAGTTTCTGTACATAAAAATAATTGAAATAATACAAATTTTCCTTC

3553/5332
FIGURE 3106

GCGTCCCGGAAGCGCCCGGGGCCGGGTGCGATGGCGGCGGTGGCTGCGTTGCAGCTGGGGCTGCGGGCGGGCGG
GGCTGGGACGGGCCCCGGCCAGCGCCGCTGGAGGAGCGTCTCAGGGTCTCCCCGCGCCCAGGGGTGGCCTGGA
GGCCAAGCAGATGTGGCAGTTCTGCAGCAGAAGCATCTGCCACAAAAGCGGAAGATGACTCCTTTCTTCAGTGGG
TCCTGCTCCTCATCCCTGTGACTGCCTTTGGCTTGGGGACATGGCAGGTCCAGCGTCGGAAGTGGAAGCTGAACC
TGATTGCAGAGTTGGAGTCCAGAGTTCTGGCTGAGCCTGTCCCTCTGCCAGCCGACCCAATGGAAGTGAATAATC
TGGAGTATAGGCCAGTGAAGGTCAGGGGGTGCTTTGACCATTCCAAGGAGCTGTATATGATGCCCCGGACCATGG
TGGACCCTGTCCGGGAGGCCCCGGGAGGGCGGCCTCATCTCCTCCTCAACTCAGAGTGGGGCCTATGTGGTCACTC
CCTTCCACTGCACCGACCTGGGAGTCACCATCCTGGTAAATAGAGGGTTCGTTCCAGGAAGAAAGTGAATCCTG
AAACCCGGCAGAAAGGCCAGATTGAGGGAGAAGTGACCTCATTGGGATGGTGAGGCTGACAGAAACCAGGCAGC
CTTTTGTCCCTGAGAACAATCCAGAAAGGAACCACTGGCATTATCGAGACCTGGAAGCTATGGCCAGAATCACAG
GCGCAGAGCCCATCTTCATTGATGCCAACTTCCAGAGCACAGTCCCTGGAGGACCCATTGGAGGGCAAACCAGAG
TTACTCTGAGGAACGAGCATCTGCAGTACATCGTGACCTGGTATGGACTCTCTGCAGCTACATCCTACCTGTGGT
TTAAGAAATTCCTACGTGGGACACCTGGTGTGTGACAGATCAGCTGCTGAAGCCCTGTCCCTGGATAATGCAGTA
TTTCAAGACTGCCTTTATGCTGGATCATGTGCTACTGGTATAAAGTTCTGGCCTTCTACCTT

3554/5332

FIGURE 3107

GCGAGCGGCTTCCGCCGGGCTGCTCCGCGGGCGCGTCGGCCATGAGCGAGTTGCCGGGCGACGTGCGGGCGTTTC
TGCGGGAGCACCCGAGCCTGCGGCTCCAGACGGACGCGCGCAAGGTGAGGTGCATCCTGACAGGTCACGAGCTGC
CCTGCCGCCTGCCGGAGCTCCAGGTCTACACCCGCGGCAAAAAGTACCAGCGGCTGGTCCGCGCCTCCCCGGCCT
TCGACTATGCAGAGTTTCGAGCCGCACATCGTGCCAGCACCAAGAACCCGCACCAGTTGTTCTGCAAACCTACCC
TGCGGCACATCAACAAGTGCCAGAACACGTGCTGAGGCACACCCAGGGCCGGCGGTACCAGCGAGCTCTGTGTA
AATATGAAGAATGTCAGAAGCAAGGGGTGGAGTACGTGCCTGCCTGCCTGGTGCACCGGAGGAGGAGGGAGG
ACCAGATGGACGGTGACGGGCCTCGCCCGCGGGAAGCCTTCTGGGAGCCACATCCAGTGATGAGGGGGGAGCTG
CAAGTGATGACAGCATGACAGACCTGTACCCACCTGAGCTATTACCCAGAAAGGACCTTGGAAGCACGGAGGATG
GGGATGGCACTGATGACTTTTTGACAGACAAAGAGGATGAGAAGGCAAAGCCCCAAGAGAGAAGGCCACTGATG
AGAGCAGGAGAGAGACGACCGTGTACCGAGGGCTGGTCCAGAAGCGCGGGAAGAAGCAGTTGGGCTCGTTGAAAA
AGAAGTTCAAGAGTCATCACCGCAAACCAAGAGCTTCAGCTCCTGTAAACAGCCAGGTAAATAAAAGCACATGC
CGTG

3555/5332
FIGURE 3108

GGAGCCGCAGCCGACGCGGAGCGAGGCCGCCGCCGGGCACTTCCTGTGGAGGCCGCAGCGGGTGC GGCGGCCGA
CGGGCGAGAGCCAGCGAGCGAGCGAGCCGAGCCGAGCCTCCCGCCGTGCGCCATGGGCCAGAACGACCTGAT
GGGCACGGCCGAGGACTTCGCCGACCAGTTCCCTCCGTGTACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTG
TCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACAC
CACCTGGAACCTGCGGCTACCTGCTGGCCTCGTCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGT
CCTGGTGTGAGCAGGAACCTCGTGCACTACGCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGC
CTACAGCATTTTATGGGACTTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGC
AGAATCCCGTTCTGAAGGGAAGAGCATGTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACAT
GCAGCTCGGAGGCAGGGTCTTGCTGGTTCTGATGTTTCATGACCTCCTTCACCTTTGACGCCAGCTTCTTTTCTAT
TGTCCAGAACACTCGTGGGCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGAC
TCTTGTTGTGTGGCTCTTTGCCATCAACGTATATTTCAACGCCCTTCTGGACCATTCCAGTCTACAAGCCCATGCA
TGACTTCCTGAAATACGACTTCTTCCAGACCATGTGCGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCC
TGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGTTAAACAGTCACAGATCCCTACCTGCCTGGCTAAGACCCG
TGGCCGTCAAGGACTGGTTGCGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCCTCCC
TTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGA
GCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGG
AGTGAACAGCCCGCTTGCTGTGGCATCTCAGTCCTATTTTTGAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTT
CAAGCTGTACTGTGAGCAGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTT
TAGCGGAAACTACTAAATTATTTTGGGTGGTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTAAATCAC
ACCAGTGGCTTTGATGTTGTTTTCTGCCCGCATTGTATTTTATAGGAATAGTGAACATTAGGGGACACCCAAA
GAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTTATGATAAAAAGTCATCGGTGAGAAAATCAGCTTGGA
TTGGTGCCAAGTGTTTTATTGGGTAAACACCTTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTC
CTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGG
GTAGCCCCAGCAGCAGCACCCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAAGCCGACGCCGCTGT
GGGCAGGGGGTGTGGCAGGAGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTT
TCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCAGCTGCACTCGCCCTGTG
GACAGCCCCGACACACCACCTTTCTGAGGCTGTCGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAA
AATTCCTTTTTACAATTTGTGATGCCTTACCGATTGTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTT
ATACTGTGTTTTCTTTTTTGGGGGAGCTTAACTGCTTGTTGCTCCCTGTCGTCTGCACCATAGTAAATGCCACAA
GGGTAGTCGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGC
GGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCT
GCTCATAAGTGCTTTTGAAGTCACCTACCTTTTTAACACAGCCGAACTAGTCCCAACGCGTTTGCAAATATTCC
CCTGGTAGCCTACTTCTTACCCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCC
TGTGATCATTCAGTGCTCACTGCATGAAGACTGGCTTGCTCAGTGTTCACCTCACCAGGGCTGTCTCTTGG
TCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCATCAAATGACCTTGGCCAAGTCACGGTTTCTCTGT
GGTCAAGGTTGGTTGGCTGATTGGTGAAAGTAGGGTGACCAAAGGAGGCCACGTGAGCAGTCAGCACCAGTTC
TGCACCAGCAGCGCTCCGTCTAGTGGGTGTTTCTGTTTCTCCTGGCCCTGGGTGGGCTAGGGCTGATTGGG
AAGATGCCTTTGACGGGAGGGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAACAATTTCTAAGATTTTT
TTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACAGTTT
TGATTTTTGGAACACATCAAAATAAATAATGGCGTTTGTGTG

CGCGTTTCGGGGACTGGAGCGTGCCTGCTGAGGTATGCGCAACGCGTGCGGGGTCTCTTCCGGAGTCTTTTCTCGT
GACGGGGTCCCTGCGGTGGGTGTGTTTCGGCCTGGCCTGGGCAGGCGCTTGTGCTGCCAGGGCGCCGGGCCCCGGG
GAGGCCGGGGTCTCGGTGGCCGCCGGCCAGGCGCTGGACGGCAGCAGGATCGGGAAGGCGAAGGTCCCGCCT
CCAAGCGCGCCCCGAGCAGCCCCGTGGCTAAGCCGGGTCTGTCAAGACGCTCACTCGGAAGAAAAACAAGAAGA
AAAAAAGGTTTTGGAAAAGCAAGGCGCGGGAAGTAAGCAAGAAGCCAGCAAGCGGCCCCGGTGCTGTGGTGCAC
CTCCAAAGGCACCAGAAGACTTTTTCTCAAACCTGGAAGGCGTGCAAGAGTGCTGCTGAAACAAAATCTCAG
CCCCAGAAAAGCCTCTTGTATCTCTCAGATGGGTTCCAAAAAGAGCCCCAAAATTATCCAGCAAAACAAAAAG
AGACCTCGCCTCAAGTGAAGGGAGAGGAGATGCCGGCAGGAAAAGACCAGGAGGCCAGCAGGGGCTCTGTTCCCTT
CAGGTTTCCAAGATGGACAGGAGGGCGCCAGTACCTCGCACCAAGGCCAGTGGAACAGAGCAATAAGAAAGGAA
CCAAGGAAAGGACAAATGGTGATATTGTTCCAGAACGAGGGGACATCGAGCATAAGAAGCGGAAAGCTAAGGAGG
CAGCCCCAGCCCCACCCACCGAGGAAGACATCTGGTTTGACGACGTGGACCCAGCGGATATCGAAGCTGCCATAG
GTCCAGAGGCGGCCAAGATAGCGAGGAAACAGTTGGGTGACAGCGAGGGCAGCGTCAGCCTCAGCCTCGTGAAG
AGCAGGCTTTCGGCGCCTGACAAGAGCCTTAGCCTTGGACTGTGAGATGGTGGGCGTGGGCCCTAAGGGGGAGG
AGAGCTTGCCCGCCCGTGTGTCATCGTGAACAGTATGGGAAGTGCCTTTATGACAAGTACGTCAAACCAACTG
AGCCCGTGACGGACTATAGGACAGCGGTCAGTGGGATTGCGCTGAGAACCCTCAAGCAGGAGAAGAGCTTTGAAG
TTGTTTCAGAAAGGAAGTGGCAGAGATGCTGAAGGGCAGAATTCTAGTGGGCGACGCTCTGCATAATGACCTAAAGG
TACTATTTCTTGATCATCCAAAAAGAAGATTGGGGACACACAGAAATATAAACCTTTCAAGAGTCAAGTAAAGA
GTGGAAGGCCGTCTCTGAGACTACTTTAGAGAAGATCCTTGGGCTCCAGGTCCAGCAGGCGGAGCACTGTTCAA
TTCAGGATGCCAGGCAGCAATGAGGCTGTACGTATGGTGAAGAAGGAGTGGGAGAGCATGGCCGAGACAGGC
GCCCCCTGCTGACTGCTCCAGACCACTGCAGTGACGACGCCCTAGCAGTCTGCCCTGCTGCTGCTGCCGCCCGC
TACAGAGGCAATGTGACCAGTCACAGGGACAGATCACATCTCCCCAGAGTGGCAACTCTGGTGAACCTTTTTCAG
AATCATGCGAGAGGGGCGTGGCTGGTGTCTACTGAGAAGTGCTCTCTTCTCTTGACTTTGTGGTCTGAAACCTG
GTCTTACTGTCCATGTGTGTTTGGGCCCCGATGGTCAGGTTGGGGAGCAGGGACGGCCATGGGCACGCCTGGCCA
CGCTTTACCGACTGCTGACCCCTGGGCCAGGTGAGGTTGGGGCCTGTGGGCCGCCAGTCCATACGGTGTGTCA
CTGCCCCATCTTCGGTGACACCTGGGGTGAGGTGCTCAGCACCTTCTCTCGAGGAGCCACATTTTCTCTCTTG
TGTTAGGGGACATAACAAGCTCTGCTGGGCTTGAGGGACCCAGACCAGGTGTCTGCAGTCAGCTCCTGAGACACA
GCTGGCCGGCACAACAGGTGTTACATCAGGGGTTTTCTGTGGCCGTTTGAACCTTGAGCATTATCTAAATTAA
TTGGCCAGGGTTGGCTGGTGGGTACCCAGCAGAGGCTTCTCCCCATAGCACGAGGATGTGTTGCCTGGGCACG
GTGACTGCGGTTATTCTGAGGTCGGCAGACATGCCAACCTTGGGCTATTTGAGCTGGAGAAGCTATGTGATGC
TAGCCGGTGCTTTCTGGGCTAGGCCCAAGTTTGAGGCTCCCCTGGGAAGTAGAGCCAGGAACAGCCAGTGGCAC
TGACAAGGGGACGGAGTCCAAAGGCGTTATTGGGCCACCTGACAGCTGGACAGAAAAGGGGCAGACACCCGAGGA
TGCGATTTAAATAAATGCAGATGTTTACTTGG

3557/5332
FIGURE 3110

ACGCGGCCGGCTACCGAGCCCTTTGTGAGGGCTGTGAGCTGCGCCTGACGGTGGCACCATGAGCAGCTCAGGTGG
GGGCGCCGGGGCGTCCGCCAGCTCTGCGCCGCCCGCGCAGGAAGAGGGCATGACGTGGTGGTACCCTGGCTGTG
TCGCCTGTCTGGGGTGTGGGGGAGTCTCTTGC CGGATCTCTGGCCTCTTCAACTGCATCACCATCCACCCTCT
GAACATCGCGGCCGGCGTGTGGATGATCATGAATGCCTTCATCTTGTGTGTGTGAGGCGCCCTTCTGTGCCA
GTTTCATCGAGTTTGCAAACACAGTGGCGGAGAAGGTGGACCGGCTGCGCTCCTGGCAGAAGGCTGTCTTCTACTG
CGGGATGGCGGTCTGTCCCATCGTCATCAGCCTGACCCTGACCACGCTGCTGGGCAACGCCATCGCCTTTGCTAC
GGGGGTGCTGTACGGACTCTCTGCTCTGGGCAAAAAGGGCGATGCGATCTCCTATGCCAGGATCCAGCAGCAGAG
GCAGCAGGCGGATGAGGAGAAGCTCGCGGAGACCCTGGAGGGGGAGCTGTGAAGGGCTGGGCGCCCTCCCTCCC
TGTCCCTCTTCTGGCTCTGTGTGGGTCCAAGTGAGGCCTGGACTGTCCACGCTGAGGCACAGCCTGGAGAGGGG
CCTTTGCAGTGTCCCTACACCTGGAGTCTCTGTCTCTTCTCCAGACTGGCTTAAGCCAGGAGCCACTGGCTG
CTGGTGTGAGGGTCTGGGCTGCTGGACTTGAGGCAGAGCCTGCAGCAGCTGTGTGGACACTACCCAGCCCTACTC
CTCTGTGGGTGGGTCTGCAGATCTCACACCACAGAGGGCTGCCTGTGACCTGCTGTGACCTGGGAGCAGCTT
CCCTGGAGATGCTGGTCTTGGCTTGAGGGGAGGGCAAGTGGGACCCTGCCACCTGGGCACTGAGCAGAGGGAC
CTCCCCCAGCTCTCTTAGCAGGTGGAGCCCCAGGGCCTGGGACAGCCTGCCGCTGCCAGCAACCTCCCCTGCTG
CCTAGGGTGCAGCGCCCACTGTCAACCCTGCCTTCTGAAGAAGCCACAGGGCTCCTAAGGTGCACCCCGGTACCT
GGAACTGCAGCCTTGGCAGTGACTGGACAGCTGGGTGGGGGATGCTCCCTGCTGGCCCTGGGAACCTTGGACAGG
CCACCTCAAGGCCCTCGGCTGCCCCCTCTCCCTGGGCTGCTGGGGCCCTAGGTTCTGCCCATACCCCCCGC
CCCTGCTGGCCTTGGTGCTAAGGAAGTGGGAGAGCAGGCTCTCCCTGGCACCGAGGGTGCCACCCTCTCCCTG
GTGTGGCCCCGTCAACATCAGCCACAGCCCAGCCCCATTAGTGGGTAGCGGTCTGACCTCAGCCCCACTCAGG
TGCTCCTGCTGGCCTGCCCAAGCCCTGCCCTCAGGGAGCTTCTGCCTTTTAAGAACTGGGCAGAGGCCACAGTCA
CCTCCCCACACAGAGCTGTCCCCACTGCCCTGGGTGCCAGGCTGTCCGGAGCCAGGCCTACCCAGGGAGGATGCA
GAGAGCTGGTGCCAGGATGTGACCCCCATATTCCCTCTGCCCTGTGGCCTCAGCCCGCTGGCCTCTCTGACCG
TGAGGCTGGCTCTCAGCCATCGGGCAGGTGCCTGTCTGGGCTGGCTTAGCCAGGTGGGGCTTGGCAGAAGCGG
GCGGGTGTGGAAGATATTCCATCTGGGGCCAACCCAGGCTGGGCCTGCGCTGAGCTTCTGGAGCGCAGGTACTG
GGTCTTGCTAAGTGAAGTGTTCCTCCAGGAACACCTCTCGGGCCCATCTGCGTCTGAGGCTGGGAGTGGCATCTGA
GGCCGGGAGTGGCATCTGAGGCCAGGAGTGGCAGGCTGGTGGGCTGGGCGTGGGGTTTCTGGGCCCTGCCAGT
ACTGCCCTGGGGACTTGGTGGGCTCCTGGGTGAGCAGCATCCACCCCTGGGAGTCTGGCCAGCTGAGCCCCAGG
GTGGCAGGGGCATTATAGCCTGGTGGACATGTGCCTTCAGGGTTCCCTCCGGGGCCACCTTCCCTCAGGCCAGTGCT
GGGTTCAAAGGGCTGTGTGTGTGTGTGTGTGTGTGTGTATGTATATGTGTGTGGGTGCACACATCTGTCCCAT
GTATGCAGTGAGACCTGTCTACCTCCACAAAGGAGCAAGGGCTCTGCCCGCCCTCTGCTCATTCTACCCAGGTA
GTGGGACCCCGGGCCCCCTTCTGCCTGGCTTGCTGTCTTCTGCCCTTTCCAGAGGGGTCTCACTGACAGCCAGAG
ACAGCAGGAGAAGGGTTGGCTGTGGATCAAGGAAGGCTGCCCTGTACCCTGTGGGGAAATGGTGGGTGCATGGC
TGGATGCAGAGGTGGAAGGCCCTGGGCCACAGGCGAGAGTGGGCGTGTACCTGTCCCAGGTCCCAGCAAGTCT
GCAGCTGTGCAGTCTTGGGGTCCCTGACCCTGTGCCCCAGGGGCGTGTGTCCAGCAGGGGCCCTGCCTTGCAA
GGAACGTCTCTTCCGGCGGCTGGGCCGCTCCTGCCTGGTCTGGGCTGTGTGTGGCGCCCTTCTCTTGTGTGT
TCCTCTGTGTCTGTGTGCGTCTTAAGCAATAAAGCGTGGCCGTGGCTCGCG

3558/5332
FIGURE 3111

CTGAGCGCCCTCCGCTCGCCCCGAGAGACCCGGCCATGAGGAGCCGCTGCTGGGAGCCGAGGGCCCGGACTA
CGACACCTTTCCCCGAGAAGCCGCCCGCTCGCCAGGGGACAGGGCGCGGGTCTGGGACCTGCAGAACAAAAGGGT
GTTCTGGCCACCTTCGCCGCAGTGCTCGGCAATTTTCAGCTTTGGGTATGCCCTGGTCTACACATCCCCTGTCA
CCCAGCCCTGGAGCGCTCCTTGGATCCTGACCTGCATCTGACCAAATCCCAGGCATCCTGGTTTTGGGTCCGTGTT
CACCCTGGGAGCAGCGGCCGGAGGCTGAGTGCCATGATCCTCAACGACCTCCTGGGCCGGAAGCTGAGCATCAT
GTTCTCAGCTGTGCCGTTCGCCGGCCGGCTATGCGCTCATGGCGGGTGCGACGGCCTCTGGATGCTGCTGCTCGG
AAGGACGCTGACGGGCTTCGCCGGGGGGCTCACAGCTGCCTGCATCCCGGTGTACGTGCTGAGATTGCTCCCC
AGGCGTTCGTGGGGCTCTGGGGGCCACACCCAGCTCATGGCAGTGTTTCGGATCCCTGTCCCTCTACGCCCTTGG
CCTCCTGCTGCCGTGGCGCTGGCTGGCTGTGGCCGGGAGGCGCCTGTGCTCATCATGATCCTGCTGCTCAGCTT
CATGCCCAACTCGCCGCGCTTCTGCTCTCTCGGGGAGGACGAAGAGGCCCTGCGGGCGCTGGCGCTGGCTGCG
TGGGACGGACGTCGATGTCCACTGGGAGTTTCGAGCAGATCCAGGACAACGTCCGGAGACAGAGCAGCCGAGTATC
GTGGGCTGAGGCACGGGCCCCACACGTGTGCCGGCCCATCACCCTGGCCTTGCTGATGCGCCTCCTGCAGCAGCT
GACGGGCATCACGCCCATCCTGGTCTACCTGCAGTCCATCTTCGACAGCACCGCTGTCTGCTGCCCCCAAGGA
CGACGCAGCCATCGTTGGGGCCGTGCGGCTCCTGTCCGTGCTGATCGCCGCCCTCACCATGGACCTCGCAGGCCG
CAAGGTGCTGCTCTTCGTCTCAGCGGCCATCATGTTTGCTGCCAACCTGACTCTGGGGCTGTACATCCACTTTGG
CCCCAGGCCTCTGAGCCCCAACAGCACTGCGGGCCTGGAAAGCGAGTCTGGGGGGACTTGGCGCAGCCCCCTGGC
AGCACCCGCTGGCTACCTCACCCTGGTGCCCTGTGTCGCCACCATGCTCTTCATCATGGGCTACGCCGTGGGCTG
GGTCCCATCACCTGGCTGCTCATGTCTGAGGTCTGCCCTGCGTGCCCGTGGCGTGGCCTCAGGGCTCTGCGT
GCTGGCCAGCTGGCTCACCGCCTTCGTCTCTACCAAGTCTTCTGCCAGTGGTGAGCACCTTCGGCCTCCAGGT
GCCTTTCTTTCTTCTTCGCGGCCATCTGCTTGGTGAGCCTGGTGTTACAGGCTGCTGTGTGCCCCGAGACCAAGGG
ACGGTCCCTGGAGCAGATCGAGTCCTTCTTCCGCATGGGGAGAAGGTCCTTCTTGCGCTAGGTCAAGGTCCCCGC
CTGGAGGGGGGCCAAACCCCCAGTGGCTGGGCCTCTGTGTTGGCTACAAACCTGCACCCTGGGACCAAGAGGCAGC
AGTCATCCCTGCCACCAGCCAGAGCACAGGAAGAGCAGTGATGGGGCCTCAGCAGCGGGTGGCCCTGGCTCGG
GACAGGTAGCACTGCTGTCCAGCCACAGCCCCAGCCAGGCAGCCACAGTGTGCACGTAGCCATGGGCCGAG
GAGTGATACAACCTGCATCCAGGGACACGGCCCTGCTGGGTGACCTCAGGCCTAGTCCCTTTCCCTTGCGTGA
AGGACACGCCCCACAGAAGGCTACGGGGAGGACTGAGAGGACAGGGCTGGAGGCAGCCAAGTAACGTAGTCATAT
CATCGCGCTCTGATCTGGTGGCATCTGGCTGTGCAAGGAAGACCCGGCTTTGCCCTCACAAGTCTTATGGGCACC
ACAGGGAACATCCTGGACTTAAAAAGCCAGGGCAGGCCGGGCACAGTGGCTCAGCCTGTAATCCCAGCACTTGTG
GGAGGCCAAAGCAGGTGGATTACCCAAGGCCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTC
TACTAAAAAATACAAAAAGCTGGGTGTGGTGGCACACCCGTAGTTCCAGCTACTTGGGAGGCTGAGGCAGCA
TTGCTTGAACCCGGGAGGTGGAGGCTGCAATGAGCTGAGATCATGCCATTGCACTCCAGCCTGGGCAACGAGAGT
GAAACTCCGTCCCCACCCCTGCCAAAAAAGCCAGGGCAAAGGACCTGGCGTGGCCACTTCTC
CCTGCCCCAGCCCAACCTCTGGGAACAGGCAGTCTCTATCTGCAAACTGTGTTACCCCTTTTGTAATAAAGG
AACTGGACCCGT

3559/5332
FIGURE 3112

GAGAAGTGTGGGCTACCCGGCCACTGCCCTGGAGCTGTGGTGACTGCTGCGTTTTTCTCCCATGCACTTGACAGT
CCAGGACTCCTGGGAGAACTTGGGGCCACACTCCTTCCTTGCCCTCTTGAGCTCATTTCGTACCCCTGTTGGGTGAG
CACAGCCCTAGCTCAGGCCACTGGGCAAGCCACACCATCCAAAGAGGAGGTCTCTGCCCCAGGACCCCCACACC
ACCCAGCTCCTTGTTTCGCTGAGGCCCTGGAGCCCCCATGGCCCTCACTGAGCCGAGCCCTACGTGTGGCTGCTGC
CCACCCTCGCCAGAGCCCTACCCGGGGCATGGGGCCATGCAACCTGTCCAGCGCAGCTGGCCCCACAGCCGAGAA
GAGTGTGCCATATCAGCGGACCCTGAAGGAGGGACAGGGCACCTCGGTGGTGGCCCAAGGCCCAAGCCGGCCCCCT
GCCCAGCACGGCCAACGTGGTGGTCATTGGTGGAGGCAGCTTGGGCTGCCAGACCCTGTACCACCTGGCCAAGCT
GGGCATGAGTGGGGCGGTGCTGCTGGAGCGGGAGCGGCTGACCTCCGGGACCACCTGGCACACGGCAGGCCTGCT
GTGGCAGCTGCGGCCAGTGACGTGGAGGTGGAGCTTCTGGCCACACTCGGCGGGTGGTGAGCCGGGAGCTGGA
GGAGGAGACGGGACTACACACGGGCTGGATCCAGAATGGGGCCCTTTCATCGCGTCCAACCGGCAGCGCTGGA
CGAGTACAAGAGGCTCATGTGCTGGGCAAGGCGTATGGTGTGGAATCCCATGTGCTGAGCCCGGCAGAGACAA
GACTCTGTACCCGCTGATGAATGTGGACGACCTCTACGGGACCCTGTATGTGCCGCACGACGGTACCATGGACCC
CGCTGGCACCTGTACCACCCTCGCCAGGGCAGCTTCTGCCCGAGGAGCACAGGTCAATTGAGAACTGCCAGTGAC
CGGCATTCTGTGTGGACGGATGATTTTGGGGTGGCGGGTGGCGGTGTGGAGACTCAGCATGGTTCCATCCA
GACACCCTGCGTGGTCAACTGTGCAGGAGTGTGGGCAAGTGCTGTGGGCCGGATGGCTGGAGTCAAGGTCCCGCT
GGTGGCCATGCACCATGCCTATGTCGTACCGAGCGCATCGAGGGGATTGAGAACATGCCCAATGTCCGTGATCA
TGATGCCTCTGTCTACCTCCGCCTCCAAGGGGATGCCTTGTCTGTGGGTGGCTATGAGGCCAACCCCATCTTTTG
GGAGGAGGTGTAGACAAGTTTGCCTTCGGCCTCTTTGACCTGGACTGGGAGGTGTTACCCAGCACATTGAAGG
CGCCATCAACAGGGTCCCCGTGCTGGAGAAGACAGGAATCAAGTCCACGGTCTGCGGCCCTGAATCCTTCACGCC
CGACCACAAGCCCTGATGGGGGAGGCACCTGAGCTCCGAGGGTCTTCTCTGGGCTGTGGCTTCAACAGCGCAGG
AATGATGCTGGGTGGTGGCTGTGGGCAGGAGCTGGCCCACTGGATCATCCATGGGCGCCCGGAGAAGGACATGCA
TGGCTATGACATCAGGCGCTTCCATCACTCGCTCACGGACCACCCCGCTGGATCCGAGAGCGAAGCCATGAGTC
CTACGCCAAGAACTACTCCGTGCTCTTCCCCACGATGAGCCGCTGGCCGGGCGCAACATGAGGAGAGACCCGCT
GCACGAGGAACTCCTTGGACAAGGCTGCGTGTTCAGGAGCGGCATGGCTGGGAGCGACCGGGATGGTTTCATCC
CCGAGGCCAGCTCCGGTCTTCGAGTACGACTACTACGGGGCTTACGGGAGCCGCGCGCACGAGGACTACGCCTA
CCGACGCTGCTGGCAGACGAGTACACCTTCGCCTTCCCGCCCCACACGACACGATCAAGAAGGAGTGCCTGGC
CTGCAGAGGGGCCCGGCTGTGTTTGACATGTCTACTTCGGGAAGTCTACCTGGTGGGGCTGGATGCAAGGAA
GGCTGCCGACTGGCTCTTCTCCGCAGATGTTCAGCCGACCCAGGCTCCACCGTGTACAGTGTCTCAACCA
CCGTGGGGGACCGAGAGTGACCTGACTGTACGCCGCTGGCACCCAGCCACCAGGCTTCCCCGCTGGCCCCCGC
CTTTGAAGGGGACGGTTACTACCTGGCCATGGGCGGGGCGGTGGCCAGCACAACTGGTCCCATACACCACGT
GCTGCAGGACCAGAAGTCCAGTGCCAGCTCATCGACAGCTCCGAGGACCTGGGTATGATCAGTATCCAGGGCCC
AGCCAGCCGAGCCATTTTGCAGGAGGTGCTGGACGACAGCTGAGCAACGAGGCCTTCCCGTTCTCCACCCACAA
GCTACTGAGAGCCGCAGGGCACCTGGTCCGAGCCATGCGGCTGTCTTTGTGGGGAGCTGGGCTGGGAGCTGCA
CATTCCAAAGGCGTCTGCGTGCCTGTGTACCGGGCTGTGATGGCCGCGGGTGCCAAGCACGGCCTCATCAACGC
AGGGTACCGCGCCATTGACTCCCTGAGCATTGAGAAAGGCTACCGGCACTGGCACGCGGACCTGCGGCCAGACGA
CAGCCCCCTGGAGGCAGGCCTGGCCTTACCTGCAAGCTCAAGTCCCGGTGCCCTTCTGGGGAGGGAGGCCCT
GGAGCAGCAGCGCCGAGGCCTCCGCCGCGCCTGGTGTGCTTACCATGGAGGACAAAGTACCCATGTTTGGC
CTGGAGGCCATCTGGAGGAACGGCCAGTGGTGGGCCATGTCCGAGGGCTGACTTTGGGTTCGCCATCGACAAG
ACCATCGCCTACGGTTACATCCATGACCCAGCGGTGGGCCGCTCTCGCTGGACTTTGTGAAGAGCGGGGACTAT
GCCCTGGAGAGAATGGGGGTGACCTATGGTGGCCAGGCTCACCTGAAGTCGCCCTTCGACCCCAACAACAAGAGG
GTGAAGGGAATCTACTGAGGGCTCAGACCACATGCCCCATCCCATGCTGTCCATCCATTCTCAGAGTCCCAAT
GGCCCTGGGTCCAGGACCCTGGACCCAGCCAGAACTTGTGCCCTCCCTGTCTTAGCCTAGGCCTAGTCTGCG
AAAACCCCAACCAGATACGGACAGAGACCAAGATGGCCCATCCTGTGGTCACTGACTGGAAGGCAGTCTCTAA
TCCACCCCAATCCTCCAGAAAGCAACCTGTAAGTGTCTTGGGCTCAGGGACCATGGCTGTAGCCCTTCCAA
GCTTCTAGAAGGTGCTTAGTAAATACTTGATAAGCCCCACGTG

3560/5332
FIGURE 3113

GGGCTCCCAGACATCACCTCTGCCCCGCCGCCACCTCCTCCAACCTCTCCCA'GCTCAGCCGGAGCCGGAGCGCGCAA
CAACCAAGTCCGAGACTGGAGGCAGATCGGGGGGAGGGGAGAAGCGCCAAGCGCGCTGCCCTCCCAGGGAACTC
ACTGCCGCCTACTCCCAGCCGGCCACAGTCACCAGCTCAAAATGGCGACGACGAGAAGGGAGTCGGCGCTCCGAC
CACCATCCACCTACTAAGGAAGCGCGCTCTGGCCGGCCCCGGCGATTGGTCACCGCCCGCTAGGGGACAGCCCTG
GCCTCCTCTGATTGGCAAGCGCTGGCCACCTCCCCACACCCCTTGCGAACGCTCCCCTAGTGGAGAAAAGGAGTA
GCTATTAGCCAATTTCGGCAGGGCCCGCTTTTTAGAAAGCTTGATTTCTTTGAAGATGAAAGACTAGCGGAAGCTC
TGCCTCTTTCCCCAGTGGGCGAGGGAACTCGGGGCGATTGGCTGGGAAGTGTATCCACCCAAATGTCACCGATT
CTTCTATGCAGGAAATGAGCAGACCCATCAATAAGAAATTTCTCAGCCTGGCCGAAAATGGTTGG'CCCCACGAA
GCCACGACAACTGGA'GCAAAGAGGGTTGCTCAACGCCCCGCCTCATTGGAAAACCAAATCAGATCTGGGACCTA
TATAGCGTGGCGGAGGCGGGGCGATGATTGTCGCGCTCGCACCCACTGCAGCTGCGCACAGTCGCATTTCTTTCC
CCGCCCCTGAGACCTGCAGCACCATCTGTCATGGCGGCTGGGCTGTTTGTTGAGCGCTCGCCGTCTTTTGGC
GGCAGCGGCGACGCGAGGGCTCCCCGGCCGCCCGCTCCGCTGGGAATCTAGCTTCTCCAGGACTGTGGTCGCCCC
GTCCGCTGTGGCGGGAAAGCGGCCCCCAGAACCGACCACACCGTGGCAAGAGGACCCAGAACCCGAGGACGAAAA
CTTGATGAGAAGAACCAGACTCCCATGGTTATGACAAGGACCCCGTTTGGACGTCTGGAACATGCGACTTGT
CTTCTTCTTTGGCGTCTCCATCATCTGGTCCTTGGCAGCACCTTTGTGGCCTATCTGCCTGACTACAGGTGCAC
AGGGTGTCCAAGAGCGTGGGATGGGATGAAAGAGTGGTCCCGCCGCAAGCTGAGAGGCTTGTGAAATACCGAGA
GGCCAATGGCCTTCCCATCATGGAATCCAAGTCTTCGACCCAGCAAGATCCAGCTGCCAGAGGATGAGTGACC
AGTTGCTAAGTGGGGCTCAAGAAGCACCGCCTTCCCCACCCCTGCCTGCCATTCTGACCTCTTCTCAGAGCACC
TAATTAAAGGGGCTGAAAGTCTG

3561/5332
FIGURE 3114A

CTTATTGATGGGCTGCTCATTTCCTGCATAGGAAGAAATCGGTGACATTTGGGTGGATACAGTTCCAGCCAAT
CGCCCCGAGTTCCCTCGCCCACTGGGGAAAGAGGCAGAGCTCCGCTAGTCTTTTCATCTTCAAAGGAAATCAAGC
TTCTAAAAAGCGGGCCCTGCCGAATTGGCTAATAGCTACTCCTTTTCTCCACTAGGGGAGCGTTGCAAGGGGTG
TGGGGAGGTGGCCAGCGCTTGCCAATCAGAGGAGGCCAGGGCTGTCCCTAGCGGGCGGTGACCAATCGCCGGGG
CCGGCCAGAGCGCGCTTCCTTAGTAGGTGGATGGTGGTCCGAGCGCCGACTCCCTTCTCGTCTGCTGCCATTTTGA
GCTGGTGAAGTGTGGCCGGCTGGGAGTAGGCGGCAGTGAGTTTCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCC
CTCCCCCGATCTGCCTCCAGTCTCGGACTTGGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAG
GAGGTGGCGGGCGGCAGAGGTGATGTCTGGGAGCCCTTCCTTGACAGCCCGGGCCGAGAAGAGTCCCTGCAGGAA
GCATCACCAGGCTGGCAGATCATGGTAGCAGCAGCGGGGTGGCTGGGAAGTGAAACGGAGCCAGCGGCTGAGG
AGGGCCCCCAGCAGCCCCCGAAGCCCCATCAGGACATGGAGATGAAAGACGTGGTGGTCTGTTGACAGGACT
GGCCGCTATGGAGCCACTGACCGCTCGCAGGATGATGGTGGGGAGAACCAGCCAGCCGAGACCAGACTACCGGGAC
ATGGACTACCGTTTCATATCTCGCGAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAG
CAGAGTGCAGGAGATTCTACGAGGCCTCCCCGGGCTCCGAGACTCAGCGTAGCGGGCGGGCGGGCAGGAC
AGCCCCACCGGGCCCGCCAGGCTTCCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCAGCAAGGGGAG
GAGGAGGAGGAGGAGGAGGATGAGGAGGAGGAGGAGAAGGCCAGTAACATCGTCATGCTGAGGATGCTGCCACAG
GCAGCCACTGAGGATGACATCCGTGGCCAGCTGCAGTCGCACGGCGTGCAAGCACGGGAGGTTCCGGCTGATGCGG
AACAAATCTTCAGGTGAGAGCCGGGGCTTCGCCTTCGTGCGAGTTTGTACTGTCAGGACGCTACACGATGGATG
GAAGCCAATCAGCACTCCCTCAACATCTGGGCCAGAAGGTGTGATGCACTACAGTGACCCCAAGCCCAAGATC
AATGAGGACTGGCTGTGCAATAAGTGTGGCGTCCAGAACTTCAAACGCCGAGAGAAGTGCTTCAATGTGGCGTG
CCCAAGTCAGAGGCAGAGCAGAAGCTGCCCCCTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGG
GAGCTGAGCCAGGGCTGCTTCCCCTGCGCGAGCCCTACCAGGCCAGGGAGTCTGGCCTCCCAAGCCCTGTCA
CAGGGCTCGGAGCCAAGCTCAGAGAACGCCAATGACACCATCATTTTGGCGAACCTGAACCCACACAGCACCATG
GATTCCATCCTGGGGGCGCTTGCCACCCTACGCGGTGCTGTCTCTCTCAACGTGCGCGTCATAAAGGACAAGCAG
ACCCAATGAACCGCGGCTTTGCCTTCATCCAGCTCTCCACCATCGTGGAGGCAGCCAGCTGCTGCAGATCCTG
CAGGCCCTGCACCCACCCTACTATCGACGGCAAGACCATCAATGTTGAGTTTGCCAAGGGTTCTAAGAGGGAC
ATGGCCTCCAATGAAGGCAGTCGCATCAGTGTGCTGCTGTGGCCAGCACTGCCATTGCTGCGGGCCAGTGGGCC
ATCTCAGAGGCTCCCAAGGTGGGAGGGTACCTGGGCCACCTCCGAGGAGCCGCGGTCGACTACAGCTACTAC
CAACAGGATGAGGGCTATGGCAACAGCCAGGGCAGAGTCTTCCCTCTATGCCCCATGGCTACCTCAAGGGCACC
AAGGGCCCTGGCATCACTGGAACCAAGGGGATCCCACTGGAGGAGTCCCGAGGCTCCCTAGGCTGGGGCC
GACTCTGTGTCGATGCAGGCTTTCTCTCGCGCCAGCCTGGTGCTGCTCTGCGCATCTACCAACAATCAGCCGAG
GCGAGCAGTAGCCAGGCACTGCTGCCAACAGCCAGTCTGATACCATCATGTACCCGCTGTGCTCAAATCTGAG
CTCCAGAGCCCTACCCATCTAGTTCTGCTCTCCACCGCTACCAGCCCCACTGCCAGGAATCTACAGCCAG
TACCCTGTTCCCGACGTCTCTACCTACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCAAGCCGCTC
TACTATGACCCCAACTCCAGTATTACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGG
ACCTATGTTCCCGCCCTGGAGCAGTCGGCCGACGACATAAGGAGACAGGGGCACCCTCGAAGGAGGGCAAAGAG
AAGAAGGAGAAGCACAAGACCAAGACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCCGAGTCTCAAC
AAACAAAAAGAAAATTCAAAAATAGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCC
ACTGCAGATGCTGGCTATGCCATCCTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTC
CCGAAATTGGCCAGTGACGACCGCCCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGT
GAGGAGGAGCAGGAGCGTGGGGGCCCTGAGCGGGAGGAGAAGCTACCCGACTGGCAGAAGCTGGCCTGTCTGCTC
TGCCGACGCCAGTTCCCCAGCAAAGAGGCGCTCATCCGGCACCAGCAGTCTCAGGGCTCCACAAGCAAAACCTT
GAGATTACCGGCGAGCCCACTTGTGAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAAATGAAG
TACCGGGACCGTGAGCTGAACGCAGAGAAAAGTATGGCATCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTAC
GGCGGCATATCCACAGCCTCTGTAGACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGT
CGGATGCTGCGAGGCACTGGGCTGGAAAGAGGGCAGCGGCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATC
GAGGCCCAAAACACGGGTGCGGGGCTCCGGCTGGGTGCACGGGCGAGTCTACGGGGTCACTCAACCGAGTCC
TACAAGGAGACACTGCACAAGACAATGGTGACCCGCTTCAACGAGGCCAGTGAGCAGCTTCAAGAGCAACTTCT
CCACATGTTGGGTGTCCATCCTGGGGCAGGGAAGGACAGAGTGTGGATGGCTGGGACGGGGCTTGTCTTGTCT

3562/5332

FIGURE 3114B

GGCCAGCCCACTCCCCAGCCAGAGAGGGCTTGACCAAATCAAATTGAGGTGGTGACTTTTGTTGGAAAATTGGGC
TGGGATCACGTCCTGTTTTGTAATAAAAGCTGAAAAGTCTGC

3563/5332
FIGURE 3115A

GTTCCGGCCCCAGGCTCAGCGTCCGCCATCTTGTGTCGGCGGCTCGGCTGTAAGGAGGTGGCAGGGACAACCACA
ACCACAACGGCCGGGGAGGAGAAGGGCGGCGCGGATTCTAGGCGGCCAGGCGGCGGGAGGAGAGAAGGA
GGAGGGTGGCGGCGGGCTTGGCTTCGGCTCCTTGAGGAGTTGGCGGCGGCGGACCCGGGGAACCGGCATTGAT
GTCCAGCTCGCCGTGTCCAAGAAACGTGCGGTGTCCGGGCTGATCCAAGCCGGGTTCTAACTGCTCCCCTGC
CCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACGGAATGGCCAAGAACGGCAGTGAAGCAGACATAGA
CGAGGGCCTTTACTCCCGGCAGCTGTATGTGTGGGCCATGAGGCAATGAAGCGGCTCCAGACATCCAGTGTCTT
GGTATCAGGCCTGCGGGGCTGGGCGTGGAGATCGCTAAGAACATCATCCTTGGTGGGGTCAAGGCTGTTACCCT
ACATGACCAGGGCACTGCCAGTGGGCTGATCTTTCTCCAGTTCTACCTGCGGGAGGAGGACATCGGTAAAAA
CCGGGCGGAGGTATCACAGCCCCGCTCGCTGAGCTCAACAGCTATGTGCCTGTCACTGCCTACACTGGACCCCT
CGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGTCTACCAACACCCCCCTGGAGGACCAGCTGCGAGTGGG
TGAGTTCTGTACAACCGTGGCATCAAGCTGGTGGTGGCAGACACGCGGGGCTGTTTGGGCAGCTCTTCTGTGA
CTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGCAGCCACTCAGTGTCTATGGTTTCTATGGTTACCA
GGACAACCCCGTGTGTTTACCTGCCTGGATGAGGCGGACACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTC
AGAAGTACAGGGCATGGTTGAACCTAACGGAAATCAGCCCATGGAGATCAAAGTCTGGGTCTTATACCTTTAG
CATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAGGCATCGTCAGTCAGGTCAAAGTACCTAAGAAGAT
TAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACTTTGTGGTGACGGAATTCGCCAAGTTTCTCGCCC
TGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCTGTGCTCAGCATGGCCGGCCACCTCGGCCCCGCAA
TGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTGTGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAA
TAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGGCTGTGGGGATCTGGCACCCATAAACGCTTCAT
TGGGGGCTGGCTGCCAGGAAGTCATGAAGGCTGTCTCCGGGAAGTTTCATGCCATCATGCAGTGGCTATACTT
TGATGCCCTTGAGTGTCTCCTGAGGACAAAGAGGTCTCACAGAGGACAAGTGCCTCCAGCGCCAGAACCGTTA
TGACGGGCAAGTGCTGTGTTTGGCTCAGACCTGCAAGAGAAGCTGGGCAAGCAGAAGTATTTCTGGTGGGTGC
GGGGGCCATTGGCTGTGAGCTGTCTAAGAACCTTTGCCATGATTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCAT
CGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATCGACAGTTTCTTTTCCGGCCCTGGGATGTACAGAA
GTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGAATCCACATATCCGGGTGACAAGCCACCAGAACC
TGTGGGTCTGACACGGAGCGCATCTATGATGACGATTTTTTCCAAAACCTAGATGGCGTGGCCAATGCCCTGGA
CAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCTACTACCGGAAGCCACTGCTGGAGTCAGGCACACT
GGGCACCAAGGCAATGTGCAGGTGGTGATCCCTTCTTGACAGAGTCGTACAGTTCCAGCCAGGACCCACCTGA
GAAGTCCATCCCATCTGTACCCTGAAGAACTTCCCTAATGCCATCGAGCACACCTGCGAGTGGGCTCGGGATGA
GTTTGAGGCTCTTCAAGCAGCCAGCAGAAAATGTCAACCAGTACCTCACAGACCCCAAGTTTGTGGAGCGAAC
ACTGCGGCTGGCAGGCACTCAGCCCTGGAGGTGCTGGAGGCTGTGCAGCGCAGCCTGGTGTGCAGCGACCACA
GACCTGGGCTGACTGCGTGACCTGGGCTGCCACCAGTGGCACACCCAGTACTCGAACAACATCCGGCAGCTGCT
GCACAACCTCCCTCTGACCAGCTCACAAGCTCAGGAGCGCCGTTCTGGTCTGGGCCCCAACGCTGTCCACACCC
GCTCACCTTTGATGTCAACAATCCCTGCACTCTGGACTATGTGATGGCTGCTGCCAACCTGTTTGCCCAGACCTA
CGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACATTCTGTCAGTCTGTGCAGGTCCCCGAATTCACCC
CAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGCAGAGCGCAATGCCTCTGTTGATGACAGTCGTCT
AGAGGAGCTCAAAGCCACTCTGCCAGCCAGACAAGCTCCCTGGATTCAAGATGTACCCCATGACTTTGAGAA
GGATGATGACAGCAACTTTTCATATGGATTTTCATCGTGGCTGCATCCAACCTCCGGGCAGAAAATATGACATTCC
TTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGATCATCCAGCCATTGCCACGACCACAGCAGCCGT
GGTTGGCCTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGGGGACCGACAGCTTGACTCCTACAAGAATGGTTT
CCTCAACTTGGCCCTGCCTTTCTTGGTTTCTCTGAACCCCTTGCCGCACCACGTCACCAGTACTATAACCAAGA
GTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGCCTAATGGTGAGGAGATGACCCCTCAAACAGTTCCT
CGACTATTTAAGACAGAGCACAAATTAGAGATCACCATGCTGTCCAGGGCGTGTCCATGCTCTATTCTCTCTT
CATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGATGACAGAGATTGTGAGCCGTGTGTGCAAGCGAAA
GCTGGGCGGCCACGTGCGGGCGCTGGTGCTTGAGCTGTGTGTAACGACGAGAGCGGCGAGGATGTGAGGTTCC
CTATGTCGATACACCATCCGCTGACCCCGTCTGCTCCTTAGGCTGGCCCTTGTCCACCCCTCTCCACACCCC
TTCCAGCCAGGGTTCCCATTTGGCTTCTGGCAGTGGCCCAACTAGCCAAGTCTGGTGTCCCTCATATCCCC
TACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTTTGAACCTGAATCCTAATAAAGAATTAATAACTCCAC

3564/5332
FIGURE 3115B

ATCGCCTGCCCTGCTGGTTCCAGGGAAGGAAGGGACTTCCTGGA

3565/5332
FIGURE 3116

GGAGGGGGCAGTTGGGCGGGGATAGGCCGTCTCTAGCTAAGGTGGTAAAGGCCAATAACTCTTCAGGCTGCCTCTC
CTCGAAAAGTCATCTTCTCGCGAACCTTTAAAAATGCCTTCCCTCCCCAAGCACCTCAAGGGACTAGAACTGAGTGC
TTCATTTGTCTTTTTTCTCTCTTGCAAAAGTCCCGTTTGCCACCATGGGGATGTACCAAGTGAGACCGAGTAGGG
GGAACGAGTGGTGATTGACGCGCCAGGTTACTGGCCACTGCTCACCTAGGCGCTAGCAAACCTTCTGCCAAGATCG
GAACTGAGTACTAAACAGCCTCCACAGTTCTCCCTGGTGCCGTCTCCGGCTTGCGCCGCATCCTCCTCTGGGCT
CGCGATGGCCGCGTCCCCCTCCCGCTGCGGACGGGTCTTTGGTACATGCAGTCCGAGATCGCCATGGATCGGATG
AAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGTGGCCGAGGCATAGACAAGACCAATGGTGCCCTGAG
CAGATAGGCCTGGATGAGAGTGGTGGTGGTGGCGGACGTGACCCTGGAGAGGCCCCACACGTGCTGCTCTGGG
GAACTTCGTCTGACAGGGGCCCACTCAGCTCTGCACAGAGATTGTGCACGAGGACTTGAAGATGGGGTCTGAT
GGGGAGAGTGACCAAGCTTCAGCCAGCTCCTCGGATGAGGTGCAGTCTCCAGTGAGAGTGCCTATGCGCAACCAT
CCCCACGCAAGATCTCCACTGAGGACATCAACAAGCGCCTATCACTACCAGCTGACATCCGGCTGCCTGAGGGC
TACCTGGAGAAGCTGACCCTCAATAGCCCCATCTTTGACAAGCCCCCTCAGCCGCCGCTCCGTCTGTGTCAGCCTA
TCTGAGATTGGCTTTGGGAAACTGGAGACCTACATTAAGCTGGACAAACTGGGCGAGGGTACCTATGCCACCCTC
TACAAAGGCAAAAGCAAGCTCAGACACAACCTTGTGGCACTCAAGGAGATCAGACTGGAACATGAAGAGGGGGCA
CCCTGCACCGCCATCCGGGAAGTGTCCCTGCTCAAGGACCTCAAACACGCCAACATCGTTACGCTACATGACATT
ATCCACACGGAGAAGTCCCTCACCCTTGTCTTTGAGTACCTGGACAAGGACCTGAAGCAGTACCTGGATGACTGT
GGGAACATCATCAACATGCACAACGTGAAACTGTTCTGTTCAGCTGCTCCGTGGCTGGCCTACTGCCACCGG
CAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGAGAGGGGAGAGCTCAAGCTGGCTGAC
TTTGGCTGGCCCCGAGCCAAGTCAATCCCAACAAGACATACTCCAATGAGGTGGTGACACTGTGGTACCGGCCC
CCTGACATCCTGCTTGGGTCCACGGAATACTCCACTCAGATTGACATGTGGGGTGTGGGCTGCATCTTCTATGAG
ATGGCCACAGGCCGCTCCCTCTTTCCGGGCTCCACGGTGGAGGAACAGCTACACTTCATCTTCCGTATCTTAGGA
ACCCCAACTGAGGAGACGTGGCCAGGCATCCTGTCCAACGAGGAGTTCAAGACATACAACCTACCCCAAGTACCGA
GCCGAGGCCCTTTTGGCCACGCACCCCGACTTGATAGCGACGGGGCCGACCTCCTCACCAAGCTGTTGCAGTTT
GAGGGTCGAAATCGGATCTCCGAGAGGATGCCATGAAACATCCATTCTTCTCAGTCTGGGGGAGCGGATCCAC
AACTTCCTGACACTACTTCCATATTTGCACTAAAGGAGATTAGCTACAAAAGGAGGCCAGCCTTCGGTCTTCG
TCGATGCCTGACTCAGGCAGGCCAGCTTTCCGCGTGGTGACACCGAGTTCTAAGCCACAGACCGAGCCCCAGC
AGGCAGCGGCTGGAGGGATGCCACACCCCTCAGAGGGCAGCCCCCACTACATCTTCCCTGCTTACTCTCTGCCT
ACCTGCCTGAGCCATGTTCACTGCCCCACTTGTCCCTGCTGCCTGCCCAACACCCCAACCCATTGGCCTGTCAAC
CCACCCATTGGCCTGTCTGCTGGGTGCTAACAAAGCTCTCATCACTCCTTCACTTGGTCTGTCTGTCTCTCTT
GGTAGTTGCCGGTGGACAGCATGGCCGTGCCAGCCTCCACACTGAGGCCAGGTCTACCCCATCATACAGCC
CCCAGGACCACTACCCACGCCAGCCAGGGGTCCAGAGCTAGCCAGGCTGGGGATCTCGACTCAGACAAGATG
GTGACAATGCCTTGAGTCTGAGGCATCCTCTGCCTGCTTTCTGCTGCCCCACCTGCCTCATATTGTGTGGGCC
TTTTTTTGTGTTTTCATTCTGTTTTTTTTTTTTTAATTATTTTAAATGAGATTTTTGTTTTTTTTTAAATGCA
ATATCTCTGTATACAGACTGGCTGGGCCCCACCCCTGCGTGTGGCCCTCCACAGTATTTTGTGCAATGAAGCC
CTGCTCCAGCCTTTTCAAGACAGGGACACAGCCCTATTGGAACCCTGATCATCACCAGACCCTGGGATTGGC
TATGGGAAAGCATGCCACAGCCACTCGCCTTCTACCCCGCCCGCCATCCCACTGTCAGGGGGATCTGGGGAC
TACCAGAGACTCTGGGAAATGACAAGGTGGGGGGCCCCACTCTTCTCTCTGCACTCCCGTAGCTGGGGCCTC
CTTCTTCTCAGGGTCTCCCAAGCCAGTCCCTTGTCTCCATCCCACTCGGTGCTGTTGGGTAGGGGCCCTGCC
AGGAACTGACCAGCTCAGCGAGGAGCCATAATGTGCATATGTGCACAAGCAGGGTGGGGGAGGGGGGTGTGAGG
GGTTGTGCCCAGGTGTTGCCCCCTATCTCTGGGGAGGGTGAGGCAGGGCAGGGACAGTCTCCAGGGTCACTCCC
TGGATGGGTGGTTACCTCCCTTCTCCACCCTAAGCCCTGGGGCCCTGAAATGGGGTGGGAGGGCAGGGGTGGG
AGCCCTCCTAGTGGGTTTGGGGGGTGGGTTCTGAATGCACCATAATCGCTGTATGAAATATTTAAAGTCTAA
AGTG

3566/5332
FIGURE 3117

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGGACTGGTGG
AAGCGGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCAACATCCAGAAGGTGCAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTTGGGCAAATCTCACACTGTTTCAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAAGTCTAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCAGAAAGATGGCACTTGGCCCAGCGCACAGCTGCATGTCATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAAGTCTGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACACTGCTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCATGTCAGAGCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCCATGTGTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCAATCCTCCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTCCACTGCCTATCAGCCACAAGAGGGTCTTGGAGGTCTTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACC GGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTGAG
GTGCGATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTTCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACCTCTACTACGGCCTGATGCTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCTGTATAACGTCCTGATGTACCGGCTCTCACGCTACGTGACCAAAACCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGACGCC
TCCGAGACCCTGAGCCAGAGCAGGCTGGGCCAGCTCTGGAGTCACGAACAGGTGCCCCGTTCTCTCTGGACAATG
GCCTTGGCACATCTCAGTGGCCCCCAAGCGACGACGCAAGCAGCTGTTACCCCTGCAGACGGTGAACCTCCAATG
GGACCAGCGACCGCACAACTCCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTCCGGGTACGTGATGAAGA
AGGCTCCCGTGCGGCTGCAGGAGTGCATTGAGCTCTTCAACACTGTGGAGACCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTCTGCAAGCAGCACCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTATCCAGCCACAGAATGAGTGAATCCGGAGCTGTACAAATATGACCTCATCG
CGTTTCCAACCATATGGGGGCATGCGTGATGGACACTACACAACATTTGCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCTGTGTCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTCATGGATGTTAATTGAGAGCCCTGGGTCTGCCACAGAAAAAAAAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCTGTGTTAGGTGCCCCGCCAGGCAT
TGCAGGCTTAGTGTGGCTACTGTTCTCTGTGCGGCTGCATCGCTCTCTCCGGGAAAGAACAGGTGCTGTCTC
CTCCTAGCAGTGCGCGCCCCGCTGTGTTGCCCTTCCAGCAGTGACCCCTCCCTTCTAGTCTTTATTTATGGTGC
TGCCCTTCCCTCTCTCAGCCAGAGTGTCTGCGTGGGTGGTGTATGAGGGGTTACCTGAACACAGAGTGTATTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC

3567/5332
FIGURE 3118

AGCTTCCAGCTTGGGGAAGAGTGGGGTTGTCTCAGCAGGAGAGCCTGAGGGCTGAGGCCAGCGTGAACATGGCAGC
TAATGGGGACTCTCCCCATGGTCCCCGGCCCTGGCTGCAGAGGGACGTGGCAGCTCATGTGAGGTGAGGAGGGA
GAGGACCCCAGAGGCAAGAATTCATTTCAGTGAAGAGATACCCTGACCTGTCCCCAGGGCCTAAGGGCAGAAGCAG
TGCTGACCATGCTGCCCTTGAACAGCATTGTGTCTTACAGGCTTCAGTGTCAATTTGAGGACGTGACTGTGGACTT
CAGCAAGGAGGAGTGGCAGCACTTGGACCCTGCCCAGAGACGCCTGTACTGGGATGTGACACTAGAGAACTACAG
CCACCTGCTCTCAGTGGGGTACCAAATTCCTCAAGTCAGAGGCTGCCCTCAAGTTGGAGCAAGGAGAGGGGCCATG
GATGCTGGAGGGGGAAGCCCCACATCAGAGCTGTTCAAGTGAGGCTATTGGGAAAATGCAGCAACAGGGAATTCC
TGGAGGAATTTTCTTCCACTGTGAGAGATTTGATCAACCCATAGGAGAAGATTCATTATGTTCTATTTTGAAGA
ACTGTGGCAAGATAATGACCAGCTAGAGCAACGTCAGGAAAACCAGAATAACCTTTTAAGTCATGTGAAAGTATT
GATTAAGGAGAGGGGCTATGAACATAAAAACATTGAAAAAATAATTCATGTGACTACCAAGCTTTCCTTCAAT
TAAAAGACTCCATAACTGTGACACAATTTTGAAGCATACTTTAAACTCACATAATCATAATAGAAACAGTGCAAC
AAAGAACCTTGGCAAGATTTTGGAAATGGTAAACAATTTCCCCCATAGCCCTTCTCTACTAAGAATGAGAATGC
TAAAACAGGAGCAAATTCCTGTGAACATGACCCTATGAAAAACATCTCAGCCACAAACAAGCTCCCACCCACCA
TCAGAAAATTCCTCTGAGGAGAAGCTTTATGTGTGTAATGTGTAATGGGCTTCACTCAGAAGTCACATCT
GTTTGAGCATCAGAGAATTCATGCTGGAGAAAAGTCCCGTGAATGTGACAAAAGCAACAAAGTCTTCCCCAGAA
ACCCAGGTTGATGTACATCCAAGTGTATACAGGAGAAAAACCTATCTGTGTAATCAATGTGGGAAAGTCTT
TACCCTCAAATCAAACCTCATTACACATCAAAAAATTCATACCGGGCAGAAACCTTACAAATGCAGTGAATGTGG
AAAAGCCTTTTTCCAGAGATCAGACCTCTTTAGACATCTGAGAATTCATACAGGAGAAAAACCTTATGAATGCAG
TGAATGTGGAAAAGGCTTCTCCAGAACTCAGACCTCAGTATACATCAGAAAACCTACACCGGAGAGAAACACTA
TGAATGCAATGAATGTGGGAAGGCTTTCACAAGAAAATCAGCACTCAGGATGCATCAGAGAATCCACACGGGAGA
GAAACCTTATGTATGCGCTGACTGTGGGAAGGCTTCATCCAGAAATCACATTTCAACACACATCAGAGAATTC
TACTGGAGAAAAGCCGTATGAATGCAGTACTGTGGGAAATCCTTCACTAAGAAGTCACAACCTCCATGTGCATCA
AAGAATTCACACCGGAGAGAAAACCTATATATGTACAGAATGTGGAAAGGTCTTCACTCAGGACAAACCTCAC
CACACATCAGAAAACCTCATACTGGGGAACCTATATGTGTGCTGAATGTGGAAAGGCTTTTACTGACAGTC
AAATCTCATTAAACACCAGAAAACCTCACACTGGAGAGAAACCTATAAGTGCAATGGCTGTGGAAAAGCCTTCAT
ATGGAAGTCGCGCCTCAAATAACATCAGAAATCTCATATTGGAGAGAGACACTATGAATGCAAGGACTGCGGGAA
AGCCTTCATCCAGAAATCAACACTAAGCGTGCATCAGAGAATCCATACAGGAGAGAAACCGTACGTTGTCTGA
ATGCGGGAAGGCTTTATCCAGAAATCGCACTTCATTGCGCATCATAGAATCCATACTGGAGAGAAGCCTTATGA
ATGCAGCGACTGTGGGAAATGCTTCACTAAGAAGTCACAACCTCCGTGTGCATCAGAAAATCCACACAGGTGAGAA
GCCCAATATATGTGCTGAATGTGGAAAGGCTTCACTGACCGATCAAATCTCATAACACATCAGAAAATCCACAC
TAGGGAGAAACCTATGAATGTGGTACTGCGGGAAAACCTTACCTGGAAGTCACGCCTCAATATACATCAGAA
GTCTCATACTGGAGAAAGACACTATGAATGTAGTAAATGTGGGAAAGCTTTCATCCAGAAAGCCACACTAAGTAT
GCATCAGATAATTCATACAGGAAAGAAACCTTATGCTTGTACAGAATGTCAGAAGGCCTTTACTGACAGATCGAA
TCTCATTAAACACCAGAAAATGCATAGTGGAGAAAAACGCTATAAAGCCAGTGACTGAGAAAGTCTTCACCTGGA
AATCACAACCTGGGTATGCATCAGGTATCTAATAGCAGGGAGGAGGAAGGCTGTTGC

3568/5332
FIGURE 3119

TGGCGGCGGGGGCGAGGTGAGATGTTGGCAGTGGAAAGGGGTTCTGGGCTCGGGGGCGGGGGGACGCGGAGCGAT
GGCCCGCGGGCCGCGAGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGGGCGGGAGGGAGAGGGGTTGTCCGA
GGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGCTGCACGCGCTGCTCTGTCTGCACCGCAC
GCTCACCTCCTGGCTCCGCGTTTCGGTTTCGGCACCTGGAACTGGATCTGGCGGCGCTGCTGCCGAGCCGCTCTGC
CGCGGTCTTAGCGCCGCTCGGCTTCACGCTCCGCAAGCCCCGGCAGTCGGCAGGAACCGCCGTCACCACCGGCA
CCCCGCGGGGGGTCGTGCCGTCGAGCCGCACACCACCGGATGCGCTGGCGCGCGGACGGTCGTTTCCTTGAGAA
GCTGCCTGTGCATATGGGCTGGTGATCACCGAGGTGGAGCAGGAACCCAGCTTCTCGGACATCGCGAGCCTCGT
GGTGTGGTGTATGGCCGTGGGCATCTCCTACATTAGCGTCTACGACCACCAAGGTATTTTCAAAGAAATAATTC
CAGATTGATGGATGAAATTTTAAACAACAGCAAGAACTTCTGGGCCTAGATTGTTCAAATACTCACCAGAATT
TGCAAATAGTAATGACAAAGACGATCAAGTTTTAAATTGCCATTTGGCAGTGAAGGTGCTGTCTCCGGAAGATGG
AAAAGCAGATATTGTAAGAGCTGCTCAGGACTTTTGGCAGTTAGTGGCCAGAAGCAAAAGAGACCCACAGATTT
GGATGTAGATACGTTAGGCAGTTTACTTAGTTCAAATGGTTGCTCCTGATCCTGATTTAGTATTGAAGTTCGGTCC
TGTGGACAGCACATTAGGCTTTCTTCCCTGGCACATCAGATTGACTGAGATTGTCTCTTTGCCTTCCCACTAAA
CATCAGTTATGAGGACTTTTCTCTGCCCTTCGTCAATATGCAGCCTGTGAACAGCGTCTGGGAAAGTAGTGGTC
ATTGGTTGCGTAATTTGATTGAGGCTTGTGGAGGAAAGGACCCAAGTACTCTGATGTTTACAAAGCACCTATG
AAACCCTGTACACACCTGGTTCATAATCCTCATAATTTATCAACAACACAAAAAGTGTCTTACTTGAGAGTGA
GTGTGTGTGTGTGGGTGTGCACGTGCACACATGTGCACGTTTGTATGCATGGAAATAAACTTATAAATGGGGACG
TATTGGAGAAGGAAATACATAGACCTACAACCTTTGAGCAAATAGCAGTGTATTTTAGGAACTGAAATGTCACAC
TTAAAGTCTTCAGCCAGCTACTTCCCTATTTTGTGGGGAGAAGAGGGCCTGATTAGAACTGTTCTGGTTGTGT
TTGGCGGGAGGGGAATAATTTTGTTCAGTCCTTCTTAGTGACCAAACCTTAATTTTAAAGAATAATATATTGAC
TACTGAACCTGAAGCATTCTGAGTTGAAAGGAGCTCCAGAGGAGTGGAGTTCTGTGTTGCTCACATGTTAAATC
TTGCTCACCTTCAGAGCAGAGGGAATACCTATCTTCAGATATCCGTCCATTTTCATCTCTTAATTGTAGTCAAAA
GTATGACTTGAGAGTGTTGCTCTGGTATTCTGGGTCTGAAGTCTGGTATTCTGGTATTCTGGGTTCAAAAGTAT
GACTTGAGAGTGTTGCTCTGGTATTCTGAGAGTTGCTCTGTATTCTGGGTCTGAAGATTATTTGAAAAATAACT
CCTACTACATTGAAATGCAGACTTTTAAAAATTTAAACATTGGATTAGGCAGTCAAAAAAACCAGCAAGCATAA
AAGGTCAATAAGTTGTAATCTTGATAGTAAAGGTGGAAAACCTATTATAAATGGAAAGAAAGTTTGGTTTCCTT
TTTGTGTGATGGGCAGTATGCCATATTATACCCAAAGTTCTTTTAAAAAATATTTCCATCAACCATTTTATTT
AAAATAAACATTTGAGGGAAGTTACCAAGGCAGCTTTTTCCTCAAAGTAACCTGTTCTCTTTGGAATAGCAC
ATTTTAGGGGCATGGTTAATACCTGAGATTTTACTCAGTAAATCCTGATGGTTACTGTGTGTAAATATCTTTA
AGTAGGATTGAAGGCCTCTGTGGGGAATAAAATATTACCAAAGTCTATAAAATAAATTTTACATGTTCTCTTT
TATGACAGAGAGCAGCACTGGTTCTGTTATTTTAAAAATGAATAATTGATTCTTGATAGGTGTTAATATTTCT
TCCCTCACTGCTGATTCTTAGATAGAAACCATTTTATATTTGATAGACTGTTTTAGAAAACCTTATCAACA
AGTGTAACAATACTTATCTAAAACTATACATTTAGAATGGAGCAGTTTAACTAGATCTCAGAAGTTTGAAGAAA
TAGCAAAGAAGACTGGATTTGGAAAGCATGGTCTACAATTGGTTGTTAAATCTGAAGCTATGAAGAATAAATGT
TTCAACTTTGGATTATGAAACCCCATTTATGATTTTTTAAATACACTTGAATAAAAAATGATTAACT

3569/5332
FIGURE 3120

TGACCCAATAAGGGTGAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGGCCCAAGATGGAGACGGCGGCGGCTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCTGAGCAGAGAAGGAAGTGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTCTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTTCTGTCTGCCTTCTTGTAGGAGCCCCATGGCA
CCTGCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGA
GCTCATTGTGCGAGGTCTTGAAGATGTCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCTCTCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCAGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCAGCCCCCGACCCAGCACTGTGACCCGGAGCACTTCCCTTCCCTGCCCCAGCCAATGCCCCCT
ACAGCGCATCCGCTCCAGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGGTTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCGGGGGAG
CCCCAGCCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGCGAGCGGAA
GTCTTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGTCTGTAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCAGCCCACAGCTGAGCAGGCCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTGGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCCGGCAGACTGCCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGCCCAGCCCTTGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCTTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGGTGCCGTGACCAGATTATCTTTATGGTGGGCCGTGGCTATCTGTCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCCTTCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCTCCTTGACCCGACCCAGGCGCATGAGTTGCCTGCCTGCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGCCCAACAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCATTCCCCACCCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTGGTTTCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCCTGATGTGCCTTCCACTGGATTTTGGGGTCCAGCACCCTATGTGGATTTTGG
GGGGTCCCTTTTGTGTCTCCCCGCCATTCAAGGACTCCTCTCTTCTTACCAAGAAGCACAGAATTCTGCTGG

3570/5332
FIGURE 3121

GGGCGCGACCATCTGCGCTGCGGCGCCGGCGACTCAGCGCTGCCTCAGTCTGCGGTGGGCAGCGGAGGAGTCGTG
TCGTGCCTGAGAGCGCAGCTGTGCTCCTGGGCACCGCGCAGTCCGCCCCCGCGGCTCCTGGCCAGACCACCCCTA
GGACCCCTGCCCCAAGTCGCAGCCATGA¹ACTACCTGCGGCGCCGCTGTGCGACAGCAACTTTATGGCCAATCT
GCCAAATGGGTACATGACAGACCTGCAGCGTCCGAGCCGCCCCACCGCCGCCGGTGGCCACAGCCCCGGAGC
CACGCCCGGTCCC²GGGACCGCCACTGCCGAGAGGTCTCCGGGGTCGCCCCAGCGGCTCTCCGGCCGCCCTAG
CCCCGGGTCTCGGGGGGCGGTGGCTTCTTCTCGTCTGTCCAACGCGGTCAAGCAGACCACGGCGGCGGCGAGC
TGCCACCTTCAGCGAGCAGGTGGGCGGCGGCTCTGGGGCGCAGGCCGCGGGGAGCCGCCTCCAGGGTGTCTGCT
GGTCATCGACGAGCCGCACACCGACTGGGCAAAATACTTCAAAGGGAAAAAGATCCATGGAGAAATTGACATTAA
AGTAGAACAGGCCGAATTCTCTGATCTCAACCTTGTGGCCCATGCCAATGGTGGATTCTCTGTGGATATGGAAGT
TCTTCGGAATGGGGTGAAGTCTGTGCGGTCTCTGAAGCCGATTTTGTGCTGATCCGCCAGCACGCCTTCAGCAT
GGCAGCAACGGAGACTACCGCAGTTTGGTCATTGGGCTGCGAGTATGCTGGAATCCCCAGTGTTAACTCCTTGCA
TTCTGTCTACAACCTTCTGTGACAAGCCCTGGGTGTTGCCAGATGGTTCGACTGCATAAGAAACTGGGGACAGA
AGAATTCCCTCTAATTGATCAGACCTTCTACCCCAATCACAAGAAATGCTCAGCAGTACAACGTACCCCGTGGT
TGTGAAGATGGGGACGCACACTCTGGGATGGGCAAGGTCAAGGTTGACAACCAGCATGACTTCCAGGCATCGC
AAGTGTCTGTGGCACTGACCAAGACGTATGCCACTGCCGAGCCCTTCATCGATGCCAAATATGACGTGCGTGTCCA
GAAGATTGGGCAGAACTACAAGGCCTACATGAGGACGTAGTGTGAGGAACTGGAAGACCAATACTGGCTCTGC
GATGCTGGAGCAAATTGCCATGTCTGACAGATAACAAGCTGTGGGTGGACACGTGCTCAGAGATTTTTGGGGGACT
GGACATCTGCGCAGTGAAGCGCTACATGGCAAGGACGGAAGGGATCACATCATTGAGGTGGTGGGTTCTCCAT
GCCGCTCATTGGTGACCACCAGGATGAAGACAAACAGCTCATCGTAGAGCTCGTGGTCAACAAGATGGCTCAGGC
CCTGCCCCGGCAGCGACAGCGGATGCCTCCCCTGGCAGGGGCTCCCATGGCCAGACTCCGTCCCCAGGGGCCCT
GCCCTTGGGCGGCCAGACCTCCAGCAGCCCGCAGGGCCCCCGGCTCAGCAGCGACCCCCACCACAGGGCGGCCC
TCCACAGCCGGGTCCAGGCCCCAGCGCCAGGGACCCCCATTGCAGCAGCGCCCGCCCCCGCAGGGCCAGCAGCA
CCTTTAGGCCCTTGGACCCCCAGCTGGCAGCCCCCTGCCCCAGCGCTTCCAAGTCCCACCTCAGCGCCCCAGCA
GCCCGGTCCCAGGCCGCGCCGCGCCGACCCAGGGTCAAGGCCGCAATCCCGGCCAGTGGCGGGAGGCCCCGGGGC
GCCTCCAGCAGCCCGCCCGCCGCTCTCCGTCTCCCCAGCGCCAGGCGGGCCCCCACAGGCTACCCGTACAGC
ATCCGTCTCTGGCCCGGCTCCGCCAAAGGCTCTGGGGCCCCACCGGGCGGGCAGCAGCGCCAGGGCCCCGCCCA
GAAACCCCCAGGCCAGCCGGCCCCACACGCCAGGCCAGCCAGGCGGGTCCCGTGCCCCGCACTGGGCCACCCAC
CACGCAGCAGCCTCGGCCAGCGGCCCGGGCCCCGCTGGACGTCCCAAACCAAGCTGGGCCAGAAACCCAGCCA
GGACGTGCCGCCACCCGCCACCGCGCTGCAGGGGACCTCCGCACCCCCAGCTCAAAGCCAGCCCCGCCAGGC
CCAGCCTTAGCCAGGACGAGGTGAAAGCTGAGACCATCCGCAGCCTGAGGAAGTCTTTCCGCCAGCCTCTTCTCCG
ACTGATACCCCACTCTGAGAACCCCAAAATCCCTGGGCAACCTTCTCTGGGCCCTGAATCCATTCTCACTTTT
GGAGTCTCCAAATCCCTTGAGAACCCATCTCCCGTTCTCCAAGATTCCACCTCTCATTCTCAAGATCCCCGAG
TACCTTGAGAAACCTGACTCCTCCTGGCCCTAAATCCGGTTCTCACATGTGGAATCCCCAAGTCTTTTAGAACC
CCACTCGTGGTCACTTCAGGATCTACTTCTGTTTTAGAACCTCCACATTCTGAAGACCTCCGCCCTGGTTTTCC
CCAGAGGGCGTTTTCTTCTGGAAGTGCCCAAATACCAGGCAACCCATTGCAGAATCCCTTCTGGAGCCCTGA
AGTTCCTGGA³AAACCTATTTTGGTCCCAATCTCTCCAGCACACCTATTTCCCATCATAATTTTCCAAATCCT
CAAGAAACCCCTACTGTTGAGCCCCCTCCCATGGATCTTCCATCCCTCTGAAGATCCACATCTTCAAATGCCACC
CAACACCTAGCCCCACAAGATTTCCCTTCACCAGTCCCCCTCAACCTCATTCAATACCTTGGGAGCCCCCTCCA
CTTCCAGGACCCCTCGGTTCCCCCAGGGACCCCTCCCCAGTTTCTGCTCTGACAGCTGTCTTTAAATATGCA
AACTCCACCCATCTTCCCAAGATCCTTTGCACACGGAAGGCCAGTGGTCTCCGCTTCCCCACCTTTGCTGTGGTG
TCTGTGTCTGTGACTGACGTGGCCTCCTTTTGTGCGGTGCTTGGCATATGTGGTCTCTGTTTATCGTGCCGCTG
TGGTGATGCGTGCAGTGACGCTGTTTATGTGGTCCGCACCTCCCCCTGACCTTCACTCCTTGCCTGGACTCACCC
CACCCCTCAGCGGCTCTGAACCCCAAGAGAAGAGTCGGGAAACAAAATAAACAAGCAAAGGCCAGC

3571/5332
FIGURE 3122

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AAACTGCAGGATGGACTCTTGACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTTCCCTGTTTATCCATCCCCTGC
AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCCGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTTCGGACAATGAAATAA
AGAGTTACCACCCAGC

3572/5332
FIGURE 3123

ACATTGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCTATGGAGCCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTTACCCTGAGGTGCGAGGGTGCTCCACTGAGG
ACTGCCCCCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCTGTGCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGTGCAGGAATGGCAGGCCAGGCGGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCCTCGGCCTGTGTGGTGTCTCCCAAGTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCTCGGGGAGCAGGA
GCACCAAGTCCAAGCCCCCTTGGAGGCTGTCTGGAGGCTGAAGAGCGCGGTTTGCCTCTGCAGGTATCTTGACCC
CGCCCGAGGCCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTGGCCCCAGAA
TGAAAGTAGAAGGGCCCCAAGGAAGAGTTGGAAGTTGCGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTTATGGACACCGCAGGGCAGGCCG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGTAGGTGGGCGGGACCCGAACGGACCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGC
CTCCTAGCATTCACTTCTGGAGCACCTGAGTCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGTGCTCTCCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAATCTCATTATCTCCTCCACAGAAAACACACAGCTTCCACAACCTTCTGTCTT
TCTGTGAGTCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTGTTTATTATTCTGGCCATACT
CAGGGGTCCAGGAAGAATTTGTACCATTTAATGGGTGGGAGTCTTGGCCAAGGAAGAATCACACCCTTGGAAATA
GAAATTTCCACCTCCCCAACCTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCTCTCCAA
TGGAGGGTTTTTTTGGGGGGTGGTCCCCGCTGCGGGGGCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCGTGCCATTTTGATAGTATAATCTATTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCATCTCTCCT
ATATTTGGTGGGGTGGGTGGGAAGGAAGGATTTGGGGGGAATCTTCTGCGCCTCCCCACTCCAAGTGTTT
ATTTTTGATACCAACATGAATTTTCAAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGGACATAAAGCCTGTCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCCAGCCAGGCCTTGGGACCTGGGGGTTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTGTTTACTTCCCCAAATGGACCTTTTTTTTTTCTAA
AGAGTCCCAGAGAATGGGGAATTGTTCTGTAAATATATTTTTTCAAAGTGA

3573/5332
FIGURE 3124

GGGTCTCAGCAGCTCGGGTGGCGGGAGGAGTGGCAGCGGCCAGGCAGCCCAGTTTCGCGAAGGCTCTCGGCGCGC
CGCAGCCCGCAGGCACCCGGCACACACCCTCCCTGCCACCAGGATGCCCAAGAGGAAGGTGAGCTCCACCAAAGG
GGCCGCCAAGGAAGAGCCCAAGAGGAGATCGGCGCGGTTGTCAGCTAAACCTCCTGCAAAAGTGAAGTGAAGCC
AAAAAAGGCAGCAGCGAAGGATAAATCTTCAGACAAAAAGTGCAAAACAAAAGGGAAAAGGAGAGCAAAAGGGAAA
ACAGGCCGAAGTGGCTAACCAGAACTAAAGAAGATTACCTGCAGTAAACAGGGAACGAAAACGAGGAGAG
TCCAGCCTCTGATGAAGCAGGAGAGAAAGAAGCCAAGTCTGATTAAATACCATATACCATGTCTTATCAGTGGTCC
CTGTCTCCCTTCTTGTACAATCCAGAGGAATATTTTTATCAACTATTTTGTAAATGCAAGTTTTTTAGTAGCTCT
AGAAACATTTTTAAGAAGGAGGGAATCCACCTCATCCCACTTTTTAAGTGTAAATGCTTTTTTTAAGAGGTGAA
ATCATTGCTGGTTGTTTATTTTTTGGTACAACCAGAAAATAGTGTGGGATATTGAATTATGGGAGGCTCTGACT
GTCTCGGGTGTGAGCTTAACATTCCATAGATGGGGGGGTAGTTTTTATATCCTATAATAACAAAGCATATTAAAT
GGCAATATGGAGTCAGTCCTGCATTTAATGTCTTGAACATTTTAAATTACTTCTATTCCCATGTTGTTTTTTAGT
AGAATTGTTTCCTAAAGAAAACCACTCTTTGATCATGGCTCTCCCTGTCAGAATTGTGTGCACTCTGTAACATCT
TTGGTTGTGGTTTTCTAATCACTTGGTTACTGTGCTGTGAAAGATTACAAATTGAACATGTAGTGTACGTGCT
ATTCAGTTGTGAAGTGGTGGGCGTATGTAACAGCTGACCAACATGTGAAGATACTGGTACTTGATAGCCTCTTA
AGGAAAATTTGCTTCCAAATTTAAGCTGGAAAGTCACTGGAATAACTTTAAAAAAGAATTACAATACATGGCTT
TTTAGAATTTGTTATGTATGTTAAGATTTGTGTACAAATTGAAATGTCTGTACTGATCCTCAACCAATAAAATC
TCA

3574/5332
FIGURE 3125

GGTGACTGGCCCAGCCGACCCGCGTCTCCCGCCTTCTCCGCAGCCCCGAGGCCCCGGGCCCTGTCATTCCCAGC
GCTGCCCTGTCTTTCGTTCCAGTGTTCAGCTTCTGCGAGATGACCCTCAAGGCGAGCGAGGGCGAGAGTGGGGG
CAGCATGCACACGGCGCTCTCCGACCTCTACCTGGAGCATTGCTGCAGAAGCGTAGTCGGCCAGAGGCTGTATC
GCATCCATTGAATACTGTGACCGAGGACATGTACACCAACGGGTCTCCTGCCCCAGGTAGCCCTGCCCAGGTCAA
GGGACAGGAGGTGCGGAAAGTGCGACTCATAAGTTTGAAGGTACAGAAGAGCCCATGGGAATCACGCTGAA
GCTGAATGAAAAACAGTCCCTGTACGGTGGCCAGAATTCTTCATGGTGGCATGATCCATAGACAAGGCTCCCTTCA
CGTGGGGGATGAGATCCTAGAAATCAATGGCACAAATGTGACAAATCATTAGTGGATCAGCTGCAGAAGGCGAT
GAAAGAAACCAAGGAATGATCTCATTAAAGTAATCCCAACCAGCAAAGCCGCTCTCCTGCACTACAGATGTT
CATGAGAGCGCAGTTTGACTATGATCCCAAAAGGACAATCTGATCCCTTGCAAGGAGGCGGGACTGAAGTTTGC
TACTGGGGACATTATCCAGATTATCAACAAGGATGACAGCAATTGGTGGCAGGGACGGGTGGAAGGCTCCTCCAA
GGAGTCAGCAGGATTGATCCCTTCCCCTGAGCTGCAGGAATGGCGAGTGGCAAGTATGGCTCAGTCAGCTCCTAG
CGAAGCCCCGAGCTGCAGTCCCTTTGGGAAGAAGAAGATACAAAGACAAATATCTGGCCAAGCACAGCTCGAT
TTTTGATCAGTTGGATGTTGTTTCTACGAGGAAGTTCGTTCCGCTCCCTGCATTCAAGAGGAAGACCCTGGTGTCT
GATCGGAGCCAGTGGGGTGGGTGCGAGCCACATTAAGAATGCCCTGCTCAGCCAGAATCCGGGAGAAGTTTGTGTA
CCCTGTCCCATATACAACACGGCCGCCAAGGAAGAGTGAGGAAGATGGGAAGGAGTACCACTTTATCTCAACGGA
GGAGATGACGAGGAACATCTCTGCCAATGAGTTCTTGAGTTTGGCAGCTACCAAGGCAACATGTTTGGCACCAA
ATTTGAAACAGTGCACCAGATCCATAAGCAGAACAAGATTGCCATCCTTGACATTGAGCCCCAGACCCTGAAAAAT
TGTTCCGACAGCAGAACTTTCCGCTTTTCAATTGTGTTTATTGCACCTACTGACCAGGGCACTCAGACAGAAGCCCT
GCAGCAGCTGCAGAAGGACTCTGAGGCCATCCGAGCCAGTACGCTCACTACTTTGACCTCTCACTGGTCAATAA
TGGTGTGATGAAACCCTTAAGAAATTACAAGAAGCCTTCGACCAAGCGTGCAGTTCTCCACAGTGGGTGCCTGT
CTCCTGGGTTTACTAAGCTTGTAGAAATGGGGGAACCCACTGTATGCCCTCTCCAGCATTGGAATTCACCCGC
CTTGCTTTAAGACAAACAGGGCTGCTCCAAGTAGTTTTGTGTGACGTTCCAGCTCTCTGCAGCTATCCTAATTCA
GCCAGTAAGGTTGAGTCTTCTTGCTCAGGCTCCTGAAGGGTTGATTCTCCTGATAGATGGGGCCCCACTGATCTG
GATTTGAAAAGGATTTCTAGAAATTGGGGTAAGAAGTACTACCAAAATGTAAGTGAATCAAGGGTGAATGCAC
AGCAAAAGCAATGAGCCCCATCCCTCTAAAGCCTGCCCTCCTTTGCCTTCAACTGTATATGCTGGGTATTTTATT
TGCTTTTTTATTTGGAGAAAGCGTTTTTAACTGCAACTTTCTATAATGCCAAATGACACATCTGTGCAATAGA
ATGATGTCTGCTCTAGGGAAACCTTCAAAAGCAATAAAAAATGCTGTGTG

3575/5332
FIGURE 3126

AGCAGCGCGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACCGGGCGGCACGCA
CGCGGTGCAGGGTAACATGCGGGATGCGGAAGTAATTATTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGAA
GTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTGC
TAAGTTGGACACGTCTCAGTGGCCCTTTTGCTAAAGAATTTGATAAGCTGAATGTAAGGACAACACACTATAC
ACCTCTTGCACTGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTGA
CAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTTCGACGGATACTTCGGGTGGAGAAGACAGGGCA
CAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGTC
ACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGACCCAGCTTTC
TAGGGCCCTAGAACTCTGACAGGTGCCCTTATCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCGAGCTCCG
AGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTGGGTGAGTTG
TGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGGA
GCTTCGGAGGGTTCTGTTCTGGAGTCATGAGTGAAGAGGACCATGTTGACAATGCATGATGTGCTTGATGCTCA
GTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACATC
TCATAAAGCGGTGTTATGAAAGAAGTGCAGGTAAATGCCATCTGCTATGGGGCCAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCAATTAATGACCACAGCGGTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAGAGGTGGTTGCTGAAGTGGTAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
CTGTTTGAAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGCTTAACATC
GTAGTCTAGTTTGCATTTTTTAAATCCCTCTGTTTAAAGGTTTGTAAACAAAAACAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTCCATCTTGTCTGCGCTAGA
GGTCAGTCTTTGCACTTCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTGTTTTAGGCCTCGTTTACTTTTAAAAAATGAATTTGTTTATTGCTGGGAGAAGAATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTAAAGTTTTTATGTATTCCGTGGGTTTTCTTGTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTG

3576/5332
FIGURE 3127A

CCCAGCTGGAGGAAGCGGCGGGCGGCCACGATGAGTGCGGGCGACGACAGTGTGCACCGGCTGGCTCGTTAAGT
CGCCCCCGAGAGGAAGCTACAGCGCTACGCCTGGCGCAAGCGCTGGTTTGTCTCCGGCGAGGCCGATGAGCG
GCAACCCCGATGTCTTGGAGTACTACAGGAACAAGCACTCCAGCAAGCCCATCCGGGTGATAGACCTCAGCGAGT
GTGCAGTGTGGAAGCATGTGGGCCCCAGCTTTGTTTCGGAAGGAATTCAGAATAATTCGTGTTCATTGTCAAGA
CTACTTCCCGTACATTCTACCTGGTGGCCAAAACCTGAGCAAGAAATGCAGGTGTGGGTGCACAGCATCAGTCAGG
TCTGCAACCTTGGCCACCTGGAGGATGGTGCAGATTCCATGGAGAGCCTCTCTTACACGCCCTCCTCCCTGCAGC
CATCCTCTGCCAGCTCCCTTCTTACCGCCCATGCTGCCAGCTCCTCTTTGCCAAGAGATGACCCAAACACTAATG
CCGTAGCCACTGAGGAAAACAGAAGTGAGTCAGAGCTTCTCTTCTTCCAGATTATCTGGTTTTGTCCAACCTGCG
AGACTGGAAGACTGCACCATACCACTACCCACCAGATGTGATAGCTGGTCAAACCTCAGACCGTTTATTGGAAC
AGGCTTCATTTGATGATGTTTTTGTGACTGCCTGCAGCCGCTCCCTCCAGTCATTTGGTCCACCCCTCATGCC
ATGGCAGTGGAGCTCAGGAGGTGCCATCCTCGAGGCCTCAGGCTGCCCTGATCTGGAGTAGAGAAATCAATGGGC
CACCCAGGGACCACTTGTCTTCTTACCATTGCTGGAAAGTTCCCTAAGTTCCACCATTAGGTAGATAAAAATC
AAGTTTCTTACCCTGTGGAGCAAAAGAACTAGACATTATGTCCAACACTCCACCTCCCCGCCCCCTAAGCCAA
GCCATCTGTCTGAACGGCGCCAAGAGGAGTGGAGTACACACAGTGGTAGCAAGAAGCCAGAATGCACCTCTGGTTC
CAAGAAGAATCTCCCTCTCTGGTTTAGACAACATGAGAACCCTGGAAAGCTGATGTAGAAGGCCAATCCTTAAGAC
ACCGAGACAAGCGGCTTAGTTTTGAATTTGCCATGCAGGTTCTCCCCGATGTACCCACAGCTTCAGCCAGTATCG
AAGACAGCTATGTGCCCATGAGCCCCAGGCTGGTGCCTCTGGTCTTGGACCCCACTGCAGCCCTGATGACTACA
TTCCAATGAACCTCAGGAAGCATCTCAAGCCCGTTGCCTGAGCTGCCTGCAAACCTGGAACCTCCCCAGTGAATA
GAGATCTCAAGCCTCAGAGGAAATCACGGCCACCTCCTCTGGACCTGAGAAACCTCTCGATCATCCGGGAACATG
CATCTCTTACCAGGACCCGCACTGTGCCTTGCACTCGAACAGCTTTCTCTCTCCAGAAAGAAATGGTATTAATT
CTGCAAGATTTTTTGCTAATCTGTCTTCCAGAGAAGACGAAGAAAGCTACATCGAAATGGAGGAGCACCGAACAG
CCAGTTCCCTGAGCAGTGGTGCCTTACGTGGACAAAGAAATTCAGCCTAGATTATTTGGCCCTGGACTTCAATT
CAGCATCACCAGCCCCCATGCAGCAGAACTTCTCCTTTCCAGAAACAAAGAGTAGACTATGTCCAAGTGGATG
AGCAGAAGACACAGGCTCTCCAGAGCACAAAACAGGAGTGGACGGATGAAAGGCAATCCAAAGTATGAGAGGTGC
GGGCTTGTGCCATGTGTGAAACAGGGAAGCTTGGGGCTCAGTTTGAATTTTTCTTTTTTTTTTTTTTTGTCCA
CTAAAAACACACTGATGGTCAACACAGGTCAAAAACCAAGAGAGAATGTGTAGTTTTCAAGGTCTTGGCCAGAACC
TTTAGGAAAGAGACCTGTTTATACATTGAAGGAAGAAAAGAAGGAAGCAGTTGCCTTCCGGAGGGGGCTCTGAG
AGAATCTAGCCTCCCTCTGTCTATTGGAGCAAAGATTGGAGTGAGTGTTGCCACCAACAGGATTTTATCGTTT
GACTCCAATACCTGAAATTCTGACTTCTCTCTGTGCTTCAATGAGAATGATAAATTATCCTAGCAAAGGGGCT
CTGGAGACCATCTTGTTCAGCCTCTGAAGACAGTTGAGGAGATCAAGCCCAGCAATGGTGGCAGAATCTTACTC
CACAGACTTCAGCAGACTAGTCATTTCAATACCCAAAGAAAGCAAGTGACAGGGGCAATGATCTCAGGCTCTG
AGATAAGTATATCAGATGACACTGGTGGCTCTAAGGATATTGCAATTAAGCAGCTACCTGTAGCCAGGTATTCTG
CTGCTCTTGGCCCTTTTCCACGCATCGTCTCGTGTCTTCTCCGAAAGACCTTGAAGATAGGCCTGGAAGAGACT
GTTGATGCCACTTTGAAGAAAAGAACACTGAGAACTAGAGGAGGGAACTTTTGCCCAAGATTACTCACAAAGCC
AAGACCCAGAGTCCAGCTTAGAGAATAGAGTTGTTTCCAGGCTGCCAATTGCAAGCTCATTCTCTACCTCATACTT
CCTCTGAGGATTTTGACAAAATGGATTAATTGGGTGAGCCTTGGAGACATGTGGGAAACACCTGCAGACACAAA
TGAGTAGTCATCTGTCTCCCTTTCAATAGGGATCTGAACAGGTGTTTGTACTTGAAGATGTGCATGTCAAG
TGAGGGTTTTCTTCTGCGATGTTCAACTGGAACCTCTCCATCAGTAGTTACAATTAGAAATACCTACTGATGGTT
AGTCTGAAGGCCATTCTCATGGTCACCTATACAGTGTGTTTCCCTGTGAGCTAGCAGACACAATGACCAGGAAAA
AACCTATGAATCCATTCTTAGGTTTCCAGCCAATTGCTCCCTTCTGCTTTAGAAGTGACTAGGTACTGAGAGT
ACAAACACTCCCACTTTATAATGAAGGCGTCATGTCACCCCTTCTTTACAGGTCTGGGGTCCAGGAGACCCAG
AATGAAGGTGTCAGTTGGGCATGAAGTGTATTTAGTGTCCATTCTTGATCCTTCTGAGCACCTACAGCTGGAAA
CTAAGCAGATACTGGTCTGCACTTCTGACTGAGATTGTGTCTTCTTATGAGGATAGATCAAATTGGCAGTCAGG
CCCATGATAGTCAGTGCAGTTGGGGCAGTTGTAGACTTTTGCTACAGGATTTTCCAGGGTTTCCAAACACCCACAGG
TAAGTGAATGCCAAAGTCTTCTTTTTTTCAGACCATAACAAGAGTCATTTTGATTTTTCAAAGAAGCCGTTTTGATT
TTCAAAGAAGCAGGTTCTGGTGACATTATTTCTTCTTGGACAAAGTGGGGGGAAATTTCTAAGTATTTTAACT
GAGTTTCAAGGTCCTTAGTGAGCCTGGACAGAGCAAGGAGAGGGGCTCCCACTCCCTAAGCCCCACAGCCAGCTCT
GCATCACCACACACAGCCAGAGCCTGTGAGGAGCTGCCTTCTTCCCATGTGACTTGCAAAGAGTCTCAGGCAAG

3577/5332
FIGURE 3127B

AAACCAGGGCTTCAAACCTGCTAGTTCCCATGGAGGGTAGTTCCCTCGTGTGGAGCACTTGTGTTAGGATCACTGA
TTATCTGACAAAGGCTGGTGCAGAAAAAAATTGTAGGCCCAAGTGTCAAGAACCACACCAGATTGGAGATAGAA
AAGAATAGCTGAAATTATGTCAGTGGTGAAATGTCACCTCCATTGACCCACCGAAAAAGAAAAGAAATCTGTTTC
TACCAAACATTTCCAGAAACGTATTTATAGCATGAAGAAACACACATGGGTTAGTGTGACCTGTTTGGATGTGATT
ACTTAAAAATGGAATGCTCTGAATAGGCACTCTCTACATTAAAGGTATGGAAGGCGATAGGGGTCAGAATTTTAA
AAATTTAATTTTGAAAAAGGTGACTCACCCCTCATTTCAGAGTGTAGGCAATTATGTCCTGCTTTGATAAACT
GCTAGAGGATGGCTATGCAAAAGCATAACGATTCAAGGAAACAAAGTACAGGTAGTTTTTGAGCTGACAGCAGCA
AAGGCACCATAAGTCAAAATATTGGTTTTGGTGGAGATGATCGATGTGTGTGTGTGAGAGAGAGCTATGTTTCTA
ACCAAGGGCCTAATGTTTGTACAGAAATGATCCAGAGACCTACAAGATGTGGGAATCAGCATAACAGGGCAAT
GCAGCAATTAACCCACATCGTTTTCTGTAGTTCCTTTTTGTTTCATTTTCTTCTGTCTCACCTCGTTAGAAAAT
TCCTCCCAGTCAGGGGTCGTCCAGTGCAGGACGGGGGACCCAAGGGTCTCAAGCCTGCAAGTCCAGAAGGTGACA
AACCCAGGAGCACTGGGAGTTAAGCTTTCCTTGGGGAGGGAAGAGCCTTGATGTCCAGCACACAGCCTGGCTATA
AAGACACGAAGCGACCTACCCACTGTACAGTCCACTTCACAGGATCAGCTGAATCATGACCTTTAAAGTTCCGA
GTTGAAACTGAAGGCTCTCCTCAGACCTGGCTTTTTCTCAGTCCCTGTTTCATACCATCTCTGCACCCACAATCA
CACTGATTTTTCAAATTCATTTTGTGTTTTGCTGTTTCATTTCTGGCATTAAATAAAAGTCTTATAAGG

3578/5332
FIGURE 3128

CATGGCCCTTGTGATCCAGGTGGGGAAACTAAGGCCCAGAGAAGTGAGGACCCCGCAGACTATCAATCCCAGTCT
CTTCCCCTCACTCCCTGTGAAGCTCTCCAGCATCATCGAGGTCCCATCAGCCCTTGCCCTGTTGGATGAATAGGC
ACCTCTGGAAGAGCCAACCTGTGTGAGATGGTGCAGCCCAGTGGTGGCCCGGCAGCAGATCAGGACGTACTGGGCG
AAGAGTCTCCTCTGGGGAAGCCAGCCATGCTGCACCTGCCTTCAGAACAGGGCGCTCCTGAGACCCCTCCAGCGCT
GCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAGATTCTGCGGGAGCGCTGCGAGGAGC
TTCTGCATTTCCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCTCATGTGCAAGTTCCAGGAGGCCAGGAAACTGG
TGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGGCAGAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGA
AGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCCTCTGTGAAAGCCCAGGTGACGTCCTTGCTCGGGGAGCTGC
AGGAGAGCCAGAGTCGCTTGGAGGCTGCCACTAAGGAATGCCAGGCTCTGGAGGGTCGGGCCCGGGCCGAGCG
AGCAGGGCGGGCAGCTGGAGAGTGAGCGCGAGGCGCTGCAGCAGCAGCACAGCGTGCAGGTGGACCAGCTGCGCA
TGCAGGGCCAGAGCGTGGAGGCCGCGCTCCGCATGGAGCGCCAGGCGCCCTCGGAGGAGAAGAGGAAGCTGGCCC
AGTTGCAGGTGGCCTATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCAGTGAGC
GGAAGCGAGGAATGCAGCTGGAAGATCTCAAACAGCAGCTCCAGCAGGCCGAGGAGGCCCTGGTGGCCAAACAGG
AGGTGATCGATAAGCTGAAGGAGGAGGCCGAGCAGCACAAAGATTGTGATGGAGACCGTTCCGGTGCTGAAGGCCC
AGGCGGATATCTACAAGCGGACTTCCAGGCTGAGAGGCAGGCCCGGGAGAAGCTGGCCGAGAAGAAGGAGCTCC
TGCAGGAGCAGCTGGAGCAGCTGCAGAGGGAGTACAGCAAACCTGAAGGCCAGCTGTGAGGAGTCGGCCAGGATCG
AGGACATGAGGAAGCGGCATGTGAGGTCTCCAGGCCCCCTTGCCCCCGCCCCCTGCCTACCTCTCCTCTCCCC
TGGCCCTGCCCAGCCAGAGGAGGAGCCCCCCCCGAGGAGCCACCTGACTTCTGCTGTCCCAAGTGCCAGTATCAGG
CCCCTGATATGGACACCCTGCAGATACATGTCATGGAGTGCATTGAGTAGGGCCGGCCAGTGCAAGGCCACTGCC
TGCCGAGGACGTGCCCCGGGACCGTGCAGTCTGCGCTTTCCTCTCCCGCTGCCTAGCCCAGGATGAAGGGCTGGG
TGGCCACAACCTGGGATGCCACCTGGAGCCCCACCCAGGAGCTGGCCGCGGCACCTTACGCTTCAGCTGTTGATCC
GCTGGTCCCCCTCTTTTGGGGTAGATGCGGCCCGATCAGGCCTGACTCGCTGCTCTTTTGTTCCTTCTGTCTG
CTCGAACCATTGCTCGGGCTAATCCCTCCCTCTTCCTCCACCCGGCACTGGGGAAGTCAAGAATGGGGCCTGG
GGCTCTCAGGGAGAAGTCTTCCCCTGGCAGAGCTGGGTGGCAGCTCTTCCTCCCACCGGACACCGACCCGCCCCG
CTGCTGTGCCCTGGGAGTGCTGCCCTCTTACCATGCACACGGGTGCTCTCCTTTGGGCTGCATGCTATTCCATT
TTGCAGCCAGACCGATGTGTATTTAACCAGTCACTATTGATGGACATTGGGTGTTTCCCATCTTTTGTATTACC
ATAAATAATGGCATAGT

3579/5332
FIGURE 3129

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGGAGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCCGCCGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGGCCGCCCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCCGCCCGCACAGGGG
GTGGTGGCCGAGGCCCGCCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCCGCCCGCCCCC
GCCGATTAAATGGGCCGCGGGGCTCAGCCCCCGAAACGGTTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCAATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCTTCCATCAGTCGGATACACACATATTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCGAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCGCAACTCCTATGTGGCTGGCCAGTACGATGCAGCCCTC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTCACAGGCCAACCGCCTCTTCTACCTGGCCTTG
ATCGTGGAGACCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGTGAGATTTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTTCGCGGGGGCTATTTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAAATGTGGTCTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAGGGTACCTGGACGACCCACGGTGGCCCGGGTCCACCACCGCCACTTTTGACCGCTCGTCTC
TATGTGAGAATGAGAGGTGGGATGGGGTGGCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGACGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCTCCTTCCCGCGCCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCCTGGCCCCGGGCTCTGGCCACCCTGGCCCGCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCTCCTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCCTTGTCACAGCAAC
ATCTCGAGCCCCCTGGATGTCCCTGTCCCACCAACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

3580/5332
FIGURE 3130

AACCACATCTTCGTCCCAGCCCCGAGGCTCCTGTGGGCAAGATCGTGAGCCAACGGGTTCTTGAGGCCCTCCT
GGCCAGGCAGGGTTTCCCCGCGCGTTTCCGAGGAGCCCTGCCTGGCCGGGCGGCTGGACAAACAGGTCGTAGCAC
CGATCGCGCCCCGCCCCAGCAGGGGTCCCGCACAGGCTTGCCCTGACCCCCACCCAAACCTGTCCTTCCGCTTT
GCCCCAAACAGTGCACTTGCCGGCGGTCCCAACCCAGCAGGAGAAGTGGACATGAGGTTGGCAGGCCCTCTCCG
CATTGTGGTCCTAGTCGTCACTGTGGGTGTACATGGATCGTGGTCAGCATCCTCCTGGGTGGGCCTGGCAGTGG
CTTCTCTCGCATCCAGCAACTCTTCACCAAGTCCAGAGAGCTCGGTGACTGCAGCGCCACGGGCCAGGAAGTACAA
GTGTGGCCTGCCCCAGCCGTGTCTTGAGGAGCACCTGGCCTTCCGCGTGGTCAGCGGGGCCGCCAACGTCATTGG
GCCCCAAGATCTGCCTCGAGGACAAGATGCTGATGAGCAGCGTCAAGGACAACGTGGGCCGCGGGCTGAACATCGC
CCTGGTGAACGGGGTCAGCGGCGAGCTCATCGAGGCCCGGGCCTTTGACATGTGGGCCGGAGATGTCAACGACCT
GTTGAAGTTTATTTCGGCCACTGCACGAAGGCACCCTGGTGTTCGTGGCATCCTACGACGACCCAGCCACCAAGAT
GAATGAAGAGACCAGAAAGCTCTTCAGTGAGCTGGGCAGCAGGAACGCCAAGGAGCTGGCCTTCCGGGACAGCTG
GGTGTTCGCGGGGCCAAGGGTGTGCAGAACAAGAGCCCCCTTTGAGCAGCACGTGAAGAACAGTAAGCACAGCAA
CAAGTACGAAGGCTGCCCCGAGGCGCTGGAGATGGAAGGCTGTATCCCGCGGAGAAGCACGGCCAGCTAGCACGG
CCAGTGCCAGGACCGGGCCGAGGGAGGCCAGACCAAGGGAGGCACGCGGCTGCCGGGCGGACAGAGGCTGAGGC
TCACACCCACACCCGGGCAGGAGCGCTCCCTGGCCCCAACACATCGGGGCTCCGAGGCAGTGACCAGAACGTGG
TCTCAAGGTGGTGGGGCTATGGGGGCTGCAGGGGGTAGCCCTGCCGCACTTTGTACGGGAGCCCAGGGTACCC
GCCTCCTTTTCGTAACACTGTTCCCCCGGTGAGCCCATCTAGCCCTGTCTCCATTCTCAGCCATCTCCATC
CCCATCTTGAGTCCTGGAACGGCCCTGGGTGCCTGCCCCCTACTGTGCATCTCTGGGAGCAGCCCCGGCAGGTTGG
GGCGTCTTCCAGAACCTCTCCCTTCTGGAGCCACTCTGCACTGCGGGCTAAACATGTTTCCAGTGTGATTCTTC
CAGTGAGCCAAACCCGGTGGCTGCTTCATGAGCCTGACTGCCTCTCGCCTGCTCTCAGCAGGAAGGGACCCCTGG
AGCAGGCTGGCCCGGGGTGGTGAAGTAGCTGGAGCCCGATCACAGTCCCGCGGTTTGTGAGGGGGCCACCTTCT
AGATGACCCCTTAATAAAGTGATGGCCCCAC

3581/5332
FIGURE 3131

ATGCAGCTGACGGTGAAGGCGCTGCAGGGCCGCGAGTGCAGCCTGCAGGTGCCAGAGGACGAGCTGGTGTCCACG
CTGAAGCAGCTGGTCTCCGAGAAGCTGAACGTCCCAGTGCGCCAGCAGCGGCTGCTGTTCAAGGGCAAGGCCCTG
GCAGATGGGAAACGACTCTCGGATTATAGCATCGGGCCCAACTCCAAGCTCAACCTAGTGGTCAAACCCCTGGAG
AAGGTGCTACTAGAAGAAGGCGAGGCCAGAGGCTGGCCGACTCCCCACCCCGCAGGTCTGGCAGCTGATCTCC
AAAGTCTTGGCCCGCCACTTCAGTGCGGCAGATGCCAGCAGGGTCCTGGAACAGCTACAGAGGGATTACGAGAGG
TCCCTGAGTCGCCTGACGCTGGACGACATCGAACGGTTGGCCAGCCGCTTCCTGCACCCTGAAGTGAAGTGAAGACA
ATGGAGAAGGGCTTCTCCAAATAG

3582/5332
FIGURE 3132

CGGGACGCGGATGCAGACGCAGGCGGAGGCGCTGACGGCGGGGATGGCCGGGGTGGCCACAGCTGCCGCGGGGGC
GTGGACACAGCCGCAGCTCCGGCCGGTGGAGCTCCCCAGCGCACGCGCCAGGTCCGGGCAGAGACGCCGCGTCT
GCGCCAGGGGGTCACGAATGCGGCCGCACATATTCACCCTCAGCGTGCCCTTCCCGACCCCTTGGAGGCGGAAA
TCGCCCATGGGTCCCTGGCACCAGATGCCGAGCCCCACCAAAGGGTGGTTGGGAAGGATCTCACAGTGAGTGGCA
GGATCCTGGTCGTCCGCTGGAAAGCTGAAGACTGTGCGCTGCTCCGAATTTCCGTCATCAACTTCTTGACCAGC
TTTCCCTGGTGGTGCAGGACCATGCAGCGCTTTGGGCCCCCGTTTCCCGCTAAGCCTGGCCTGGGCAAATGGAGC
GAGGTCCCACTTTGCGTCTCCTTGTAGGCAGTGCGTCCATCCTTCCCTAGGGCAGGAATCCCACAGTTGCTACT
TTCTGGGAGGGCCTCATGTTTTATCTGGTTCTTAAATGTTTGTACTACAGAAAATAAACTG

3583/5332
FIGURE 3133A

AGTGTGTGGGCGGCGGCGGCGGCGGCTGCGCGCTTGGGGCCCCGGGGCGCGGGGCGAGGCCGTGGGGACGTGCGAG
CGGGGCGCGGTGGGGCTCGGGGCGCGTCCACGTGGCCAGAGGGCGGCCACCCGGAGCCAGCGGAGGGACAGGC
CTGTCCCCAGGCGCGGCTGCCGGCCATGCCCTCTGTCTGCCTCCTCTGCTGCTCTTCCTTGCCGTGGGGGGGGC
CCTGGGCAACAGGCCCTTCCGTGCCTTCGTGGTGACAGACACCACGCTTACCCACCTGGCTGTGCACCGGGGTGAC
TGGGGAGGTGTTCTGTGGGCGCAGTGAACCGAGTCTTTAAGCTGGCCCCAACCTGACTGAGCTGCGGGCCCATGT
CACGGGGCCCCGTGAGGACAACGCTCGCTGCTACCCGCCCCCAGCATGCGCGTGTGTGCCACCGCCTGGCCCC
CGTGGACAACATCAACAAGCTGTGCTCATAGACTATGCGGCCCGCCGCTGGTGGCCTGCGGCAGCATCTGGCA
GGGCATCTGCCAGTTCTCGCTGTGGACGACCTCTTCAAGCTGGGTGAGCCGACACCAGCAAGGAGCACTACCT
GTCGGGGGGCCAGGAGCCCGACTCCATGGCTGGTGTGATTGTGGAGCAGGGCCAGGGGCCAGCAAGCTGTTGT
GGGCACTGTGTGACGGCAAGTCGGAGTACTTCCCCACCTTGAGCTCCCGCAAGCTCATCAGTGATGAAGACAG
CGCGGACATGTTCACTCTCGTGTACCAGGATGAGTTTGTGTCTCTCCAGATCAAGATCCCTCAGACACGCTGTC
CTTGTACCCTGCCTTTGACATCTACTACATCTACGGCTTCGTGACGCGCTCCTTCGTGTACTTCTGACGCTGCA
GCTGGACACCCAGCAGCTGTGGACACAGCGGGCGAGAAATTTTACGTCCAAGATCGTGGCATGTGCGC
GGGAGACTCAGGTTCTACTCATACGTGGAATTTCCCATCGGCTGCTCCTGGCGGGCGTGGAGTACCGCTTGGT
GCAGAGCGCCACCTGGCCAAGCCTGGCCTGCTGCTGGCCAGGCCCTGGGCGTGCCGGCTGATGAGGACGTCTT
CTTCACCATCTTCTCTCAGGGCCAGAAGAACCGGGCCAGCCACCCGGCAGACCATCTCTGCCTCTTACCCCT
CAGCAACATCAATGCCCACATCCGGCGCCGCATCCAGTCTGCTATCGTGGGAGGGCACTCTGGCTCTGCCCTG
GCTGCTGAACAAGGAGCTGCCCTGCATCAACACCCCATGCAGATCAACGGCAACTTCTGTGGGCTGGTGTGAA
CCAGCCTCTGGGAGGCTGCATGTGATCGAGGGGCTGCCCTGCTGGCCGACAGCACCGACGGCATGGCCAGCGT
GGCCGCTTACACCTACCGCCAGCACTCTGTGGTCTTATTGGCACGCGCAGCGGCAGCTTGAAGAAGGTGCGGGT
CGATGGCTTCCAGGATGCCCACCTGTATGAGACAGTCCCCGTGGTGGATGGCAGCCCCATCCTCCGAGACCTGCT
CTTCAGCCCGGACACCGGCACATCTATCTCCTGAGTGAGAAGCAGGTGAGCCAGCTCCCGGTGGAGACCTGTGA
GCAGTACCAGAGCTGCGCAGCCTGCCTGGGCTCCGGGGACCCGCACTGTGGTGTGGTGTGTGCTGCGACACAGGTG
CTGCCGCGAAGGGGCTGTCTGGGCGCCTCTCCCCACACGGCTTGTGTGAGGAGCTGAGCAAGTGTGTCCAGGT
GCGGGTCCGGCCCAACAATGTGTGAGTGACGTACCTGGGGTGAGCTGACCGTCACCCCTGCACAACGTGCCAGA
CCTCAGTGCGGGCGTGAGCTGCGCCTTCGAGGCGGCGGGGAGAACGAGGCGGTCTGCTGCCCTCCGGTGAAC
GCTCTGCCCCCTACCCCTCCCTCCAGGAGCTCCGAGCTCTTACCAGGGGGCATGGGGCCACCCGCACCTGTGCGGCT
GCAGCTTCTCTCAAGGAGACAGGCGTGAGGTTTGCCGGTGTGACTTTGTCTTCTACAAGTGTGAGCGTCTCTCA
GTCGTGCATGTCTGTGTGGCAGCCCTTACCCCTGCCACTGGTGAAGTACCGCCACACGTGTACCAGCCGCCC
CCACGAGTGTCTCTCCAGGAGGGCAGGGTCCACAGCCCTGAGGGCTGCCCTGAGATCCTGCCAGTGGGGACCT
CCTGATCCCCGTGGGGTGCATGCAGCCTCTTACCTTGCGGGCTAAGAACCTACCTCAGCCGCACTCGGGCCAGAA
GAACTATGAGTGGTGGTGGGCTGAGGGGCGGCGGAGAGCGGGTGCCTGCCGTGCGCTTCAACAGCAGCAGTGT
GCAGTGCCAGAACGCCCTCGTACTCCTATGAAGGTGATGAGCATGGTGACACCGAGCTGGACTTCTCCGTGGTCTG
GGATGGAGACTTCCCCATAGACAAGCCTCCAGCTTCCGAGCCCTCCTGTACAAGTGTGGGCGCAGCGGCCAG
CTGTGGCCTCTGCCTCAAGGCTGATCCCCGCTTCAACTGTGGCTGGTGCATCTCAGAGCACAGGTGCCAGCTGCG
GACCCACTGCCCCGGCCCCGAAGACCAACTGGATGCACCTGAGCCAGAAGGGCACCCGGTGCAGCCACCCCGCAT
CACGCAGATCCACCTCTCGTGGGGCCCAAGGAAGGAGGCACCCGGGTACCATCGTGGGTGACAACCTGGGCCT
CTTGTCCCGAGAGGTGGGCCTGCGGGTGGCTGGCGTGCCTTGAACCTCCATTCCGGCCGAGTACATCAGTGTGA
GAGGATCGTGTGTGAGATGGAGGAGTCGCTGGTGGCCAGCCCGCCGCGGGGGCCGTGGAGCTGTGTGTGGGTGA
CTGTTAGCCGACTTCCGCACGAGTCGGAGCAGGTCTACAGCTTTGTGACCCCAACGTTTGACCAAGTGAGTCC
CAGCCGTGGCCCGGCGTCCGGGGGACACGGCTTACCATCTCAGGCAGCTCTCTGGATGCTGGCAGCAGGGTAC
AGTGAAGTGTGAGGGACAGCGAGTGCCAGTTTGAAGGAGAGATGCCAAGGCGATCGTGTGCATCTACCTCTCTC
CACCTGGGCCCCAGCCAGGCCCCCATCACACTTGCCATTGACCGGGCTAACATCTCCAGCCCCGGGCTCATCTA
CACCTACACTCAGGACCCCAACCGTCAACCGCTTGAGCCACCTGGAGCATCATCAATGGAAGCACTGCCATCAC
TGTGAGTGGGACCCACCTGCTGACGGTCCAGGAGCCCCGGGTCCGTGCCAAGTACCGCGGCATTGAGACCACCA
TACATGCCAAGTGATCAACGACACTGCCATGCTGTGTAAGGCCCCCGGCATCTTCTTGGGCGGGCCCCAGCCTCG
GGCGCAAGGCGAGCACCTGATGAGTTTGGCTTCTGCTGGACACGTGCAACGCGCCGCTCCCTCAACCGCTC
CTCCTTTACCTACTACCTGATCCAGCTTTGAGCCGCTGGGGCCCTCTGGCGTGTGGACGTCAAACCGGGCTC

3584/5332
FIGURE 3133B

CCACGTGGTGCTGAAGGGCAAGAACCTGATTCCCGCGGCAGCCGGCAGCTCCCGCCTCAACTACACTGTGCTGAT
AGGAGGCCAGCCGTGTTTCGCTCACTGTCTCGGACACACAACCTCCTGTGCGACTCACCCAGCCAGACTGGCCGGCA
GCCTGTCAATGGTGTGGTGGGTGGCCTGGAGTTCTGGCTGGGCACCCTGCACATCTCGGCAGAGCGGGCGCTGAC
CCTACCGGCCATGATGGGGCTGGCGCGGGGGGTGGGCTCCTGTGCTGGCCATCACAGCCGTGCTGGTGGCGTA
CAAGCGCAAGACTCAGGACGCGGACCGTACCCTCAAGCGTCTGCAGCTGCAGATGGACAACCTGGAGTCCCGTGT
GGCCCTGGAGTGCAAGGAAGCTTTTGAGAGCTGCAGACGGACATCAATGAGCTGACTAACCACATGGACGAGGT
GCAGATCCCCCTTCTGGACTACCGGACTTACGCCGTGCGCGTGTCTTCCCGGGCATCGAGGCCACCCGGTGT
CAAGGAGCTGGATACGCCACCCAACTGGAGAAGGCCCTGCGCCTCTTCGGGCAGCTGCTGCACAGCCGCGCTT
CGTGCTTACCTTCATCCACACGCTGGAGGCCAGAGCAGCTTCTCCATGCGCGACCGCGGCACCGTGGCCTCGCT
CACCATGGTGGCCCTGCAGAGCCGGCTCGACTATGCCACGGGGCTGCTCAAGCAACTGCTGGCCGACCTCATCGA
GAAGAACCTCGAGAGCAAGAACCACCCCAAGCTGCTGCTACGCAGGACAGAGTCAGTGGCTGAGAAGATGCTTAC
CAACTGGTTACGTTCTGCTGCATAAGTTTCTGAAGGAGTGTGCTGGGGAGCCTCTCTTCTGCTTTACTGTGC
CATCAAGCAGCAGATGGAGAAGGGCCCCATTGATGCCATCACGGGCGAGGCACGATACTCCCTGAGCGAGGACAA
GCTCATCCGTGAGCAGATCGACTACAAGACACTGACCCTTCACTGCGTGTGTCCGGAGAACGAGGGCAGCGCCCA
GGTCCAGTGAAGGTTCTCAACTGTGACAGCATCACCCAGGCCAAAGATAAGCTGCTGGACACTGTGTACAAGGG
CATTCCGTACTCCCAGCGTCCCAAAGCTGAGGACATGGACCTGGAGTGGCGCCAGGGCCGATGACTCGCATCAT
CCTCCAGGATGAGGATGTACCACCAAGATCGAGTGTGACTGGAAGAGGCTCAACTCACTGGCCCCACTACCAGGT
GACAGACGGTTCCCTTGGTGGCATTTGGTGCCCAAACAAGTGTCTGCCTATAACATGGCCAACTCCTTCACCTTCAC
CCGCTCCCTCAGCCGCTACGAGAGCTTGCTCCGCACGGCCAGCAGCCCTGATAGCCTCCGCTCACGGGCACCCAT
GATTACGCCCTGACCAGGAGACAGGCACCAAATTGTGGCACCTGGTGAAAAACCACGACCATGCCGACCATCGCGA
GGGGGACCGTGGCAGCAAGATGGTCTCCGAGATCTACCTGACACGGCTGCTGGCCACCAAGGGCACACTGCAGAA
GTTCTGTGGATGACCTCTTTGAGACAGTGTTCAGCACAGCCCACCGGGGCTCGGCCCTGCCCTGGCCATCAAGTA
CATGTTGCACTTCTTGGATGAGCAGGCGGACCAGCGCCAGATCAGCGACCCCGATGTGCGCCACACCTGGAAGAG
CAACTGCCTGCCGTGCGCTTCTGGGTGAATGTGATCAAGAACCCGAGTTCTGTGTTGACATCCACAAGAACAG
CATCACGGATGCCGTGCTGCTGGTGGTAGCCAGACCTTCATGGACTCCTGCTCTACATCCGAGCACCGCCTGGG
GAAGGACTCGCCCTCCAACAACTGCTCTACGCCAAGGACATCCCCAACTACAAGAGCTGGGTGGAGAGGTATTA
TCGAGACATTGCAAGATGGCATCCATCAGCGACCAAGGACATGGATGCCTACCTGGTGGAGCAGTCCCGCCTCCA
CGCCAGCGACTTCAGCGTCTGAGTGGCTCAACGAGCTGTATTTCTATGTCACCAAGTACCGCCAGGAGATTCT
CACGGCTCTGGACCGAGATGCCTCTTGTGGAAGCATAAGTTGCGGCAGAACTGGAACAGATCATCAGCCTCGT
GTCCAGCGACAGCTAAGGTTGGTGAATCGGTGAGGAGGGGGCTTCTCAGTCTGTGCCGTCTCCCATCCAGGGG
AGTGGCTGGCTCAAGCCTGGGTCCCCGGGCTGAGCCCTGGATTGGGTATCGTGGGGCAGGTACCCTGGCCACGA
TGCCCCCGGCACACCCAGGCCCTTCATTAGTGCCTTGCTTTGGGCCCTGCAGGGGGAGGGGTGACAGGGCGAG
CCCCACCCAGCAGCAATACCC

CCGCCGCTGCCGCTGCCGCTGTCTGCTGTGCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCTGCC
ATGGCTCAATAACAAGGGCGCCGCCGAGGCGCCGCCGCATGCACCTGATGAAGAAGCGGGAGAAGCAGCGC
GAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAAGAAGTTCTCT
GCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCC
AAGCAGGAGGCTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGATGAAG
CTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCAGCCTGTCTTACCCTGGAG
GAGGAAGAAGAGGGAGGCGAGGAGGAAGAGGAGGCGGCCATGTATGAGGAGGAGATGGAAAGGGAAGAGATCACC
ACGAAGAAGAGAAAACTGGGGAAGAACCCAGACGTTGACACAAGCTTCTTGCCCTGATCGAGACCGTGAGGAGGAG
GAGAACTCGGCTTCGGGAAGAGCTGCGGCAGGAGTGGGGAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAG
ATCACCTTCAGCTACTGGGATGGCTCTGGGCACCGCGGACAGTCAAGATGAGAAAGGGCAACACCATGCAGCAG
TTCCTGCAAGAAGGCGCTCGAGATCCTTCGGAAAGACTTCAGTGAGCTGAGGTCCGCAGGGGTGGAGCAGCTCATG
TACATCAAGGAGGACTTGATCATCCCTCACCATCACAGCTTCTACGACTTCATCGTACCAAGGCACGGGGGAAG
AGTGGACCACTCTTCAACTTTGATGTTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAG
TCCCATGCAGGCAAGGTGGTGTCTGAGGAGCTGGTACGAGAAGAACAAGCACATCTTTCCCGCCAGCCGCTGGGAA
CCCTACGACCCTGAAAAGAAGTGGGACAAGTACACGATCCGCTGAGCATCCAGGAGGCTGCGCGGCCCGGGCTCC
TCAGCTCCCTCAGTGTGCCCCGTGGTGTACCGGGACTCCAGGCACCCGCTCCCCTGCGACCATGCCAGGCACGC
TGGGAGGAGGACGGCAGCTGCTCGTGTCTGCCCCCTGCCACATCAGTGACTGCTTTATTCTTTCCAATAAAGAA
GTGCACGTGTCAAGCTGGAGCGCCTGCATTGTGAG

3586/5332
FIGURE 3135

CGGCGGCGGCGGTGGCGGCGGCGACTGCTGCGGTGAAGGAGGAGGAGGCCGAGCGGGCGCTGGCACCGAGGCC
TGACCATGGACGAGGAATACGATGTGATCGTGCTGGGGACCGGTCTCACCGAATGCATCCTGTGCGGCATCATGT
CTGTGAACGGGAAGAAGGTGCTGCACATGGACCGGAACCCCTACTACGGGGCGAGAGCTCCTCCATCACACCCC
TGGAGGAGCTGTATAAGCGTTTTTCAGTTGCTGGAGGGGCCCCCTGAGTCGATGGGCCGAGGCCGAGACTGGAATG
TTGACCTGATTCCCAAATTCCTCATGGCTAACGGGCAGCTGGTAAAGATGCTACTGTATACAGAGGTGACTCGCT
ACCTGGACTTCAAGGTGGTGGAGGGCAGCTTTGTCTACAAGGGGGGCAAGATCTACAAAGTGCCGTCCACTGAGA
CTGAGGCCTTGGCTTCCAATCTGATGGGCATGTTTGAGAAACGGCGCTTCCGCAAGTTCCTGGTGTTTGTGGCAA
ACTTCGATGAGAATGACCCCAAGACCTTTGAGGGCGTTGACCCCAAGTACCAGCATGCGTGACGTCTACCGGA
AGTTTGATCTGGGCCAGGATGTCATCGATTTCACTGGCCATGCCCTGGCGCTCTACCGCACTGATGACTACCTGG
ACCAGCCCTGCCTTGAGACCGTCAACCGCATCAAGTTGTACAGTGAGTCCCTGGCCCGGTATGGCAAGAGCCCAT
ATTATACCCGCTCTACGGCTTGGGCGAGCTGCCCCAGGGTTTTGCAAGATTGAGTGCCATCTATGGGGGGACAT
ATATGCTGAACAAACCTGTGGATGACATCATGAGAAACGGCAAGGTGGTGGCGTGAAGTCTGAGGGAGAGG
TGGCCCGCTGCAAGCAGCTGATCTGTGACCCAGCTACATCCCGACCGTGTGCGGAAGGCTGGCCAGGTTATCC
GCATCATCTGTATCCTTAGCCACCCCATCAAGAACCAACGACGCAACTCCTGCCAAATAATCATCCCCCAGA
ACCAGGTCAACAGGAAGTCAGACATCTACGTGTGCATGATCTCCTATGCACACAACGTGGCGGGCCAGGGCAAGT
ACATAGCTATTGCCAGCACTACTGTGGAGACCACGGACCCTGAAAAGGAGGTGGAGCCGGCTCTGGAGCTGTTGG
AGCCCATTGACCAGAAGTTTTGTGGCTATCAGTGACTTGTATGAGCCATTGATGATGGTTGTGAGAGCCAGGTGT
TCTGTTCTGCTCCTACGATGCCACCACACACTTTGAGACAACCTGCAACGACATCAAAGACATCTACAAACGCA
TGGCTGGCACGGCCTTTGACTTTGAGAACATGAAGCGCAAACAGAACGACGTCTTTGGAGAAGCTGAGCAGTGAT
TGTGGCGCCCCCAGCCCCGTGCTGCCCCAGCCTGTGTCTGTCTCCTCGAGGGCTCCAGCATCCTCTGCTTCCCC
CACCACGTTCCCATCACCCACCTCATTGATCCACTGACCAAATCCTTAACCCTAGCGATGGCTTGGGAGATGGGG
GGTTGGATAGCATCCTCTTTCTTGGCCCTTCCTTATCCTAGGAAAAGAGGGTTCCTCTCCTTGTGTGTCTCTT
CCCCCACCCTAATTCTTCTGCTCTGTTTGGGAAGACGTGGAGGAAAAGGTGACTTCTGCCCCACCGCTCTTA
CCCCACTGTAGTGGCCTTTGGAGATGCCCCACCTCCCCCCCACCAACTCTCGCGTGTGGAGAGAAGGGGCC
TCCCAGCACAAAGTTGCATTCTCCCCCTAATTTATTCTAATTTATTAACCTTTGACCCACCTTTCTGAGCCTG
CAGCCTTCCCGTGTGGCCTGAGGGCTGTGAGTGAGCTGCCCCAGCCCCTCCAGCCCTTGCCAGCCTGGGGGA
GTGGGGAAGGCTTGGGCATGGCCCCGTGGAGGTTGATTGCTGTTTTGTTTCTTGTCTTGTGTTCTGTGGTAC
TTGCTGAGAGAAAAGAAAAGTGAGCCAAGCAGAAGGAGGTGGGAAAACGGACCCAAACCCAGTGTGCCCTGCCC
CATGCCTTTCCTTTAGTGGTGGGAAACCTTATCTTGCAAAGTGAATGTGTCCCCTTCCCCACCTCTAGTGTAT
TTCACAGAAAACAAACCTCCCAATAAAACGGTTGAAACCTG

3587/5332
FIGURE 3136

GGCAGTGGAGGCTGAGGCTATGATGGCGGCCATGGCGACGGCTCGAGTGC GGATGGGGCCGCGGTGCGCCCAGGC
GCTCTGGCGCATGCCGTGGCTGCCGGTGT TTTTGTCTGTTGGCGGCGGCGGCGGCGGCAGCGGCGGAGCAGCA
GGTCCCGCTGGTGTGTGGTTCGAGTGACCGGGACTTGTGGGCTCCTGCGGCCGACACTCATGAAGGCCACATCAC
CAGCGACTTGCAGCTCTCTACCTACTTAGATCCCGCCCTGGAGCTGGGTCCCAGGAATGTGCTGTCTTCTGCA
GGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGGACAGCGCCTTTTCTAA
CCTAGAGAATGCCCTGGACCTGGCCCCCTCCTCACTGGTGCTTCTGCGCTCGACTGGTATGCAGTCAGCACTCT
GACCACTTACCTGCAGGAGAAGCTCGGGGCCAGCCCCCTTGCATGTGGACCTGGCCACCCTGCGGGAGCTGAAGCT
CAATGCCAGCCTCCCTGTCTGTCTGCTCATTGCGCTGCCCTACACAGCCAGCTCTGGTCTGATGGCACCAGGGA
AGTCCTCACAGGCAACGATGAGGTTCATCGGGCAGGTCTGAGCACACTCAAGTCCGAAGATGTCCCATACACAGC
GGCCCTCACAGCGGTCCGCCCTTCCAGGGTGGCCCGTGATGTAGCCGTGGTGGCCGGAGGGCTAGGTCGCCAGCT
GCTACAAAACAGCCAGTATCACCTGTGATCCATCCTCCTGTGAGTTACAATGACACCGCTCCCCGGATCCTGTT
CTGGGGCCAAACTTCTCTGTGGCGTACAAGGACCAGTGGGAGGACCTGACTCCCTCACCTTTGGGGTGCAGGA
ACTCAACCTGACTGGCTCCTTCTGGAATGACTCCTTTGCCAGGCTCTCACTGACCTATGAACGACTCTTTGGTAC
CACAGTGACATTCAAGTTCATTCTGGCCAACCGCCTCTACCCAGTGTCTGCCCGGCACTGGTTTACCATGGAGCG
CCTCGAAGTCCACAGCAATGGCTCCGTGCGCTACTTCAATGCTTCCCAGGTACAGGGCCCAGCATCTACTCCTT
CCACTGCGAGTATGTCAGCAGCCTGAGCAAGAAGGGTAGTCTCCTCGTGGCCCGCACGCAGCCCTCTCCCTGGCA
GATGATGCTTCAGGACTTCCAGATCCAGGCTTTCAACGTAATGGGGGAGCAGTTCTCCTACGCCAGCGACTGTGC
CAGCTTCTTCTCCCCCGGCATCTGGATGGGGCTGCTCACCTCCCTGTTTCATGCTCTTCATCTTCACCTATGGCCT
GCACATGATCCTCAGCCTCAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTGACCCAGAT
TGTGTGACCCCTGTGCCAGTGGGGGGGTTGAGGGTGGGACGGTGTCCGTGTTGTTGCTTTCCCAACCTGCAGCGCA
CTGGACTGAAGAGCTTCCCTCTTCTACTGCAGCATGAAGTCAAGCTCCCCCTCAGCCCATCTTGCTCCCTCTTC
AGCCCGCTGAGGAGCTTTCTTGGGCTGCCCCCATCTCTCCCAACAAGGTGTACATATTCTGCGTAGATGCTAGAC
CAACCAGCTTCCCAGGGTTCGTGCTGTGAGGCGTAAGGGACATGAATTCTAGGGTCTCCTTTCTCCTTATTTAT
TCTGTGGCTACATCATCCCTGGCTGTGGATAGTGCTTTTGTGTAGCAAATGCTCCCTCCTTAAGGTTATAGGGC
TCCCTGAGTTTGGGAGTGTGGAAGTACTACTTAAGTGTCTGTCTGCTTGGCTGTGCTTATCGTTTCTGGTGAT
GTGTGTGCTAACAATAAGAAGTACACGGGTTTATTTCTGTGGCCTGAGAAGGAAGGGACCTCCACGACAGGTGGGC
TGGGTGCGATCGCCGGCTGTTTGGCATGTTCCCAACGGGAGTGCCGGGCAGGAGCATGGGGTGCTTGGTTGTTTC
CTTCTAATAAAATAAACCGGGGTCGCCATG

3588/5332
FIGURE 3137

CCGGGCCGGGGTGCCAGCGCCCGCTTTCCCGTTTTCTCCCGTTCCGCAGCGCGCCACGGCCTGTGACTTCGGAG
ACCGCTCCCCAGTGACGAGAGAGCGGGGCCGGGCGCTGCTCCGGCCTGACCTGCGAAGGGACCTCGGTCCAGTAC
CCTGTTGCGCCGCGCCCCCGTCCGTCCGTGCGCGGGCCAGTCAGGGGCCAGTGTGTGAGGCGGTAGAGGTCCGA
GCCTAGAGGCGTTCCACAGGTCGGCCCCGGGCGCTGGGAGCCCGGCCGGCGGTGCGGTGGGGTGGCCTCTGCACG
TGAAAGTGCCGTTCCCCGCGGTGCCGCCGCTCACCTGGACCCTGGCCAGCAGCGTCGTCATGGGCTTGGTGGGC
ACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCGTGCACAACAGGGAGGTGCTGTACGAGCTCATC
GAGAAGCGAGGCCCCGGCCACGCCCTCATCAECGTGTCCAATCACCAGTCTGTCATGGACGACCCCTCATCTCTGG
GGGATCCTGAAACTCCGCCACATCTGGAACCTGAAGTTGATGCGTTGGACCCCTGCAGCTGCAAGACATCTGCTT
CACCAAGGAGCTACACTCCCCTTCTTCAGCTTGGGCAAGTGTGTGCCTGTGTGCCGAGGAGCAGAATTTTTCCA
AGCAGAGAATGAGGGGAAAGGTGTTCTAGACACAGGCAGGCACATGCCAGGTGCTGGAAAAAGAAGAGAGAAAGG
AGATGGCGTCTACCAGAAGGGGATGGACTTCATTTTGAGAAGCTCAACCATGGGGACTGGGTGCATATCTTCCC
AGAAGGGAAAGTGAACATGAGTTCCGAATTCCTGCGTTTTCAAGTGGGGAATCGGGCGCCTGATTGCTGAGTGTCA
TCTCAACCCCATCATCCTGCCCCGTGTGGCATGTGCGGAATGAATGACGTCTTCTTAACAGTCCGCCCTACTTCCC
CCGCTTTGGACAGAAAATCACTGTGCTGATCGGGAAGCCCTTCAGTGCCTGCCTGTACTCGAGCGGCTCCGGGC
GGAGAACAAGTCGGCTGTGGAGATGCGGAAAGCCCTGACGGACTTCATTCAAGAGGAATTCCAGCATCTGAAGAC
TCAGGCAGAGCAGCTCCACAACCACCTCCAGCCTGGGAGATAGGCCTTGCTTGCTGCCTTCTGGATTCTTGGCCC
GCACAGAGCTGGGGCTGAGGGATGGACTGATGCTTTTAGCTCAAACGTGGCTTTTAGACAGATTGTTCATAGAC
CCTCTCAAGTGCCCTCTCCGAGCTGGTAGGCATTCCAGCTCCTCCGTGCTTCTCAGTTACACAAAGGACCTCAG
CTGCTTCTCCCACTTGGCCAAGCAGGGAGGAAGAAGCTTAGGCAGGGCTCTCTTTCCTTCTTGCCCTCAGATGTT
CTCTCCAGGGGCTGGCTTCAAGAGGGAGCATAGAAGGCAGGTGAGCAACCAAGTTGGCTAGGGGAGCAGGGGGCC
CACCAGAGCTGTGGAGAGGGGACCCTAAGACTCCTCGGCCTGGCTCCTACCCACCGCCCTTGCCGAACCAGGAGC
TGCTCACTACCTCCTCAGGGATGGCCGTTGGCCACGTCTTCTTCTGCCTGAGCTTCCCCCCCCACACAGGCCCT
TTCTCAGGCAAGGTCTGGCCTCAGGTGGGCCGCGAGGCGGGAAAAGCAGCCCTTGGCCAGAAGTCAAGCCCAGCC
ACGTGGAGCCTAGAGTGAGGGCCTGAGGTCTGGCTGCTTGCCCCATGCTGGCGCCAACAACCTTCTCCATCCTTT
CTGCCTCTCAACATCACTTGAATCCTAGGGCCTGGGTTTTTCATGTTTTTGAAACAGAACCATAAAGCATATGTGT
TGGCTTGT

3589/5332
FIGURE 3138

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTACAGCCCCACCTCCTGCTCAGAGCCCTGTCCGAGCACCTCATTTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGAT
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGCCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCCAGCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGTTGACAAGCTGGTCTGAGCAGCGCTCCAGAGCCAGAACTGAGCCCACTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTGGGGTGTCCCGGCAGCCACACAGCCATGCACTACCCAACTGCACTCCTCTCTCTCA
TCCTGGCCAAATGGGGCCAGGCCTTTTCGATCTGCGCCTTCAATGCCAGCGGTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTTCGATACTGGCTCGCTGTGACATCATGGTGTGTCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTGATGGCTCTGGGCCCTACAGCACCCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAACACAGGTCC
TGAGTTCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGGAGCCATTTGTGGCCAGTTCTCTTTGCCCA
GCAATGTCTTCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCC
TCTACGATGTGTTTCTGGAGGTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGGGGCCAGCACCCACTGCACCTATGCCCGCGTCTGTGCTGCACGGGGAGCGCT
GCCGGAGTCTGCTGCACACTGCGGCTGCCCTTGGACTTCCCCACGAGCTTCCAGCTCACCAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCCTCAGCTGTGCCCTGTGCTGCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCCTTTTGGGACTTAAACCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCCTGTTTGTATTGGCTCTGTTCTTTGGTTGGGCTTGTGCTTA
GATTAGGAGAGGAAGCCAGGGGGCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTGGGGTAGGGGAAGGGAGGGTTAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAAAAACCCAGATTGGTGTAGATAGGACACTGTGTCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAACACCGGGAAACATTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCACTTATGTAAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCAAAGAAGAGAGGTGAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGTTTGGAAACCATCACCCCAAGGTAAAAAAAATAAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

3590/5332
FIGURE 3139

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTGGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTT
CTGAAGCCCTGGAGGCTGCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTTCATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAGCGGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTACCAATAAAATCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGGAAGGAACCTTCTCTGGGAACCTTTGGGTCAATTGCCCTTTCACTTCAGA
AACAGGTTGACAACCTAGCCCTGCTCATGAGGCAGCAAAACCCTGCAAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACCTTGACCTCCCCAGGTCCCTAGGCAGTAGGTTGAAAAACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGGCGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTCTCACCCATCTGGTTTGGCCATTCTCCTTGGTGGGAATCATCCAGGTACTGCTGAGGTACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCCTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCAATTGTAAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACCTTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCCTCTGGTTTTTGTAACTCTCAG
TTTACAGCCATTCTTAGGTTTTTAATTACCTTTATTTTATTTTGGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGTATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCTTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCCTGCAGCCCTTTCCGGGACACCTGGGTTACACAGCTTTTGTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCCTTGACCAGCCTTGCTGGACCTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTA
CAGCACCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTTACCGGATTATAAT
GAGCCAAAATGTTTCCCGGTGTTTGTGGTTTTCAGGGAAGGAGTTTGATATAGCAGATTAACCACCCCTCCTTGTA
GCTATTGGGGCTTAATGGTTTCTGGTGATTCTTACCAATCCACAATAAATCATGGCCCATTTGGCATATCTGC

3591/5332
FIGURE 3140

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACACTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCCGAGTCTGCCGCCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCTTA
TTATCCTACTTCTCTCCACCTCTTTTATGTCTCTCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCTGGTCTTTGTGATCGTCCTCTTCTTCAATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTGGGGAAGTCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGTCTGGGGGGCGCTGGGCCTAGCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCCACAGGGAGGCAGCACTCAGGCCCTCCATGGTCTCTTTGTCAATTTGTTGACATGC
ATTCCTCCTTTTGTATCTTGTGGGGGAGGGGATTAAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTTGT

3592/5332
FIGURE 3141A

GC GAT CCG GGC GCC ACC CCG CGG TCA TCG GT CAC CGG TCG CTCT CAG GAAC AGC AGC GCA ACCT CTG CTCC CTG C
CTCG CCTCC CGCG CGCCTAG GTGC CTGCG ACTTTAATTA AAGGG CCGTCC CCTCG CCGAGG CTG CAGC ACCG CCC
CCCCG GCTTCTCG CGCCTCAAAATGAGTAGCTCCCACTCTCG GGC GGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGT CGACACGCGGACGCCGAGATGCCGCGCACCCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTACGCGCTGGTGCAACGAGCACCTGAAGTGCGTGAGCAAGCGCATGCCAACCTGCA
GACGGACCTGAGCGACGGGTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACGCAAGCA
CAACCAGCGGCCCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTGCGTGCGCTCGAGTTCCTGGACCGCGAGAG
CATCAAACCTGGTGCTCATCGACAGCAAGGCCATCGTGGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAAGCTGCCGAGCTGCCCATACCAAACCTTACGCCGGGACTGGCA
GAGCGGCGCGGCCCCCTGGGCGCCCTGGTGGACAGCTGTGCCCGGGCCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCCGTACCAATGCGCGAGAGGCCATGCAGCAGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCCAACGTGGACGAGCACTCTGTATGACCTACCTGTCCCAGTTCCTCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGGCGGCCAAACTGAACCCGAAGAAAGCCCCGTGCCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGCGCGGACACCAGGAGGAGGCAAAAGTGACGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGGACTCATAAGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCCTCGAGGTGTACGTGGATAAGTACAGGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTGAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCAGGCTAGAGCCTCAGCTGGAGGC CCGGGGCGACAGCACATAACCG
CTGCAGCTACCAGCCACCATGGAGGGCGTCCACACCGTGCACGTACGTTTGCCGGCGTGGCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAAACCCGAGTGCCCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCCAA
GGGTGTGCGGTTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGCGTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCACGTGGGGTGGTCAAGACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCCTGGGGCCTGGGCTGGAGGGCGGCTCGTTGGCAA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTACAGTGTGTGCAACAGCGAAGACATCCGCTCAGCCCCCTTATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTGGGGAGGCGTCAAGCATCCCCAACAGCCCCCTTACGGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGGTCAAAGTATACGCCCCGAGTAGCCAAGACAGGGCTCAAGGCCACGAGCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGACGTACGATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTACGGTCAAGTACACGCCCCGGGGGGC
TGGCAGCTACACCATTATGGTCTCTTTGCTGACCAGGCCACGCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGCGAGCTTGGCAAGCCAC
CCACTTCACAGTAAATGCCAAAGCTGTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTACCAAGGGGGA
TGCAGTGGCAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCCTGTCCAGCAGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTGGCAAAGACCAGGAGTTACAGT
CAAATCAAAGGTGCTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCCTGGGGGCTGACAACAGTGTGGTGCCTTCTGCCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGGCCGTGCCCTGGCAGCCCCCTTCTCTGGAAGCTGTGGCCCCCACCAAGCCTAG
CAAGGTGAAGGCGTTTGGGCGGGGCTGCAGGGAGGCAGTGCGGGCTCCCCGCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCCTGACGGTGGAGGGCCCTGTGAGGCGCAGCTCGAGTGTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCGAGCCCCGGGACTACAACATCAACATCCTCTTCGCTGACAC

3593/5332
FIGURE 3141B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCTACACCGTCACCATCAAGTACGGCGGGCAGCCCGTGCCCACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCACTGTGGACGCCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTCAAGGACCGTGGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCGTGCCAGCAG
CCCCTTCCAGGTGCCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCCTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCACTGTGGAGACCAGGGGAGCTGGCACGGGCGGCCTGGGCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCTGTCATGGATAACAAGGACGGCAGCTGCTCGGTGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCTCCAAGGTCAAGTGTCTTGGGCCCCGGCCTGAGCCAGGCATGGTTCTGTGCCAACCTCCC
TCAGTCCCTTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCCATTGCAAGTCAAAAGTGCAAGGGCCCCAAAGCCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCCTTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAGGACGCCGGGGAGGGCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCTTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTACGAGATCCCCTTCTCCCCGTACCGCTGCGTGCCGTGCCCGGCCAGCGGCCAG
CAAGTGCACCTGTACAGGTGCTGGCATCGGCCCCACCATTAGATTGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAGGCAAGGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACAGGCCCCCAGCCGGGCAAAATACGTCATCTGTGTGCGCTT
TGGTGGCGAGCACGTGCCAACAGCCCCCTTCCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCC
TCTACGGTCTCAGCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTCATCCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCCACCATCACTGACAACAAAGACGG
CACCCTGACCGTGCGGTATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGCACTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCGTCAACACCAAGGATGCAGGAGAGGGGGGCTGTCTCTGGC
CATTGAGGGCCCCGTCAAAGCAGAAATCAGCTGCACTGACAACCAAGGATGGGACATGCAGCGTGTCTACCTGCC
TGTGCTGCCGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCCACCTAAAGGTGCGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGTGACGGCCACTGTGGTCCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGCTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTCACTCGTGCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGAAATTGGGGATGCCAGTCGTGTTCCG
GGTCTCTGGTCAGGGCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGCCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGAGGCGTCGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACACAGTCAGCGTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTCACCGTGGGGCCCCCTAGGGGAAGGGGGAGCCCAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGTGGAGGCCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGGAGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCAGAGCCCCCTTCGTGGTGCTGTGGC
TTCTCCGTCTGGCGACGCCCCGCCGCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACAGCCAGC

3594/5332
FIGURE 3141C

CTCTTTTGCAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTCACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTGCGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGGCCCTACCACATTGGGGGCAGCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTGTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTTATGGCCCCAAGGACCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCAGGCAGCCCCCTACCGCGTTGTGGTGGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCCCTTCCCCCTCAACCCCGGGCCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACTTGGGCAGAGGGAGCCATTTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGGTCTGTACACAACCACCCACTAGTTCTTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATT

CCGCGAAATGGCCGCGCCGCCGCCGCCGCCGCCGAGCGGAGGAGGAGGAGGAGCGCAGGAGGAGAGACTGCTCCA
TAAAAATACAGACTCACCAGTTCTCTGCTTTGATGTGACATGTGACTCCCAGAATACACCTTGCTTCTGTAGACC
AGCTCCAACAGGATTCCATGTAGCTGGGATGTTAGGGCTCAGGGAAGAAAAGTCAGAAGACCAGGACCTCCAGG
GCCTCAAGGACAAACCCCTCAAGTTTAAAAAGGTGAAGAAAGATAAGAAAGAGAGAAAGAGGGCAAGCATGAGC
CCGTGCAGCCATCAGCCCACTCTGCTGAGCCCCGAGAGGCAGGCAAAGCAGAGACATCAGAAGGGTCAGGCT
CCGCCCCGGCTGTGCCGGAAGCTTCTGCTCCCCCAAACAGCGGCGCTCCATCATCCGTGACCGGGGACCCATGT
ATGATGACCCACCCTGCCTGAAGGCTGGACACGGAAGCTTAAGCAAAGGAAATCTGGCCGCTCTGCTGGGAAGT
ATGATGTGATTTGATCAATCCCCAGGGAAAAGCCTTTCGCTCTAAAGTGGAGTTGATTGCGTACTTCGAAAAGT
TAGGCGACACATCCCTGGACCCTAATGATTTTGACTTCACGGTAACCTGGGAGAGGGAGCCCCCTCCCGCGAGAGC
AGAAACCACCTAAGAAGCCCAATCTCCCAAAGCTCCAGGAACCTGGCAGAGGCCGGGGACGCCCCAAAGGGAGCG
GCACCACGAGACCCAAGGCGGCCACGTGAGAGGTTGTCAGGTGAAAGGGTCTGGGAGAAAAGTCTTGGGAAGC
TCCTTGTCAAGATGCTTTTCAAACCTTCGCCAGGGGCAAGGCTGAGGGGGTGGGGGACCAACATCCACCCAGG
TCATGGTGATCAAAACGCCCTCCGAGGAAGCGAAAAGCTGAGGCCACCCCTCAGGCCATTCCCAAGAAACGGGGCC
GAAAGCCGGGGAGTGTGGTGGCAGCCGCTGCCGCCGAGGCCAAAAAGAAAGCCGTGAAGGAGTCTTCTATCCGAT
CTGTGCAGGAGACCGTACTCCCCATCAAGAAGCGCAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTGG
TGAAGCCCCTGCTGGTGTCCACCCTCGGTGAGAAGAGCGGGAAAGGACTGAAGACCTGTAAGAGCCCTGGGCGGA
AAAGCAAGGAGAGCAGCCCCAAGGGGCGCAGCAGCAGCGCCTCTCACCCCCAAGAAGGAGCACCACCACCATC
ACCACCACTCAGAGTCCCCAAAGGCCCCCGTGCCACTGCTCCCACCCTGCCCCACCTCCACCTGAGCCGAGA
GCTCCGAGGACCCCCACCAGCCCCCTGAGCCCCAGGACTTGAGCAGCAGCGTCTGCAAAGAGGAGAAGATGCCCC
GAGGAGGCTCACTGGAGAGCGACGGCTGCCCCAAGGAGCCAGCTAAGACTCAGCCCGCGGTTGCCACCGCGCCCA
CGGCCGAGAAAAGTACAAACACCGAGGGGAGGGAGAGCGCAAGACATTGTTTCATCCTCCATGCCAAGGCCAA
ACAGAGAGGAGCCTGTGGACAGCCGGACGCCCCGTGACCAGAGAGTTAGCTGACTTTTACACGGAGCGGATTGCAA
AGCAAACCAACAAGAATAAAGGCAGCTGTTGTCTCTTCTCCTTATGGGTAGGGCTCTGACAAAGCTTCCCGATTA
ACTGAAATAAAAAATATTTTTTTTTTCTTTTCAGTAACTTAGAGTTTCGTGGCTTCAGGGTGGGAGTAGTTGGAGC
ATTGGGGATGTTTTTCTTACCAGACAAGCACAGTCAGGTTGAAGACCTAACCAGGGCCAGAAGTAGCTTTGCACTT
TTCTAAACTAGGCTCCTTCAACAAGGCTTGCTGCAGATACTACTGACCAGACAAGCTGTGTGACCAGGCACCTCCC
CTCCCGCCCAACCTTTCCCCATGTGGTCTGTTAGAGACAGCAGCAGCAGTGTGAGAGACACTCCCGTTTT
CGGTGCCATCAGTGCCTCCGCTACAGCTCCCCAGCTCCCCCAGCTCCCCCATCCCAACCAAGTTGGGACAGG
GAGGTGTGAGCGAGGAGACAGTTGGATTCTTTAGAGAAGATGGATATGACCAGTGGCTATGGCCTGTGCGATC
CCACCCGTGGTGGCTAAGTCTGGCCCCACACAGCCCCAATCCAAACTGGCAAGGACGCTTCACAGGACAGGA
AAGTGGCACCTGTCTGCTCCAGCTCTGGCATGGCTAGGAGGGGGGAGTCCCTGAACTACTGGGTGTAGACTGGC
CTGAACCACAGGAGAGGATGGCCAGGGTGAGGTGGCATGGTCCATTCTCAAGGGACGCTCCTCCAACGGGTGGCG
CTAGAGGCCATGGAGGCAGTAGGACAAGGTGCAGGCAGGCTGGCCTGGGGTCAGGCCGGGCAGAGCACAGCGGG
TGAGAGGGATTCTTAATCACTCAGAGCAGTCTGTGACTTAGTGACAGGGGAGGGGGCAAAGGGGGAGGAGAAGA
AAATGTTCTTCCAGTTACTTTCCAATTCTCCTTTAGGGACAGCTTAGAATTATTGCACTATTGAGTCTTCATGT
TCCCACTTCAAAACAAACAGATGCTCTGAGAGCAAACCTGGCTGAATTGGTGACATTAGTCCCTCAAGCCACCA
GATGTGACAGTGTGAGAACTACCTGGATTTGTATATATACCTGCGCTTGTTTTAAAGTGGGCTCAGCACATAGG
GTTCCACGAAGCTCCGAAACTCTAAGTGTTTGCTGCAATTTTATAAGGACTTCCTGATTGGTTTTCTTCTCCC
CTTCCATTTCTGCCTTTTTGTTCATTTCATCCTTTCACTTCTTTCCCTTCTCTCCGTCCTCCTCCTTAGTTTCAT
CCCTTCTCTTCCAGGCAGCCGCGGTGCCCAACCACACTTGTCGGCTCCAGTCCCCAGAACTCTGCCTGCCCTTTG
TCCTCCTGTCTGCCAGTACCAGCCCCACCCTGTTTTGAGCCCTGAGGAGGCCTTGGGCTCTGCTGAGTCCGACCT
GCCTGTCTGTGAAGAGCAAGAGAGCAGCAAGGTCTTGCTCTCTTAGTAGGCCCTTCCCTGAGTGAAGAAAAAG
CAAAAGGCATTTCACCCCTGAACAACGAGCCTTTTACCCTTCTACTCTAGAGAAGTGAGCTGGAGGAGTGGG
CCCATTGTTGGTAGTTGAGGAAGCACAGAGCCCTCTGTGGCTGCCAGTCACTGAGTGGCCCAACAGGGGCTCC
ATGCCAGCCGACCTGAGCTCACTCAGAAGTCCAGAGTCTAGCGTAGTGACAGAGGGCAGTAGCGGTACCAATGC
AGAACCTCCCAAGACCCGAGCTGGGACAGTACCTGGGTCCCCAGCCCTTCTCTGCTCCCCCTTTTCCCTCGGAG
TTCTTCTGTAATGGCAATGTTTTGCTTTTGCTCGATGCAGACAGGGGGCCAGAACACCACACATTTCACTGTCTG
TCTGGTCCATAGCTGTGGTGTAGGGGCTTAGAGGCATGGGCTTGCTGTGGGTTTTTAATTGATCAGTTTTTCATGT

3596/5332
FIGURE 3142B

GGGATCCCATCTTTTAACTCTGTTCAGGAAGTCCTTATCTAGCTGCATATCTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTCTTATATCTAAATCTGTCCAAGTACAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAAGTGTCAAGTGTGT
GTTGTCTTGTGTAATTCAGTTATTGTCCCTGGCTTCCTTACTATGGTGTAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGGCCCGTTCTGTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCTTATGCTGTAAAAGCAAGTCTGCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTGAGAAGAGAGGGTGAGTCTCCAGAACTCTTCTCCAAGGACAGAAGGCTCCTGCCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTGGTCAGTTGGGTTTTATGTATTATACCTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGTGTCTTCCCGTCACTTACGGGCGATGGGGCAGTCGTGGTTGGGAACACAGCATTCAAGCGTCACTTTA
TGTACCCCATGACAGTTTCACTTACGGGCGATGGGGCAGTCGTGGTTGGGAACACAGCATTCAAGCGTCACTTTA
TTTCATTGCGGGCCCCACCTGCAGCTCCCTCAAAGAGGAGTGGCCAGCCTCTTCCCTTCCAGTTTATTCCAGA
GCTGCCAGTGGGGCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCCCCTTTCTTCTCATTCCCTCGTCTTTCC
CAAAGGCATCAGAGTCAGTCGCCTTTTACGAGGCAGCCTTGGCGGTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCTGCCTTGGGGTCAGGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCCCAGTTTTGGGGTGTGACCTCAATTTCAATTTGTCTGTACTTGAACATTATGAAGATG
GGGGCTCTTTTCACTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCACCCTTGTCCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGTCACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTCTATAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAACGCCACATCCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGCTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCAGGCTGCAGACAATCTTCTG
TTGGGTGGCATCATTCAGGCCCCGAAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATTGTACCTGC
TTCTCTGCCAGCTTTTCACTGCTGTGACAGTGATGGCGAAAGAGGGTAATAACCAGACACAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCTGCGCGGGACCATCTGGAATTGGTTTAGCCCAAGTGGAGCCTGACA
GCCAAGCTCTGTGTCCCGGTCTAACACAGCTCCTTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTTAGCCTGTGTCAATTGCC
CCAAATGGATTCTGTTTCAAGTTACACCTGCAGATTCTAGGACCTGTGTCTCTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTCTACCATGGAGTGGGTCTGGAGGACCTGCCCGGTGGGGGGGAGAGCCCTGCTCCCTCCGGGTC
TTCTACTCTTCTCTCTGCTCTGACGGGATTGTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAATCGTTAGGATACTGCCTCCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTACCAAGTGACCTGGAAGGCCAGCACCACCTCCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCCAGCGCTGACGTGTGAGGAAAACACCCAGGGAACTAGGAAGGCAC
TTCTGCCTGAGGGGAGCCTGCCTTGCCCACTCCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCCTCCCCAAGGCCCCCTGCCTGCCTGTGAGGAGGCAGAAGGAAGCAGGTGTGAGGGCAGTGCAAG
GAGGGAGCACAAACCCAGCTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCAGACCCCTGGAGGAAATC
CTACCTTTGAATTCAGAAACATTTGGGGAATTTGGAAATCTCTTTGCCCCCAAACCCCATTTCTGTCTACCTTT
AATCAGGTCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTTGGCTCCTGCCCCACTGATAGCC
CCTCTCCCCGAGTGTGTTGTGTGTCAAGTGGCAAGCTGTTCTTCTGTTGACCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTTGTCTCCTATCCTGGGCTTTTGTGTTGCTTTTTAGTTTTGCTTTTAGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTTATATATATATCTGTATATTG
CACAATTATAAACTCATTTTGTCTGTGGCTCCACACACACAAAAAGACCTGTTAAAATTATACCTGTTGCTTA

ATTACAATATTTCTGTATAACCATAGCATAGGACAAGGGAAAAATAAAAAAGAAAAAAAAGAAAAAAACGACAA
ATCTGTCTGCTGGTCACTTCTTCTGTCCAAGCAGATTCTGTGGTCTTTTCTCGCTTCTTTCAAGGGCTTTCTGT
GCCAGGTGAAGGAGGCTCCAGGCAGCACCCAGGTTTTGCACTCTGTTTCTCCCGTGCTTGTGAAAGAGGTCCCA
AGGTTCTGGGTGCAGGAGCGCTCCCTTGACCTGCTGAAGTCCGGAACGTAGTCGGCACAGCCTGGTGCGCCTTCCA
CCTCTGGGAGCTGGAGTCCACTGGGGTGGCCTGACTCCCCCAGTCCCCCTCCCGTGACCTGGTCAGGGGTGAGCCC
ATGTGGAGTCAGCCTCGCAGGCCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCACTCTGTTCGAGCCT
GGGGCTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCAGGTAGAACGCCAGGGACC
CCAGAATCATGTGCGTCAGTCCAAGGGGTCCCCTCCAGGAGTAGTGAAGACTCCAGAAATGTCCCTTTCTTCTCC
CCCATCCTACGAGTAATTGCATTGTCTTTTGTAAATTCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACA
GTTCTTTTTGATCATCTTTTTTTAATAATTAGAAACACCAAAAAAATCCAGAACTTGTTCTTCCAAAGCAGAGA
GCATTATAATCACCAGGGCCAAAAGCTTCCCTCCCTGCTGTCATTGCTTCTTCTGAGGCCTGAATCCAAAAGAAA
AACAGCCATAGGCCCTTTTCAGTGGCCGGGCTACCCGTGAGCCCTTCGGAGGACCAGGGCTGGGGCAGCCTCTGGG
CCCACATCCGGGGCCAGCTCCGGCGTGTGTTTCAGTGTTCAGTGGGTGATGATGCTCTTTCCACCCAGCCTGCG
GATAGGGGCAGAGGAGGCGAGGAGGCCGTTGCGCGTGATGTTTGCCCGTGAAACAGGTGGGTGTCTGCGTGCGTCC
ACGTGCGTGTTTTCTGACTGACATGAAATCGACGCCCGAGTTAGCCTCACCCGTGACCTCTAGCCCTGCCCGGA
TGGAGCGGGCCCCACCCGGTTTCAGTGTCTTCTGGGGAGCTGGCAGTGGAGTGCAAAAGGCTTGCAGAACTTGAAG
CTGCTCCTTCCCTTGCTACACGGCCCTCCTTTCCGTTTGATTGTGCTACTGCTTCAATCAATAACAGCCGCTCCA
GAGTCAGTAGTCAATGAATATATGACCAAATATCACCAGGACTGTTACTCAATGTGTGCCGAGCCCTTGCCCATG
CTGGGCTCCCGTGATCTGGACACTGTAACGTGTGCTGTGTTTGCTCCCCCTTCCCTTCCCTTCTTGTCCCTTTAC
TTGCTTTTCTGGGGTTTTTCTGTTTGGGTTTGGTTTGGTTTTATTCTCCTTTTGTGTTCCAAACATGAGGTTT
TCTCTACTGGTCTCTTAACGTGGTGTGAGGCTTATATTGTGTAATTTTGGTGGGTGAAAGGAATTTTGCT
AAGTAAATCTCTTCTGTGTTTGAACGTGAAGTCTGTATTGTAACATGTTTAAAGTAATTGTTCCAGAGACAAATA
TTTCTAGACACTTTTTCTTTACAAACAAAAGCATTTCGGAGGGAGGGGATGGTGAAGTGAAGAGGGGAGAGC
TGAACAGATGACCCCTGCCAGATCAGCCAGAAGCCACCCAAAGCAGTGGAGCCAGGAGTCCCACTCCAAGCCA
GCAAGCCGAATAGCTGATGTGTTGCCACTTTCCAAGTCACTGCAAAACCAGGTTTTGTTCCGCCCAGTGGATTCT
TGTTTTGCTTCCCTCCCCCGAGATTATTACCACCATCCCGTCTTTTAAGGAAAGGCAAGATTGATGTTTCCT
TGAGGGGAGCCAGGAGGGGATGTGTGTGTGCAGAGCTGAAGAGCTGGGGAGAATGGGGCTGGGCCCCACCCAAGCA
GGAGGCTGGGACGCTCTGCTGTGGGCACAGGTACGGCTAATGTTGGCAGATGCAGCTCTTCCCTGGACAGGCCAGG
TGGTGGGCATTCTCTCTCCAAGGTGTGCCCCGTGGGCATTACTGTTTAAAGACACTTCCGTACATCCCACCCCAT
CCTCCAGGGCTCAACACTGTGACATCTCTATTCCCCACCTCCCCTTCCAGGGCAATAAAATGACCATGGAGGG
GGCTTGCACTCTCTTGGCTGTCACCCGATCGCCAGCAAACTTAGATGTGAGAAAACCCCTTCCCATTCATGGC
GAAAAATCTCTCTTAGAAAAGCCATTACCCTCATTAGGCATGGTTTTGGGCTCCCAAAACCTTGACAGCCCCCTC
CCTCCTCTGAGAGGCGGAGAGTGCTGACTGTAGTGACCATTGCATGCCGGGTGCAGCATCTGGAAGAGCTAGGCA
GGGTGTCTGCCCCCTCTGAGTTGAAGTCATGCTCCCCGTGTGCCAGCCCAGAGGCCGAGAGCTATGGACAGCATT
GCCAGTAACACAGGCGACCCCTGTGCAGAAGGGAGCTGGCTCCAGCCTGGAAAACCTGTCTGAGTTGGGAGAGGTG
CACTTGGGGCACAGGGAGAGGCCGGACACACTTAGCTGGAGATGTCTCTAAAGCCCTGTATCGTATTACCTT
CAGTTTTTGTGTTTTGGGACAAATTAATCTTAGAAAATAAGTAGTGCCTTTTAAAAACAAAATATTGATTGCTTT
TTTGTAGTGTTTCAAAAAAAGGTTCTTTGTGTATAGCCAAATGACTGAAAGCACTGATATATTTAAAAACAAAAG
GCAATTTATTAAGGAAATTTGTACCATTTCAGTAACCTGTCTGAATGTACCTGTATACGTTTCAAAAAACCCCC
CCCCCACTGAATCCCTGTAACCTATTATTATATAAAGAGTTTGCCTTATAAATTT

3598/5332
FIGURE 3143

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCGGGCCCTGAGAGGCCCGGCAGGTCCCGGCCCGCGGGCGGC
AGCCATGGCCGGGGGGCCGGGGCCGGGGGAGCCCCGAGCCCCGGCGCCAGCACTTCTTGACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTGCCGCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCGTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGAAATTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTAGGGCCCTGAGCTCGGCCTGGTCCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTCTGCAGGGAGCCCGCCCCCTTTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGCACCCACAATTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCCCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGCTTCTACTGGTGTACGGCTTCTGCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTAGTTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTTCCAGCCGCTTGGCCGGTCCAGCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGGGGGCCACCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGCATTTCGGAGGCCGCCAGCTGCATCCCCCTTCCCCGCAGGAGAACTCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCTGGCAGCGCCATCAGGAGCCAGTGGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCCTGGGAGAGTGACGAGAGCCTAGGCGGCCCTCTGTCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCTGTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTGCTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGGCCGAAGAAAGTGATGAATTTAGAGTAGGTGTTTACCTGGGCAGATCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTGCAGAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGGCAGTGGGGGTGGGG
CCCATGCCCGCGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGAAAAGTGTGGCCGGGTGCGGT
GGCTCAGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTAGTCTTAGCAAGAAGCGAGAAATCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTACGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCTCTTGCCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTAGCCGTGAGTCACACTACATGCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGGAGTAATAAAACGTATGTT

3599/5332
FIGURE 3144

GAATTTCCCCCAGCGAGGCGAGTGAGGCGAAATACCCGTATGGTGATAGCTGGCCTTTTCGCGCCAATACTGAAA
AAGGCAGAACGTTCTCCGCTGGCGCCAGCCAATCAGCAGGACTCCTGCCTTCCTTCGGGGCAAGGTCGCAGCAT
CTGCCTCGGAAATCACGAAATCACGGGGCTTCTTTCTGCTGGCTCAGCCGGGAGGCCCAGAGTGTTCTGCAGAGG
CTGCGTATTGAAGGCTGCTCTCTGAAGCTCCCTGCCCCAGGTCACGCCGCCGGTTCCAGATGAATCCAGAGTGGG
GGCAGGCTTTCGTGCACGTGGCCGTGGCCGGTGGCCTCTGTGCCGTGGCTGTGTTACAGGGCATTTCGACAGTG
TTTCCGTGCAAGTGGGCTATGAGCACTACGCCGAGGCGCCCGTGGCCGGCCTCCCTGCCTTCCTGGCCATGCCGT
TCAACTCACTCGTGAACATGGCCTACACGCTGCTGGGGCTGTCGTGGCTGCACAGGGGCGGCGGATGGGGCTGG
GTCCCCGCTACCTGAAGGACGTGTTTCGCAGCCATGGCCCTGCTCTATGGCCCCGTGCAGTGGCTGCGCCTGTGGA
CGCAGTGGCGCCGTGCCGCGGTGCTGGACCAAGTGGCTCACACTGCCCATCTTTGCATGGCCCCGTGGCCTGGTGCC
TCTACCTAGACCGCGGCTGGCGGCCCTGGCTGTTCTCTCTCTTGAGTGCCTCTCCCTGGCCAGTTATGGCCTCG
CTCTGCTGCATCCCCAGGGCTTCGAGGTTCGCACTGGGTGCTCAGTGGTGGCCGCTGTGGGGCAGGCGCTGCGCA
CCCACAGGCACTATGGCAGCACCACTCGGCTACCTACTTAGCTTTGGGGGTGCTCTCTTGCCCTGGGCTTTGTGG
TCCTCAAGCTGTGTGACCATCAGCTCGCACGGTGGCGTCTCTTCCAGTGCCTCACAGGCCACTTCTGGTCCAAGG
TCTGTGACGTGCTCCAGTTCCACTTTGCGTTTTTGTCTTGACGCATTTCAACACTCACCCAAGATTCCATCCCT
CTGGCGGGAAGACGCGTTGAACCCAGGGAAGAACCTGCTGAAAACCGATGACCCCCAGCATTGAAATGGACTCTG
AGATGGCAGCGTGGTGCCAGTGTGACACATCCTGTGTGTGATGATATGCACTGATCACACAAGACTGCCCTTTCC
TGAGAAGCTGCGGGCTTCGGTGTGGAGGGGTGGAGTGCTGTGATCTCGACAACCTTACTTTCAAAGACATAAAGCA
CAGATCTCCGCACAGGGGATGTGTGTTCCTGATGTAATTTGCATAACTTTTCTGTAGTTTGAAATGTTTCCAA
ATAAATATTGGCAAGGGGAGTGGAATGACACCAAGAAGCCCTCATGCTCATGGTTGGAC

3600/5332
FIGURE 3145A

AGGGAGGAGGCATGAGCGCCCTGCCGTTACCGCTTCTTCTGCCGTACAGTTGCCGCTTCGGGGCCTAACTCTAGC
TCTTTGAAGCGGCTCCTGTGGGAAGGAGTCATAAGGCGGGAAGTGAGGATCGGACACCGCCTTGAGTTTGGTGTG
CAGTGGAAGAACTGACCTAGGAGGAAGAGAATAGGGGGGAACGGGGAGCTAGTCTCAAGATGGCGGCTCCACGG
CGGCAGGCGCAGCCTGAGCAGCAGAGGCGGACTAAGGGGAGAGGCGGAGACTTCACAAGCCGTACGGCGCGAGC
CCCCAAACGGCCCTCGAGAGCTCGAGCTGGTTCCACCGGCCTCCGGCCCGCCTCCATTGCTTAGGTGTGTGAGG
CTGTTTCGGGAGCGGCGGCTGCACTAAGGCGCTGGGCGGGGAAGCGGGACGGTCTCAAGATGGCGGCTCCACAA
TTGTGGTCTGAGCGCCGGCGGGGCTGCGACGACCGCGGCGCTTGTGGCTCCTTTCCACCCGCCCCGGAAGCCGGC
CAGTGCTGGGGAAGTGGGGGTGTGGGAACCGGGCCGGGGCTCCGCCATTTCCGGCGGGGAGGGCTACGACTGAG
GAAGGGAGGAGAGAGAGGCGGCTCAAGATGGCGGCTCCAGGGCCTCCCGCCGAGCTTGTAAGCGGGAGCGCCC
GGACAAGTAGTCGGGGCGACGGGACTCAGCGGCCTCCAGCTTCTTGAGCCTAGGCGCTCGACAGTTTCGGGCGCTCCA
TCTTGCGGAGACGGGTGAGCGAGAAGAAAGGGAAGAGCCAAAGGGAAGGAGGGCAGTTAAGATGGCGGCTCCCA
TGGAGTCGTCTACCGCTGTGTGAGAAACCGCTTCTCCGTGAGAGCTGCCTTAGACGAAAGGGGGTGTGTGAAAGG
AATTGAGGGGCTCCCTTCCCGCTTGTGACTTCTCCCCACCGCACCTTTCCCGGAACCTATGGCTTCGGCCGTGT
CGCCCCGCAACTTGCCAGCGGTGCTTCTGCGACCCCGCTGGAAGCGAGTGGTGGGCTGGTTCGGGTCCGGTGCCAC
GGCCCCGCGACGGCCACCGCGCGTGGCCATCAAGGAGCTCATCGTGGTGTGTTGGCGGCGGCAACGAGGGAATAG
TGGACGAAGTGCAGGTGTACAACACGGCAACCAACAGTGGTTCATCCAGCCGTGAGGGGGGACATTCCCCCTG
GGTGTGAGCCTATGGCTTTCGTGTGTGACGGGACTCGCCTCCTGGTGTGTTGGTGGGATGGTGGAGTATGGGAAAT
ACAGCAATGACCTCTACGAACTCCAGGCGAGCCGGTGGGAGTGGAAGAGACTCAAAGCAAAGACGCCCCAAAACG
GGCCCCCTCCGTGTCTCGACTCGGGCACAGCTTCTCCCTTGTGGGCAACAAATGCTACCTGTTTGGGGTCTGG
CCAATGATAGCGAGGACCCAAAGAACAACATTCCAAGGTACCTGAATGACTTATATATCCTGGAATTACGGCCAG
GCTCTGGAGTGGTAGCCTGGGACATTCCCATCACTTACGGGGTCTTACCACCACCCGGGAGTCACATACTGCCG
TGGTCTACACCGAAAAAGACAATAAGAAGTCCAAGCTGGTGATCTACGGCGGGATGAGTGGCTGACGGCTGGGGG
ACCTGTGGACCCTAGATATTGACACCCTGACGTGGAATAAGCCAGTCTCAGCGGGGTGGCGCCTCTTCCTCGCA
GTCTCCTACTCGGCAACCACCATCGGAAATAAAATGTACGTGTTTGGTGGCTGGGTGCCTCTCGTCATGGATGACG
TCAAAGTGGCCACACACGAGAAGGAGTGGAAGTGTACCAACACGCTGGCTTGCTCAACCTGGATACCATGGCCT
GGGAGACCATCCTGATGGATACACTGGAGGACAACATCCCCCGTGTCTCGGGCTGGCCACTGCGCAGTCGCCATCA
ACACCCGCTGTACATTTGGAGTGGGCGTGACGGCTACCGCAAGGCCTGGAAACAACAGGTCTGCTGCAAGGACC
TCTGGTACCTAGAGACAGAAAAGCCACCACCCCGAGCCGAGTACAACCTGGTACGCGCCAACACCAACTCCCTGG
AGGTGAGCTGGGGGGCAGTGGCAACAGCCGACAGCTACCTTCTCCAGCTCCAGAAATATGACATTCTGCCACGG
CTGCTACTGCCACCTCCCTTACACCCAATCCGGTCCCATCTGTGCTGCCAACCCCTCCCAAGAGCCCTGCCCCAG
CAGCAGCCGACCTGCTGTGCGACCGCTGACCCAAGTAGGCATCAGCTCCTGCCCCAGGCTGCCCCCGCACCCCC
CGACCACCACCATCCAGGTCTTGCCAACGGTGCTGGCAGCTCCATTTCTGTGCCCCACCGCAGCCAGGACTC
AAGGTGTCCCTGCTGTTCTCAAAGTGACCGGTCTCAGGCTACAACAGGAACCTCCATTGGTACCATGCGACCTG
CCAGCCAGGCTGGGAAAGCCCTGTACCGTGACCTCCCTTCCCGCCGAGTGCGGATGGTTGTGCCAACACAGA
GTGCCCAGGGAACGGTGATTGGCAGTAGCCACAGATGAGTGGGATGGCCGCACTGGCCGCTGCGGCCGCTGCCA
CCCAGAAGATCCCCCTTCTCGGCACCCACGGTGCTGAGTGTCCAGCGGGTACCACCATCGTGAAGACCATGG
CTGTGACACCTGGCACTACCACCCTCCAGCCACTGTGAAGGTGGCCTCCTCGCCAGTCATGGTGAAGCAACCCTG
CCACTCGCATGCTGAAGACTGCAGCCGCCAGGTGGGGACATCGGTTTCTTCCGCCACCAACACGTCTACCCGCC
CTATCATCAGAGTGCACAAGTCAGGCACTGTGACAGTGGCCAGCAAGCCAGGTGGTGACCACAGTTGTGGGCG
GGGTACCAAGACCATCACCTGGTGAAGAGCCCCATCTGTGCCAGGAGGCAAGTCTGATTTCGAATCTGG
GCAAAGTGATGTCGGTGGTCCAGACCAACAGTTTCACTTTCAGAGTACAGGCCAGGCGTCCACGGGTCTGT
TGACTCAGATCATCCAGACCAAGGGCCCTGCCAGCGGGAACAACTCCTGAAGCTGGTGACCTCAGCAGATGGCA
AGCCACCACCATCATCACTACCACGCGAGGCCAGTGGGGCGGGGACCAAGCCACCATCCTGGGCATCAGCAGG
TCTCCCCCAGTACCACCAAGCCCGGCACGACCACCATCATCAAACCATCCCATGTGCGGCATCATCACCCAGG
CGGGCGCCACGGGTGTGACCAGCAGTCTGGCATCAAGTCCCCATCACCATCATCACCACCAAGGTGATGACTT
CAGGAAGTGGAGCACTGCGAAAATCATCACTGCTGTCCCCAAAATTGCCACTGGCCACGGGCGCAGGGAGTGA
CCCAGGTGGTGTAAAGGGGGCCCCGGGACAGCCAGGCACCATCTCCGCACTGTGCCATGGGGGGTGTTCGCC
TGGTCACACCCGTACCGTCTCCGCCGTCAAGCCAGCCGTACACAGTGGTGTGAAAGGCACACAGGTGTCA

3601/5332
FIGURE 3145B

CGACCCTAGGCACAGTGACAGGCACCGTCTCCACCAGCCTTGCCGGGGCGGGGGGCCACAGCACTAGTGCTTCCC
TGGCCACGCCCATCACCACCTTGGGCACCATTGCCACCCTCTCAAGCCAGGTGATCAACCCCACTGCCATCACTG
TGTCGGCCGCACAGACCAGCTGACAGCGGCAGGCGGGCTCACAACCCCAACCATCACCATGCAGCCCGTGTCCC
AGCCACCCAGGTAACCTCTGATCACGGCACCTAGTGGGGTGGAGGCCAGCCTGTGCATGACCTCCCTGTGTCCA
TTCTGGCCTCCCCGACTACAGAACAGCCCACCGCCACAGTTACCATCGCCGACTCAGGCCAGGGTGATGTGCAGC
CTGGCACTGTACCTTGGTGTGCTCCAACCCACCCTGTGAGACCACGAGACTGGCACCACCAACACGGCCACCA
CTACTGTTGTGGCTAACCTTGGGGGACACCCCAAGCCACCCAAAGTGCAGTTTCGTCTGTGACAGACAGGAGGCAG
CTGCTTCTCTTGTGACCTCGACTGTGGGCCAGCAGAATGGTAGCGTGGTCCGAGTCTGTTTGAACCCGCCCTGCG
AGACCCACGAGACGGGCACCACCAACACCGCCACCACCGCCACCTCCAACATGGCCGGGCAGCATGGCTGCTCAA
ACCCACCCTGCGAGACCCACGAGACGGGCACCACCAACACTGCCACTACAGCCATGTGAGCGTCGGCGCCAACC
ACCAGCGAGATGCCCCTCGGGCCTGTGCAGCTGGCACCCTGCCGTGATCCGGATCAGTGTGGCCACTGGGGCGC
TGGAGGCAGCCCAGGGCTCTAAGTCCCAGTGCCAAACCCGCCAGACCAGCGGACCAGCACCACCATGACTGTGA
TGGCCACCGGGGCCCCGTGCTCGGCCGGCCACTCCTTGGGCCGAGCATGGCAGGGAGCCCGGGGGCCGAGCC
CTGCTTTTGTGCACTTGGCCCCCTCTGAGCAGCAAAGTCAGGCTGAGCAGCCCAAGCATTAAAGGACCTTCCTGCGG
GGCGCCACAGCCATGCGGTGAGCACCCTGCCATGACCCGTTCAGCGTGGGTGCTGGGGAGCCCCGCATGGCAC
CTGTGTGCGAGAGCCTCCAGGGTGGCTCGCCAGCACCAGTACTGTGACAGCCCTGGAGGCACTGCTGTGCC
CCTCGGCCACCGTGACCCAAAGTCTGCTCCAACCCACCATGTGAGACCACGAGACAGGCACCACCAACACCGCCA
CTACCTCGAATGCAGGCAGCGCCAGAGGGTGTGCTCCAACCCGCCATGCGAGACCCACGAGACGGGCACCACCC
ACACGGCCACCACCGCTACTTCAAACGGGGGACGGGCCAGCCCGAGGGTGGGCAGCAGCCCCCTGCTGGTGC
CCTGTGAGACACACCAGACCCTTCCACTGGCACCACCATGTGCGTCAGCGTGGGTGCCCTGCTTCCCGACGCCA
CTTCTTCCACAGGACCGTGGAGTCTGGCCTAGAGGTGGCGGCGCACCCAGCGTCACCCCCCAGGCTGGCACCG
CGCTGTGGCTCCTTTCCCAACACAGAGGGTGTGCTCCAACCCCCCTGTGAGACCCACGAGACGGGCACCACCTC
ACACGGCCACCCTGTCACTTCCAACATGAGTTCAAACCAAGACCCCCACCTGTGCCAGCGATCAGGGAGAGG
TGGAGAGCACCAGGGCGACAGCGTGAACATCACCAGTCCAGTGCCATCACGACAACCGTGTCTCTCCACTGA
CGCGGGCTGTGACCACCGTGACGAGTCCACACCGGTCCCGGGCCCCCTCTGTGCCGCCCCCAGAGGAACCTCAGG
TGTCGCCAGGTCTCTGCCAGCAGTCCCGCCACGGCAGCTTCTGCAGTCGGCTTCCACAGCCCTGATGGGGGAGT
CCGCCGAGGTCTGTGAGCCTCCAGACCCCTGAGCTCCCGCCGCCGTGGATCTGAGCAGCACAGGGGAGCCAT
CTTCGGGCCAGGAGTCTGCCGGCTCTGCGGTGGTGGCCACTGTGGTGGTCCAGCCACCCCCACCCACACAGTCCG
AAGTAGACCAGTTATCACTTCCCCAAGAGCTAATGGCCGAGGCCAAGCTGGCACCACCACCCCTCATGGTAACGG
GGCTCACCCCGAGGAGCTGGCAGTGACGGCTGCTGCAGAAGCAGCTGCCCAGGCCGAGCCACGGAGGAAGCC
AGGCCCTGGCCATCCAGGCGGTGCTCCAGGCCGCGCAGCAGGCCGTGATGGGCACCGCGAGCCCCATGGACACCT
CCGAGGCAGCAGCAACCGTGACTCAGGCGGAGCTGGGGCACCTGTGCGCCGAGGGTCAAGAGGGCCAGGCCACCA
CCATACCCATTGTGCTGACACAGCAGGAGCTGGCTGCCCTGGTGACAGCAGCAGCAGCTGCAGGAGGCCAGGCC
AGCAGCAGCATCACACCTCCCCACTGAGGCCCTGGCCCCCTGCCGACAGTCTCAACGACCCAGCCATTGAGAGCA
ATTGCCCTCAATGAGCTGGCCGGCACGGTCCCCAGCACTGTGGCGTGTGCTGCCCTCAACGGCCACTGAGAGCCTGG
TGACCGAAGTGGCCAATGGCATCGAGTCCCTGGGTGTGAAGCCAGACCTGCCGCCCCCACCAGCAAAGCCCCCA
TGAAGAAGGAAAACAGTGGTTTGATGTGGGAGTCATTAAGGGCACCATGTAATGGTGACACACTATTTCTGTC
CACCAGATGATGCTGTCCCATCAGACGATGATTTGGGCACCGTCCCTGACTATAACAGCTGAAGAAGCAGGAGC
TGCAGCCAGGCACAGCCTATAAGTTTCGTGTTGCCGAATCAATGCCTGTGGCCGGGGGCCCTTCAGCGAAATCT
CAGCCTTTAAGACGTGCCTGCCTGGTTTCCAGGGGCCCTTGTGCCATTAAATCAGCAAAGTCCGGATGGTG
CTCACCTCACCTGGGAGCCACCCTCTGTGACCTCCGGCAAGATTATCGAGTACTCCGTGTACCTGGCCATCCAGA
GCTCACAGGCTGGGGCGAGCTCAAGAGCTCCACCCCGGCCAGCTGGCCTTCATGCGGGTGTACTGCGGGCCCA
GCCCTCCTGCCTGGTGCAGTCTCTCAGCCTTTCCAACGCCACATCGACTACACCACCAAGCCCGCCATCATCT
TCCGATCGCCGCCGCAATGAGAAGGGCTATGGCCCGGCCACACAAGTGAGGTGGCTGCAGGAAACCAGTAAAG
ACAGCTCTGGCACCAGCCAGCCAACAAGCGGCCCATGTCTCTCAGAAATGAAATCTGCTCCAAAGAAATCTA
AGGCCGATGGTCAGTGAAGAGGAAGCTGACTAGCCCTGGATTCTTCTCAGACCCCCCTGCTTCAGGAACACCCG
CCAGGGCCCAACCCCTCCACCCCGTCCAGCATTCGCACTTCAACCTCGCGAGCCGCTGTTCACTCCTCTCCCCT

3602/5332
FIGURE 3145C

TTCTCTTTCTCTCTGTTTTTAAATAATCTAAAGAAAGCACATTTTACCATTGCTGTTGGGAGGAAGCAGAGGCA
GATGGGAAAGCAGAGAGAGGAGCGCGCTTCCTTTCCCTCCCCGCTGCCGCCACCCTGGGGAGAGACTTTTGCGGG
GAGGGAAGGCGGAGCTGAGGACAGCCAGCTCCGCCCTCCCAAGGCTGTGCGTTCCTGAGGGCCAGGTCGGGGGCA
GGCATGGAGGGGAGGAAAGGCGTCCCTCTTGCCCTCCCCAGAGTGGCTTTCCTGGCACCCCTGGCCTGGGTGTCT
GGTTCTGTTTTCTTTTCTTCCCCTTGTGTTTCCAGTCACCTAACTTCCCTTCCTCAGGCTCCCCCGGCCACCCT
GCTCAGTGACCCACAGGAAGCTTACACATTTTCTCAGAGGCCTTTGTGCTCCCACCTCTTCTACCTCCCCCTC
TTCTTTCCCATTTTAAAAAGAAAAGAAGGAAAAAGAAAAAGGGGCAAGGAGCCCCGCGCGGCCCTGGGCAGCG
CCTGTGCAGACCTCCCTGCAGGCCGCACTGCCAACTGCTGCATTTGTTGTGTTTTTAGGTTGCAATTGGTGAAG
TTCACACTTTTCATTGTAATTTTAGCGTGTGGGGTTTTGTCCCTTTTTTGTGTTGTTAGCTGTGTACAGAATGTG
TAATCTTTTTTCTTTTCTTTTTTTTTGTTTTGTTTTGTTTTGTTTTTACTTTTTTCTTCTTGCTA
ATTCTTGGCAGGGATCTTCTGGAGGAAAAGCTGGGGCCAGCCAGGGCAGGAGAGGTGTGAAATCTGCCACGAGG
GGCCTGCTGTTTGCCACCCAGCCCAACTTCCTGTTGCTGGCCCTGCCCTCTGCCCTTTTGCCTGTCTCAGGCC
GCTGGAACAAAGGAAGGACAGCTCATTCCCTCATGGGCGATCACTCCGCATCTATAGGGTCGAGCCTAGGGGAGCT
TGAGGGAGGGCTGGGGCCTCCTTGTCTGGATTTCCAGCTCTCCCCATGCCCCCTCCCTGAGCACCACCGGCACC
GCCTCCCCAACAGGGCTGCTGGTTTTCCGCAGCCACTGCTCCACCTCCCCCAAATCGTCATGGAAAGGGTGGAGAA
TGGAGGGGAACCAGGCGTCTTGGAGGCAGCTTGGGAGGGTGACTGTGTAGTGTACCCACAAGGGAGGCTAGGG
CAATGGAGCAGGCCACCAGCAGCAGCTGTGCAGCATGGAACCTCAGGCCAGGCTCCGAGGCTGGGGGATCTGCTTG
GAGTTTTCTGCCCCCACCCCAAACCTTCTGTGAGGAGCAAGGCTTGCCAGCAAGTCAGAAGGATTTGAACCGAG
CAGCCAATCTTTCCAGCCCTCCCCTACCGACCTCTGCCTGGAGACGCAGCAGCCTGTGTCTCCAGGGCCTCTGG
TTTGTGTATTATAGTATATTTGCTGTGGAATGTACGTTTAGTCACCTTGAGCCCACTCACCTGGTCCTG
TTGTTTTACCCATCCCTTCTCTCGCGCGCCTATTGATTGTTTCTGAGGAGAGTACACCGTTCACTATTGTAGA
GTAACCCCTGTGACTCAATATTACCATAGTGCATGTCGTTTTGTGCTATTTTGAACAATTAAGACTTTTTTT
GAAATAA

3603/5332
FIGURE 3146

CGGTCCCAGCCCCGGCCGTCCCGGCGTCGCTTCGGAGCGCGGCGGCAGCTGACTGCGCCTTCACGATCCGCTGGG
ACCCGCGAGCCCCGCCGCCGTTATGAACATCCGCAATGCGAGGCCAGAGGACCTAATGAACATGCAGCACTGCAA
CCTCCTCTGCCTGCCCGAGAACTACCAGATGAAATACTACTTCTACCATGGCCTTTCCTGGCCCCAGCTCTCTTA
CATTGCTGAGGACGAGAAATGGGAAGATTGTGGGGTATGTCTTGCCAAAATGGAAGAGGACCCAGATGATGTGCC
CCATGGACATATCACCTCATTGGCTGTGAAGCGTTCCCACCGGCGCCTCGGTCTGGCTCAGAACTGATGGACCA
GGCCTCTCGAGCCATGATAGAGAACTTCAATGCCAAATATGTCTCCCTGCATGTCAGGAAGAGTAACCGGGCCGC
CCTGCACCTCTATTCCAACACCCTCAACTTTCAGATCAGTGAAGTGGAGCCCAAATACTATGCAGATGGGGAGGA
CGCCTATGCCATGAAGCGGGACCTCACTCAGATGGCCGACGAGCTGAGGCGGCACCTGGAGCTGAAAGAGAAGGG
CAGGCACGTGGTGCTGGGTGCCATCGAGAACAAGGTGGAGAGCAAAGGCAATTCACCTCCGAGCTCAGGAGAGGC
CTGTGCGGAGGAGAAGGGCCTGGCTGCCGAGGATAGTGGTGGGGACAGCAAGGACCTCAGCGAGGTCAGCGAGAC
CACAGAGAGCACAGATGTCAAGGACAGCTCAGAGGCCTCCGACTCAGCCTCCTAGAGCCTGCCCCATCCCCTCCT
CACCCACGAGCTTTCACAATAAATTGCTCCGTGGCACTG

3604/5332
FIGURE 3147

CGTGGGAGCAGTGGGGTTTCGACGGCGCGGGCCGCGAGGCCCGCAATGGCCGCTCACGGGAAGCTGCGGCGGGAGCCGG
GGGCTGCAGGCTGAGTATGAGACGCAAGTCAAAGAGATGCGCTGGCAGCTGAGCGAGCAGCTGCGCTGCCTGGAG
CTGCAGGGCGAGCTGCGGCGGGAGTTGCTGCAGGAGCTGGCAGAGTTCATGCGGCGCCGCGCTGAGGTGGAGCTG
GAATACTCCCGGGGCCCTGGAAGAGCTGGCCGAGCGCTTCTCCAGCCGTGGAGGCCGCCTGGGGAGCAGCCGGGAG
CACCAAAGCTTCCGGAAGGAGCCGCTCCCTCCTGTGCGCCCTTGCACTGCTGGGCGGTGCTGCTGCAGCACACGCG
CAGCAGAGCCGGGAGAGCGCGGCCCTGAGTGAGGTGCTGGCCGGGCCCTGGCCAGCGCTGAGTCACATTGCA
GAGGACGTGGGGCGCCTGGTCAAGAAGAGCAGGGATCTGGAGCAGCAGTGCAGGATGAGCTCCTGGAGGTGGT
TCAGAGCTCCAGACGGCCAAGAAGACGTACCAGGCATATCACATGGAGAGCGTGAATGCCGAGGCCAAGCTCCGG
GAGGCCGAGCGGCAGGAGGAGAAGCGGGCAGGCCGAGTGTCCCCACCACCACCGCTGGTGCCACTGAGGCAGGG
CCCCCTCCGCAAGAGCTCCCTCAAGAAGGGAGGGAGGCTGGTGGAGAAGCGGCAGGCCAAGTTCATGGAGCACAAA
CTCAAGTGCACAAAGGCGCGCAACGAGTACCTGCTTAGCCTGGCTAGTGTCAACGCTGCTGTAGTAATACTACTAC
CTGCATGACGTCTTGGACCTCATGGACTGCTGTGACACAGGGTTCACCTGGCCCTGGGGCAGGTGCTCCGGAGC
TACACGGCCGCTGAGAGCCGCACCCAAGCTCTCCAAGTGCAGGGCCTGGGCAGCCTGGAAGAAGCTGTGGAGGCC
CTGGATCCTCCAGGGGACAAAGCCAAGGTTCTCGAGGTGCATGCTACCGTCTTCTGTCCCCGCTGCGCTTTGAC
TACCACCCCCATGATGGGGATGAGGTGGCTGAGATCTGCGTTGAAATGGAGCTGCGGGACGAGATTCTGCCCAGA
GCCCAGAACATCCAGAGCCGCTGGACCGACAGACCATTGAGACAGAGGAGGTGAACAAGACTGTGAAGCCGACA
CTGCAGGCCCTGCTGGAGGTGGTGGCCCTCGGATGACGGGGATGTGCTTGATTCTTCCAGACCGCCCTCCACC
GAGTCCCTCAAGTCCACCAGCTCAGACCCAGGCAGCCGGCAGGCGGGCCGAGGCGCGGCCAGCAGCAGGAGACC
GAAACCTTCTACCTCACGAAGCTCCAGGAGTATCTGAGTGCAGGAGCATCTCGCCAAGCTGCAGGCCAAGCAC
GAGAAGCTGCAGGAGGCCCTTCAGCCAGGTGACAAGGAGGAGCAGGAGGTGTCTTGGACCCAGTACACACAGAGA
AAATTCCAGAAAGACGCCCGCCAGCCCGCCCCAGCTCCAGTATAACCAGAGACTCTTTGGGGGAGACATGGAGAAG
TTTATCCAGAGCTCAGGCCAGCCTGTGCCCTGGTGGTGGAGAGCTGCATTGCTTCATCAACCTCAATGGCCTG
CAGCATGAAGGCATCTTCCGGGTATCGGGTGCCAGCTCCGGGTCTCAGAGATCCGTGATGCCTTCGAGAGAGGG
GAGGACCCACTGGTGGAGGGCTGCACTGCCCATGACCTGGACTCGGTGGCCGGGGTGCTGAAGCTCTACTTCCGG
AGCCTGGAGCCCCACTCTTCCCCCAGACCTGTTCCGGCAGCTGCTGGCTTCTTCGGAGCTGGAGGCCACAGCG
GAGAGGGTGGAGCAGTGAGCCGCTGCTGTGGCGGCTGCCCGCGCCGGTGCTGGTGGTTCTGCGCTACCTCTTC
ACCTTCTCAACCACCTGGCCAGTACAGCGATGAGAACATGATGGACCCCTACAACCTGGCCGTGTGCTTCGGG
CCCACGCTGCTACCGGTGCCCGCTGGGCAGGACCCGGTGGCGCTGCAGGGCCGGGTGAACCAGCTGGTGCAGACG
CTCATAGTGCAGCCGATCGGGTCTTCCGCCCCCTGACCTCGCTGCCTGGCCCCGTCTACGAGAAGTGATGGCA
CCGCTTCCGCCAGCTGCCTGGGGGACGCCAGCTGGAGAGCCTGGGGGCGGACAATGAGCCGGAGCTGGAAGCC
GAGATGCCCGCACAGGAGGATGACCTGGAGGGGGTCTGGAGGCTGTGGCCTGCTTTGCCTACACGGGCCGACA
GCCCAGGAGCTGAGCTTCCGGCGGGGGGACGTAAGTATACAGCTGCCCGCCGGGACGGAAGCAGGTGGT
GGCGCAGGGCTGCAGACTGCAGGGGAGTCTGGGAGCAGTCCCGAGGGCCTCCTGGCATCGAGCTGGTGCACCGG
CCAGAGCCATGCACCTCACTGAGGCCATGGGACCCTCTGGACACAGACGACGCTGCTTGGTCCCAGCTCCCCA
GAGCAACACGTGGAGGTGGATAAGGCTGTGGCAGAAACATGGACTCTGTGTTAAGGACTCTTGGGAAAGACC
TCTGTCCGCCAGGGCCTTGGGCCAGCATCTACCACCTCTCCAGTCTGGGCCCCGAAGCCCAAAGGCCCGGCC
AGCAGCCGCTTGGGCAGGAACAAAGGCTTCTCCCGGGCCCTGGGGCCCCAGCCTACCCCTCAGCTTCCACCCC
CAGGGCCTAGACACGACCCCCAAGCCACACTGAGGTGCGCTGCTGGAGATGCGTGCCCCCGCGCGCTACCCGCT
GGACCGGCACTTCCCCAGCCCCCTTGCTTCTCTCCAGCCCTGTCCAGCAAGTGCAGGGTGCCTGCACTTCACC
CTGTGCAGAGAGTGGGATGGGGCCGTGCACACAGGGATGCCCGCTCCACATCCTGCCTGCCCTCAGCCCTGGC
CAGGCCCCCTTTTGGAGGACGTGAGGAAGGATGTGGGGAAAGCCCTCTTCTGCAGCTTTGTGGAAGGCTGATC
AGTGGCTGCTGGGTGGCGGTACCCCTTGCTCAGATGCCTGGCAGGGCTGGGTGGCGATTATAAAGACCTCGTGT
TGATTCCCCG

3605/5332
FIGURE 3148A

GCGCGGTGCCGCCGGGAAAGATGGTTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAAGTGCAGCCCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCGCTTGAACCCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGACGGGCAGCCATTGGTCTTGAGTGCATCGCCGAGGGCT
TTCCCACGCCCAACATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCTGTCAGTGCCTGAAAGTGGCGAGGAGGATGATGGCGAGTACCGCTGCTGGCCGAGAACTCACTGG
GCAGTGGCCCGCATGCGTACTATGTACCCGTGGAGGCTGCCCCGTAAGTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGGCCAGGAGAGACTGCCCCGCTGGACTGCCAAGTCCAGGGCAGGCCCAACCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCAATGTGAGGCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCCTTCGGAGCGCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCTATGCCAATGGGACCCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGGCGCTGGTTCATCCACAGCCTGGACTACAGCGACCCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAAGTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGCTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTTGCAAGACCACAATGCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCTGAAAAATGGTACAGTCTGGGCAAGGTT
CAGGGAACCAGACCTTACCACCCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCCCAGCCCGGTCTCTGAGACTGTGGTGCACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCTTCTAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCAAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGCTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACAGTGTCTCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCCTTAAACGGGCGAGGATCGGGGCCCGCAGCGAGTTACCTTCAGCACCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTACCGGCTACGTGCTCTCTACCACCCCCTGGATGAGGGGGGAAGGGGCAACTGTCTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCCACTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAACTACAGTGTCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGCTTCCGCA
CTGAGGGCTGGTTTCATCGGCTTGTGAGTGCCATCATCTCCTGCTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

3606/5332
FIGURE 3148B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCT
GGCCTTGGGATCCAGGCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCTTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCTTTGGGTGCTGTTTGGCCAGCCATTGGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCACTGCCCCTGGCCGGC

3607/5332
FIGURE 3149

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCGATGGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCACCTTCTGACGCTGTCAATTCCTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAACAATTCCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCACGCGAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGA

3608/5332
FIGURE 3150

GGTCGCGGTCCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTGCGACCGC
GCGCGTGCGCAGTACCGGGTCCGCGCCTGTCCCCGAACTTCGCACCCCGTCGAACTCTCGCGAGAGCGGTATCT
GCGTGTCGGGACGTGCGGAGGCTCTCACTTTCCGTCATGCGCTGAAGGTAGCGACCGTCGCCGGCAGCGCCGCG
AAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCCTCGAGGAAC
ATCTTTTCAGAACAAACAATTCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCAGGGGAT
GGCATCGGGCCAGAGCTCATGTGCTGATGTCAAGTCCGCTTTCAGGCACGCATGTGTACCAAGTGGACTTTGAAGAG
GTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTGCAATGCCATCATGGCCATCCGCCGGAACCGCGTGGCC
CTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGCACCAGC
CTGGACCTCTATGCCAACGTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATAGACATC
CTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTGGAGAGC
CTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGCGGGCGC
AAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAACTGGGCGATGGGCTTTCTCTCCAGTGTGTCAGGGAG
GTGGCAGCCCGCTACCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTGTCCCGG
CCCCAGCAGTTTGATGTGTCATGGTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGACTGGTC
GGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGGAACACC
GGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTGGACCAC
CTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTGGCATCCATGGACAATGAGAATATGCACACT
CCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTATCCGCCACATCCGCGTCATCAACGGC
CGGGCCGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCACTCCAGCACC
CCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAG

3609/5332
FIGURE 3151

GGAGCTGCGGGCTGCGTGGCCGGGATGAGCGCCAGCACGGGCGGTGGTGGGGACAGCGGCGGCAGCGGCGGCAGT
AGCAGCAGCTCACAGGCCTCCTGCGGGCCCCGAGTCTCGGGCTCCGAAGTAGCCCTGGCCACACCGGTGCCTCAG
ATGCTGCAGGGCCTTCTGGGCTCCGACGACGAGGAACAGGAAGACCCCAAAGACTACTGCAAGGGCGGCTACCAC
CCTGTGAAGATCGGCGACGTGTCAATGGGCGGTACCACGTGGTGCGCAAACCTGGGCTGGGGCCACTTCTCCACC
GTCTGGCTCTGCTGGGACATCCAGCGCAAGCGCTTTGTGGCCCTCAAAGTGGTGAAGAGTGCAGGGGCATTACACG
GAGACAGCTGTGGATGAGATCAAGCTCCTGAAATGTGTCCGGGACAGCGACCCCACTGACCCCAAAAGAGAGACC
ATTGTCCAGCTCATTGATGACTTCAGGATCTCAGGAGTCAATGGAGTCCATGTGTGCATGGTGTGGAGGTGCTG
GGCCACCAGCTCCTCAAATGGATCATCAAGTCCAACCTACCAGGGCCTGCCCGTGCCCTGCGTGAAGAGCATCGTG
AGGCAGGTGCTGCACGGCCTGGACTACCTCCACACCAAGTGCAAGATCATCCACACGGACATCAAGCCCGAGAAC
ATCTTGCTGTGTGTGGGGGACGCTTACATCAGGCGCCTGGCTGCCGAGGCCACGGAGTGGCAACAGGCAGGGGCG
CCGCCCCCTCCCGCTCCATAGTCAGCACTGCCCCCAGGAGGTCTTGACCGTAAGCTGTCCAAAAACAAGAGG
AAGAAGATGAGGCGCAAACGGAAACAGCAGAAGCGGCTGCTGGAGGAGCGGCTGCGGGACCTGCAGAGGTGAG
GCCATGGAGGCTGCCACCCAGGCTGAGGACTCTGGCTTGAGACTAGACGGGGGCAGCGGCTCCACATCCTCTTCA
GGCTTCTCCGGCTCCCTCTTCTCTCCTGCCTCCTGCTCCATCCTCTCCGGCTCGTCCAATCAGCGAGAGACCGGG
GGCCTCCTGTGCGCTAGCACACCATTGCGGTGCCTCGAACCTCCTGGTGAACCCCTGGAGCCCCAAATGCAGAT
AAGATCAAGATCAAGATCGCAGACCTGGGCAACGCCTGCTGGGTGCACAAGCACTTCACGGAAGACATCCAGACT
CGGCAGTACCGGGCCGTCGAGGTGCTGATCGGCGCCGAATACGGCCCCCGGCAGACATCTGGAGCACAGCCTGC
ATGGCCTTCGAGCTGGCCACTGGTGAATACCTGTTGAGCCGCATTCTGGAGAAGACTACAGTCGTGATGAGGAC
CACATCGCTCACATAGTGGAGCTTCTGGGGGACATCCCCCAGCCTTCGCCCTCTCAGGCCGCTATTCCCGGGAG
TTCTTCAACCGGAGAGGAGAGCTGCGGCACATCCACAATCTCAAGCACTGGGGCCTGTACGAGGTACTCATGGAA
AAGTACGAGTGGCCCCCTAGAGCAGGCCACACAGTTACAGCGCCTTCTGCTGCCCATGATGGAGTACATCCCCGAA
AAGCGGGCCAGTGCCGCTGACTGCCTCCAGCACCCCTGGCTCAACCCCTAGGCCCCGGCTGTGGCTCCACCTCCAG
CTCTCCGTGCCTTAAGGGAAAAAGCGGGACAGCTCCACCACCCTGCTGGGCGCCAGTTCTCCACAACCACAGGGC
AGAGAGACGCTGGAGCCAGGCCCGGCTCTCAGAGCGTGTCTGCCTGAGACCCCGTGAGGGCTCTCGGAGAAAG
TGTGTGATTCTTCTTAATAAAGTGTGGACTGA

3610/5332
FIGURE 3152A

GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGAGGAGGAGGAGGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAAG
TTCTCTCACTTGGGCTGCCCCGAAGAGGCCGCGACCCTGGAGGGCCCTGAGCCACCACAGGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGGCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCGCGGTGCTCTCCAGGCCCGGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCACAAAGTCTACCCCTTGGTGCGCCAGTGCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCCGCGGGGAGCCCCACGAGGAGCCTCCGGGGTTCGCGCGGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCTCCGGGTCTGTGCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCCTGTGCGGTGTATGTGGCCCGCCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAACTGGCCCTGTCTGTTCCGAGCCGTCTGGTGGCCCCACGCCCTACC
GCCTCTACTTCTCCAGCAGACCTTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACCTGGTGGCCCTTTGCGGCCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTACACCCCTGCTTCGGGCGGCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTCTCTACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCTGTGGTATGTTATGCTGGAGCAGTTCCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGAAA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGCTGCTGACAAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTTACGCGCTGTCACTTCAAGAGGCCACAGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGCTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTCACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCACAGGCCCAATGGCTGEGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCACGTACGGTGGTGTGCTCTACAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAGGTGATCTACCCGGACTCAGTGGAGGACATGCAAGGAAGGGCTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTCGTGCACTGCACCATCCTGCAGCGGGAGGAGTGTGGAGG
CTATGTGTGACTGGAAGGACGTCCTGTGCGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTAGCCCTCCTGGATGAATGCAACGAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAAATACCACACACTTGCTAC
AGTTGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCGCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCCGTCATGCCTGGCCCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCTCGCCCTGTCCCTCCCACTCCCTGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGTGGAGGAAGCTGGGGTACAAGGGGCCAGTGTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCTCCTCGTCACTCTCTCAAAGACCCCATGGTCCATCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCCGC
CCCCCTCGGCCCCCTACCACCTCTTCTACAGCCTAATTTATTGGATTCCCTATTCTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCCACCGGTGCCAAA
CCCAGCCCCGCGGCCGTCACCCGCCAGCCTACACTGCCAGCCGCCACCGGGGCACAGGGCCCTCTGCTTGCCA
GCCAGGAGTGGCGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACACAGGGGAGCTGTCTGCGGAGCCAG
CGCCTGCCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCGGGGCCCTCAGCCCTCGGGCCGGGCACCACCCC

WO 2004/060270

10/531147
PCT/US2003/029126

3611/5332
FIGURE 3152B

CAGTCCCCCAGTAAA

3612/5332
FIGURE 3153

TTTCCGGCCGCGGTATGAGGGGCGGGGCGGGGCTGCTGTGGGAGAGTTCTGTTGCTGCGGCGGGGCTGCACGT
TGACTGTGGGAAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTCTCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTCCTTGCTGCTGCTTCCTTGCTTAGACGCCTGGTGACTCTCATTTGCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTGCGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCCCTCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCCCTGAGAGCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCACTCTCGGCCCTTGTCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGATGCGTTTGTGTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCTGTT
GGTTTGAGCCCTTTTGTGTTTGGCCTCTGGGTGTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAGCAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTGTCATGGTG

3613/5332
FIGURE 3154A

[illegible]

3614/5332

FIGURE 3154B

TGGGCTGCTAACCTGGCCTGCTCAGGCTTCCCACCCTGTGCGGGGCACACCCCAGGAAGGGACCCTGGACACGG
CTCCACGTCCAGGCTTAAGGTGGATGCACTTCCCGCACCTCCAGTCTTCTGTGTAGCAGCTTTAACCCACGTTT
GTCTGTACGTCCAGTCCCGAGACGGCTGAGTGACCCCAAGAAAGGCTTCCCGACACCCAGACAGAGGCTGCAG
GGCTGGGGCTGGGTGAGGGTGGCGGGCCTGCGGGGACATTCTACTGTGCTAAAAAGCCACTGCAGACATAGCAAT
AAAAACATGTCATTTTC

3615/5332
FIGURE 3155

GCTTCTGCGCGCCGGGGCCGCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCGGAGGGCAGCCGGCGCCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTGCACCATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCATGACCCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGA'CCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACCTCCGGGACAGCATCGTGAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCAACGCCCTGGGCCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCCGCC
GAGGTCGAGGCTGAGAAGCCGTGGTGGCAGGTGTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC

3616/5332
FIGURE 3156A

GTGTCCACGCTTAGCAGCTTTCTCACCGCCGCCAAACCTTGCCCTGGGCACTGGGACCGTGGGTGGCCGCTGTCC
CTAGCTGTGGCTGAGCCAAGATTGCACCTTGTGAGAAGGCCTGACAGGCAGCATGGGCGACATGGCCAATAGTTCC
ATCGAGTTCCACCCCAAGCCCCAGCAGCAGCGGGATGTCCCCCAGGCTGGAGGCTTTGGGTGCACGCTGGCGGAG
CTGCGCACCCCTCATGGAGCTGCGAGGGGGCCGAGGCGCTGCAGAAGATCGAGGAGGCCTACGGGGATGTACGCGGG
CTCTGCCGGAGGCTGAAGACCTCACCCACAGAGGGCTGGCGGACAACACCAATGACCTGGAGAAGCGCAGGCAG
ATCTACGGGCAGAACTTCATCCCCCAAGCAACCCAAGACCTTCCTGCAGCTGGTGTGGGAGGCCCTGCAGGAC
GTGACCCCTCATCATCTGGAGGTGGCTGCCATCGTCTCTCTGGGCCTCTCGTTCTATGCGCCGCCAGGAGAGGAG
AGTGAAGCCTGTGGGAATGTGTGCGGAGGCGCAGAAGATGAGGGCGAGGCCGAAGCTGGCTGGATCGAGGGGGCT
GCCATCCTGTCTGTCGTCATCTGTGTGGTGTGGTTCACGGCCTTCAATGACTGGAGCAAGGAGAAGCAGTTCCGA
GGCTGCGAGAGCCGAATTGAGCAGGAGCAGAAGTTCACGGTCATCCGGAACGGGCAGCTCCTCCAGGTCCCCGTG
GCTGCGCTGGTGGTGGGGACATTGCCCAGGTCAAGTACGGCGACCTGCTGCCAGCCGACGGCGTGCTCATCCAG
GCCAATGACCTCAAGATCGACGAGAGCTCCCTGACGGGCGAGTCTGACCACGTGCGCAAGTCAGCTGACAAAGAT
CCCATGCTGCTCTCAGGCACTCATGTCTATGGAAGGTCTGGAAGAATGGTGGTGACCGCCGTGGCGTGAATTC
CAGACAGGCATCATCTTCACGCTGCTTGGAGCTGGCGGAGAGGAGGAAGAGAAGAAAGATAAGAAAGGCAAGCAG
CAGGATGGGGCCATGGAGAGTAGCCAGACCAAAGCTAAGAAGCAGGATGGTGCAGTGGCCATGGAGATGCAGCCC
CTGAAGAGCGCGGAGGGTGGGGAGATGGAGGAGCGGGAGAAGAAGAAAGCCAACGCACCCAAAAAGGAGAAGTCT
GTCTTCAGGGGAAGCTCACAAGCTAGCCGTGCAGATCGGGAAAGCAGGGCTGGTGATGTCTGCCATCACCCTC
ATCATCCTGGTCTCTACTTTGTGATTGAGACGTTTGTGCTGGAAGGCCGACATGGCTGGCAGAGTGCACGCCG
GTCTATGTACAATACTTCGTGAAGTTCTTCATCATTGGTGTCACTGTGCTGGTCTGGTGTCTCCAGAGGGCCTG
CCTCTTGCTGTACCATCTCCTTAGCTTACTCTGTCAAGAAAATGATGAAAGACAACAACCTGGTGGCCACCTG
GATGCCTGCGAGACCATGGGCAACGCCACAGCCATCTGCTCCGACAAGACGGGCACGCTCACCACCAACCGTATG
ACCGTGGTCCAGTCTACCTAGGGGACACCCACTACAAAGAGATTCCGGCCCCCAGCGCCCTGACCCCTAAGATC
CTCGACCTCCTGGTCCATGCCATCTCCATCAACAGTGCCTATACCACCAAAATACTACCTCCTGAGAAGGAAGGC
GCCCTCCACGCCAGGTGGGCAATAAGACGGAGTGCGCCCTGCTGGGCTTCGTCTTGGACCTGAAGCGGGACTTC
CAGCCCGTGCAGCAGATCCCGGAAGACAAGCTTTACAAAGTGTACACCTTCAACTCGGTCCGCAAGTCCATG
AGCACAGTCATCCGCATGCCCCAGCGTGGCTTCCGCCTCTTCAGCAAGGGGGCCTCAGAGATCCTCTTGAAGAAAG
TGCACCAACATCTTGAACAGCAATGGCGAATCCGGGGCTTTCGGCCTCGGGACCGGGACGACATGGTGAGGAAG
ATCATCGAGCCGATGGCTTGCATGGCTCCGCACCATCTGCATCGCTACCGGGACTTCTCTGCAGGCCAGGAG
CCCGATGGGACAACGAGAATGAGGTGCTGGGTGACCTCACCTGCATAGCTGTCTGGGCATTGAGGACCCTGTG
CGGCCCCGAGGTCCCTGAAGCTATCCGAAAATGCCAGCGTCTGGCATCAGATCCGCATGGTGAAGTGGGACAA
ATCAACACGGCCCCGGCCATCGCAGCCAAATGCGGCATCATCCAGCCCCGGGGAGGACTTCTGTGCCTAGAAAGG
AAGGAGTTCAACCGCGGATCCGCAATGAGAAAGCGAGATAGAACAGGAGCGGCTGGACAAGGTGTGGCCCCAAG
CTGAGGGTGTGGCCCGGTGCTCTCCACCGACAAGCACACACTGGTCAAAGGGATTATCGACAGCAGCACTGGT
GAGCAGCGGCAGGTGGTGGCTGTGACAGGGGATGGCACCAACGATGGGCGGGCCCTCAAGAAGCGGACGTGGGC
TTCGCCATGGGCATCGCAGGGACCGACGTGGCCAAGGAGGCCTCCGACATCATCCTGACCGATGACAACCTTACC
AGCATCGTCAAGGCAGTCATGTGGGGCCGTAACGTCTATGACAGCATCTCCAAGTTCTGACAGTTTCAACTGACG
GTCAATGTGGTGGCTGTGATCGTGGCCTTCACAGGTGCCTGCATTACTCAGGACTCTCCTCTCAAAGCCGTGCAG
ATGTTGTGGGTGAAGTTGATCATGGACACATTTGCCTCTCTGGCCCTGGCGACGGAGCCACCCACAGAGTCGCTG
CTGCTGCGGAAGCCGTACGGCCGCGACAAGCCCCCTCATCTCCCGCACCATGATGAAGAACATTCTGGGCCACGCC
GTGTACCAGCTCGCCATCATCTTACCCCTGCTGTTTGTGCGGGAGCTCTTCTTCGACATCGACAGCGGGAGGAAT
GCGCCCCCTGCACTCGCCACCCCTCAGAGCACTACACCATCATCTTCAACACGTTTCGTATGATGCAGCTCTTTAAC
GAGATCAACGCCCCGCAAGATCCACGGCGAGAGGAACGTGTTTCGACGGCATCTTCAGCAACCCCATCTTCTGCACC
ATCGTTTTGGGCACTTTCGGGATTTCAGATTGTATCGTCCAGTTTGGCGGGAAGCCCTTCAGCTGCTCCCCACTA
TCCACAGAACAGTGGCTCTGGTGCCTGTTTGTGGTGTGGGGAGCTGGTCTGGGGACAGGTCAATTGCCACCATC
CCCACAGCCAGCTCAAGTGCCTGAAGGAAGCCGGGCACGGGCCCGGAAGGACGAGATGACCGACGAGGAGCTG
GCCGAAGGCGAGGAAGAGATCGACCATGCCGAGCGGGAGCTCCGAGGGGGCCAGATCCTCTGGTTCGGGGCCCTG
AACCGATTTCAGACGCAGATCCGGGTGGTGAAGCGTTCCGTAGCTCGCTCTATGAAGGCTGGAGAAACCAGAA
TCCAAGACCTCCATTACAACTTCATGGCCACGCCCCGAGTTTCTGATCAATGACTACACCCACAACATCCCGCTC

3617/5332
FIGURE 3156B

ATTGACGACACGGACGTGGACGAGAACGAGGAGCGCCTCCGGGCCCCCGCCCCCGTCCCCCAACCAGAACAAAC
AACGCCATAGACAGCGGCATCTACCTGACCACGCATGTCACCAAGTCAGCTACCTCTTCAGTGTTTCCTCCAGT
CCCGGGAGCCCGCTCCACAGCGTGGAGACGTCCCTCTTAACAAGAACTTGTCTCAGCACATGCGCACACGCACACT
CGGACTCACACGAAGTCACACGCACACATGCACGCACACACATATGGGGACCTGCACACCTGCAAAACGAGGG
AACAACTAAGGTGGCTGAAGACCTTTCTGGCAGGGCATTGTGCAAGGACCCAAATCCATTCAACAAGGGTGCAGCC
TGCCACAGGCTCCTCATCCGGAAGACGAGGACAGGGAGGAGGAAAAGGAGGAAGAGGAGGACAAAAG
GGGAGGAGAAGGTTCTTCGTCCAAAGGAG

3618/5332
FIGURE 3157

TCTCTCCACAACTGCCAGGAGTGAGTAGCTGCTTTCGGTCCGCCGACACACCGGACAGATAGACGTGCGGAC
GGCCACACCCAGCCCGCAACTAGTCAGCCTGCGCCTGGCGCCTCCCTCTCCAGGTCCATCCGCCATGTGG
CCCCTGTGGCGCCTCGTGTCTCTGCTGGCCCTGAGCCAGGCCCTGCCCTTTGAGCAGAGAGGCTTCTGGGACTTC
ACCCTGGACGATGGGCCATTATGATGAACGATGAGGAAGCTTCGGGCGCTGACACCTCGGGCGTCTGGACCCG
GACTCTGTACACCCACCTACAGCGCCATGTGTCTTTCGGCTGCCACTGCCACCTGCGGGTGGTTCAAGTGTCTC
GACCTGGGTCTGAAGTCTGTGCCCAAAGAGATCTCCCTTGACACCACGCTGCTGGACCTGCAGAACAACGACATC
TCCGAGCTCCGCAAGGATGACTTCAAGGGTCTCCAGCACCTCTACGCCCTCGTCTGGTGAACAACAAGATCTCC
AAGATCCATGAGAAGGCCTTCAGCCCACTGCGGAAGCTGCAGAAGCTCTACATCTCCAAGAACCACCTGGTGGAG
ATCCCGCCCAACCTACCCAGCTCCCTGGTGGAGCTCCGCATCCACGACAACCGCATCCGCAAGGTGCCCAAGGGA
GTGTTCAAGTGGGCTCCGGAACATGAACTGCATCGAGATGGGCGGGAACCCACTGGAGAACAGTGGCTTTGAACCT
GGAGCCTTCGATGGCCTGAAGCTCAACTACCTGCGCATCTCAGAGGCCAAGCTGACTGGCATCCCCAAGACCTC
CCTGAGACCTGAATGAATCCACCTAGACCACAACAAAATCAGGCCATCGAACTGGAGGACCTGCTTCGCTAC
TCCAAGCTGTACAGGTGGGCTAGGCCACAACAGATCAGGATGATCGAGAACGGGAGCCTGAGCTTCCTGCCC
ACCTCCGGGAGCTCCACTTGGACAACAACAAGTTGGCCAGGGTGCCCTCAGGGCTCCCAGACCTCAAGCTCCTC
CAGGTGGTCTATCTGCACTCCAACAACATCACCAAAGTGGGTGTCAACGACTTCTGTCCCATGGGCTTCGGGGTG
AAGCGGGCTACTACAACGGCATCAGCCTCTTCAACAACCCGTGCCCTACTGGGAGGTGCAGCCGGCCACTTTC
CGCTGCGTCACTGACCGCTGGCCATCCAGTTTGGCAACTACAAAAGTAGAGGCAGCTGCAGCCACCGCGGGC
CTCAGTGGGGTCTCTGGGGAACACAGCCAGACATCCTGATGGGGAGGCAGAGCCAGGAAGCTAAGCCAGGGCCC
AGCTGCGTCCAACCCAGCCCCCACCCTCGGGTCCCTGACCCAGCTCGATGCCCCATCACCGCCTCTCCCTGGCT
CCCAAGGGTGCAGGTGGGCGCAAGGCCCGGCCCCCATCACATGTTCCCTTGGCCTCAGAGCTGCCCTGCTCTCC
CTCCACAGCCACCCAGAGGCACCCCATGAAGCTTTTTCTCGTTCACTCCCAAACCCAAGTGTCCAAGTCTCCAG
TCCTAGGAGAACAGTCCCTGGGTGAGCAGCCAGGAGCGGTCCATAAGAAATGGGGACAGTGGGCTCTGCCAGGGC
TGCCGCACCTGTCCAGACACACATGTTCTGTTCCCTCCTCATGCAATTCAGCCCTTCAACCCCTCCCGACTC
TGCGGCTCCCTCAGCCCCCTTGCAAGTTTATGGCCTGTCCCTCCCAGACCCCTGCTCCACTGGCCCTTCGACCA
GTCCCTCCCTTCTGTTCTCTCTTTCCCGTCCCTCCTCTCTCTCTCTCTCTCTTTCTGTGTGTGTGTGTGTG
TG
CTGTTCCCTCCATCTCTCCGAACCTGGCTTCGCCTGTCCCTTTCACTCCACACCCTCTGGCCTTCTGCCTTGAGC
TGGGACTGCTTTCTGTCTGTCCGGCCTGCACCCAGCCCTGCCACAAAACCCAGGGACAGCGGTCTCCCCAGC
CTGCCCTGCTCAGGCCTTGCCCCAAACCTGTACTGTCCCGAGGAGGTTGGGAGGTGGAGGCCAGCATCCCGC
GCAGATGACACCATCAACCGCCAGAGTCCCAGACACCGGTTTTCTAGAACCCCTCACCCCACTGGCCCACTG
GTGGCTAGGTCTCCCTTATCCTTCTGGTCCAGCGCAAGGAGGGGCTGCTTCTGAGGTGCGTGGCTGTCTTTCCA
TTAAAGAAACACCGTGCAACGTG

3619/5332
FIGURE 3158

ATGGGCGGGGCGCGGCTCGGAGCGCGAAACATGGCGGGGCAGGACGCTGGCTGCGGCCGTGGCGGCGACGACTAC
TCAGAGGACGAAGGCGACAGCAGCGTGTCCAGGGCGGCTGTGGAGGTGTTGCGGAAGCTGAAGGACCTAAACTGC
CCCTTCCTCGAGGGTCTGTATATCACAGAGCCAAAGACAATTCAGGAACGCTGTGTCAGCCCCCTCAGAGTACCGC
TTGGAGATCCTAGAGTGGATGTGTACCCGGGCTCTGCCCCCTCACTGCAGGACAGGTTTCAGCTCACTGAAAGGGGTC
CCAACAGAGGTGAAGATCCAAGAAATGACGAAGCTGGGCCACGAGCTGATGCTGTGTGCGCCAGATGACCAGGAG
CTCCTCAAGGGCTGTGCCCTGCGCCAGAAAGCAGCTACACTTCATGGACCAGTTGCTCGATACCATCCGGAGCCTG
ACCATTGGGTGCTCCAGTTGCTCGAGCCTGATGGAGCACTTCGAGGACACCAGGGAGAAGAACGAGGCCTTGCTG
GGGAGCTCTTCTCTAGCCCCACCTGCAGATGCTCCTGAATCCAGAGTGCAGCCCGTGGCCCCCTGGACATGCAG
CCCCCTCCTCAACAAGCAGAGTGATGACTGGCAGTGGGCCAGTGCCTCTGCCAAGTCCGAGGAGGAGAGAAGCTG
GCGGAGCTTGCCAGGCAGTGCAGGAGAGTGTGCTGCAAGTTGCACGCGCTTAGAACGGAGTACTTTGCACAGCAT
GAGCAAGGGGCTGCTGCGGGCGCAGCCGACATCAGCACCCCTAGACCAGAAGCTGCGTCTGGTCACTTCCGACTTC
CACCAGCTAATCTTGGCTTTTCTCCAAGTCTACGACGACGAGCTGGGCGAGTGCTGCCAGGCCACAGGCCCTGAC
CTCCACCCGTGCGGCCCATCATCCAGGCCACGCACCAGAATCTGACTTCCTACAGCCAAATCCCCAGAGGCCAA
CCTAAAAAGCCGGCTTTAGTTACGATGACTACAGTTCCACAGTGCAGCAACTCTGCCCTTGGCTCAAGGATTCCGT
GATGTTCATTTTGGTTTTCTAAGCGAGAGGCTCCGAGCCTTCCAACCTCTGACTGGCTGGTCTGTGAGACCCCT
CGATCAGGGATGCTGCTGCAAGTGGTCATGGCAGTTGCTGACACCTCTGCGAAGGCCGTGGAGACCGTGAAGAAG
CAGCAAGGCCGAGCAGATCTGCTGGGGTGGCAGCAGCTCCGTCTAGTCTAGCTACCAAGATGAATGAACTAATG
GAGAAATAGAAAGTCTTCAGTGATGGCTACGCCAAAGCACAGGATGGGGCGGGCAGGAAGCCCTCTCCCAAGAT
CGAGTTGGCCGAGGATGGATGATTGTGGCAGCAGAAGCCGTTGCAGCCCCACGTTGTGCTCTAGGCAGCTGGGGG
CGGGCTGCGGCCGCTGATTAAAGGCCGCCTAGAGCAGCCTGTGTGGCGACAGGTGCCAGAAAGCCAGGAAGCCG
GTCAGTGCCCGCCCGAGTTTGAGGACTTGCTATCCCCGTGGGAACATCACCATGTCCGAGGCACCCCGGGCCGAG
ACCTTTGTCTTCTTGACCTGGAAGCCACTGGGCTCCCCAGTGTGGAGCCCGAGATTGCCGAGCTGTCCCTCTTT
GCTGTCCACCGCTCCTCCCTGGAGAACC CGGAGCACGACGAGTCTGGTGCCCTAGTATTGCCCCGGGTCTTGAC
AAGCTCACGCTGTGCATGTGCCCCGAGCGCCCTTCACTGCCAAGGCCAGCGAGATCACCGCCTGAGCAGTGAG
GGCCTGGCGCGATGCCGAAGGCTGGCTTTGATGGCGCGTGGTGCGGACGCTGCAGGCCTTCTGAGCCGCCAG
GCAGGGCCCATCTGCCTTGTGGCCACAATGGCTTTGATTATGATTCCCCCTGCTGTGTGCCGAGCTGCGGCGC
CTGGGTGCCCGCTGCCCGGGGACACTGTCTGCCTGGACACGCTGCCGGCCCTGCGGGGCTGGACCGCGCCAC
AGCCACGGCACCCGGGCCCCGGGGCCGAGGGTTACAGCCTCGGCAGCCTCTTCCACCGCTACTTCCGGGCAGAG
CCAAGCGCAGCCCACTCAGCCGAGGGCGACGTGCACACCTGCTCCTGATCTTCTGCACCGCGCCGAGAGCTG
CTGCCTGGGCCGATGAGCAGGCCCGTGGGTGGGCCACATCGAGCCCATGTACTTGCCGCTGATGACCCAGC
CTGGAGGCCTGA

3620/5332
FIGURE 3159

CTTCTCCGCTCCTTCTAGGATATCCGCCTGGTTTTGGCCCGCCTGCCTCCACTCCTGCCTTCACCATGTCCATCAG
GGTGACCCAGAAGTCCTACAAGTTGTCCACCTCTGGTCCCCGGGCCTTCAGCAGCCACTCCTACTCGAGTGGGCC
CAGTGCCCTGCATCAGCTCCTTGAGCTTCTCCCAAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGTGGCGGTTA
TGGTGGGGCCAGCGGCATGGGAGGCATCACCAGCAGTCATGGTCAACCAGAACCCTGCTGAGCCCCCTTGCTCCTGGA
GGTGGACCCCAACATCCAGGCCGTGTGCACCCAGGAGAAGGAGCCGATCAAGACCCTCAACAACAAGTTTGCTC
CTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCCGGAGACCAAGTGGAGCCTCCTGCAGCAGCA
GAAGACGGCTCGGAGCAACATGGACAAGTTCGAGAGCTACATCAACAACCTTAGGCAGCAGCTGGAGATTCTGGG
CCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGA
GGATGAGATCAATAAGCGTACAGAGATGGAGAATGAATTTGTGCTCACCAAGAAGGATGTGGATGAAGCTTACAT
GAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTTACTGAAGAGATCAGCTTCTCAGGCAGCTGTATGAAGA
GGAGATCCGGGAGCTGCAGTCCAGATCTCAGACACATCTGTGGTGCTGTCCATGGACAACAGCCACTCCCTGGA
CATGGACAGCGTCATTGCTGAGGTCAAGGCACAGTACGAGGACCGCCAGCCGAGCCAGGCTTGAGGCTGAGAGCA
TGTACCAGATCAAGAATGAGGAGCTGCAAGAGCCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACT
GAGATCTCCTAGATAAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCCCCAAAGGCCAGAGGGCTTCC
CTGGAGGCCGCCATTGCAGATGCACAGCAGCGCGGAGAGCTGACTATTAAAGTATGCCAACGCCAAGTTGTCCGAG
CTGGAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGTTGCGGCAGCTGCGTGAGTACCAGCAGCTGATGAACGTC
AAGCTGGTCTTAGACGTCGAGATCGCCACCTACAGGAAGCTACTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGG
ATGCAGAACATGAGTATTACACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTC
ACAAGCCCCAGCCTCAGCTATGGCCTGGGCTCCAGCTTGGCTCTGGCGCGGGCTCCAGCTCCTTCAGCCGCACC
AGCTCCTCGAGGGCCGTGGTTGTGAAGAAGATCGAGACAGTGATAGGAAGCTGGTGTCCGAGTCTCCGACTCC
TGCCCAAGTGAACAGCTGAGGCAGCCCCCTCCAGCCTGCCCCCTTCTGCGTGCCCCAGAGCCTGGGAGGGAGGCC
ACTAT

3621/5332
FIGURE 3160A

AATTGGCTCATTTAAGAATTTCAAACATTTAATGTAAAAGCTTTTTTTTTTTAAGGAAGTCCATAAAATTTTGG
TTCCAGGGTTGCACTGGACTTGAAGGAGTGCTGTGTGTACATACTATTGTATGGTTTTATTATTATTTTAC
TGTAACAATCAGCCGAAAGAATTTTCCAAGTGCCATTTTCGGATTATTAATCCTTTTTTTTTTCTTTCTCTCAA
AGATATTTGCTGTGTGCATATTAAGCATTGGAGACTAGAAAATTACTTTCCCCCTTTGAGCTAGAGGGTCTCTTG
CCAACAGAAGGACAGCTGAGAAAGCTGGATTTAAAGGATGGTTTTATCTGTACTTTGCAGTTAACAGTGATATTT
TGAAGGCACATTTTTCTGTGATTCATTTTTTTTTTGGCCATAGTGCTAACCTTGAAGAGATTCTGGCTGGGTTTT
TGGTTCTGAGAAGGTCGTAGTTTTTCTCTCTTTTCTTTTTTTTTTCTTTTTCTTTTTCTTTTTTTTTTAA
GCGGGGGAGGGGAAGAGGGGCTGAGAAAGGAAATCATGTTCACTGGTAGAAGTAGAGTGGAGCATCAGTTACCAG
GGTCTGAGAGCTGGAGGAGAAAGGATTCTATCTTCAAGTTGGGAGGCCCTCTCTCACCTTGCTCAAAAATTGC
AAGCGATTCAATCCTGATCAAGACACCAAGCTACAGGATTCTGGAACCGTGGAGACACCGAGAAACCATGAGTG
TAAGGTTACCCAGAGTATAGACAGGTTAAGTAGCCTGTCTTCTCTGGGAGATTCTGCACCAGAGCGCAAGTCCC
CTTCCCACCATCGCCAGCCTTCGGATGCCTCTGAGACAACAGGTCTCGTTCAACGCTGTGTCTATTATCCAAAAGG
ACCAGCATGGCTTCGGCTTCACAGTCAGTGGGGATCGCATTTGTTCTGGTGCAGTCTGTGCGGCCCTGGAGGTGCAG
CCATGAAGGCCGGTGTGAAAGAGGGCGACCGGATCATCAAAGTCAACGGCACCATGGTGACCAATAGCTCACACC
TGGAAGTGGTAAAGCTGATCAAATCTGGCGCCTATGTCCGACTCACCTCTCTGGGCTCTTACCTTCATCCATGG
GCTCTCTGGGCTCCAGCAGGACCCATCCCCAGGAGCTCCCCGAATCACGTCAGTGATCCCCCTCACCACCAC
CTCATCCACCTCTACCACCTCCACAACGCATCACAGGACCCAAACCTCTGCAGGATCCCGAAGTTCAAAAACATG
CCACCCAGATCCTCAGGAATATGCTGAGGCAGGAAGAAAAGAATTACAGCGTATCTGTGAGGTCTATAGCCGGA
ACCCCGCCAGCCTACTGGAAGAGCAGATCGAAGGTGCCCGGCGGAGTCACTCAGTTACAGCTGAAGATCCAGC
AGGAGACTGGTGGCTCAGTGGACATACTTCCACTATATGGTGACACCAGCCAGAGACCATCAGAAGGCCGGCTCT
CTCTGGATTCCAGGAGGGGGACAGTGGCTTGGACTCTGGGACAGAACGCTTTCCTTCCCTCAGTGAGTCATTGA
TGAATCGGAACCTCGGTACTGTGACACCCTGGGCTAGACAGTCCCTCGAACCTCCCTGTGATCATGGCCAGGGTGG
CCCAGCACCACAGGCGGCAGGGCTCGGATGCAGCAGTCCCTCAACCGGTGACCAGGGTGTAGATCAAAGCCCCAA
AGCCTTTAATTATTGGCCCAGAGGAAGACTATGACCCGGGTATTATTCAACAACGAGAGCGACATCATATTCCAGG
ATCTGGAGAACTGAAGTCTCGGCCAGCTCACCTGGGGGTTTTTCTACGTTACATCTTCTCTCAGGCGGACCCCA
GTCCACTGCTTTTTTACCTGTGTGCAGAAGTTATCAGCAGGCAAGCCCCAAGGATTCCCGAAGCTTGGGGAAAG
ACATCTGGAATATTTTCTGGAGAAAAATGCGCCTCTGAGAGTGAAGATCCCTGAGATGCTACAGGCTGAAATTG
ACTCGCGCCTGCGGAACAGCGAAGATGCCCCGTGGTGTCTCTGTGAAGCTCAAGAGGCAGCCATGCCTGAGATCC
AAGAGCAGATCCACGACTACAGAACGAAGCGCACACTGGGGCTGGGCAGCCTGTATGGTGAAGATGACCTGTGG
ACCTGGATGGGGACCCCTCTCCGAGAGCGCAAGTGGCTGAGAAGCAGCTGGCTGCCCTGGAGATATTTTGTCCA
AGTATGAGGAAGACAGGAGCGCCCATGGACTTCGCCCTCAAACCTACATGAGCCATGCTGGGATCCGCTCTTC
GAGAGGCACGACCTTCCAACACAGCTGAAAAGGCCAGCTGTCTCTGACAAGGACAAGTGGCTACCGTTCTTCC
CTAAGACCAAGAAGAGCAGCAATTTCAAGAAAGAAAAGGATGCCCTGGAGGACAAGAAGCGAAACCTATCTCTCA
AATACATTGGGAAGCCCCAAAAGCTCTTCTCAAAGCACATTTTATATTCCCTTGTCCCCTGTGGAAGTCAAACCAG
GCAATGTGAGGAACATCATTAGCACTTTGAAGAACAACAGCAGTATGATGCCCCAGAACCTGGGACACAACGAC
TCTCGACCGGAAGCTTTCTGAGGACCTGCTGGAGAGTGACAGTTACGCTCAGAGATTGCGCTGGGCCGCTCTG
AAAGCCTCAAGGGCCGGAAGAGATGAAACGGTCTCGAAAGGCAGAGAACGTGCCCGCTCTCGCAGTGATGTTG
ACATGGATGCTGTGCGGAGGCTACTCGCCTGCACCAGTCAGCCTCGTCTCTACCTCCAGCCTCTCCACCAGGT
CTCTTGAGAACCCAAACCCCTCCATTCACTCCCAAAATGGGCCGAGGAGCATTGAGTCCCCAGTTTGGGGTTCT
GCACAGATACCTCTCTTCCCCACCTCTAGAGGATGATCTGGGCCAGCTGTCTGACCTGGAGCCAGAGCCAGATG
CCCAAAATTGGCAGCATACAGTGGGCAAGGATGTGGTGGCTGGGCTAACCCAGCGGGAGATTGACCGGCAAGAGG
TCATCAATGAGCTGTTTGTGACTGAAGCTTCCCACCTGCGCACACTCCGGGTCTGGACCTGATCTTCTACCAGC
GAATGAAGAAGGAGAACCTGATGCCCCGGGAGGAGCTGGCCCCGGCTCTTCCCGAACCTGCCTGAACCTCATAGAGA
TTCACAATTCCTGGTGTGAAGCCATGAAGAAGCTCCGGGAGGAAGGCCCATCATCAAAGAGATCAGTGACCTCA
TGCTGGCCCCGGTTTGATGGCCCTGCCGAGAGGAACTCCAGCAAGTGGCTGCACAGTTCTGTTCTATCAGTCAA
TAGCCCTAGAGCTAATCAAGACCAAGCAACGCAAGGAGAGTGCATTCCAGCTCTTCATGCAGGAGGCTGAGAGCC
ACCTCAGTGTGGCGGCTGCAGCTGAGAGACCTCATCATCTCTGAGATGCAGCGGCTCACCAGTACCCGCTGC
TGCTGGAGAGCATCATCAAGCACACAGAGGTTGGACCTCTGAGCATGAGAAGCTGTGCCGGGCCCCGGGACAGT

3622/5332
FIGURE 3160B

GCCGGGAGATTCTCAAGTATGTGAATGAAGCGGTAAAACAAACAGAGAACCGCCACCGTTTAGAGGGCTACCAGA
AACGCCTGGATGCCACCGCCCTGGAGAGGGCCAGCAACCCCTGGCAGCAGAGTTCAAGAGCCTGGATCTTACAA
CCAGAAAAATGATCCATGAGGGACCCCTGACCTGGAGGATCAGCAAGGATAAGACCTTGGACCTCCACGTGCTGC
TGCTGGAGGACCTCCTAGTGCTGTACAGAAACAGGATGAGAAGCTATTGCTGAAGTGCCACAGCAAGACTGCTG
TGGGCTCCTCAGACAGCAAGCAGACCTTCAGCCCCGTGCTCAAGCTCAATGCTGTGCTCATCCGCTCTGTGGCCA
CAGATAAACGGGCCTTCTTCATCATCTGCACCTCCAAGCTGGGCCCCACCCAGATCTATGAGCTGGTTGCATTGA
CGTCATCAGACAAGAACACATGGATGGAGCTCTTAGAAGAGGGCCGTGCGGAATGCCACCAGGCACCCCGGAGCTG
CCCCAATGCCCCTCCATCCTCCACCCCCAGGTCCCCGGGAGCCAGCCAGCAGGGCCCCACACCCAGCAGGGTAG
AACTGGATGACTCAGACGTGTTCCATGGTGAACCTGAACCTGAGGAGCTGCCTGGAGGCACTGGGTCCCAGCAGA
GGGTCCAAGGGAAGCACCAGGTCTGCTAGAGGACCCCTGAGCAGGAGGGCAGTGCAGAGGAAGAGGAACCTGGGTG
TCTGCTTGGCCCTTCCACATCCCTGGATGGAGAGAACAGGGGCATCAGGACAAGGAACCCCATCCACTTGGCCT
TCCCAGGCCCTCTGTTTATGGAAGGGCTCGCTGACTCCGCTCTGGAAGATGTGGAGAACCTGCGACATCTGATCC
TGTGGAGCCTGCTGCGAGGTACACCATGGAAACTCAGGCTGCCAGGAGCCCGAGGACGACCTGACACCCACAC
CTTCTGTATCAGCGTCACCTCTCACCCCTGGGACCCAGGCTCCCCAGGGCAAGCACCCCTGGGGGTGAAGGGG
ACAACACCCAGCTTGCAGGGCTGGAGGGGGAACGGCCAGAGCAGGAAGACATGGGTCTCTGTTCTCTGGAACACC
TACCCCAAGGACCAGAAATTCTGGGATATGGGAGTCTCCAGAACTGGACAGGAATCTGGCTGAAGATGCTTCAA
GCACAGAGGCAGCAGGAGGTTACAAAGTTGTGAGAAAAGCTGAGGTGGCAGGCAGCAAGGTTGTCCCTGCACTAC
CAGAGAGTGGCCAGTCAGAGCCTGGGCCACCTGAAGTGAAGGCGGAACAAAGGCTACGGGGAACCTGCTTTTATG
TCAGCATGCCATCAGGACCCCGGACTCAAGCACCGACCACTCAGAGGCACCCATGAGCCCCCTCAGCCTGACA
GCCTCCCTGCAGGGCAGACAGAGCCTCAGCCTCAGCTGCAGGGAGGCAACGATGATCCAAGACGCCCCAGCCGCT
CTCCTCCAAGCCTGGCCCTCAGGGACGTGGGCATGATCTTCCATACCATTTAGCAGCTCACTCTCAAGCTCAACA
GGCTCAAGGATATGGAGCTGGCCACAGAGAGCTGCTCAAGTCCCTTGGGGGAGAGTCATCTGGTGGCACCCAGC
CTGTGGGCAGTTTCCACACAGAAGCAGCTAGATGGACAGATGGCTCCCTCTCACCTCCCGCTAAGGAGCCCTAG
CTTCTGACTCCAGGAACAGCCATGAACTGGGGCCCTGCCCTGAGGATGGCTCTGACGCCCCCTGGAAGACAGCA
CAGCAGACGCAGCCGCGTCACCAGGACCATTAACCGTACAAACCAAAATCCTCTGCGTCCCCACTCCTCCTTCA
GGGACTGGCCTGAGACCGGGGCACAGGGTAGGGGGGATCCCAACACTCCTCCCTGTGGAGGAGGCAGTTAGGGAA
ACTAGGATCCAGCCAAGGCCCGGGGGGAGACCCGCATGTTGCTTGGTCTGCTCAAGTCGGAGTCAGGTTTCAGTG
TCTTTTCCCTCCCTTAGCCCAACCCCTCAAGGCCTCATGTCTCCTAAGCATGCTGACTGCATCCGAAAGGCCCC
ACTCACCATGGTCTGCCCTCACCCACATATGTGTGTACACGCGCACGCCTGTATGTGCGCTGCCCTCAGACATG
CAAGTGAAAGGAGGAGGCTTCTGTGTAAATGCACCTTCTTCTCCCTCCTTTCTCCATAAGACCCAGGCAGAGG
TGGGTGCCTCCCTCCCTCCTTTGTCACTTTGGTTTCCATAAATATGTATGTATCGT

3623/5332
FIGURE 3161

GGAGAGATGATGAGTTGCTGAGTGTGCACACCTTTCCGGAACACATACACACACCCCTGCTCTGGGATCCCTTG
AGGCTGCCCTCATGGAGTTCCCCCTGGCCCAGATATGTCCCAAGGGAGTCACGAAGCCCCCATCCCAACCTTCA
GCACCTTCCAGATCAGACATGACCCGAGGAGCTGCCAGAACCTGGGCTACACTGCGGCATCTCCCCAGGCCC
CGGAGGCTGCCTCCAACACAGGGAATGCTGAGAGGGCAGAGGAGGTGCCTGGAGAAGGAAGCCTGTTCTGCAGG
CCGAGACCCGGGCTTGTTCCAGAAGACCCAGGCCACTGGCTCCTGCAGCACGGGGCAGCCCCTGCTGGTTCC
ATGGCTTCATACCCGGAGGGAGGCAGAGAGGCTGCTGGAGCCCAAGCCTCAGGGGTGCTACTTGGTGCGGTTCA
GCGAGAGCGCGGTGACCTTCGTGCTGACTTACAGGAGCCGGACTTGCTGCCGCCACTTCCTGCTGGCCCAGCTCA
GGGACGGGCGCCACGTGGTGCTGGGCGAGGACAGCGCCACGCGCGGCTGCAGGACCTGCTGCTGCACTACACCG
CGCACCCGCTCAGCCCCACGGGGAGACGCTCACCGAGCCCCCTCGCCCGACAGACTCCTGAGCCTGCAGGACTTT
CCCTGAGGACCGAAGAATCAAACCTTTGGAAGCAAAAGCCAGGACCCAAACCCCCAGTACAGCCCAATCATCAAAC
AGGGGCAAGCCCCAGTCCCGATGCAGAAAGAGGGGGCCGGGGAGAAGGAGCCCTCCCAGCTGCTCAGGCCCAAGC
CTCCCATCCCCGCCAAACCTCAGCTGCCCCAGAAGTCTACACAATCCCTGTTCCACGACACCGCCCGGGCCCCAC
GCCCCAAGCCCTCCAATCCTATCTACAATGAGCCTGATGAACCCATAGCTTCTATGCCATGGGCCGGGGCAGCC
CTGGGGAAGCCCCAGCAACATCTATGTGGAAGTGAAGATGAGGGCCTACCCGCCACCCTTGGGCACCCTGTCTC
TACGGAAGAGCTGGTCCAGGCCTGTCCCAGGAGGCCAGAATACAGGTGGCTCCCAGCTGCATTCTGAGAACTCTG
TGATTGGGCAAGGCCCTCCCCTGCCCCACCAGCCCCACCGCCTGGAGACACACCCTCCCCACAATCTTTCTA
GACAGGTGCTTCAGGACAGAGGACAGGCATGGCTTCCCCTTGGGCCTCCTCAGTAGGCGGTCTGGCCTGACCCCC
AACAAAGAAGCCTGGAGGTGAGAGAAGCAAATGCGGAGCCTGCTCCCTCCTAAGAAGATCCCAAGAATCCAATGG
CTCAGTCCTTGGTGATCTAAGACAGCAAAGAAGTGTGCAAGGAGGGCCCTGTTAGCTCCCACTGCTCCTGGTTTCT
CCTCCTGGAGTCTAATTTCTTGGCCCTCTGAGCCTTTTGTAGTCTGGGCCCTGGTCCAATGCTGCTGTTGTCTGA
GGAATGGTTTGGTGAGAACAGATGTTAGAACTGTTTGTGATTCTTGTCTGGCTAATAAATCATCACCAACTGC
CTTCTCCTACAGGGA

3624/5332
FIGURE 3162

CTGCGGCAAAGAACCGGGCTGTGTCCAAAGTGTCTCTGGAAGTTGTAGTTCCTGTATTGGTGAGGCAAGGAGGA
GGCGGAGTGACTCGGCGGCCATTAGCTGTGTGTAGTTGCCCGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTG
TTCGGTGGAAATCAGCCGTAGCCATGAGTTTCTGCCGGGGCTAGCCCTAGAGTACGGAGCAGGCGGACTTTTCGG
TTCCCCGCCCCGCCAGGTGGCGGGGCCCTACTAGGCCTCCGGGCATCCCCGGTCTCAAGTAGGCCTCATCTGCCGG
CAAGGGCGCCCCGAAACGCGGGAGGCGCCATGTCGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGA
GGCTGAGCCCCGAGCCGGAGGAAGAGGAGGCGGTGGCTCCTACATCTGGGCGCCGCTTTAGGGGGCTTGTTTCGCTTC
TCTCCCTGCGCCCAAGGGTCCGGCCTTGCTGCCTCCGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCGCGCGCT
GTTGCTTCCCCACCCACCGGAGACCCAGGCTTCAGCCTCCTCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCC
CCCACCTCCAGGCGTGAGCCCGGCTGAAGCGGCGGGAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCG
AGGCCCTGGCCTCAATCTGCCCCCTCCAATTGGCGGTGCCGGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAG
GAAAGAGCCCGTGAAGATCGCGGCGCCGAGTTGCATAAGGGAGATTAGATTCTGAGGAAGATGAACCCACAAA
GAAAGAACTATCCTTCAGGGATCCAGTGAGGGGACTGGTTTGTCTGCCTTGCTTCCCCAACCTAAAAACCTGAC
TGTGAAAGAGACTAACAGTTGCTCCTGCCCATGCCTTCTCCCGCAAACCTCGGATGGCTCCCCTGATACTAA
GCCCTCCAGACTGGCTTCTAAGACCAAGACTTCTCTCTTGGCCCTGTTGTGGGCACCACAACCACCACTCCGTC
GCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTGCCCTGCAGGTGACAAAGCAGATCACGCAGGAAGAAGACGA
CAGTGATGAGGAAGTAGCCCCGAAAACCTTTTTCTCCCTCCCTGAAAAGGCTGAGCCACCTGGAGTTGAGCCATA
CCCTTACCCCATCCCCACTGTCCCTGAAGAGCTGCCTCCAGGCACGGAACCAGAGCCGGCTTTCCAGGACGATGC
AGCCAATGCCCCCTTGAATTCAAGATGGCAGCAGGTTCAAGTGGGGCCCTTGGATGCCTAAGCCTGGGGACGA
CTACAGCTACAATCAGTTTTCCACATATGGCGATGCCAATGCCGCTGGTGCTTATTATCAGGATTATTACAGTGG
TGGCTACTATCCTGCACAGGACCCGGCCCTGGTCCCCCCCCAGGAAATTGCCCCAGATGCCTCCTTCATCGATGA
CGAAGCATTAAAGCGGCTGCAGGGCAAGAGGAACCGAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGA
TGACCAGCTCAGTGGGGCCAGCAATGGATGACTAAGTCATTGACAGAAGAGAAAACCATGAAGTCATTACGCAA
AAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGCGGAAACACCAGATCACATATCTTATTCATCAGGCCAAGGA
GCGGGAGCTGGAACTGAAGAACACCTGGTCAGAGAACAAGCTCAGCCGCCGTGAGACCCAAGCCAAATATGGATT
CTAGGGCTCTGGAACTGATTGCTCCAGGATCTCCTGCCAGCCAGCTGGCCTGGCCCCAGCTTCACCTCTGGG
ACCCAGCTGCTCTAAGCCAGGATCTCTTTCCCAAGGACCCAGCCCTCGCCTCTGCGAGAATGAACATATTTG
ATAGATTTTTCTTAACAAGTTAGAAAATTCAGCTCCTTTCTGTCTGGAGCTAGCAAAGACTTGTGTGATGCCTC
CGAAGGGGCTCTGAGTTCTGGGGTGGGAGTTTTGCTCTCTGTGAGGTGTGATAAAATGTTGAACCTCCCCACCA
CCACTTTTTTTTTTTAAACCAGGGATGTCTGTTGAAATAAAACATTTCAGTCTGAC

3625/5332
FIGURE 3163

GAGGAGGAGTGGGGACCGGGCGGGGGGTGGAGGAAGAGGCCTCGCGCAGAGGAGGGAGCAATTGAATTTCAAACA
CAAACAACCTGCACGAGCGCGCACCCACCGCGCCGGAGCCTTGCCCCGATCCGCGCCCCGCCCGTCCGTGCGGGCGC
GCGGGCGGAGACGCCGTGGCCGCGCCGGAGCTCGGGCCGGGGGCCACCATCGAGGCGGGGGCCGCGCGAGGGCCG
GAGCGGAGCGGGCGCCGCCACCGCCGCACGCGCAAACCTTGGGCTCGCGCTTCCCGGCCCGGGCGGGAGCCCCGGGGC
GCCCCGAGCCCCGCCATGTCGCGATCCAACCGGCAGAAGGAGTACAAATGCGGGGACCTGGTGTTCGCCAAGATG
AAGGGCTACCCACACTGGCCGGCCCGGATTGACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAACAAATAC
CAAGTCTTTTTTTTCGGGACCCACGAGACGGCATTCTGCGCCCCAAAGACCTCTTCCCTTACGAGGAATCCAAG
GAGAAGTTTGGCAAGCCCAACAAGAGGAAAGGGTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCCCTACTGTC
AAGGCTTCCGGCTATCAGTCTCTCCAGAAAAAGAGCTGTGTGGAAGAGCCTGAACCAGAGCCCCGAAGCTGCAGAG
GGTGACGGTGATAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCC
AAGGAGAAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCCTAAACGTCCTCAAG
GAGGCAGAAAACCCCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGGAGGTTGAGAGGCCCTTCCCTATGGAGGTG
GAAAAGAATAGCACCCCCCTCTGAGCCCGGCTCTGGCCGGGGGCCTCCCCAAGAGGAAGAAGAGGAGGAGGATGAA
GAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCCAGGCATCAGAGATCATGAGAGCCTGTAGCCACCAATGTTT
CAAGAGGAGCCCCCACCCTGTTCTGCTGCTGTCTGGGTGCTACTGGGGAAACTGGCCATGGCCTGCAAACTGGG
AACCCTTTTCCACCCCAACCTGCTCTCCTCTTCTACTCACTTTTCCCACTCCAAGCCCAGCCCATGGAGATTGA
CCTGGATGGGGCAGGCCACCTGGCTCTCACCTCTAGGTCCCCATACTCCTATGATCTGAGTCAGAGCCATGTCTT
CTCCCTGGAATGAGTTGAGGCCACTGTGTTCCCTCCGCTTGGGAGGGGCAATCCTCAAATGCGGGGTGGGGCAG
CACAGGAGGGCGGCCTCCTTCTGAGCTCCTGTCCCCTGCTACACCTATTATCCAGCTGCCTAGATTGAGGGAAA
GTGGGACAGCTTGTAGGGGAGGGGCTCCTTTCCATAAATCCTTGATGATTGACAACACCCATTTTTCCTTTTGCC
GACCCCAAGAGTTTGGGAGTTGTAGTTAATCATCAAGAGAATTGGGGCTTCCAAGTTGTTCTGGGCCAAGGACC
TGAGACCTGAAGGGTTGACTTTACCCATTGGGTGGGAGTGTGAGCATCTGTCCCCCTTTAGATCTCTGAAGCC
ACAAATAGGATGCTTGGGAAGACTCCTAGCTGTCTTTTTTCTCTCCACACAGTGCTCAAGGCCAGCTTATAGTC
ATATATATCACCCAGACATAAAGGAAAAGACACATTTTTTAGGAAATGTTTTTAATAAAAGAAAATTACAAAAA
AAATTTTAAAGACCCCTAACCCCTTTGTGTGCTCTCCATTCTGCTCCTTCCCCATCGTTGCCCCCATTTCTGAGGT
GCACTGGGAGGCTCCCCTTCTATTTGGGGCTTGATGACTTCTTTTTGTAGCTGGGGCTTTGATGTTCTTCCAG
TGTCATTTCTCATCCACATACCCTGACCTGGCCCCCTCAGTGTGTGTCACCAGATCTGATTTGTAACCCACTGAG
GGACAGAGAGAAATAAGTGCCCTCTCCACCCCTCTTCTACTGGTCTCTCTATGCCTCTCTACAGTCTCGTCTCT
TTTACCCTGGCCCCCTCTCCCTTGGGCTCTGATGAAAAATTGCTGACTGTAGCTTTGGAAGTTTAGCTCTGAGAAC
CGTAGATGATTTGAGTTCTAGGAAAATAAAACCCGTTGATTACT

3626/5332
FIGURE 3164

GCGGGGGAGGGGACGCTGAGGGCCCATGTGCTGAAAATCCGAAGTGCCGCGGAAAGTGGAGAGCTGACAAGGAAG
GTTTCGAGCGTTTTGCTGGCAAAGGGATTTCTTACAACCTCCAGGCATGCGTCTTTCTGCCCTGCTGGCCTTGGC
ATCCAAGGTCACCTCTGCCCCCCCATTACCGCTATGGGATGAGCCCCCAGGCTCTGTTGCAGACAAGAGGAAGAA
CCCCCATGGATCAGGCGGCGCCAGTGGTTGTGGAACCCATCTCTGATGAAGACTGGTATCTGTTCTGTGGGGA
CACGGTGGAGATCCTAGAAGGCAAGGATGCCGGGAAGCAGGGCAAAGTGGTTCAAGTTATCCGGCAGCGAAACTG
GGTGGTCGTGGGAGGGCTGAACACACATTACCGCTACATTGGCAAGACCATGGATTACCGGGGAACCATGATCCC
TAGTGAAGCCCCCTTGCTCCACCGCCAGGTCAAACCTTGTGGATCCTATGGACAGGAAACCCACTGAGATCGAGTG
GAGATTTACTGAAGCAGGAGAGCGGGTACGAGTCTCCACACGATCAGGGAGAATTATCCCTAAACCCGAATTTCC
CAGAGCTGATGGCATCGTCCCTGAAACGTGGATTGATGGCCCCAAAGACACATCAGTGAAGATGCTTTAGAAAG
AACCTATGTGCCCTGTCTAAAGACACTGCAGGAGGAGGTGATGGAGGCCATGGGGATCAAGGAGACCCGGAATA
CAAGAAGGTCTATTGGTATTGAGCCTGGGGCAGAGCAGCTCCTCCCCAACTTCTGTCCCAGCCTTGAAGGCTGAG
GCACTTCTTTTTTTCAGATGCCAATAAAGAGCACTTTATGAGTC

3627/5332
FIGURE 3165

AAGGCAGGCGCGGGTTAGAACGCGCCAGAGGTTCGGCGCGCACACCCGCACCGCCCCGACCCAGGTAGTGA
GGCCAGTGATTCCGAGTGTGTGAGGAGAGGAGTGTACGGCAAGGGGCGGGAAC TGGAAC TTGGCCCGCCTCGTTG
TGAGCTGAGCTCAGCGGCACGCTTTTGTGGCGTCACTGCACTGTTACCCCGCCCTACGTGTCTCTGACGCTGACA
CCTTCTCACTGTGAAACGTTCGCGACCTGTGACGTCTGGGGGGCGCCTCAAATCTTCCACTCCAGCATCGGATCCC
GGAAAGGCAGCGTCGGAGACTGGACCCAAAAC TCTTCCTGTTCTGCCTGCAGAGTTGAGCCCCGTCCGGGTCTG
GACCCGCGTAGTACTGACCCTGGATCCCTGTTCACTGCGTTCTCGCTCCCCGCGCTCCCTGCTGGACCCCGGGAT
GCCGGGCATCTCCGCCCCGAGGCCCTCTCATGAGGGGAGGAAGCAGCTAGCTGTTAACCTCACCCGTGCTCTGGC
ACTCTACCGTTCCATCTTGGATGCCTACATCATCGAATTTTTCACAGACAACCTATGGGACACACTCCCTTGCTC
ATGGCAGGAAGCATTGGATGGACTGAAACCACACAGCTGGCCACAATGCTGCTGGGGATGCCTGGGGAAGGGGA
GGTCGTCAGGTACAGGTCA GTGTGGCCACTCACCCCTGCTGGCCCTGAAGTCCACGGCGTGTGCTGGGCTTTAC
CCGGATGCCTGGCTTTT CAGACCCCTCAGAATTCCTGGAGAACCCAGCCAGAGCTCCCGACTAACAGCTCCATT
CCGGAACATGTCAGGCCCCAAGAAGCAGCATGAGATCCGGAGGCTGGGAGAGTTGGTGAAGAAGCTGAGTGATT
CACAGGCTGCACCCAGGTTGTAGACGTGGGCTCAGGCCAGGGCCATCTCTCCCGCTTCATGGCTCTTGGCCTGGG
GTTGATGGTGAAGAGCATCGAAGGGGATCAGAGACTGGTGGAGAGAGCCAGCGCCTGGACCAGGAGCTTCTGCA
GGCTCTGGAGAAAGAGGAGAAGAGGAACCCG CAGGTGGTCCAAACCAGCCCTCGTCACTCCCCACACCACGTGGT
TAGGTGGGTAGACCCACAGCCCTGTGTGAGGAGCTTCTGCTTCCACTGGAGAACCCGTGT CAGGGCAGGGCCCCG
CTTGCTGCTCAGAGCCCTCCACGCCTGTGGGGATCTGAGTGTGCTTGTGCTGAGACACTTCTCCTGCTGCTCTGA
GGTGGTGGCCCTGGCCTCAGTGGGCTGCTGCTACATGAAGCTGAGTGACCCTGGCGGCTACCCACTGAGTCAGTG
GGTGGCTGGGCTGCCTGGCTATGAACTGCCCTACCGGCTTCGGGAGGGGGCCTGCCATGCCCTGGAGGAATATGC
TGAGCGGCTACAGAAAGCTGGCCCTGGCCTTCGAACTCACTGCTACCGTGCAGCACTGGAGACAGTCATCCGACG
GGCCCGGCCGAGCTCCGTCGGCCAGGCGTGCAGGGTATCCCCAGGGTCCACGAGCTCAAGATTGAAGAATATGT
GCAGCGGGGGCTACAGCGAGTGGGGCTAGATCCCCAGCTGCCACTGAATCTGGCTGCCCTTCAGGCCACGTGGC
CCAGGAGAACCGTGTGGTGGCCTTCTTCAGCCTGGCTCTACTGCTTGCCCCACTGGTGGAGACGCTTATTCTACT
GGACCGGCTGCTGTACCTTCAGGAACAGGGTTTCCATGCTGAGCTCCTGCCCATCTTCAGTCTTGAAC TCTCTCC
CAGAAACCTGGTTCTGGTGGCCACCAAGATGCCCTGGGT CAGGCTCTTTCTGTTCTGGAGACTGAAGACAGCTG
ATGCAGCCTGAGGAAACATCTCAGACCCCATCATCTGAAAGTGCCAGAGACACAGTGGCAGAGTACATCTCAT
CCAGAGAAACAGCATCCTGCATCCTCCAGAGTCTGGTTCCTTCAGTTTCATCCCTTTCTCTCCTTCCATGGAT
TATGTAATACATTGTAAAGTTTAAATTAATTAATAAATTTGGATATCTG

3628/5332
FIGURE 3166

CTGGGAGGTAGGTTTGTGAGCGTGAGAGATCGATCTGTACCGCGGGGATCCGAAGTATGCTTATCCAGGTGGGCT
GCCTCAAGCCTCGATCCACCCCGCTGGTAGATGGTGTCAAGGTCCTTGCGTGGGAGAAGGACTTGGGTGAG
ATGCATGCGGAGATTGCCCCAATTCCGGCCTGGAGCCAAGGGAAAGGGATGCCGATTGTGTCTCTATTGGT
GGTCCACGCTGCGGATGCCTGGGTAGCCAGAGGTTATCTACGCCATACTTCTCACTGTTTTTGAGCATACCTAG
ATGTTTCCTTTCCTAGGCGGAGTATAGATCGCACGTGTTCTAGCCTCTTAGACTCAGAGGGTTCGAGCTCTATAAG
CCCCTCCACTCCCTTCATTTTACAAATGAGACTCAAACCTAGAGCGCGGTAAATGACCTTACTAAGACCAATGGC
TGGTGAATTGGGCTTCACTAGAATCCAGGCTTGCTGGCTAACACCAATGCTCCCTCCATCATTTCATGTTATGTT
TTCATTTCCCTCTGTCTGAGAGATTGCTCTGATGCTTTCTTCCATAAGTCTACGGAGATCGAGCTTACCTC
ATTTTCTCCAGGCTTAGGAGCTCAATTACCAGGATCACTTCTTCCCAGGGTGTACTACAGACCTCCACATG
TTGGACAGTAGGATTACGACAGAGAATGAGTCCCACATCCTCTTTTCATCCATAAGCCACTCTTCCCAACTACTCT
TCCGCCTTCCATTGTCCCTATGCTCTACTTTACTGCTCAATCTGGATTTTGGGGAACCTCCTCCCAAAAAGGCATT
AGAAGGAAATGCCAAGCACCGAAATTTGTCAAGAAGCGGAGGCTCTTAGAACGGAGAGGCTTTCTGAGTAAAAA
GAACCAACCCCTAGCAAGGCGCTAAGTTGCACTCTGAACCTTCAAAGAAAGGGGAACTCCTACGGTTCGATGG
CACTTGGAAGACCCCTTCCCTTCCCAAAAAGAAGACAGCTGCTTCCAGCAATGGGTGAGGACAGCCCTGGACAA
GAAAGCTGCAGTGTCTTGGTTGACCCCTGCCCTTCAAAAAGGCTGATTCTGTTGCTGCTAAAGTAGATTTGCT
GGGGGAGTTCCAGAGTGCCCTTCCAAAGATCAATAGCCACCCAACCGCTCTCAGAAGAAGAGCTCCCAAGAA
ATCCTCTAAAAAGAACCATCCTCAGAAGAATGCCCCACAGAATCCACCCAAGCTCATTAGAGAATAAATGCTC
CGGAGCATCCCAAGTTGCCACGGAAGATGGTGGCAATTGACTGTGAGATGGTGGGCACAGGACCAAGGGGCA
TGTTAGTTTCCTTGGCTCGATGTAGCATTGTCAACTACAACGGAGATGTGCTTATGACGAGTACATTCTTCCCC
CTGCCACATTGTGGACTACCGAACCGGTGGAGTGGTATCCGGAAGCAGCACATGGTGAATGCCACACCTTCAA
GATTGCTCGAGGCCAGATCTTGAAGATACTCACAGGAAGATAGTGGTGGGCGATGCCATCCACAACGACTTCAA
AGCCCTTCAGTACTTTACCCCAAGTCCCTCACCCGTGACACCTCCCATATCCCCCCCCTCAACCGAAGGCTGA
CTGCCCGGAGAATGCCACCATGTCTCTGAAGCATCTCACCAGAAGCTGCTAAACCGGGATATCCAGGTGGGAA
GAGCGGACATTCTCTGTGGAAGATGCCAGGCCACCATGGAGCTATATAAGTTGGTTGAAGTCGAGTGGGAAGA
GCACCTAGCCCGGAATCCCCCTACAGACTAGTGGCAGTGGGGACGCTGGTGATATGAGGAGGCAGAGGCAGCACC
CAGGAGAAACAGGGCAGTGGACCAATGGACAGCTCCACCAGCTCCACATCTTTGGAAGCTAGATTGGGGAGAGA
GAAGCTCTACCCCAAGCTTAATACCCATTGAAATTTACCTCAGGTGTTGTGCTCTGTTAAGTGTCCC
ATGGAAGGGGAAAGCCTTACGTCAGAACCCAACCTATACCTTTTACTTCTTAAATGGTGCTAACCCACAGGTGT
CCCAGGGTGCTCTGTGCCAGTTAAGATTTTAACTTTCAAGGGGCAGGGCATACTGGGAAATGTAGTTTCCCAA
CTGCCTTATCACTTGGGTGGACATATGTCTCCTTTTATGCCTTTTGGTCTTGAGTAATTAACAGCATCCTCTTCC
ACGCTCAGAAGTGTCTGTTGGTTGGGGCCAGGCATGGTGGCTCACACCTGTAGTCCCAACACTTAGGGAGGCCGAGG
CGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGCGAATTCCCGTTCTCTACTAAAAAT
ACAAAAATGTGTGGGTGTGGTGGCAGGAGCCTGTAATCCTAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCT
TGAGCCCAGGAGGCGGAGATTGCAGTGAGCCGAGATCGTGCTACTGCACTCCAGCCTGGGTGACAAGAGTGAGAC
TCCGTCTCAAAAAAAGAAATTTATTAACCTGGTTGGTTAATAAATGTGTGGTCCCTGCCGGGCGTG
GTGGCTCAAGCCTGTAATCCAGCACTTTGGGAGGCCGAGACGGGCAGATCACGAGGTGAGGAGATCGAGACCAT
CCTGGCTAACACGGTGAAACCCGTCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGGGCAGCTGTA
GTTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGCGGAGCTTGAGTGAGCCGAGATT
GTGCCACTGCACTCCAGCCTGGGCCACGGCCACAGAGCGAGACTCTGTCTC

3629/5332
FIGURE 3167

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCCAATTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACCTCGAGGAATTGCTCAAAGTGCTGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTGCGCACCACAGAGATTAACTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAGTGGCCACAGGTAGAACC GCGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCTCCTTCTAGGATAGCGCTCCCTTACCCAGTCACTTC
TGGGGGTCCTGGGATGCCTCTTGAGGGTCTTGCTTTCTTTGACCTCTTCTCTCTCTCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCTCCCAAGTCAGCAGTCCTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAATGCTTTAAAAAA

3630/5332
FIGURE 3168

AGTCGCTCAGGCTACTCCCACCCCGCCCCGCCCCGTCATTGTCCCCGTCGGTCTCTTTTCTCTTCCGTCCTAAAA
GCTCTGCGAGCCGCTCCCTTCTCCCGGTGCCCCGCGTCTGTCCATCCTCAGTGGGTCAGACGAGCAGGATGGAGG
GCTGCAGAACTGGCTCAGGAAAGCCCTCCTGGGATGGCTGGAGTGGAAAATGAGGATGAGGCAGAGCTGAATCTG
AGGGAGCAGGATGGCTTCACTGGGAAGGAGGAGGTGGTAGAGCAGGGAGAGCTGAATGCCACAGAGGAGGTCTGG
ATCCCAGGCGAGGGGACCCAGAGAGCCCTGAGCCCAAAGAGCAGAGAGGCTGGTTGAGGGAGCCAGTGTGAAG
GGAGGGGCTGAGGGCCTCCAGGACCCTGAAGGGCAATCACAACAGGTGGGGGCCCCAGGCCTCCAGGCTCCCCAG
GGGCTGCCAGAGGCGATAGAGCCCCTGGTGGAAGATGATGTGGCCCCAGGGGGTGACCAAGCCTCCCCAGAGGTC
ATGTTGGGGTCAGAGCCTGCCATGGGTGAGTCTGCTGCGGGAGCTGAGCCAGGCCCCGGGGCAGGGGGTGGGAGGG
CTGGGGGACCCAGGCCATCTGACCAGGGAAGAGGTGATGGAACCACCCCTGGAAGAGGAGAGTTTGGAGGCAAAG
AGGGTTTCAGGGCTTGGAAAGGGCCTAGAAAGGACCTAGAGGAGGCAGGTGGTCTGGGGACAGAGTTCTCCGAGCTG
CCTGGGAAGAGCAGAGACCCTTGGGAGCCTCCCAGGGAGGGTAGGGAGGAGTCAAGGCTGACCCCTTCACCTTGGCCTCTGGGGTCA
GAGGAAGCTGAGGAGATGTACCACAGTGTGCTGCTTCCCCAGGCCAACGTACACCCCGATCCTGGAAGATGCC
CCTGGGCCTCAGCCTCAGGCTGAAGGGAGTCAGGAGGCTAGCTGGGGGGTGACAGGGGAGGGCTGAAGCCCTGGGG
AAAGTAGAGAGCGAGCAGGAGGAGTTGGGTTCTGGGGAGATCCCCGAGGGCCCCAGGAGGAAGGGGAGGAGAGC
AGAGAAGAGAGCGAGGAGGATCAGGAGGAGGGGAGGGAGCCAGGGGCTGGGCGGTGGGGGCCAGGGTCTTCTGTT
GGCAGCCTCCAGGCCCTGAGTAGCTCCCAGAGAGGGGAATTCTGGAGTCTGATTCTGTGAGTGTCACTGTCCCC
TGGGATGACAGCTTGAGGGGTGCAGTGGCTGGTGCCCCAAGACTGCCCTGGAACGGAGTCCCAGGACAGTGCT
GAGCCTTCTGGCTCAGAGGAAGAGTCTGACCCTGTTTCTTGGAGAGGGAGGACAAAGTCCCTGGCCCTCTAGAG
ATCCCCAGTGGGATGGAGGATGCAGGCCCAGGGGCAGACATCATTTGGTGTAAATGGCCAGGGTCCCAACTTGGAG
GGGAAGTCACAGCATGTGAATGGGGGAGTGATGAACGGGCTGGAGCAGTCTGAGGAAGTGGGGCAAGGAATGCCG
CTAGTCTCTGAGGGAGACCGAGGGAGCCCTTTAGGAGGAGGAGGGGAGTGCTCTGAAGACCTCTTGGGCAGGG
GCTCCTGTTACCTGGGCCAGGGTCAGTTCCCTGAAGTTCACTCAGAGGGAAGGAGATAGAGAGTCTGGTCTCTCA
GGGGAGGACTAGGAAAAGACCATCTGCCCCGCACTGGGGACTTAGGGGTGCGGGGAGGGGAAGGACCCCTCCAAG
CCCCTCCCTGCTCAGGAGCAGCACTCTTAACCTACGATCTCTTGACATATGGTTTTCTGGCTGAGAGGCCTGGCC
CGCTAAGGTGAAAAGGGGTGTGGCAAAGGAGCCTACTCCAAGAATGGAGGCTGTAGGAATATAACCTCCCACCCT
GCAAAGGGAATCTCTTGCTGCTCCATCTCATAGGCTAAGTCAGCTGAATCCCGATAGTACTAGGTCCCCTTCCC
TCCGCATCCCGTCAGCTGGAAAAGGCCTGTGGCCAGAGGCTTCTCCAAAGGGAGGGTGACATGCTGGCTTTTGT
GCCCCAAGCTCACCAGCCCTGCGCCACCTCACTGCAGTAGTGACCATCTCACTGCAGTAGCACGCCCTCCTGGGC
CGTCTGGCCTGTGGCTAATGGAGGTGACGGCACTCCCATGTGTGACTCCCCCATCCCTGCCACGCTGTGGCC
TGCTTGGCTAGTCCCTGCCTGAATAAAGTAATGCCTCCGCTT

3631/5332
FIGURE 3169

GGCGGCGCACAAAGTCAGGTCGCGGCACATGTTTTCCGCGGAGCGGACCCAGCAATGACGGATGATATCACCTCTTCT
TCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACCATGAATGTCACCCAGAGGTCAAGAGTCGTGGGAT
GAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCGGAAGGAGAATGGTAT
CACTCAGGCTCTCAGGCTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGCCAAGGAGTTCACAAA
CCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAACTGGGCAGGATGGAGTACAGAT
AAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCCAAGCCCAACTTGCTGTATCAGAAGTTTGTGAAGAT
GGCTACATTGACTTCAGGTGGAGAGAAGCCAAACAAGACTTGAGAGCTGCAGTGATGACGACAACCAGGGGTC
CAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGCACACAAGGCTGCCCG
TCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGGCCAGGAGCAGGCCTTCCTGGCTCGTCTCAAAGG
CCAGGACCCTGGGGCCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCAAAAAAGAAAAAGGAGGCAGAA
AGAGGAGGAAGAAGCTACAGCATCTGAAAGGAATGATGCAGATGAGAAGCACCAGAACATGCTGAGCAGAACAT
CAGAAAAAGCAAGAAGAAGAAAGGCGACATCAAGAAGGAAAGGTCTCAGATGAAAGAGAGGGTACAACATAAAGG
GAATGAGAAGGAGGACGCTGCAGGAACAAGTGGGCTTGGGGAATTGAATAGCAGAGAGCAAACCAATCAGTCCCT
CAGGAAAGGGAAGAAAAAGAGAGGTGGCACCATGAAGAGGAGAAGATGGGGGTCTTGGAGGAAGGAGGAAAAAGG
CAAGGAGGCTGCAGGCAGTGTGAGGACAGAGGAGGTAGAGAGCAGGGCATATGCTGACCCATGCAGCCGAAGAAA
GAAGAGGCAGCAACAGGAGGAGGAGGACTTGAACCTAGAAGATAGAGGTGAGGAACTTTTAGGTGGTGAACCA
GGGAAGCAGAGAGCAGAGCATGCAGTGAAGGAAGCAGGAAAAGCAAGAAGAAAAGACAGCAGCATCAAGAGG
AGGAGGACATCTTGATGTAAGGGATGAGAAGGATGGCGGGGCTAGGGAAGCAGAGAGCAGAGCACACTGGCT
CAAGCAGCAGAGGTAAGAGGAAGAGGCAGCAGCATCCCAAGAAGGAAAGAGCTGGAGTCAGCACTGTCCAGAAAG
CCAAAAAGAAACAGAAGAAGAGAGACTAAAGGTCTGGTAAAGGTAGGGCTCAATTGATTGATTTTCAGGAGTTGA
AGCCTCAAAGACCAGGGTTGATGCAGGTCTGCAGGTCTTCTGCACCCCCCTCAATGAGGAGTCCCTCCCAGAAAG
GAACTGATCTCTGGGACGTGAGCTGCTGAGAGGAGCAAGCGGTAGTACCACCCTTAGTTGAGGGAGTCAGCAC
AGTCCTTTCTGCAGCTTCTAACCCAGGACCATGAACTCAGGTGCCTAGAGAAGCCAGGCAGCTAAAGGACAAGGA
ATGCTGGGGGCTGTGGGAACAGGAATGCAGATACCCTTTGAAGGAGCATTCTGCTAAAAGAAGCTGAAAATGTA
GACCTATGTGAAGTGCTCTGATTTCTAAATATTGTGAAGGTTAAGAAAAACATAAAATTTAGGTCTATGGGCTAGA
TTTAGCCACAGTTGCCAGTTTCTAGCGCTACCAATGAATGAATAAACATGAGCTTGCGCTCCTAGCCTAGAGA
TAAATCCTGACTGGCATCTCTGTTCCAGCCTGGGAAGGTCTGAATACAAATTAGAAGATATTCTTGGAGGCC
TTTGAAGAAATTCCTTCGGTTAACCTCTTTGTAGTCTTGCTACACTGATAAGTAGAAGTAGCTCCCTGTCTGTGT
CCCAATGAATAAGAATTGTGTAAAGGACAGCA

3632/5332
FIGURE 3170

ATAAGGCCTTCTCAACACCATCACCATCCCTATTCCCTTGTGGAAGCCCCCTAAGAATTTATAGCTCCAGGCAGT
GGTTTGCCAGCCCCCACCATTGCTCCTTGAGGAGCCACAGGGAGGTGTGCCATCCTGCATACTCGAACTTGGATA
GGAGATGGGCTGCTGCTGCTGGGATGTGCAGCAGCTTTGGCCTCTCTCACCCACAGCTGGCTGGTGAGCAGAACA
AGAAGAGGAAATGCTCTGGTTTCACAGGTCTTCACAGTGGACAAGTGCCAGTGACTGACAGTAAAGATGCCCCGC
TCCACCCCGACCATAGTACCTGTTTCACAGTACCTTCATTTAATCAGATTAATTGAGAGTCTACTATGGGCCAAGG
AGTTGGGGATTGAGAGTGAATAAGAATGAGATGGGCCCAGCCAGATGGAATCTACATAGGCAATTATGATGGA
AGTGTTCCTGTGATAGAGGAAGGGTACTCAACTCAGACTTCAGAGAATGGCTTCTAAAAGTAACTGATGTATAA
GCTGAGCTCTGGAGGATAAGAGAACTCAGAAGGTAAAGGGGAAAGGGAGAAGAATGTCCCAAGCAGAGGGAGC
AACATGTGCAATAACCTGAAGATGGAAGACTGTCGTACCTTCAAAGAAAAGAAACAGATTGGAATCTGTTATGCT
AATGGTTAGGCTAAAGTAGTGGTCTGAGAGAAAAGTGAAGAGATGAGGCTGGAGATGGCAGGAACAGGCATGCAG
AGCCATATAAGCCAGTCCGATAAATCTGGATTGTGTATCCTAGGTCAAACAAGACCCAGTGACATGATGACATT
TATGTTTTAGAGAGAACTGGATGCTTTGTGGAGAAGTCCATCCTCCACAAAGGTTGGGGTGGGGAGTGAGACT
ACAGGTGTTCTTAGGAGGCTGCTGGAGAAAAGAAATTAGGCAAGAGATGATGATGGCCCGAAGTGGGGTAGTAGAT
GGTAACAGAGATGTAGAGAAATGGGAAAGATTTGCTAGGTAACATGTATAGCCCTTAGCACATAATGACCATTAC
ATGTTAGCTTCTCCTATTGGTACAGTAGAAAGTGGAGGCCTGAAGTCTGGGTTCCAGTCTGTTTGCCATTAC
TAGCCAGCTGTGGGCTCTTCAGCAAACCACTTTTACCCTTTTAGCCACATCTGCAAAGCAGGGATGGTCCAGAT
AATCTCTCAGGTCTCCTCTGGCTTCTAAGTCTTTGAATTAGATGTCCCTGGCCCCCCCCAAAATTTGGCAGCTC
CTGACTTAAGAGACTGTACCCTACCTCCCACGCCCTATTGCTGCTCCCTTAACAGATGGCAGGATCCACGGAACC
TGAAGATCTCAATTCCTGCTGAGGGTCTGGGCAGTCTAAGTAAGCAACAGCAAGGCTGGTCACAGGATCCACTA
TGTTAGGAAAAGTTCTGAGAATTGATAAGGCATACAAGGCAACTGTTTCAGGCCCCAGGGAAACCAGGGAAGAGAAA
AAGGATGGACTCTGTTACCCACAGCCTCTAATACCTTCACAACTTCTGATACAGCAAGTTGGGCTTGGGATGAT
TATAACGGGTGGTCTCCTTAGAAAGGCTCCTTATCTGTACTCCATCCTGTAGAGAATTATCAGTACCAGTGAATG
GGTGACATATCATGACTGCCACAGGTCACAGGCTCCAGGCCCTCTGTTTCATGTGCCCATCTATCAAGAGCTCATA
CCTGCCAGTTTCCACTACCAAGTTGGCCGCAGTCTTGTGAAGAGCTCATTCACCAGTGGTTTGTGAAGTCTCT
TGGCAGGGTCATGTCCTACCTGCCAGGGGAATAAATATGAGCTCTGAGTGCCTGCCTCACCTGCCCTCAAGGGTC
CCCTCTCCACACATGCTAACCTTCCTCAGTCCACCCAGTCTTACCCCATGAGTGTCTTGCTTCAGTGTACCCCT
GAGAGCCTGAGTGATAACATTCTCCTTCCGGCCGAGGCCCTTTCCTGTCAGAGGACAGTGAGCGATTTGGCTTATT
CTCCTGCTGCTGTGAGACCTCACAAGGCACCCCCACACAGGCCCTTTCCTATTCACACACCTGACATTGGGG
TATACTCTGTACCTCTCAGAAGACCTCCTAGCGCACTTCTTTCTAGTACCACTCCATATAGTCCCCTGCCTTTGT
GTGAGCCTGAACTATCTCTTCTTCAAATTCTTTTGGTAGAGAGCCCATATCTCTTTTTCCCTCCCCTAGTCCCTC
CCAACCACCACTTCTTCAATTATCCACTGTCAAATTTCTTCTTCTTCCCTTTTCTGGGAAAGTTAGAAATTTTC
TTCTGCAAATTTCCCTTTAACTAGCTTTTCTCTCTTAAATTAATGGACTACATGGGGGGGTAATCCAGGATGA
TGGCTTTCCCTTGGGCAGATGGTAGGCAGGGAGCTGGGGGATGTGGAAGAGGGCCCCATGGGGATCACCTTGAGTC
CATCCATGCTTTAGCAGCTGCTCCTCAGCAAACCTTCATCCACGACTCTTGACCTCTGGGGTGACATTCATGGTG
AGAAAAAGTCTCTATCCTCAGACTCTCACCAGAGAAGAAGAGGTGATATCATCTTTTAAGAAGAAAGTAGAAA
GTGCCCCAACAGCCATCAGTTCATCCTGACTGCTTGTAAAGAATTCTCTGCTAGTTGGGTGACGTGGCACACAC
CTGTAGTCCCAGCTACATGGGAGGCTGAGGCGGGATTGCTTGAGTCCAGCCTGGGCAGTATAGCAAGACCCTCTC
TCATAAAAAAGATAAAGCGGCCAGGCACAGTGGTTCACATTTGTAATCCAGCACTTTGGAAGGCCAAGGTAGAA
GAATCACTTGAGCCCAGGAGTTCCAGACCAGTGTGGCAACGTAGTGAAACCTGCCTCTAGAAAAAATAAAAAA
TTAAAAAG

3633/5332
FIGURE 3171

GGGCCGGGGGCGCGCTCTGCGAGCTGGATGTCAGGCTGCGGGCGCTGCTGGGCCTCGGGCTGCTGGTTGCGG
GCTCGCGCGTGCCGCGGATCAAAAGCCAGACCATCGCCTGTCGCTCGGGACCCACCTGGTGGGGACCGCAGCGGC
TGAAC TCGGGTGCCGCTGGGACTCAGAGGTCATGGCGAGCACGGTGGTGAAGTACCTGAGCCAGGAGGAGGCC
AGGCCGTGGACCAGGAGCTATTTAACGAATACCAGTTCAGCGTGGACCAACTTATGGAAC TGGCCGGGCTGAGCT
GTGCTACAGCCATCGCCAAGGCATATCCCCCACGTCCATGTCCAGGAGCCCCCTACTGTCCTGGTCATCTGTG
GCCCCGGGAATAATGGAGGAGATGGTCTGGTCTGTGCTCGACACCTCAAAC TCTTTGGCTACGAGCCAACCATCT
ATTACCCCAAAAGGCCTAACAGCCCCCTCTTCACTGCATTGGTGACCCAGTGTCAGAAAAATGGACATCCCTTTCC
TTGGGGAAATGCCCGCAGAGCCCATGACGATTGATGAAC TGTATGAGCTGGTGGTGGATGCCATCTTTGGCTTCA
GCTTCAAGGGCGATGTTTCGGGAACCGTTCCACAGCATCCTGAGTGTCTGAAGGGACTCACTGTGCCCATTGCCA
GCATCGACATTCCCTCAGGATGGGACGTGGAGAAGGGAAATGCTGGAGGGATCCAGCCAGACTTGCTCATATCCC
TCACAGCCCCCAAAAAATCTGCAACCCAGTTTACCGGTGCTACCATTAACCTGGGGGGTCGTTTTGTGCCACCTG
CTCTGGAGAAGAAGTACCAGCTGAACCTGCCACCCTACCCTGACACCGAGTGTGTCTATCGTCTGCAGTGAAGGA
AGGTGGGTGGGTATTCTTCCCAATAAAGACTTAGAGCCCCTCTCTTCCAGAACTGTGGATTCTTGGGAGCTCCTC
TGGCAATAAAAGTCAGTGAATGGTGGAAGTCAGAGACCAACCCTGGGGATTGGGTGCCATCTCTCTAGGGGTAAC
ACAAAGGGCAAGAGGTTGCTATGGTATTTGGAACAATGAAAATGGACTGTTAGATGCC

3634/5332
FIGURE 3172

CAGGGGCGAGGGCTACCCGCTCTTTGCCGTGACAACACCGTTCCCCAGCCGGGCTGGAGGCTGTGCAGAAGGTA
TCCTGCAGACCATGAAGTGAAGCACTGTTCCAGACCGTTTCATGAGCACAGTGTAAGGTGTGCCGAGACCCACCAC
CCAGCGAGCCCTCCCCTCCGTAGCACTGAGGACCCCGGAGAAGATGGGGAGGAAAAAGATTTCAGATCCAGCGA
ATCACCGACGAGCGGAACCGACAGGTGACTTTACCAAGCGGAAGTTTGGCCTGATGAAGAAGGCGTATGAGCTG
AGCGTGCTATGTGACTGCGAGATCGCACTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACC
GACATGGACAAGGTGCTGCTCAAGTACACGGAGTACAATGAGCCACACGAGAGCCGCACCAACGCCGACATCATC
GAGACCTTGAGGAAGAAGGGCTTCAACGGCTGCGACAGCCCCGAGCCCGACGGGGAGGACTCGCTGGAACAGAGC
CCCCTGCTGGAGGACAAGTACCGACGCGCCAGCGAGGAGCTCGACGGGCTCTTCCGGCGCTATGGGTCAACTGTC
CCGGCCCCAACTTTGCCATGCCGTGTCACGGTGCCCGTGTCCAATCAGAGCTCACTGCAGTTCAGCAATCCCAGC
GGCTCCCTGGTCAACCCCTTCCCTGGTGACATCATCCCTCACGGACCCGCGGCTCCTGTCCCCCAGCAGCCAGCA
CTACAGAGGAACAGTGTGTCTCCTGGCCTGCCCCAGCGGCCAGCTAGTGCGGGGGCCATGCTGGGGGGTGACCTG
AACAGTGCTAACGGAGCCTGCCCCAGCCCTGTTGGGAATGGGTACGTGAGTGCTCGGGCTTCCCCTGGCCTCCTC
CCTGTGGCCAATGGCAACAGCCTAAACAAGGTTCATCCCTGCCAAGTCTCCACCCCCACCTACCCACAGCACCAG
CTTGGAGCCCCCAGCCGCAAGCCCGACCTGCGAGTCATCACTTCCCAGGCAGGAAAGGGGTTAATGCATCACTTG
ACTGAGGACCATTTAGATCTGAACAATGCCAGCGCCTTGGGGTCTCCCAGTCTACTCATTGCTCACCACCCCA
GTGGTTTCTGTGGCAACGCCGAGTTTACTCAGCCAGGGCTCCCCCTTCTTCCATGCCCACTGCCTACAACACA
GATTACCAAGTTGACCAAGTGCAGAGCTCTCCTCCTTACCAGCCTTTAGTTACCTGGGGGGTGTGCTAGGCAAT
GTCATGCTGGCAACAGCCACAGCAGCCCCAGCAGCCGACAGCCACAGCCTCCACAGCAGCAGCCACCGCAG
CCACAGCAGCCACAGCCACAGCAGCCTCAGCAGCCGCAACAGCCACCTCAGCAACAGTCCACCTGGTCCCTGTA
TCTCTCAGCAACCTCATCCCGGGCAGCCCCCTGCCCCACGTGGGTGCTGCCCTCACAGTCACCACCCACCCCCAC
ATCAGCATCAAGTCAGAACCGGTGTCCCAAGCCGTGAGCGCAGCCCTGCGCCTCCCGCTCCAGCTGTGTTCCCA
GCTGCCCCGCTTGAGCCTGGCGATGGTCTCAGCAGCCAGCCGGGGGATCCTATGAGACGGGAGACCGGGATGAC
GGACGGGGGGACTTCGGGCCCACACTGGGCCTGCTGCGCCAGCCCCAGAGCCTGAGGCTGAGGGCTCAGCTGTG
AAGAGGATGCGGCTTGATACCTGGACATTAAAGTGAAGATTCCCACTCCCCTCCTCTCAGCCTCCCTGATGAAGA
GTTGACAATCTCACCGCCCGCCCTTCCCTGCCCCGGGCTCCTCCCGCTCGACCCCCACTTCCTTCTTGTGCTTC
GTGTCCTGTTGACGGTTACATTTGTGTATAATTATTATATTATT

3635/5332
FIGURE 3173

TTGCGTAGGGGGCGGGACTAAGGCTGTCAATTGGTCTGTTTTTGTGCCGATCAATGAGATGGGTGCGGTGATTGG
CGACTACCTTGAGAGTAGCGGGTTGAGGTGTAAGCCCTGAGGAGGCAGCGTTTTCTGGGCTTCTGTCTGGTTCTC
TCTCTCCAGAAGGTTCTGCCGGTTCCTCCAGCTCTGGGTACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATC
GTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAACATCAATGCTG
CCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGG
GAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCA
TGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATTCTTGCAGGGGAAA
TGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTACCGCAAGGCAT
TGGATGATATGATCAGCACCCCTAAAGAAAAAAGTATCCAGTCGACATCAGTGACAGTGATGATGCTGAACA
TCATCAACAGCTCTATTACTACCAAGCCATCAGTCGGTGGTCACTCTTGGCTTGCAACATTGCCCTGGATGCTG
TCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAGATAAC
CTGGAGGCATCATTGAAGACTCCTGTGTCTTGGCTGGAGTCATGATTAAACAAGGATGTGACCCATCCACGTATGC
GGCGCTATATCAAGAACCCTCGCATTGTGCTGTGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAGACTG
ACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTG
AGGACATTATCCAAGTGAAGCCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACCTTA
TGCGGGCCAATATCACAGCCATCCGCAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTGTGGGGCCC
GGATAGTCAGCCGACCAGAGGAAGTGAAGAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAATCAAGAAAA
TTGGAGATGAATACTTTACTTTTCATCACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCCTCCGGGGGGCTA
GCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTGCGCAATGTTCTCCTGGACC
CTCAGCTGGTGCCAGGGGGTGGGGCTCCGAGATGGCTGTGGCCCATGCCTTGACAGAAAAATCCAAGGCCATGA
CTGGTGTGGAACAATGGCCATACAGGGCTGTGCCCAGGCCCTAGAGGTCAATTCCTCGTACCCTGATCCAGAACT
GTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGGCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTG
TAAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGA
CTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCACAAAAAGAAAG
GCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAAGTGTAGGCAAGGCTACTTCAATGC
ACAGAACCAGCAGAGTCTCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGCTTTGTTTCAAGAGGGA
TCAGGTTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCAGCTCAGTTTCCAAAAGACACTGACATGTAATTCTTC
TCTATTGTAAGGTTTCCATTTAGTTTGCTTCCGATGATTAAATCTAAGTCATTG

3636/5332
FIGURE 3174

GAATTGCGGCCGTATGCGCGGCTCTGTGGAGTGCACCTGGGGTTGGGGGCACTGTGCCCCAGCCCCCTGCTCCT
TTGGACTCTACTTCTGTTTGCAGCCCCATTTGGCCTGCTGGGGGAGAAGACCCGCCAGGTGTCTCTGGAGGTCAT
CCCTAACTGGCTGGGCCCCCTGCAGAACCTGCTTCATATACGGGCAGTGGGCACCAATTCCACACTGCACTATGT
GTGGAGCAGCCTGGGGCCTCTGGCAGTGGTAATGGTGGCCACCAACACCCCCACAGCACCCCTGAGCGTCAACTG
GAGCCTCCTGCTATCCCCTGAGCCCGATGGGGGCTGATGGTGTCTCCCTAAGGACAGCATTCAGTTTTCTTCTGC
CCTTGTTTTTACCAGGCTGCTTGAGTTTGACAGCACCAACGTGTCCGATACGGCAGCAAAGCCTTTGGGAAGACC
ATATCCTCCATACTCCTTGGCCGATTTCTCTTGGAAACAACATCACTGATTCATTGGATCCTGCCACCCTGAGTGC
CACATTTCAAGGCCACCCCATGAACGACCCTACCAGGACTTTTGCCAATGGCAGCCTGGCCTTCAGGGTCCAGGC
CTTTTCCAGGTCCAGCCGACCAGCCCAACCCCTCGCCTCCTGCACACAGCAGACACCTGTCAGCTAGAGGTGGC
CCTGATTGGAGCCTCTCCCCGGGGAAACCGTTCCCTGTTTGGGCTGGAGGTAGCCACATTGGGCCAGGGCCCTGA
CTGCCCCCTCAATGCAGGAGCAGCACTCCATCGACGATGAATATGCACCGGCCGTCTTCCAGTTGGACCAGCTACT
GTGGGGCTCCCTCCCATCAGGCTTTGCACAGTGGCGACCAGTGGCTTACTCCCAGAAGCCGGGGGGCCGAGAATC
AGCCCTGCCCTGCCAAGCTTCCCCTCTTCATCCTGCCTTAGCATACTCTCTTCCCCAGTCACCCATTGTCCGAGC
CTTCTTTGGGTCCCAGAATAACTTCTGTGCCTTCAATCTGACGTTGGGGCTTCCACAGGCCCTGGCTATTGGGA
CCAACACTACCTCAGCTGGTCGATGCTCCTGGGTGTGGGCTTCCCTCCAGTGGACGGCTTGTCCTCCACTAGTCCT
GGGCATCATGGCAGTGGCCCTGGGTGCCCCAGGGCTCATGCTGCTAGGGGGCGGCTTGTTCTGCTGCTGCACCA
CAAGAAGTACTCAGAGTACCAGTCCATAAATTAAAGGCCCGCTCTCTGGAGGGAAGGACATTACTGAACCTGTCTT
GCTGTGCCTCGAACTCTGGAGGTTGGAGCATCAAGTTCCAGCCGGCCCTTCACTCCCCCATCTTGCTTTTCTG
TGGAACCTCAGAGGCCAGCCTCGACTTCTGGAGACCCCCAGGTGGGGCTTCTTCATACTTTGTTGGGGGACTT
TGGAGGCGGGCAGGGGACAGGGCTATTGATAAGGTCCCCTTGGTGTGCTTCTTGCACTCTCCACACATTTCCCT
TGGATGGGACTTGCAGGCCTAAATGAGAGGCATTCTGACTGGTGTGCTGCCCTGGAAGGCAAGAAAATAGATTTA
TTTTTTTTT

3637/5332
FIGURE 3175A

GTCGCGGGCAGCCGCTCACAGCGATGGCGGCCGAGCAGGGCCGGTGGCGGCGGCGGCTGCGGCTACGGCCGGAG
ACGGCAGTGTGGCGGTAGTGGTGGTGGCAGGGGCCGTGTGACCGGGAGCTGCCCCGGACCCGGGCACCATGAG
CCAAGGCCCCCCACAGGGGAGAGCAGCGAGCCCGAAGCAAAAGTCTCCACACTAAGCGGCTTTACCGGGCTGT
GGTGGAGGCTGTGCATCGACTTGACCTCATCCTTTGCAACAAAAGTCTTATCAAGAAGTATTCAAACCAGAAAA
CATTAGCCTGAGGAACAAGCTGCGTGAGCTCTGCGTCAAGCTTATGTTCTGCACCCAGTGGACTATGGGAGAAA
GGCTGAGGAGCTGTGTGGAGAAAGGTATACTATGAAGTTATCCAGCTTATCAAGACTAACAAAAAGCACATCCA
CAGCCGGAGCACTTTGGAATGTGCCTACAGGACGCACCTGGTTGCTGGTATTGGCTTCTACCAGCATCTCCTTCT
CTATATCCAGTCCCCTACCAGCTGGAAGTGCAGTGTGCATCGACTGGACCCATGTCACTGACCCCTCATAGG
ATGCAAGAAGCCAGTGTCTGCCTCAGGGAAGGAGATGGATTGGGCACAGATGGCATGTACCCGATGTCTGGTGTA
TCTGGGGGATTTGTCCCGATATCAGAATGAATTAGCTGGCGTAGATACCGAGCTGCTAGCCGAGAGATTTACTA
CCAAGCCCTGTCAGTAGCTCCTCAGATTGGAATGCCCTTCAATCAGCTGGGCACCCCTGGCAGCAGCAAGTACTA
TAATGTGGAAGCCATGTATTGCTACCTGCGCTGCATCCAGTCAGAAAGTGTCTTTGAGGGAGCCTATGGGAACCT
CAAGCGGCTGTATGACAAGGCAGCCAAAATGTACCACCAACTGAAGAAGTGTGAGACTCGGAAACTGTCTCCTGG
CAAAAAGCGATGTAAAGACATTAAAAGGTTGCTAGTGAAGTTTATGTATCTGCAAAAGCCTCCTACAGCCCAAAAG
CAGCTCCGTGGACTCAGAGCTGACCTCACTTTGCCAGTCAGTCTGGAGGACTTCAACCTCTGCCTCTTCTACCT
GCCCTCCTCACCAACCTCAGCCTGGCCAGTGAGGATGAGGAGGAGTATGAGAGTGGATATGCTTTCTCCCGGA
CCTTCTCATCTTTCAAATGGTCATCATCTGCCTTATGTGTGTGCACAGCTTGGAGAGAGCAGGATCCAAGCAGTA
CAGTGCAGCCATTGCCTTCACCTGGCCCTCTTTTCCACCTCGTCAATCATGTCAACATACGGCTGCAGGCTGA
GCTGGAAGAGGGCGAGAATCCCGTCCCGGCATTCCAGAGTGATGGCACAGATGAACCAGAGTCCAAGAACCTGT
GGAGAAAGAGGAGGAGCCAGATCCTGAGCCTCCTCCTGTAACACCCCAAGTGGGTGAGGGCAGAAAGACCCGTAA
GTTCTCTCGCCTCTCCTGTCTCCGCCGTGCGCGCCACCCACCCAAAGTTGGTGATGACAGTGACCTGAGTGAAGG
CTTTGAATCGGACTCAAGCCATGACTCAGCCCGGGCCAGTGAGGGCTCAGACAGTGGCTCTGACAAGAGTCTTGA
AGGTGGGGGAACGGCCTTTGATGCTGAAACAGACTCGGAAATGAATAGCCAGGAGTCCCGATCAGACTTGAAGA
TATGGAGGAAGAGGAGGGGACACGGTCACCAACCTGGAGCCCCCTCGGGGCAGATCAGAGGCTCCCGATTCCCT
CAATGGCCCACTGGGCCCCAGTGAGGCTAGCATTGCCAGCAATCTACAAGCCATGTCCACCCAGATGTTCCAGAC
TAAGCGCTGCTTCCGACTGGCCCCACCTTTAGCAACCTGCTCCTCCAGCCACCAACCCCTCATACCTCGGC
CAGCCACAGGCCCTTGCCTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCTGAGTCGGA
GGGGAGTGAGTCCAGTGGACGCTCCTGTGGAATGAGCGCAGCATCCAGGAGAAGCTTCAGGTCCTGATGGCCGA
AGGTCTGCTTCTGTGCTGTGAAAGTCTTCTGGACTGGCTTCGGACCAACCCGACCTCATCATCTGTGTGCGCA
GAGCTCTCAAAGTCTGTGGAACCGCCTGTCTGTGTTGCTGAATCTGTTGCCGTGCTGCTGGTGAATCCAGGAGTC
TGGCCTGGCCTTGTGTCTGAGGTCCAAGATCTTCTGAAGGTTGTGAAGTGCCTGACCTCCCTCTAGCCTTCT
GCTCCAGAGGACATGGCTCTTCGTAACCTGCCCCGCTCCGAGCTGCCACAGACGCTTTAAGCTTACAGCGGA
TCGGCCCCGTGCTCAGCACCTTAGAGGAGTCAGTGGTGGCATCTGCTGCATCCGCAGCTTTGGTCAATTCATCGC
CCGCTGCAAGGCAGCATCCTGCAGTTCAACCCAGAGGTTGGCATCTTCGTCAGCATTGCCAGTCTGAGCAGGA
GAGCCTGTGTCAGCAGGCCCAGGCACAGTTCCGAATGGCACAGGAGGAAGCTCGTCGGAACAGGCTCATGAGAGA
CATGGCTCAGCTACGACTTCACTCGAAGTGTCTCAGCTGGAGGGCAGCCTGCAGCAGCCCAAGGCCAGTCAGC
CATGTCTCCCTACCTCGTCCCTGACACCCAGGCCCTTGCCACCATCTCCCTGTCTATCCGCCAAGTGGCCACCAG
TGGCGCTTCATTGTATCATATCCAAGGACAGTGATCGATGGCCTGGATTGCTGAAGAAGGAACACCCAGGGGC
CCGGATGGGATTCCGTACCTGGAGGCAGAGTTTAAAAAGGAACAGGTACATTGCTGCCAGAAAGAGGTGGG
AAAGAGCTTTGAGCGGCATAAGCTGAAGAGGCAGGATGCAGATGCCTGGACTCTCTATAAGATCCTAGACAGCTG
CAACAGCTGACTCTGGCCCAGGGGGCAGGTGAGGAGGATCCGAGTGGCATGGTGACCATCATCACAGGCCTTCC
ACTGGACAACCCAGCGTGCTTTAGGCCCCATGCAGGCAGCCCTGCAGGCCGCTGCCACGCCAGTGTGGACAT
CAAGAATGTTCTGGACTTCTACAAGCAGTGGAAGGAAATTGGTTGATACTGACCCCAAGGCCCTGCAGTGGGGCT
GACTCCAGATCTCTCTGCCCTCCCTGGCAGCCAGGACCAGCACCTGTAGTACCCCCACACAGCAGACTCATG
CACGCACACAGAGGGAGGCCCTAGCTGCTCAGAGGCTGCAGGAGGGGCCAGGAGCCGGCTGGGAGGGTGGGGTC
CCTTTGTTGCCAAGACGTTAGGAAAGCGAGGAAAGTGTGGATTAGGAGAGTCTTGTGGGCCCCTGCCAGCCT
TCCTGCCCTCAGTCCCTGCTGTCTCCAGGGGCAGGTGGTAGGCATGGGTACCTGCATTTCACTGGAAATGGGTTT
TTGATCTCTGAGGGGAAGGAACAGCAAAAGAGGCCCTTCTTCTCACCCAAGATGCAGGGTGGTTGGGGCCAGG

3638/5332
FIGURE 3175B

AGTTTGGACCTCTAGGTCTTGGGGGAAGAGCTGGGTAATACCTGGTGTCTGAGTGATTCTCTGCAGACCTTCC
CCTCCTCAAGGATCACCCATCCTCCTTTTCAGCCCCCTTTATGGGGACCAGGCAGCTCTGGAGCCAGCCACAGGGG
CTGTTAGAGAAGCAAGGCCTGGAGTGGCCTGCACCGAGTAGCAGGGTCAGGGTTCGTGTGCTCCTCCTCCTGCTG
CAGGGGCTGCACATCCCATTTGCCCCACTTCTGCTTTGTGTCTCCCTCTGTCTAGCTTCCAGGGCAGGGAGCAGGC
CCCACCTAGGGCTGCAGGCAGTCTGGCCTGTGCCAGCACGGTCTCCTGTGCCACCAGCCCCACAGGTGCTGTGC
TTTGTGCTCTTGGCTGCTGTGCTGGGACAGAATGGGATGCCAGGAAGAGAAGAAAGGGGGTGCAGTCTGAGGCCA
CCACCCCCCTTCCTATCTAAGGGAGGGCTGAAGACAAGGGGCCGGCATTTCAGTGGGCAGCAGAAAGGAGAGGCTC
CTTGAAGCTGCTCAGTCAGAGGCCCCCGTCCCTCCTTTTGCCTTCCGCAGGACTGAAGACCTGAAGGGGCTGGCT
TTTGGAGTGTTGAGGTGAATATCTGGGAGCAGAGATCATGAATAGCTCAGGGCAGTGAATGGCGCACCAAGAGCA
GGGCTGTGTGTGGGAGGCTGCAGCCAGGATTGCCTCAGCTCCTCCCCCTCAGGCTGGGAGGATAGCACAGGCTAG
GGGCTCGGGGTGGAGGGTCTCAGCTCTGCTGCCCCCAGTACTAGCCTAGCTTCCCAAGCTGTGGCTTAGA
GGATAGTTGGCTTCCTGCCTCTCTCCTCTAAATAGCAAGTCTGGGAAATCCTGGGGTGAGTGGAGTCACCCAC
TCCCAGTTGCTGGCAGAGACTGAGACTAAAGCATCACTTAATAAACCCCCCAAGCCC

3639/5332
FIGURE 3176

ACTCCCGCCAGGCCTGGCCCGCTGCCTGGCCACTCTTCCTCCATCAGCCTGGCTGGCAGCAGCCTTGGACTC
CGCCCGTGGAGCCCTGGGCCTGTTGACCCACCAGCTTAGGAGCACCCACCAAGCTCTGGGTGTTCTGGGAAGATG
GCATCATGTCTGGCTACCGCCGCCCCACCAGCTCGGCTTTGGACTGTGTCTCAGCTCCTTCCAGATGACCAACG
AGACGGTCAACATCTGGACTCACTTCCTGCCCCACCTGGTACTTCCTGTGGCGGCTCCTGGCGCTGGCGGGCGGCC
CCGGCTTCCGTGCGGAGCCGTACCACTGGCCGCTGCTGGTCTTCCTGCTGCCCCGCTGCCTCTACCCCTTCGCGT
CGTGCTGCGCGCACACCTTCAGCTCCATGTGCCCCGCATGCGCCACATCTGCTACTTCCTCGACTACGGCGCGC
TCAGCCTCTACAGTCTGGGCTGCGCCTTCCCCTATGCCGCTACTCCATGCCGGCTCCTGGCTGCACGGCCACC
TGCACCACTTCTTTGTGCTGCGCGCACTCAACTCCTTCCTGTGCACCGGCTCCTCTGCTACTCCCGTTTCC
TGGAGCTGGAAGCCCTGGGCTCAGTAAGGTCTCCGCACAGGAGCCTTCGCCTATCCATTCTGTTGACAACC
TCCCACTCTTTTATCGGCTCGGGCTGTGCTGGGGCAGGGGCCACGGCTGTGGGCAGGAGGCCCTGAGCACCAGCC
ATGGCTACCATCTCTTCTGCGCGCTGCTCACTGGCTTCCTCTTCGCCTCCCACTGCCTGAAAGGCTGGCACCAG
GACGCTTTGATTACATCGGCCACAGCCACCAGTTATTCCACATCTGTGCAGTGCTGGGCACCCACTTCCAGCTGG
AGGCAGTGCTGGCTGATATGGGATCACGCAGAGCCTGGCTGGCCACACAGGAACCTGCCCTGGGCCTGGCAGGCA
CAGTGGCCACACTGGTCTTGGCTGCAGCTGGGAACCTACTCATTATTGCTGCTTTCACAGCCACCCTGCTTCGGG
CCCCCAGTACATGCCCTCTGCTGCAGGGTGGCCCACTGGAGGGGGGTACCCAGGCCAAACAACAGTGAAGGCCCA
TCCCTGACCCTGTCTTGGAGGGGGCAGAGGCCAGGCCCCAGTGCTGACGAGGAGCCAGATTGGGCCTAATCAG
GTGGGGACGCATCTCAGCCTGGAACCAACAGGGGCTGAGGAGAGAGGGCACAGGAGAGAGGGCAGAGAAGAGGAG
GGGTGTCTAGGGGGACTGGCAGAGTGTGAGAGGGACCGTGAGGGGGCTCTTGATGGGAGTGGAGAAGTGCTGAG
GGTCTGAGAGGGGAGATGCATGCGTGTCCAGGCTGAAGATGCCCTATATCTGTCAAAGGTTGCGGGGGGAGG
TGTGGGGTCTTTTCATCTGGCTCCGTTTCTGGTCTTCTGGAAGTCTCTGCTCAGCACAGGGAAGAACTAACAC
GACTAACCTAGGCCTACCCTGAATGCTTCTTGCTAACCAAGGCCGAGAGGCCACACACTTGCCCCCCCATCCCCAC
AAACCAGGTAATGCCAGTTTGCCAGCAGCTATTTGCCTATAGAGATGAGTCTGTCTGGTCATAACTGTGTGCTC
AAGGTGTCCAGGCTTTTGGGGGTGGGCCTATCTGGGTGCATTATGGATGGTTTGGTGGATTGAGGTGTGGGGAGG
AGGGTCCTAGGCTAGAGGGGGTATCCCTAGTTAGACTTTGGGAAGCCACCTTCAACGTTTTCTGGAACAAGGCAG
GTACAAATAAAAAAATAAACTTTGGAAGC

3640/5332
FIGURE 3177

GCAAGTAGCGCCAATCTAGGCAGCGGCTGTGAGGAAAAAAGGCATGAGGGGTCGTCTTCGGAATCTGTGCCACCC
GGCACTACCATTTTCGAGGGTGAAGCTCCTCGACACCATGGTGGCACTTTTCTTCAGAAGCTGGTCGCCGCCGGC
AGCTACCAGAGATTCACTGACTGCTATAAGTGCTTCTACCAGTTGCAGCCTGCGATGACACAGCAAATCTATGAC
AAGTTTATAGCTCAGTTGCAGACATCTATCCGGGAGGAAATCTCTGACATCAAAGAGGAGGGGAACCTAGAAGCT
GTCTTGAATGCCCTGGATAAAATTGTGGAAGAAGGCAAAGTCCGCAAAGAGCCAGCCTGGCGCCCCAGCGGGATC
CCAGAGAAGGATCTGCACAGTGTTATGGCACCCCTACTTCTGCAGCAACGGGACACCCTGGCGGCCCATGTGCAG
AAACAGGAGGCCGAGAACCAGCAGCTGGCAGATGCCGTCTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTA
CAGGTCCAGGCCCAGCAGCAGGCCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTGCTGAGGGAG
CCTGAGTGAGGAGACCGCCAGCCCCAGAACAGAGGGCAGTCAAGGTCAAGAGCCTGTGGTCCAGCATGCCTGGC
CTGGGCGGGCTACCTCTGAGAACGGCTGAAATGGTGCCAGTCCATCAGCAGTGATGGAATTTGCTGGAGGACTA
GGCCAGAGCAAGCCTCACTGCCACTGTGCCTTTGGGGCACCCCTTGGGGTTGGACATACACCCCCTTTAGATTCCCT
CTGTTTCTTCTACCTGGATAATTCTTGGCCATGTTCTCTCTTCTTAGGTTCAAGTCAGCTCTGCCCCCTCGCCC
CCCTCCTGCTGGTTCCCCAGCCCTTTCCCTGGCCCTGGCTTGGAGAATCTGTTTTCAATCTCCACTGATTGCC
CCTTGCTGGCCAGCCAGGGGCCTTTACCATGTTCTCTCCACATCCGTAAATAAACTTCCTTCACTAC

3641/5332
FIGURE 3178A

AAACAAGAAGATGGGATTGATATTTCCGCAGGAAGTTTGGAAGTTATGTAACAGAGCAGGTTGAGATCCTACCT
TTTAGGAGCAGCCTGCCCTTTTGAAGGGGTAAAGGGAGTGGGTGCAGTGCCCTCTCTTCTGTTGTAGTGGCTTA
TCCCTCTAAGGCATGACCCCTTGATAGGGGTACCTGCCTCGGAAAGTCCCACTTCTTGTGGGAGTTTAAAT
AGATTGGCATATGTGAGAGATGGAGACAAGGTGGGAAATCGGATCCTGTCTTAGGATTCTCATCAGGAGATGCT
GATACTTGGTGTTCAGCTTGATAAATTGAGAAGGTGCCATGAAACCAGGTCCTGGAACAGAATCCCTGGTTGCT
CTGTCTTTTAGCTGCTCTGACCCTCTGCCCTGCAGAGCATGCATTTTGCATGTGCCCTGGCAGGAGGCCCTCTGC
TTGAGCCCTGCTGATTTGTCTGTGTGACAACGTGACTGCCAGCCATTAAAGCTTGGTCAGTCCACAGACACACT
AGGAAAGCAGAGGCAGCTCTTGGTTTCTCTGGAACAGAGCTGCAAGAAAGTCTCTGGGCATCTGCATGGCCAGGAG
CTTATGCTTAACTGTTGAGTGACCTGCAGCCATAAGGGCATTAAATCTGCCTTCCAGAGGTGGGAATGACTTGGC
TTTAAACAGTGATTTGTGTGAGAAATCTTCAAATCCCATAAGGTAGAAGGCATGGTGGAGTAGAGGAGAAATCTT
GGCTCATATCTGCCTCTTCCATTGACCAGCTGTGTGACCTTGGGCCTGTTACTTTTAACTACCTGACCCTCCAT
TTCTTCATTTATCAGAAGTGTCTAACTGTACACAAGTTAACTGTAAGGATTACATGAGGTAGTAGTCAATCCTG
GTGTTTCTCTGTATCTTCTCACTTCTCACTGGTGTGGAAATATGATCTTGCAGCCCTAGATGGCAGCCACTCTG
GGCAGAGAAGAGACAGTGACCACCTTTTGAAGAGCTCAAAGGAGAATATTGCCCCACAGGGCTTAGTGGGTCCCC
AGGCTGAGGCTGGGGAGGAGGGCCACCTTTGCCTACAGCAAGTGGCATATCATTTGTCTAGGGGTTCTCTTGACG
GCAGAACTTTGCCCTAGCTCATTTCACAGCCTAGATTTCCAATCTTGCCAATCCAGTTGACTTCTGTCTTC
TCATTTCCAAGCCATTGTTCTCTCTCTTTCACTATCTACATGGATTATCCTTCATTCAAAGTCTTTGTCCCGGC
TGGGTGCGGTGGCTCATGCCTGTAATCCTAGCACTTTGGGAAGCCGAGGCGGGTGGATCACGAGGTGAGGAGATC
GAGACCATCCTGGCTAACATGGTGAACCCCGTCTCTACTAAAATTAAAAAAATTAGCCGGGCGTGGTGGCAGGC
GCCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGGAGGTGGAGCTTGCACTGGGT
GGAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTGAAAAAAAAAACAAAAAAGTCT
TTGTCTGTAGGAATCCTGTGCGGTTATGTGCACCTCCCTCAATCCTTACCTTGAAGCTAAGGTTTCCCTCAG
CTCTCAAGTACTCAGTTTGCACTGCAGGTAGTCCCTATTTTAAAGAAAGTTATACGGTCCAGCTCAGGGAATCCT
GAAAAGCTGCCCTTGCTTCCATGGTAATCAAAGGCAGTTCTCATGGAATAAAAGCTACCTGAAGCCTGAGTTGG
GACCTTTGGCTGGGGAAGGTGGTTGAGGACGTTCTCTGATTAGATGCTTGGCATGAGGTTTGCTACTGGAAGTGC
TAGTGTAGAAATGTTTCAGCCCCCTAGAGTTGTCCCTGTGATGTGGCTACCTCCTTTCTCTGGGATTTCTCTTAAA
GTCTGGGGAGCCCCTGCTTCTCATTTCCTGGAATTTATCTTCCAGTCTCCCTTTCTGGCTGAAAATTTCTAGTA
TCTTACAGAACAGCGGTGGGATACACTGGAGCACATCATATTACCTAAGTATGTCTAATAAATGATGTCTCT
GATTTGACATTTCTTAAATGTGAAGCTCCTGATTTTATACAATTTTGAATTAGTAAGCTTGTAGTTTGTGTTG
AAATTCATGGCATTGGATACACTTAACATGAGGGCTACATGTGCATCAACATACTCTGGTTTCTTCCCTCTGTA
TCTTTTTTTTTTTTGGATGGAGTCTCACTGTCTCTTAGGCTGGAGTGCAGTGGTGTGATCATGGCTCACTGCA
CCCCAACCTTCAGGGCTCAGGTGATCCTCCACCTCAGCCACCCAAAGTAGCTGGGACCACAGGTGCATGCCACA
TGCTGGCTAACTTATTTTTATATATTGTAGAGACGGAGTCTCCCTATGTTGCCTAGGCTGACCTTGAGCTCTTG
GGCTCAGGTGATCCTCCACCTTGGCCTCCCAAAGTGTGGGATTATAGGCGTGAGCCACTGTGTCCAGCCTTTT
CCTCTGTATCTTGTATCCATTCCCCAGAGCGATACTGTGTATCCTTGAACAGACGGTTTCTTGAAGTCAGAGTCT
ATCTCCTCTGCACTTCTCCCCCTTCAATTATCTAAGACTGAGGTTGTGGTTTATATGCTTAGAGTTGAAAGCATG
GGGTCCAACGTGTTCTGTACTCTGTAGTTCCCCAGACTCTTCAGGGAACTACTTAGCTCTCAGGTGGTTCTTTT
CTGTTTTTCTCAGAGCAAGTTATCTAATAACTGAAGAGGACTCTGCCCTTTGGCCTGTTCTGACTTTCTAACTC
CTTTTGCTGGAGGAAGGGGAGGTTGAGGGGGGTGCCCTGTGGTGTGAAGCCCCACTTGCCCTCTCCTCTATACT
TTCTTCCAATGCAGACGGGAGAAAGTATCATAAATGTAGTACTGTGGGTGAGGGGAGCTCTGAGAGGCCAGCAC
AGGAAACCAGAAAACAAATGAGTCAGTTCGTAGGTGGCGATCAGAGGCACCTGCTGAGGGTGCAAGGCCACAGG
TGATGCCTCCTCAGTAGGCCAGGAGCATCAAAACGGGAACAGTCCCTTTAGCCTTCAGGAGCCTCCCAAATGT
CACTTAGTGATGTCCATTACCTGCTTAAAGGCCCTGCATCCTGCCAGGTAGTTGGTTTGTCCATAGCATCCTG
AGCTCTGCTTGGGTGAGCCAGACAAAAAGAATGATTCTGGCCAGAGTAGTGATAACAGGGCCCAGACAGAGGCA
GAGAGTCCGGATAGAAGATCCTGTAAGCTGGGGTAGGGAGCCGAGGAGGCCATGGAGCCAGGGGAATCATTGAAG
TGAGGGACAATTTCTGGAGGAGGAACTGAGTAAGGAAGGCCCTGGCCAAGGACCAAGAAGGGGACAGTATCCTG
ATCTATGAAGAAGACTCAAGTGGGGATTGACAGAGCCAGATTGGGTGGAGTCCAAGCTTTGGGCAGGTGAGTGT
CCAGGAGATGAGGGCTGAGAATGGCCCTTACAGAGCCAGCCAGAAGGGGAAAGCACAAAGCTCCACCTCCTTCT

3642/5332
FIGURE 3178B

TCACATCCCTCCATACTGCTCAAATCCCAGGTCTTCAGGCACCATGGAGGACAAACGCAACATCCAGATCATCGA
GTGGGAACACCTGGACAAGAAGAAGTTCTACGTGTTTGGTGTGGCAATGACAATGATGATCCGTGTCACTGTCTA
CCCATTACCCCTCATCCGCACCCGGTTGCAAGTTTCAAGAGGGGAAGAGCCTCTACCATGGGACCTTCGATGCCTT
CATCAAGATCCTGCGAGCAGATGGTATCACTGGCCTCTACCGAGGGTTCTGGTCAATACCTTCACCCCTCATCTC
TGGCCAGTGTTATGTACCACTTATGAGCTCACCCGGAAGTTTGTAGCTGACTACAGCCAGAGTAACACAGTCAA
ATCACTGGTGGCTGGTGGCTCAGCCTCCCTTGTGGCCAGAGCATCACAGTGCCCATTTGATGTAGTCTCCCAGCA
CCTGATGATGCAACGCAAGGGTGAGAAAATGGGCCGCTTTCAGGTGCGGGGAACCCAGAGGGACAAGGGGTAGT
TGCCTTTGGCCAAACCAAGGACATCATCAGGCAGATCCTGCAGGCTGATGGACTTCGCGGCTTCTATCGAGGCTA
TGTGGCTTCACTGCTTACCTATATCCCAAACAGTGCTGTCTGGTGGCCCTTCTATCACTTCTATGCAGAGCAGCT
CTCCTACCTGTGTCTTAAGGAGTGCCCTCACATTGTCTTCAAGCTGTCTCGGGGCCCTGGCTGCAGCCACTGC
CTCCATCCTCACCAATCCCATGGATGTATACGAACCCGTGTGCAGTTGAGGGCAAGAACTCCATCATCTGAC
CTTCAGACAGCTGATGGCAGAAGAAGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCCAGAATCATCTCAGCCAC
ACCTTCCACCATTGTCTTGTGGTGGGCTATGAGAGCCTCAAGAACTCAGCCTCCGACCTGAGCTGGTGGAGTC
GAGACACTGGTAAACAGTGGTGGGGAGAGAAGCCTGCTGTTTTCCACACTACCGTGGGTGAGGGCAGAGTGGAG
AGGACAGCACCTCTCCAGGTGCTCCACCACACACCCAGCCCTGCCCTGGGCCAAGTGGCTATCTGGGATAGG
GATAGAGACTTTGAACTGCTCTTGTGTAAGAGGCTCCACGCCTGGATCCCTTGCCCCACTATTTAAATTTCTCT
TCTGAGCTGGGCTCCCTCACTCAGTCCCTGTATTGTACTGGCCTAAAGACCCACCCCCACCCCTGCCAGCCC
TTCTTCTGGCTTCCCCTTCCATCTGTGTCCCTGAGACCCTGAGAAGAGCTGTACATAGAGCTTGCTTACTACCAC
TGGTCTTCTCTTGGGCTTTCAGCCAGACTCCAAGCAGCTGCTATCAACCCTCTCTCCCTTCATCTCTTAGCC
TTGCTTATTTTTATTTTTGGGACCGAGCTGCCCACTAGATGACTCTGCTTTCCCTGCATTGGGGCTAAGGTGCC
AGGTACTTATTTGCACAGGGAGCAGGAGCAGCAAAAATCTCTGGTCTCCAGAGCACTCGTCTCTCTTTGGAG
GGGTATTAGGTTGGGAGAAATGTTGATACTTTTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTTTTAATCTGTGAACCAGGCTATTAGTCCTGCTAAAGCGCAATCCTGCTGTGAGAGCTCACCCCC
TTCTTAAGACAGGTAGAAAAATGTAATGTAGCTTTTTCCACAAGCCACTTCCCTGTCCCTCAGTCTCAGGAGCC
CTAGGAGAGTCTAAGCTGGGGCATCCCCTGGCCAGAGGACTCCCGTGGTGGGCACAGTTCTAAGTGGATCAGGC
TGCTTGGGTGCACTGGACTTGGAGCACTACCTTGAGAAATCAGGTTGAGAAAGTAGTTGATCTAGAAGGCAACA
AGTGGGCATGTGTTCCCGCAGCATTACCCAGGCCAGCAGAGCCAAACCTAGGAGAGGGCAGTGGGTAGATTCTC
TGCCCCAGGCAGCCATGACATACATAAATACCCCAATCACTCAGACTTACGGCAACAAGTGTGTCTCACTAT
GGTGATCTCTAAGATCCACATCACTGGATGCGTAGTCATCCAGTCATGGTACCCTGTGGAGGAATGCTGGAAGA
ACATAAAGAGCAGTTTCAAGAGTCACCCAATACCAGGACCATGCATTTACCAGCCTGATACTGCCAAGATTATC
TGATGCTCTCCTCAGGAGCTAGGAGAGGAGTGCTCCTTCCCTACCGCTACTCTCCCCAAGCCTGTGTTGCAG
GTAGAGAGGTGAGCAAAATAGAGAAGGCATGTCAAACCTGCATTTCTACCTGAGACGTGTGACCTGGATGATCC
TCCAAACCTTATTGGTCCCACCCCTGGGAAAGGCCATGGTGCCAGTTTGAAAGGTGCTAGCTACCTGAAGCCTT
GATATTTCTTCATGGCTGCCGCACATTCTTCCACCTTGGCCAGAACAGGTTCTGAAACCCTTCTCTACCTTCA
CCACCACCACTGCCATCTTGATCTCTTTGAGGGTTTTCCCATTTCACTTGATCTTATTTTTGTTTATCCCTTCC
TGCACTTTGTCAAGAGAGTCTCCAGTTTCTATCCAGGAATGTTTACATCCAAAGGGTTGGACCCACGGATCATT
CTGAATCTTCTGCCCCCTCTCACTGCTTAACCCTGAGAACCACAAATATAATGGAAGCAGTTCCCCCACCCTC
ACCCATCTCTTTAAGCTCATCTAGCAAGACCTCTAGAGACCCTAGAGACTCGACTTTAGTCTTCCCCGCCAT
GGCAGAGTGGGGAAGGTGTCAATGGGGAGTGTCACGGACAGGAGGTAGGATCCTGCCGCTCGCGTCTTAGTGT
CTCCCTCAAGACTTTCTTCTGTTTTGTGTTGTGTCAGTATTTTACAGCCCTCTTGTGTTTTCTTTATTTT
TCGTACACACAGCAGTTTTAAGGGTGATGTGTGTATAATTAAGGACCCTTGGCCCATACTTTCTAATTCTT
TAGGGACTGGGATTGGGTTTGAAGTAAATATGTTTTGGTGGGGATGGGACGGTGGACTTCCATTCTCCCTAACT
GGAGTTTGGTTCGTAATCAAACTAAAGAAACCTCTGGGAGACTGGAAACCTGATTGGAGCACTGAGGAACAA
GGGAATGAAAGGCAGACTCTCTGAACGTTTGATGAAATGGACTCTTGTGAAAATTAACAGTGAATATTCAGTGT
TGCACTGTACGAAGTCTCTGAAATGTAATTAAGTTTTATTAGCCCCCG

3643/5332
FIGURE 3179

GATGAGCAAGTGGTGGGGACGCCCCTGCTGGTGAAATCTGGCGTGGAGTATACACGGCTTGCAGTGGAGACAGCC
CAGGGCCTTGATGGGCACAGCCATCTTGTCATGTACCTGGGAACCACCACAGGGTCGCTCCACAAGGCTGTGGTA
AGTGGGGACAGCAGTGTCTCATCTGGTGAAGAGATTAGCTGTTCCTGACCCTGAACCTGTTGCAACCTGCAG
CTGGCCCCCACCAGGGTGCAGTGTGTTGTAGGCTTCTCAGGAGGTGTCTGGAGGGTGCCCCGAGCCAACCTGTAGT
GTCTATGAGAGCTGTGTGGACTGTGTCTTGGCCGGGACCCCCACTGTGCCTGGGACCTGAGTCCCGAACCTGT
TGCCCTCTGTCTGCCCCAACCTGAACCTCTGGAAGCAGGACATGGAGCGGGGGAACCCAGAGTGGGCATGTGCC
AGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGAGCCGCCCGCAAATCATTAAAGAAGTCTTGGCTGTCCCCAAC
TCCATCTTGGAGCTCCCTGCCCCACCTGTGAGCCTTGGCTCTTATTATTGGAGTCATGGCCAGCAGCAGTC
CCAGAAGCCTCTTCCACTGTCTACAATGGCTCCCTCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCAG
TGCTGGGCAACTGAGAATGGCTTTTCATACCCTGTGATCTCCTACTGGGTGGACAGCCAGGACCAGACCCTGGCC
CTGGATCCTGAACCTGGCAGGCATCCCCGGGAGCATGTGAAGTCCCGTTGACCAGGGTCAGTGGTGGGGCCGCC
CTGGCTGCCCAGCAGTCTTACTGGCCCCACTTTGTCACTGTCACTGTCTCTTTGCCTTAGTGCTTTCAGGAGCC
CTCATCATCCTCGTGGCCTCCCATTTGAGAGCACTCCGGGCTCGGGGCAAGGTTGAGGGCTGTGAGACCCTGCGC
CCTGGGGAGAAGGCCCGTTAAGCAGAGAGCAACACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGAT
GTGGACGCTGACAACAACCTGCCTAGGCACTGAGGTAGCTTAAACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGC
ACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAGCCCTGACTAGGATGACAGCAGCACAAAGACCACCTTTCTC
CCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGGTGATGCACAGCAGTCTGCCTCCCT
ATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCTACCCCCAGACCTGCTCCTACACTGA
TATTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAGGGACCCTCCAGAAACACAGTGTTCAGAGA
CCCTAAAAAACCTGCCTGTCCAGGACCCTATGGTAATGAACACCAACATCTAAACAATCATATGCTAACATGC
CACTCCTGGAACTCCACTCTGAAGCTGCCGCTTTGGACACCAACTCCCTTCTCCCAGGGTCATGCAGGGATC
TGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACCGCTGACTCCAGGAAGTCTTCTGAAAGTCTGACCACCTTT
CTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCTTCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCTTC
ACTCCTTTACCCTAGCTGACCCCTTACCTCTCCCCCTCCCTTTTCTTTTGGGATTGAGAAACTGCTTG
TCAGAGACTGTTTTATTTTTATTAAAAATATAAGGCTT

3644/5332
FIGURE 3180

ACTCAGTGTTTCGCGGGAGCGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCAGAT
CCCCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCTTCGA
CCCGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGCCATGGAGACCCCGT
CCCAGCGGCGCGCCACCCGAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCGCCACCCGCATCACCCGGCTGC
AGGAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGG
AGAACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCG
CCTACGAGGCCGAGCTCGGGGATGCCCCGAAGACCCCTTGA CTAGTCAAGGAGCGCGCCCGCCTGCAGCTGG
AGCTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTG
CTCAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGA
AGCGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCA
AGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAATGG
ACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGAGATTG
ACAATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCAGGCGCCAGCATGAGGACC
AGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGA
GGAACAGCAACCTGGTGGGGGCTGCCACGAGGAGCTGCAGCAGTCCGCGCATCCGCATCGACAGCCTCTCTGCCC
AGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTG
AGCGGGACACCAGCCGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGC
AGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCT
TGGAGGGCGAGGAGGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCTCTC
ACTCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAAACTGGAGTCCACTGAGAGCCGCGAGCAGCT
TCTCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGC
GCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGA
CTTACCGGTTCCCACCAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCA
CCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTC
TCATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGACTGTGGTTGAGGACGACGAGG
ATGAGGATGGAGATGACCTGCTCCATCACCACCAGTGAGTGGTAGCCGCCGCTGAGGCCGAGCCTGCACTGGGG
CCACCCAGCCAGGCTGGGGGCAGCCTCTCCCCAGCCTCCCCGTGCCAAAAATCTTTTCATTAAAGAATGTTTTG
GAACCTT

3645/5332
FIGURE 3181

CTCTGCTTCCTTACAGCACCCCCACCTGCCAGAGCTGATCCTCCCTAGGCCCTGCCTAACCTTGAGTTGGCCCCC
AATCCCTCTGGCTGCAGAAGTCCCCTTACCCCAATGAGAGGAGGGGCAGGACCAGATCTTTTGAGAGCTGAGGG
TTGAGGGCATTGAGCCAACACACAGATTTGTCGCCTCTGTCCCCGAAGACACCTGCACCCTCCATGCGGAGCCAA
GATGGGGAATGGAAGTGAAGATTATAACTTTGTCTTCAAGGTGGTGTGATCGGCGAATCAGGTGTGGGGAA
GACCAATCTACTCTCCCGATTACGCGCAATGAGTTCAGCCACGACAGCCGCACCACCATCGGGGTGAGTTCTC
CACCCGCACTGTGATGTTGGGCACCGCTGCTGTCAAGGCTCAGATCTGGGACACAGCTGGCCTGGAGCGGTACCG
AGCCATCACCTCGGCGTACTATCGTGGTGCAGTGGGGGCCCTCCTGGTGTTTGACCTAACCAAGCACCAGACCTA
TGTGTGGTGGAGCGATGGCTGAAGGAGCTCTATGACCATGCTGAAGCCACGATCGTCGTGCTCGTGGGTAA
CAAAAGTGACCTCAGCCAGGCCCCGGGAAGTGCCCACTGAGGAGGCCCCGAATGTTGCTGAAAACAATGGACTGCT
CTTCCTGGAGACCTCAGCCCTGGACTCTACCAATGTTGAGCTAGCCTTTGAGACTGTCCTGAAAGAAATCTTTGC
GAAGGTGTCCAAGCAGAGACAGAACAGCATCCGGACCAATGCCATCACTCTGGGCAGTGGCCAGGCTGGACAGGA
GCCTGGCCCTGGGGAGAAGAGGGCCTGTTGCATCAGCCTCTGACCTTGGCCAGCACCACCTGCCCCACTGGCTT
TTGGTGCCCTTGTCCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTT
GTTACAGCACCCTCAGGGTCTTAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTTCAAGGCTCTT
GACTAGGACCCTCAAAATAAGCTGTTTTATATC

3646/5332
FIGURE 3182

GGAAGCAGCGGGCAGCGGCCCCGGGGAGGCACCTCGGAGATCTGGGTGCAAAAGCCCAGGGTTAGGAACCGTAGG
CATGCTGCGCCCCAAGGCTTTGACCCAGGTGCTAAGCCAAGCCAACACTGGAGGCGTCCAGAGCACCCCTGCTGCT
GAATAACGAGGGATCACTGCTGGCCTACTCTGGTTACGGGGACACTGACGCCCCGGGTACCCGCTGCCATAGCCAG
TAACATCTGGGCCGCCTACGACCGGAACGGGAACCAAGCGTTTAAATGAAGACAATCTCAAATTCATCCTCATGGA
CTGCATGGAGGGCCGTGTAGCCATCACCCGAGTGGCCAACCTTCTGCTGTGTATGTATGCCAAGGAGACCGTGGG
CTTTGGAATGCTCAAGGCCAAGGCCAGGCTTTGGTGCAGTACCTGGAGGAGCCCCTCACCCAAGTGGCGGCATC
TAACGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAATGACCATTGGAGGGGCGGGGCCCTCCTAGAAGAACC
TTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTTCCAAGAATAAACTTCAACTCCTGT

3647/5332
FIGURE 3183

GGAGGAGCCGGGCGGGCTGGCGGGCGGCCGGGTGGCGGGCGGCCGATGGCGGAGCCGAGCGGGGCCGAGACGAGG
CCCCCATTCGGGTCAACGTCAGACCCCCAAGGACAAGGAGGAAATTGTGATCTGCGATCGAGCCTCGGTCAAG
GAGTTCAAAGAGGAAATCTCCGGAGGTTTAAGGCTCAGCAGGATCAGCTGGTCCTGATCTTCGAGGCAAGATC
CTCAAGGATGGGGACACACTGAACCAGCACGGAATCAAGGACGGGCTCACTGTCCATCTGGTCATCAAGACCCCT
CAGAAGGCTCAAGATCCAGCTGCTGCCACTGCTTCTTCCCCCTCCACACCTGACCCTGCCTCAGCACCCCTCCACC
ACGCTTGCTTACCCGCCACCCCTGCCAGCCCTCCACCTCTGGCAGTGCCCTCTTCAGATGCTGGCAGTGGAAGC
CGGAGGAGCAGTGTTGGGGGGCCCTCTCCGGGGGCTGGGGAGGGATCCCCAGTGCTACTGCGTCCATACTCTCT
GGCTTTGGGGGCATCCTGGGGCTGGGCAGCCTAGGCTGGGCTCTGCCAACTTCATGGAGCTGCAGCAGCAGATG
CAGCGGCAGCTGATGTCCAATCCTGAGATGCTGTACAGATCATGGAGAACCCCTGGTCCAGGATATGATGTCT
AACCCTGATCTGATGCGTCACATGATTATGGCCAACCCCAAGATGCAGCAGTTGATGGAGCGGAACCCCTGAGATC
AGCCACATGCTCAATAACCCCTGAACCTCATGAGGCAGACAATGGAGCTTGCTCGGAATCCAGCCATGATGCAAGAG
ATGATGGCGAACCAGGACCGGGCCCTGAGCAACCTTGAGAGCATCCCTGGAGGGTATAATGCCCTCCGCCCATG
TACACGGACATCCAGGAGCCCATGTTTCACTGCTGCCCGGGAACAGTTTGCAACAATCCCTTCTCTTCCCTGGCC
GGGAACCTCCGACAGCTCATCTCCAGCCTCTGCGGACTGAGAATCGAGAGCCCTCCCTAACCCCTGGAGCCCC
TCGCCCCCACCTCCAGGCCCCCGGGTCCGGTGGGGAGGGCACCGGAGGATCGGGGACCAGCCAGGTGCACCCG
ACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAGGGATGTTCAATAGCCGAGAAATGCAAGCC
CTCCTCCAGCAGATCTCTGAGAACCCCAAGCTGATGCAGAATGTGATCTCAGCACCTACATGCGCAGCATGATG
CAGACGCTTGCCGAGAACCCGACTTTGCTGCTCAGATGATGGTGAATGTGCCGCTCTTCGCGGGGAACCCCAA
CTGCAGGAGCAGCTCCGCTGCAGCTCCAGTCTTCTGAGCAGATGCAGAACCAGAGTCACTCTCCATCCTT
ACCAATCCCCGAGCCATGCAGGCATTGCTGCAGATCCAGCAGGGACTACAGACCTTGAGACCCGAGGCCCCCTGGG
CTGGTACCCAGCCTTGGCTCCTTTGGGATATCCCGGACCCAGCACCTCAGCAGGCAGCAACGAGGGTCTACG
CCCGAGGCCCCCACTTCCCTACCAGCCACGCCAGCCACATCTTCTCCACAGGGGCTTCCAGCGCCAGCAGCAA
CTCATGCAGCAGATGATCCAGCTTTTGGCTGGAAGTGGAACCTCACAGGTGCAGACGCCAGAAGTGAGATTTTCTCAG
CAGCAGCTGGAGCAGCTCAACTCCATGGGCTTCATCAATCGTGAGGCTAACCTGCAGGCCCTGATTGCCACAGGA
GGGGACATCAACGCAGCTATCGAGAGACTGCTGGGCTCCAGCTCTCCCTAATCCCTCGGCCCATGCCTCCTGCCT
CTCCCCCTCCCTCGATGTCTCAGCATTCGGTTCTTCTGTCAATCCTTACCTCTGCAGCTTGTCCTCCCTTCCGTCTT
CTCCCTCATCCTTTCCAAACAGCAGGGTGACTTTAGAGGCATGGGCTCCAACCCCTTAGCTCTGTCTGAGAATTA
TGGTTTTACTGCTACGTCTCTAACAGACTCTTCTCTCTGGTCTCCTTGAGCAGTGCTACTTAAACAGTTTTCAC
AGTTTCATTGATTGACTCTACCTCCTTGCCCCACACCACTTTTGCAATCTTTAACTTTTCACTGGCTGTGCAGAG
TCGAGGGAGGAACAGCTCTCTGGTTTACTGGGAACATAGTCTTCCATCTATACCACTAGGGTTTGTCTTATGTT
TACTTTTGGTAACTCTCTTCTTCTTTTCTCCCTACCCCCCAACCCCTAGCCCCAACCAATGCTAGAATTTCTTG
CTCTGAAGGAGGAGCAGGTGAAACAGGTGGTAAATTTCTTCTCGGCCCTATTCTGGTTCATTACGACTTTTTT
GGTGGGAATGTTGGAATTCAGGGTAAGGAGGAAGATGCCTGTTCTCCCTGTCTGAAGAGGGAGATGAGACAG
CTCTCTGGACAGGAATTAACAAACGCTGGAGCAGCCAGAGGAATTCGTGTGAAAGAGGAGGGAATGAGATTAT
TCGGAGGAAGGGAATGGGGGAGACAGCCTGAGTAAAAGGCTTGGAAGTTGGAATTAACAGTGGGGAGCAGAAGCA
CTCATAGCTCTTTTAGGCAGAAGAATCCAGGCCGAGCTGGCAGAAGAGACTTAGAGATGCTAATGGAATTTAAA
CTGAAAAAAGGAGCCCAATGAAGCTAAGCGCCACGCCCAAGGGGTCAATTGGCTTTAGTTCCTCAAGCATA
TGTGCTTATATGCACACACACACATTTCCATGGACCCAGGTCTTGCTTGTGTCCCCAGGCACCAAGTAGTTTGA
GCCCCCTCAAAAGACATGAAGGGGGTTGGGGTCTGTGTGAGTAGTGGGGAGGTGCATGTGTATCCACATGTGTG
CATACACTCTTAAGTTGGGTGGGAAGTGGATTCTTGTGGTTTTCTGGTTCAGAGTGCTCTCCACCACCAGAGA
CAAGTGGGTAAAAAGGTCACTCCATTGCAGGAATATATATCCGGGAGAGCTAGGTCCCTTGGGGCTCTGGATGCT
GGGTAAACCAGAGGTAATGTGGGTACCTTTCTGAAGCTGTGAGGGCTGTGACTAGCACCTTATCACCCCTCAC
TGCTTGTGGGAATAGTAGAGGGTTTTTTTCTCCAGAGCCCTGGCCTTTCAGTCTTAACTATTTCCTCCAG
GCCAGAAAGTTTTCTTTGAGGAAGGAGAGGAGGGTGGCAATGATGCCTTTGATCTGGAATTGGACATTTCTCT
GTCAGAGCACAGAGGAGGCTCATATCACCTCTTCCCTCTCTACTTGGCCAGCTGCTTGGAGACCGACCCCAT
GGCTGAGAATATGACGGCAAGAGGAACAGAGTTTGCTCCAAGTGGGAAGGGTCCCAAGCAGTCCAGAGAAGATG
TCTGTGTGGCTTTCCCTCCCTGCCTCCCCAGCTCCACACTGGCCTTTGTAAATAAATGGCGTGGTCTTTGTG
TG

3648/5332
FIGURE 3184

GCTCTCTTCCTGTCTTTGTGGCTCCGGAAAGGCGTTTGGGATGCCAACGATGAGGCTGCTGTCATTGTGGTGTT
GGCTCTATTTGCTGTCACTCAAGCAGAGGAAGGAGCCAGGCTTTTGGCTTCCAAATCACTGCTGAACAGATACGC
CGTGGAGGGACGAGACCTGACCTTGACGTACAACATCTACAATGTTGGCTCAAGTGCTGCATTAGACGTGGAAC
ATCTGATGATTCTTCCCTCCAGAAGACTTTGGCATTGTGTCTGGAATGCTCAATGTCAAATGGGACCGGATTGC
CCCTGCTAGCAATGTCTCCCACTGTGGTCCTGCGCCCTCTCAAGGCTGGTTATTTCAACTTCACCTCGGCAAC
AATTACTTACCTGGCCCAGGAGGATGGGCCCCGTTGTGATTGGCTCTACCAGTGACCTGGACAGGGAGGAATCCT
GGCTCAGCGGGAGTTTGACAGGCGATTCTCCCCTCATTTCTGGACTGGGCAGCCTTTGGGGTCATGACCCTTCC
CTCCATCGGCATCCCCCTGCTATTGTGGTACTCCAGCAAGAGGAAATATGACACTCCCCAAACGAAGAAGAACTG
ATTGGGGCTTCCACAGCCCTCCTCTCCCAAGAAATCCAGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCAGACT
CCAAAGGGTATCTTAAATGCAATCTCTTCTCTTTAGCCCTTGCCACTTTCTCCTGGATCCTGCCCTGCTCTCA
GCCATAGTGAAGGACCAGCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGTGAAGCCATAAACAGGAATGC
CTTTGGCAATAGCCTTGAGCCTAGAGGGCCCTCTGATGCCCCACTGAGGTGCTGTTGGTTTATTGCTGGCAACGT
GAATTCTCTCAGGGGTCTAGGAGGGGCATTTTGGAGACTGCCTGACACCACCCTATCCCCTGCCCTCCCCCTCTC
AGAAGAGGGTGGAAGATGAAATGAAAGCTATGGGACTCTTGGAGGATACCCAGTGTCTATTCTGGGTTAGAGAAG
TGCTTACTAAGGGGTTTTCTAATAAAAACAAATGCCACATTG

3649/5332
FIGURE 3185A

GAGACCAACGCGTGCGGGCCGAACCCCTCCCCCGCCTTCCCCCAACAATACAGGACGCCGGGGTCCGCGCCGCG
TCCTCCCTGGTCCCCCGTCCGATTATGTCTCGGATCGAATCCCTACGCGGGCGCGGATCGACCGGAGCAGAGA
GCTGGCGAGCAAGACCCGGGAAAAGGAGAAAATGAAGAAAGCCAAGGATGCCCGCTATACAAATGGGCACCTCTT
CACCACCATTTTCAGTTTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATCACAGCCAAGGAAGCCCTCAT
CTGCCCAACCTGCAATGTGACTATCCACAACCGCTGTAAAGACACCCCTCGCCAACCTGTACCAAGGTCAAGCAGAA
GCAACAGAAAGCGGCCCTGTGTAAGAACAACACCGCCTTGCACTCCGTTTCTCTTGAAGTAAGACAACCATCCG
GGAGCGGCCAAGCTCGGCCATCTACCCCTCCGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTC
CTCCTTGCTTTAGCCAAGAGTGTTTCTACCACCAACATTGCTGGACATTTCAATGATGAGTCTCCCTGGGGCT
GCGCCGGATCCTCTCACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCCTATCCGTGGAATCCCTCATTGA
CGAAGAGGTAATCTACAGTGAGCTGATGAGTGACTTTGAGATGGATGAGAAGGACTTTGAGCTGACTCTTGGAG
TCTTGCTGTGGACAGCAGCTTCTGACAGCAGATAAAAAGGAGGTGATGAAGCAGCAAGATGTCATCTATGAGCT
AATCCAGACAGAGCTGCACCATGTGAGGACACTGAAGATCATGACCCGCTCTTCCGCACGGGGATGCTGGAAGA
GCTACACTTGGAGCCAGGAGTGGTCCAGGGCTGTTCCTGCTGCGTGACGAGCTCAGTGACATCCATACACGCTT
CCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACCTTGTCTATCCATCGCTT
GGGTGATCTGCTCATCAGCCAGTTCTCAGGTCTAGTGCGGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAG
CCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCGAGACAAACGCTTCCAGCAATTCTCCGGAA
AGTGACCCGCCCCGCGTGCTCAAGCGGCACGGGGTACAGGAGTGCATCCTGCTGGTGACTCAGCGCATCACCAA
GTACCCGTTACTCATCAGCCGCATCCTGCAGCATTCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGC
ACTGGGGCTAGTGAAGGAGCTGCTGTCCAATGTGGACGAGGGTATTTATCAGCTGGAGAAAGGGGCCCTCTGCA
GGAGATCTACAACCGCATGACCCCTCGGGCCCAAACCCAGTGCCTGGCAAGGGCCCTTTGGCCGAGAGGAACT
TCTGAGGCGCAAACCTCATCCAGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGT
GCTGCTGATGACAGATGTACTGGTGTTCCTCCAGGAAAAGGACCAGAAGTACATCTTCTTACCCTGGACAAGCC
TTCAGTGGTATCGCTGCAGAATCTAATCGTACGAGACATTGCCAACAGGAGAAAGGGATGTTTCTGATCAGCGC
AGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCAATTCAGCA
GAGCGTGCGCACATGCCCATCCAGGGAGGACTTCCCCCTGATTGAGACAGAGGATGAGGCTTACCTGCGGCGAAT
TAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTCGGGCTGTTTGCTGAGAT
GACCCATTTCCAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCACCCCTGCCAGGGGCCCTTTCCGCTC
TGAGTCCCTTGAGTCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAGGTGGAGGCTGAAAGACCT
GCTGGTGGGGCCAGGAGTGAAGTCTCTTGACACCCGAGAGCCAGCCCTGCCCTTGGAACACAGACCGGTGG
TAACACGAGTCTGGGGTCACTGCCAATGGTGAGGCCAGAACCCTCAATGGCTCCATTGAACTCTGCAGAGCTGA
CTCAGACTCTAGCCAGAGGGATCGAAATGGAATCAGCTGAGATCACCGCAAGAGGAGGCGTTACAGCGATTGGT
CAATCTCTATGGAATTCTACATGGCCTACAGGCAGCTGTGGCCAGCAGGACACTCTGATGGAAGCCCGGTTCCC
TGAGGGCCCTGAGCGGCGGAGAAAGCTGTGCCGAGCCAACTCTCGGGATGGGGAGGCTGGCAGGGCTGGGGCTGC
CCCTGTGGCCCCCTGAAAAGCAGGCCACGGAAGTGGCATTACTGCAGCGGCAACATGCGTGCTGCAGGAGGAGCT
ACGGCGCTGCCGGCGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAGAGTGA
GCAGGCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCCCTGGGCCAGACCGAGCC
ACTCCCAGCTGAGGCCCTTGGGCCCGCAGACCTGTGGATCCTCGGCGCGCAGCCTCCCCGACGGCGATGCCCT
GTACTTGAGTTTCAACCCCCACAGCCCAGCCGAGGCACTGACCGCTGGATCTACCTGTCACTACTCGCTCTGT
CCATCGAAACTTTGAGGACCAGAGAGGCAGGAAGTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGTGACCC
TGACACTGCGCAGCGAGGAGGAAGGTAGCAGCCGTCTGTCTCCGCCCCACAGTCCACGAGACTTTACCAGAATGCA
GGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCTGTAGCCTCCGAGAGCTAAGGGGGCCCCCTCCCCCT
GCCCCGTGCCCCACTGAAGAACATTACTGAGGGGGCTAACCTTGGGGACTCCAATTTGCCAATGATGAGGGAACA
TTTGAAAGAACTGCAATTTGCTTGGCAGCTCTTGGGATCCTTGATACCTGGGGCCATTTAAGAAGCTAGGGG
AATTAGGCCACAACACCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTTCATGCCTTCTTCCGCA
ACTTTAGGAAAATTTATTTATTTATTTAGTTATGGGGGAGAGGGGAGATTTAAAGGACCAGGGACATG
GGAACCAAGCCATAGGGATCAGAGGGCCTTGTCCTTGAACACTACTGGGGTATATTACGGCTCATCCACGAGCT
GCTGGGTTCTTGCCCTAACGGCCCTCCCTGCAACATCCGCTTGGAGGAGAGGCTGCAGCCACAGCACCCCTACT
GCCCTTTAAATAAAGGAGGGCTGTGGGCAGGGCCATGTCCCTTTCTCCTCTCCCTCAACCTCTTACTGCTGTTT

3650/5332

FIGURE 3185B

TCCCTTTCTCCGTCCTTCATGGAAGCCCTGGGAGATAACCTGGCTTCCTGGAGTTGATGGAATAAAGGTTGGGGT
GGCCATAATGGTTTGTGGGGGTGAGGGAAAAACCCACAGGGACCAGAATGTTTGTGTTCTTTGTTTTCTT
TTTTGTACCAAAGTCAACTGCACGTGTTTTATATTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTAT
CTCCACATCTCTGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTTCATCTGCAGTAACGGGGGGACCT
ATACTGACCTCTTCCCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTTGGAAAATCTCCAAGAGCCCTGACCTCA
TCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAATTTGGGGGATTTTCAGTGGAACCCTTGCCCCCA
AATGTCGACCAGCCCCCAAATGTCGAAGAATTTCTTCTTGCCAATTTTGTGTTTAAAAAAAAAATTCAGGGAA
AATTAAAAACCTGGAACCTCA

3651/5332
FIGURE 3186A

CGGGTGGTTGAGTAGAAGCGGTGCGCCATGTCCGCGGGGAGCGCGACACATCCTGGAGCTGGCGGGGCGCCGCAGCA
AATGGGACCAACCAGCTCCAGCCCCACTTCTCTTCTCCCGCCAGCGGCCCCAGGTGGGGAGGTCAACCAGCAGTG
GGGGAAGTCTTGGGGGCACCACAGCTGCTCCTTCAAGGACCTTGGATGCTGCTGCTGCTGTGGCTGCCAAGATTA
ATGCCATGCTCATGGCAAAAGGGAAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAG
GCCTAACTAGCAATAAAGCAAGGATGACCTGGTGGTAGCTGAAGTAGAATTAATGATGTGCCTCTCACATGTA
GGAACCTTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCGACTTGTAGTGGGCTGCAGTATCAACTCGAGGGA
GGTTCATGACAACTGAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATATCTTTCATGTTTCAGGGCCAGA
CACGGGAATTAGTGGACAGAGCTGTAAACCGGATCAAAGAAATTATCACCAATGGAGTGGTAAAAGCTGCCACAG
GAACAAGTCCAACTTTTAATGGTGCAACAGTAACTGTCTATCACAGCCAGCACCCATCGCTCAGTTGTCTCCAG
CTGTTAGCCAGAAGCCTCCCTTCCAGTCAGGGATGCATTATGTTCAAGATAAATTATTTGTGGGTCTAGAACATG
CTGTACCCACTTTTTAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTGCTCCTATTTCAGCACATTCAGATTGAAA
CAGGTGCCAAAGTCTTCTGCGGGGCAAAGGTTTCAGGCTGCATTGAGCCAGCATCTGGCCGAGAAGCTTTTGAAC
CTATGTATATTTACATCAGTCACCCCAAACCAGAAGGCCTGGCTGCTGCCAAGAAGCTTTGTGAGAACTTTTTGC
AAACAGTTTCATGCTGAATACTCTAGATTGTGAATCAGATTAAATACTGCTGTACCTTTACCAGGCTATACACAAC
CCTCTGCTATAAGTAGTGTCCCTCCTCAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTTACCCTGTTG
TTCCCCCTCCTCAGCAGCCAGTTCACCTCCCTACGGAGTACCAAGCATAGTGCCACCAGCTGTTTCATTAGCAC
CTGGAGTCTTGCCGGCATTACCTACTGGAGTCCCACCTGTGCCAACACAATACCCGATAACACAAGTGCAGCCTC
CAGCTAGCACTGGACAGAGTCCGATGGTGGTCTCTTTTATTCTGCTGCTCCTGTCAAAAGTGCCTTGCCTGCTG
GCCCCAGCCCCAGCCCCAGCCCCAGCCCCACTCCCAAGTCAGCCCCAGGCACAGAAGAGACGATTACAGAGG
GCTTACCAGATGAACGGGAATCTGGACTGCTTGGATACCAGCATGGACCCTTTCATATGACTAATTTAGGTACAG
GCTTCTCCAGTCAGAATGAGATTGAAGGTGCAGGATCGAAGCCAGCAAGTTCCTCAGGCAAAGAGAGAGAGAGGG
ACAGGCAGTTGATGCCTCCACCAGCCTTTCCAGTGACTGGAATAAAAAACAGAGTCCGATGAAAGGAATGGGTCTG
GGACCTTAACAGGGAGCCATGGTGAGTGTGATATAGCTGGGGGAACAGGGGAGTGGCTAAGACTGGTCTAAAGCT
ATTAGTTTTCTCAGCCGGGCGCAGTGGCTCAGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCA
CCTAAGGTTCAGGAGTTCAAGACCAGCTTGGCCAAATAGTGAAATCCCATCTCTACTAAAAATACAAAACTAGC
GGCATGGTGGTGGGCGCCTGTAATTCAGCTACTCAGGGGTTGAGGCAGGAGAATCGCTTCAACCTGGGAGGC
AGAGGTTGCAGTGAGCCAAGATCAGACCACTGCCCTCCAGCCTGGGCAATAGAGCAAGACTCCATCTCATAAATA
AATAAATACATAAATAAAGCTATTAATTTTCTAACCTGATGTTTCATTTCAGGTGTTTAAATCCAACCTCTATAATCT
GTTGGCCAGTGAAAAATACTTTTGGGCTGGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGG
TGGGCGGATAACCTGAGGTTCAGGAGTTTGAGACCAGCGTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATA
GAAAAATTAAGCTGGGCATGGTGGTGCATGCCTGTAATTCAGCGGCTTGGAAGGCTGAGGCAGGAGAATCACTT
GACTTTGGAGGTGGAGGTTGCAGTGAGCCAAGATCACCACTGCATTCCAGCCTGGGCACTAGAGTGAGACTC
TGCTCAAAAAAAGAGAAAGAGAGAGAAAAATAGTTTTTAAAAAATGTATACAGACAACCTTTTATTTCCAAC
AAACGTGTGCCGAGAGAGAGAGAGAGAAAAATAGTTTTTAAAAAATGTATACAGACAACCTTTTGTTCOAACCA
ACGTGTATCTAGAAAAAGAGTTAGTCGACTTATTTTATACATAGCATCAGTGAATAGTAATGAGTGGTAGGTTCATT
TCAAAATCCTGTTGCCTATATTATGTGAATACCAGGAGGTTCATCTGATACGGACTTAATAAAGGTTGATTTTGCT
TTATATTGGGAGCTGAGCCACACCTCCCTTTATAACTCTATTGGTCAGTAATGGTCAGTTTGTGGCTGTTAGGAA
AATGTTGCCTTTTAGCATTCCAGAACTCTAAATCCTGTAGAGGTACATGGGATATTTATTCTTTGCCTGTACTC
ATAAAAAATGAACAGAAGAAAATACGTTTTTTCTTTTCTTAACTTCTTTTCTTTTAACTCTTTAAAAGGTGAAAT
ATCAGCCCTCAAGAGACTCACTTGCTAACTTCCCTTTTTTCTTTTTTTTTCTTTTTTGTGTTTCTTTTTCTT
TCTCTGTTTTCTTACATGGTTCTGGTGGATTCACATTTGCTGATGCTGGTGTCTTTTTTTCGTGTGATCTTCAACG
TTTTTGGGTGACCATTGACCCTGTGACCTCAAAAATGGTGTCCAACCTAACCACTTAAAAATTAACATCTTTTTTTTA
ATTAACGAATTTATGGTATTTTTTTTTTTTCCCTTGGCGGGGATGGGGTGGGGTGGTTTTTCTCTATTCTAGAT
TATCCAGCCAAGAAGATGAAAACCTACAGAGAAGGGATTGGCTTGGTGGCTTATGCTGCAGATTTCATCTGATGAA
GAGGAGGAACATGGAGGTTCATAAAAAATGCAAGTAGTTTTTCCACAGGGCTGGAGTTGGGATACCAATATCCTTCA
TCACAACCAGAGCTAAACAACAGATGCCATTCTGATGGCTCCCTAGGAACACAGTGGGAACAGAGTTTGACCTT
CAGTGACTCTTCTTAGCAATAATGCATGCAATTTGATTTAACAGACTCTGGGGCTGTGCTGGGAACCATCTGGA
CCTTTGCAGAAGTTAGAGATTTCAGTGCCCCCTTTCTTAAAGGGGTTCTTAAACACCAACCAAAAAATCCTTATTT

3652/5332

FIGURE 3186B

TGCAGTGGCATAGAATCTGTTAAAAATTTAATTAGAATCACAAATTTATCTCAGAAGCTTTTTAACAGTTGGTGAA
ATGTGCTTGTCCAACAAAGCATCCTAACAGGGTCGTTCCCATACACATTTGACCTGGTCAGCCTTTTCCAGGTGA
ATAGCCCCAGTTCTGACATAAAGAAAGTTTTATTGTATTTTACTACTGTTTGGTCAATTTTGATATATAACTGG
TTACAAACAGAGCCTTACTATTTATTAGTGGGGAAATGATTTTAAGACCGTCCTTTTCAGTATTTAATTCTGACA
GATCTGCATCCCTGTTTTGTTTTGGATTATTTCTGTTTTGGAAAATGCTGTCTCATTTAAACTGTTGGATATAG
CTGGATCCTGGATAGGAAAATGAAATTATTTTTTCATTGTGTTTTTAATTGGGGTGATCCAAAGCTGGCACCTT
CAGGCACATTGGTCTCATAGCCATTACTGTTTTTATTGCCCTTCTAAGATCCTGTCTTCAGCTGGGTCAGAGAAA
ACTTCTTGACTAAACTGGTCAGAACTCATCACAGAAATGAAATACAGTGGTCTCTCTCTCCAGAACTGGTTGC
AGCTAAAACAGAGAGATCTGACTGCTGGCTATAGGATTTTGGACTTAATGACTGAAATTGCAAATTGTCCTTTTT
CTTGGCATTACAGATTTTGCCAAAATAACTTTTTGTATCAAATATTGATGTGTGAAAGTGAAGGAGCTAGTCTGC
TGAACCAGGAATAGTTTGAGATATTGAACGTGCATTTTGCACATTTGAATACTTTGCAGGCTGGCTTTGTATAA
ACTTATCCTCTGGTTTCCTATATGTTGTAAATATTTAGACCATAATTCATTATAAATAAATCTATAAATATTC

3653/5332
FIGURE 3187

AGAAATCTTCAGCCAAACAGCTGCAGGAAGTAGAGAAGGTTAAACCCAGAGTGAGAAAGTTCATCAGACTCTGA
TTCTGGACCCAGCACAGAGGAAGAGACTCCAGCAGCAGATGCAGCAGCACGTTTCAGCTCTTGACCCAAATCCACC
TTCTTGCCACCTGCAACCCCAACCTCAATCCGGAGGCCACTACCACCAGGATATTTCTTAAAGAGCTGGGAACCT
TTGCTCAAAGCTCCATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCCGTAACTTGA
TGGGAGCTATGCAGCTGATTGAAGACTTCAGCACACATGTGACGATTGACTGCAGCCCTCATAAACTGTCAAGA
AGACTGCGAATGAATTTCCCTGTTTGCCAAAGCAAGTGGCTTGGATTCTGGCCACAAGCAAGGTTTCATGTATC
CAGAGTTACTTCCAGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCGTCTTCACCAAGGCTGAGGACA
ATTTGTTAGCTTTAGGACTGAAGCATTGGAAGGAACTGAGTTTCCTAATCCTCTAATCAGCAAGTACCTTCTAA
CCTGCAAAACTGCCCACCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTAA
AATTTTATAAGAAGACCAACAGCTGCCAGTCCTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGC
CACCTATAGAGAGAGAAGAACACCGGCTCCCATTTGTTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGTGC
GGCAGATGGCTGATGGTGTAGAGAGGTAGGAAATATGACTGGAACCACTGAGATCAACTCAGATCGAAGCCTAG
AAAAAGACAATTTGGAGTTGGGGAGTGAATCTCGGTACCCACTGCTATTGCCTAAGGGTGTAGTCTGAAACTGA
AGCCAGTTGCCACCCGTTTCCCCAGGAAGGCTTGGAGACAGAAGCGTTTCATCAGTCTGGAAGCCCTCCTTATCC
AACCCAGCCCTCTCTCCAGCCAGCTTCAACCCCTGGGAAAACACCAGCCCGATCAACTATTGAGAAGCCCTC
CGAGCAAAATGGTGCTCCGGATTCTCACCATAACAGCCAGCCACTGTTTTACAGACAGTTCAGGTGTCCCTC
CACTGGGGGTGAGTGGAGGTGAGAGTTTTGAGTCTCCTGCAGCACTGCCTGCTGTGCCCCCTGAGGCCAGGACAA
GCTTCCCTCTGTCTGAGTCCCAGACTTTGCTCTCTTCTGCCCCCTGTGCCAAGGTAATGCTGCCCTCCCTTGCCC
CTTCTAAGTTTCGAAAGCCATATGTGAGACGGAGACCCTCAAAGAGAAGAGGAGTCAAGGCCTCTCCCTGTATGA
AACCTGCCCTGTTATCCACCACCTGCATCTGTTATCTTCACTGTTCTGCTACCACTGTGAAGATTGTGAGCC
TTGGCGGTGGCTGTAACATGATCCAGCCTGTCAATGCGGCTGTGGCCAGAGTCCCCAGACTATTCCCATCACTA
CCCTCTTGGTTAACCTACTTCTTCCCCTGTCCATTGAACCAGTCCCTTGTGGCCTCCTCTGTCTCACCCTTAA
TTGTTTCTGGCAATTCGTGTAATCTTCTATACCATCCACCCCTGAAGATAAGGCCACGTGAATGTGGACATTG
CTTGCTGTGGCTGATGGGGAAAATGCCTTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAAGTATCTCCTC
TCTCTGCTACTGTTTTCCCGAAAGTGGAACATAGCCAGGGCCTCCACTAGCAGATGCAGAGTGCCAAGAAGGAT
TGTCAGAGAATAGTGCTGCTGCTGGACCGTTGTGAAAACAGAGGAGGGGAGGCAAGCTCTGGAGCCGCTCCCTC
AGGGCATCCAGGAGTCTCTAAACAACCCCTACCCCTGGGGATTTAGAGGAAATTGTCAAGATGGAACCTGAAGAAG
CTAGAGAGGAAATCAGTGGATCCCCTGAGCGTGATATTTGTGATGACATCAAAGTGAACATGCTGTGGAATTGG
ACACTGGTGCCCCAAGCGAGGAGTTGAGCAGTGCTGGAGAAGTAACGAAACAGACAGTCTTACAGAAGGAAGAGG
AGAGGAGTCAGCCAACTAAAACCCCTTCATCTTCTCAAGAGCCCCCTGATGAAGGAACCTCAGGGACAGATGTGA
ACAAAGGATCATCAAAGAATGCTTTGTCTCAATGGATCCTGAAGTGAGGCTTAGTAGCCCCCAGGGAAGCCAG
AAGATTTCATCCAGTGTGATGGTCAGTCAGTGGGGACTCCAGTTGGGCCAGAACTGGAGGAGAGAAGAATGGGC
CAGAAGAAGAGGAAGAAGAGGACTTTGATGACCTCACCCAGATGAGGAAGATGAAATGTCATCAGCTTCTGAGG
AATCTGTGCTTTCTGTCCCAGAACTCCAGGTGAGAGCTGGAGAATATTCTCAAGTATTTCTGGGACTCAGTAATA
TGTATCACTTATTGATATGCCACCTGCTTGCTTGCTGCACTATGGATAGTCTAAAATCATTTGTATTGATTG
TGAATGCATTATGGGACATGATTGTGAGTTGAGGTGAAATGAGATGGAAAGGATGAAATTTTACTTATTATATT
AAACTCGTTTACACATTAAA

3654/5332
FIGURE 3188

ATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTACTTTTGCTTCACCTGAGACTGCTCCAG
AAGTGGAGACCAGCAGAACTCCACCAGGAGAGAGCATCAAAGCTGCTGGAAAAGGCCGGAACAATCATCGAGCTC
GCAACAAGCGGGGAAGTCGGGCTCGGGCCAGCAAGGACACCTCCAAGCTGCTGTTGCTGTATGATGAGGACATTC
TCGAGCGAGATCCACTCAGGGAGCAGAAGGACTTGGCCTTTGCCCAAGCTTATCTGACCAGGGTGCAGAGAAGCCC
TACAACATATCCCTGGCAAGTATGAAGACTTCCTTCAAGTCATCTATGAATTTGAGTCAAGTACCCAGAGACGGA
CGGCTGTAGATCTCTACAAAAGCCTGCAAATTCCTGCTCCAAGACTGGCCTCAGCTGTTGAAAGACTTTGCTGCTT
TCCTGTTACCTGAGCAAGCTCTGGCCTGTGGATTATTTGAGGAGCAGCAGGCTTTTGAGAAGAGCCGCAAGTTCC
TTCGGCAGCTGGAGATTTGCTTTGCAGAGAACCCTCACCACCAGAAAGATTATCAAGGTCTCCAAGGCTGTG
CAGACTGCCTTCCCCAGGAGATCACCGAGCTCAAGACACAGATGTGGCAGCTCCTCAAGGGCCACGACCACCTGC
AGGATGAGTTTTCTATCTTCTTTGACCACTTGCGCCAGCAGCTAGCCGGATGGGTGACTTTGAAGAGATCAATT
GGACTGAGGAAAAGGAGTATGAGTTTATGGCTTTGAAGAAGTGGCCCTGCCTGATGTGGAAGAAGAGGAGGAGC
CTCCCAAGATACCCACAGCCTCAAAGAACAAGAGGAAAAAGAGATCGGGTCCAAAATCATGATAAGGAGACTG
AATGGCCAGATGGGGCCAAGGACTGTGCCTGCTCCTGCCATGAAGGAGGTCCAGATTCCAAGCTGAAGAAGAGCA
AAAGGCGGAGCTGTAGCCACTGTAGCAGCAAGGCTGTGACAGCAAATCCTACAGAGCAAGGAGCCCCATGAGT
TGGTGGGCAGCAGCCCCACCGAGAGGCTAGTCCTATGCCTGGTGCTAAGGAAGCTGGGCAGGGCAAGGATATGA
TGGAAGAGGAAGCCCCAGAGGAGCGGGAGAGCACTGAGGCCACCCAGAGCAGGACTGTGAGGACCACCAGAAAGG
GAGAGATGCCTGTTTCAGGATTGGCAGTGGGGAGCACTTTGCCATCCCCTCGAGAAGTGACTGTTACAGAACGGC
TCCTCCTGGATGGCCACCACCTCATTACACAGAGACTCTCAATTTCCCCCACAAGTGGAGCTGTACTGTACA
CTGTTAAGAGAAACCAGGTTGGGCCTGAGGTTGCTCTGCCCCAAGGCATCCCCAGACTTCAGAAAGAGAGGG
AGGGCCAAAAGGCAGTGAGTGAGTCAGAGGCTTTGATGCTGGTCTGGGATGCATCAGAACTGAGAAATTGCCTG
GTACCGTGGAACCCCTGCTTCCTTCTGAGTCCTGTTTCTCAAAGACCAGAGATGCAGGGAGAAGACATGTGT
CCGGGAAACCAGACTCAAGAGAGATGGCTGCCCTCAAGCAGAGCTCGGGTGAAGACAAGAGACAGGACGTGCC
CTGTCCATGAATCTCCATCAGGAATTGACACCTCAGAGACTTCTCCAAAGCCCCTAGAGGGGGTTTGGCTAAAG
ACAGTGGAACACAGGCCAAGGGTCCAGAGGGGGAGCAGCAGCCAAAGGCCGAGAAAGCTACGGTGTGTGCCAACA
ACAGCAAGGTACAGTCCACTGGGGAAAAGGTTGTCTGTGGACAAGGGAAGCTGACCGTGTGATCCTCACCATGT
GCCAGGAGCAAGGGGCACAGCCACAGACCTTCAACATCATCTCCAGCAGCTGGGAAATAAGACCCCTGCTGAGG
TTTCCACCGTTTTTCGAGAACTCATGCAGCTCTTCCACACTGCCTGTGAAGCCAGCTCTGAGGATGAGGATGATG
CAACCAGTACCAGCAATGCAGACCAGCTGTCTGACCATGGGGACCTTCTGTCTGAAGAGGAGCTGGATGAATGAG
ACTCTGGGAATCATCTACACAGGACCAAAACCAACAGGCGCCCTGGCACCGGGAGGGGGTAGTTGTACTCTGCT
TGTACAGTCTTTGAGCCCAGTTTACAGATCTGGAGAGCAGGAGGCCAGGACAAGGACAAGGCTGGAGGATGGAG
TAGGACCCAGGGGCTCTGCCATCCTAGGCATCATTCAAGGCTTTTATGAAGACTTTACAGATGTCCTCTGTAAA
TAGCATCGAGAGTGGAGTTGAGTCTCTTCTCTACTTTTTTTTTGGTCTGATGGCACATATTTATTGTTCTGTGGT
CTAATCAGAGTGTTCCTAAATGTAAAAAGTGCATATGTTGGTGTAGCTAGTCCCGCGACATTGAGCTCCTCTGCA
TGAAGACACTGGGCTCCTGCATCCAGCTGTTTTTATTGCAAAGTCTCTTCTCCACACTGGGAACCTTTAGT
CCACGAGGCTGTACACACCTGGTAGCACTGGGCCAGGCTTTGTAGCTCCTGCAGCAGCTCTGCTACGTCATCGT
GCTCCACTCCAGCATCCATGAAGCTGGCCAGCGCCGCAAGTCGAGTTGGTGAGGTCTCTGGCCAAGGCTTCCA
GGGTCTGGTGCAGGGACGAAGAGGAACACAGTGCCCCAAACACTGGGATGCTCTCCACTGCTGTGGAGGGAGAGG
AAACAGAGACCTGTAGATGGATGATTATTCTGCCCTGGGACTCGCCAAACTGATAAGGAAGTCCAACCTTAGTAG
ACTTGATTGTAACTCAACAAATTTGGTGTATTGTCCCTTAGTACACCAGTACTCCAGAGGAAGAATGCTTTTC
TTGGGAGCCATAGGGTGAATAAAGGAATGTTAACTGTGG

3655/5332
FIGURE 3189

CCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGAA
CTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCGG
ACCTCCAGGAGTGCAAGGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGG
CGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGT
CCGAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAAC
ATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCTCCTCGCTTTGTGATGCAGGTGAAGACATTC
AGTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTAT
CCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCATTC
TGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGATCTTCTG
CAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAACCTACA
AATGAGCGCTTCTTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAAGCACTGAGAAAGGG
AGTCTCTGGGAGAAGTGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCTG
AAAGAGCTAAAGAGGCAAGTTCTTTGGGTATGTTTCACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGG
GGAAGAACCCTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTCACAACCTTGAGG
AAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCCC
CGGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTTCCATCCTG
GTTTCCAACCTATAACCCAAAGGAATTTGAAAGTTGTATTTCAGTATTATTTGGAAAACAATTGGCTTCAACATGAG
AAAGCTCCTACAGAAGGAAGGGAAGAGCTGCTGTTTCTAAGTAACGCGAACCCCTCGCTGCTGGAGCGGCAC
TGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAAG
ATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTTGTACCTATGGGATTGGACAGGACTGCAGTTGG
CTCTGGACCTGCATTAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCTTGTTCCTAAACTTTAT
ATCAGTTTATTGGATGTGGTTTTTTCATTTAAGATAATTATGGCTCTTTTCTAAAAATAAAATATCTTTCT

3656/5332
FIGURE 3190

CAAACAGCAGAAGGAGGTAGAGAAGGTTAAACCCAGTGTAAGGAAGTTCATCAGACCCTGATTCTGGACCCAGC
ACAAAGGAAGAGACTCCAGCAGCAGATGCAGCAGCATGTTTCAGCTCTTGACACAAATCCACCTTCTTGCCACCTG
CAACCCCAATCTCAATCCGGAGGCCAGTAGCACCAGGATATGTCTTAAAGAGCTGGGAACCTTTGCTCAAAGCTC
CATCGCCCTTCACCATCAGTACAACCCCAAGTTTCAGACCCTGTTCCAACCTGTAACTTGATGGGAGCTATGCA
GCTGATTGAAGACTTCAGCACACATGTTCAGCATTGACTGCAGCCCTCATAAAAGTGTCAAGAAGACTGCCAATGA
ATTTCCCTGTTTGCCAAAGCAAGTGGCTTGATCCTGGCCACAAGCAAGGTTTTTCATGTATCCAGAGTTACTTCC
AGTGTGTTCCCTGAAGGCAAAGAATCCCCAGGATAAGATCCTCTTCACCAAGGCTGAGGACAATTTGTTAGCTTT
AGGACTGAAGCATTGTTGAAGGGACTGAGTTTCTTAACCTCTAATCAGCAAGTACCTTCTAACCTGCAAGACTGC
CCGCCAACTGACAGTGAGAATCAAGAACCTCAACATGAACAGAGCTCCTGACAACATCATTAAATTTATAAGAA
GACCAAAACAGCTGCCAGTCTTAGGAAAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGCCACCTATAGAGAG
AGAAGAACACCGGCTCCCATTTCTGGTTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGTGCAGGCACATGGCTGA
TGGTGCTAGAGAGGTAGGAAAATATGACTGGAACCACTGAGATCAACTCAGATCAAGGCCTAGAAAAAGACAACCTC
AGAGTTGGGGAGTGAAACTCGGTACCCACTGCTATTGCTTAAGGGTGTAGTCTGAAACTGAAGCCAGTTGCCGA
CCGTTTTCCCAAGAAGGCTTGAGACAGAAGCGTTTCATCAGTCTGAAACCCCTCCTTATCCAACCCAGCCCTC
TCTCCAGCCAGCTTCAACCTGGGAAAAACACCAGCCCAATCAACTCATTGAGAAGCCCTCCGAGCAAAATGGT
GCTCCGGATTCTCACCATAACAGCCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTCCACTGGGGGTGAG
TGGAGGTGAGAGTTTTGAGTCTCTGCGAGCACTGCCTGCTATGCCCCCTGAGGCCAGGACAAGCTTCCCTCTGTC
TGAGTCCAGACTTTGCTCTCTTCTGCCCCCTGTGCCCAAGGTAATGATGCCCTCCCCTGCCTCTTCCATGTTTCG
AAAGCCATATGTGAGACGGAGACCCTCAAAAAGAAGGGGAGCCAGGGCCTTCGCTGTATCAAACCTGCCCCCTGT
TATCCACCCTGCATCTGTTATCTTCACTGTTCTGCTACCACTGTGAAGATTGTGAGCCTTGGCGGTGGCTGTAA
CATGATCCAGCCTGTCAATGCGGCTGTGGCCCAGAGTCCCCAGACTATTCCCATCGCCACCCTCTTGGTTAAACCC
TACTTCTTCCCCTGTCCATTGAACCAGCCCTTGTGGCCTCCTCTGTCTCACCCTTAATTGTTTCTGGCAATTC
TGTGAATCTTCTTATACCATCCACCCCTGAAGATAAGGCCACATGAATGTGGACATTGCTTGTGCTGTGGCTGA
TGGGGAAAATGCCTTTCAGGGCCTAGAACCCAAATTAGAGCCCCAGGAATATCTCCTCTCTCTGCTACTGTTTT
CCCCAAGTGGAACATAGCCCAGGGCCTCCACCAGTCGATAAACAGTGCCAAGAAGGATTGTGAGAGAACAGTGC
CTATCGCTGGACCGTTGTGAAAACAGAGGAGGGAAGGCAAGCTCTGGAGCCGCTCCCTCAGGGCATCCAGGAGTC
TCTAAACAACTCTTCCCCTGGGGATTTAGAGGAAGTTGTCAAGATGGAACCTGAAGATGCTACAGAGGAAATCAG
TGATTTCTTTGAGCTAGGAGAATAAGAGTCTGGAGACTGGGAGCCTTCACTTCGGCCTCCGATTGGTGGCGCAT
AGGGTGTAACCAATAGGAAACCCCTAAAGGGTACTTAAACCCAGATTTTGCAACTGGGGCTCTTGAGCAGCTTG
CTTTAGCCTGCTCCCACTCTGTGGAATATACTTTTGCTTCAATAAATCTGTGCTTTTATTGC

3657/5332
FIGURE 3191

AGCGCAGTATGCGGGCGGGGCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTGCGGGTTTCGTGGGCGCGC
ACTGGTGGAAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGCCCCG
ACGTCTGTATCGTACGGGCCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTGA
AGGGTAGTTTGAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGATGCTGCAATAGCATGGC
AGGGGAAGCTCACCACACACAAAGAGGAAGTCTATCCCAAGAACCCTTATCTCCAAGACTTTCTGAGTGCAGAGG
GAGTGTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAAGGTTCCCTACCACCTCCCCACCG
CTACAACCTCCAAAACCCTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCCTCAGAGTCCATCTCC
ATCCCCGGAGCATCTGTATGATTGAGAAGTACAACCACGATGGGGAAGCAGGTGCGGTGGAGGCTTTTGCCCAAG
GGGAAAGTGTCTAAAGGAACCCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCATTTCTACGTGGAGGAATGTG
ACTACTTGACAGGGCTTCCAGATCCTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCGGCAGAGC
TGCTACAAGATGAATATTCAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGG
CCCAGAGAAACATCTATCGTCTATTAAACACAGCTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGCT
GCCCTTGTCCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGATG
CCTGAGGCCAAAGTGCCCATCTTGGTGTCTTCTTACAGGCCACTCTGCCCTTCCACTGCAGTGCCATCCTGGCTAC
AGCCCTGGACACAGTCACGTGTCTTATCGCCTGTGTTCCTCTCCAGTTTCCATGGTTTCATCTGGCTGACATGCT
GAGCTTCTGTGGGAAAAAGGTGGTGACAGCAGGAGCAATCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCC
TGATTCCCTGATGCAGTTTGGAGGAGCCACCCCATGGACCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACG
TTGCTTTGCCCAGTCAGTGGTGCTGAGGGGTATAGACAGAGCATGCCACACAAGCCAGCTCACCCACGGGACACC
TCCACCCCTCTGCCCTTTCATGCATGTACCACTGGGGGAAGAAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGG
AGTCATGAGTTCTTCCCATCTGCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCCACTCTTCTCAAGCTG
CAGTCCACCGGGTATGGTTCTGGATGGTTCCCCCAAGGGAGCAGCAGTGGAGAGCATCCAGTGTGTTGGGGCACT
GTGTTCTCTTCGTCCCTGCACCAGACCCTGGAAGCCTTGCCAGAGACCTACCAAACCTCGACTTGCGGCGCTG
GGCCAGCTTCATGGATGCTGGAGTGGAGCACGATGACGTAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCCA
GTGCTACCAGGGTGGTGACAGCCTCGTGGACTAAAGTTCCCAGTGTGGGAGAAAGGAGCTAGTTTGCAATAAAAA
CAGCTGGATGCAGGAGCCCAGTGTCTTCATGCAGAGGAGCTCAATGTGCGGGGACTAGCTACACCAACATATGCA
CTTTTACATTTAGAAACACTGTGATTAGACCACAGAACAATAATATGTGCCATCAGACC

3658/5332

FIGURE 3192A

CGCCTCCCCTCAGTTTGCCCCCTTTAGCCTTCCACCTTTCCCTTCTCCTCTCTCGCATTTCGCCAGTCAGCTTA
CCCCGTGGCCGCTCCTGACAAGCGGGAGGGATCCGCCGTGGACCCAGGGAAGCGGAGGAGCCTGGCGGCCACCC
CCTCTTCCCCACTTCCCTGCACTCTCATCGCTCTCGGCCCTCGGCCTCCGACACGAGAAAAGATGCTGGTT
TCGAGTTTGGAGATCCTTGTTTTTATGGAACACAGTTCTGTAAAAATTTTCATAAGATTCTTGGCAATAACAT
ACGCTTGTGATGGACCCTAGAAATACTGCTATGTTAGGATTGGGTTCTGATTCCGAAGGTTTTCAAGAAAGAGT
CCTTCTGCCATCAGTACTGGCACATTGGTCAGTAAGAGAGAAGTAGAGCTAGAAAAAACACAAAGGAGGAAGAG
GACCTTCGCAAACGGAATCGAGAAAGAAACATCGAAGCTGGGAAAGATGATGGTTTGACTGATGCACAGCAACAG
TTTTAGTGAAAGAAACAACTTTTCAGAGGGAATTTAAAATTGAAAATTGGCCTCCAGGCTAAGAGAAGCTAAA
AAACCTCCAAAGAACTTGGAGAACTATGTATGTCGACCTGCCATAAAAAACAACTATTAAGCACCCAAGGAAAGCA
CTTAAAGTGGAAAGATGACGGATGAAAAGAATGAACACTGTCTTCAAAACGAGACCCCTTCAAAGTTGTACAAG
AAAGCAGATGATGTTGCAGCCATTGAATGCCAGTCTGAAGAAGTCATCCGTCTTCATTACAGGGAGAAAACAAT
CCTTGTCTAAGAAGCTGTCTCCAGTACACTCAGAAATGGCAGATTATATTAATGCAACGCCATCTACTCTTCTT
GGTAGCCGGGATCCTGATTTAAAGGACAGAGCATTACTTAATGGAGGAAGTAGTGTAACAGAAAAGTTGGCACAG
CTGATTGTCTACCTGCTCCTTCCCAAGTCTTCCAAGACAAAACCGAAGAAGTTAGGAAGTGGCACTACAGCAGGA
TTGGTTAGCAAGGATTTGATCAGGAAAGCAGGTGTTGGCTCTGTAGCTGGAATAATACATAAGGACTTAATAAAA
AAGCCAACCATCAGCACAGCAGTTGGATTGGTAAGTAAAGATCCTGGGAAAAAGCCAGTGTTAATGCAGCAGTA
GGATTGGTCAATAAGGACTCTGTGAAAAAAGTGGGAACTGGCACTACAGCGGTATTCATTAATAAAAACTTAGGC
AAAAAGCCAGGAAGTATCACTACAGTAGGACTGCTAAGCAAAGATTAGGAAAGAAAGCTAGGAATTGGTATTGTT
CCAGGTTTAGTGATAAAGAGTCTGGCAAGAAGTTAGGACTTGGCACTGTGGTTGGACTGGTTAATAAAGATTG
GGAAAGAAATTGGGTTCTACTGTTGGCCTAGTGGCCAAGGACTGTGCAAAGAAGATTGTAGCAAGTTCAGCAATG
GGATTGGTTAATAAGGACATTGGAAAGAACTAATGAGTTGTCCTTGGCAGGTCTGATCAGTAAAGATGCCATA
AACCTTAAAGCCGAAGCACTGCTCCCCACTCAGGAACCGCTTAAGGCTTCTTGTAGTACAAACATCAATAATCAG
GAAAGTCAGGAAGCTTTCTGAATCCCTGAAAGATAGTGCCACCAGCAAACTTTTGAAAAGAAATGTTGTACGGCAG
AATAAAGAAAGCATATTGGAAAAGTTCTCAGTACGAAAAGAAATCATTAATTTGGAGAAAGAAATGTTTAATGAA
GGAACATGCATTACGCAAGACAGTTTCTCATCCAGTGAAAAGGGATCTTATGAAACCTCAAAGCATGAAAAGCAG
CCTCTGTATATTGCACTTCTCCGGACTTTAAAATGGGAGGTGCTTCTGATGTATCTACCGCTAAATCCCCATTC
AGTGCAAGTAGGAGAAAGCAATCTCCCTTCCCCATCACCTACTGTATCTGTTAATCCTTTAACCAGAAAGTCCCCCT
GAAACTTCTTACAGTTGGCTCCTAATCCATTACTTTTAAGTTCTACTACAGAACTAATCGAAGAAATTTCTGAA
TCTGTTGGAAAGAACCAGTTTACTTCTGAAAGTACCCACTTGAACGTGGTTCATAGGTCAGTTGGTTCATAGTATA
AGTATTGAATGTAAAGGGATTGATAAAGAGGTAAATGATTCAAAAACCTACCCATATAGATATTCCAAGAATAAGC
TCTTCCCTTGGAAAAAGCCAAAGTTTGACTTCTGAATCCAGCATTCATACTATTACTCCTTCAGTTGTTAACTTC
ACTAGTTTATTTAGTAAATAAGCCTTTTTTAAACTGGGTGCAGTATCTGCATCAGACAAACACTGCCAGTTGCT
GAAAGCCTAAGTACTAGTTTGCAAGTCCAAACCATTAAAAAAAGAAAAGGAAGAAAACCTCGGTGGACTAAAGTG
GTGGCAAGAAGCACATGCCGGTCTCCAAAAGGGCTAGAATTAGAAAAGATCAGAGCTTTTTAAAAACGTTTCATGT
AGCTCACTATCAAATAGTAATTCTGAGCCAGCCAAGTTTATGAAAAACATTGGACCCCTTCATTTGTAGATCAT
GACTTCTTAAACGCCGATTGCCAAAGTTGAGCAAATCCACAGCTCCATCTCTTGCTCTCTTAGCTGATAGTGAA
AAACCATCTCATAAGTCTTTTGCTACTCACAACTATCCTCCAGTATGTGTGTCTCTAGTGACCTTTTGTCTGAT
ATTTATAAGCCCAAAAGAGGAAGGCCTAAATCTAAGGAGATGCCTCAACTGGAAGGGCCACCTAAAAGGACTTTA
AAAATCCCTGCTTCTAAAGTGTCTTTTACAGTCTAAGGAAGAACAAGAACCCCAATTTTACAGCCAGAAAT
GAAATCCCTTCCCTCAAACAAGGTCTGTCTGTCTCTCTTTTCCAAAAAAGAGAGGCAGGCCTAAGAGGCAATG
AGGTCAACAGTCAAGATGAAGCCACCTGTACTGTCAAGTGGCTCCATTTGTTGCCACTGAAAGTCCAAGCAAGCTA
GAATCTGAAAGTGACAACCATAGAAGTAGCAGTGATTTCTTTGAGAGCGAGGATCAACTTCAGGATCCAGATGAC
CTAGATGACAGTCATAGGCCAAGTGTCTGTAGTATGAGTGACCTTGAGATGGAACCAAGATAAAAAAATTACCAAG
AGAAACAATGGACAATTAATGAAAACAATTATCCGCAAAATAAATAAAATGAAGACTTTAAAGAGAAAGAACTG
TTGAATCAGATTCTTCAAGTTCTGTAGAATCAAGTAATAAAGGGAAAGTGCAATCCAACTCCATAATACGGTA
TCAAGTCTTGCTGCCACATTGGCTCTAAATTGGGCCAACAGATAAATGTGAGCAAGAAAGGAACCATTTATATA
GGAAGAGAAGAGGTGCAAAACCAAACTGTCTTAAATGGTATTCTTTCTGGTAGTCTACTAGCCTTGCTGTT
CTTGAGCAACAGCTCAACAGGCAGCTGGGTGAGCATTAGGACAGATTCTTCCCCATTACTGCCTTCATCTGCT

3659/5332
FIGURE 3192B

AGTAGTTCCTGAGATTCTTCCATCACCTATTTGCTCTCAGTCTTCTGGGACTAGTGGAGGTCAGAGCCCTGTAAGT
AGTGATGCAGGTTTTGTTGAACCCAGTTCAGTGCCATATTTGCATTACACTCCAGACAGGGCAGTATGATTACAG
ACTCTTGCAATGAAGAAGGCCTCAAAGGGGAGGAGGCGGTTATCTCCTCTACTTTGTTGCCAAATTCTCCTTCG
CACTTGAGTGAAGTACATCTCTAAAAGAAGCTACTCCTTCCCAATCAGTGAGTCTCATAGTGATGAGACCATT
CCCAGTGATAGTGGAAATTGGAACAGATAATAACAGCACATCAGACAGGGCAGAGAAATTTTGTGGGCAAAAAAG
AGGAGGCATTCTTTGAGCATGTTTCTCTGATTCCCCCTGAAACCTCTACAGTGCTAAGCAGTCTTAAAGAAAAA
CATAAACACAAATGTAAGCGCAGGAATCATGATTACCTCAGCTATGACAAGATGAAAAGGCAGAAACGAAACCGG
AAAAAGAAATATCCCCAGCTTCGAAATAGACAGGATCCAGACTTTATTGCAGAGCTGGAGGAACTAATAAGTCGC
CTAAGTGAATTCGGATCACTCATCGAAGTCATCATTTTATCCCCGAGATCTTCTGCCAACTATCTTTCGAATC
AACTTTAATAGTTTCTATACATCCTTCTTTCCCCTTAGACCCTTTGCACTACATTGAAAACCTGACTTAAAA
AAGAAAAGAGGGAGACCCCTAAGATGAGGGAGGCAATGGCTGAAATGCCTTTTATGCACAGCCTTAGTTTTCTT
CTTTCTAGTACTGGATTCTATCCATCTTATGGTATGCCTTACTCTCCTTACCCCTTACAGCTGCTCCCATAGGA
TTAGGTTACTATGGAAGGTATCCTCCCACTCTTTATCCACCTCCTCCATCTCCTTCTTACCACGCCACTTCCA
CCTCCTTCTATATGCAATGCTGGTCACTTCTCAATCCTGCCAAATACCATAAGAAAAAGCATAAGCTACTT
CGACAGGAGGCCCTTTCTTACAACCCAGCAGGACTCCCCTCCTTTCCATGAGTACCTACCCAGTGTTCTCTCTGAG
ATGGCCTATGGTTGGATGGTTGAGCACAAACACAGGCACCGTCACAAACACAGAGAACACCGTTTCTTCTGAACAA
CCCCAGGTTTTCTATGGACACTGGCTCTTCCCGATCTGTCTGGAATCTTTGAAGCGCTATAGATTTGGAAAGGAT
GCTGTTGGAGAGCGATATAAGCATAAGGAAAAGCACCGTTGTGCATGTCTGCTGCCTCATCTCTCTCTTCAAAA
AGCTTAATAAACAGAGAGGAACAGTGGGTCCACCGAGAGCCTTCAGAATCTAGTCCATTGGCCTTGGGATTGCAG
ACACCTTTACAGATTGACTGTTTCAAGAAAGTTCTCCAAGCTTATCCCTTGGAGGATTCACTCCCAACTCTGAGCCA
GCCAGCAGTGATGAACATACAAACCTTTTCAAGTGCAATAGGCAGCTGCAGAGTTTCAAACCTTAACCTCAGT
GGCCGGAAGAAATTAAGTACAGCCCTGGACTCTTTTCTGCACAGGACACTTCACTAAATCGGCTTACAGAAAG
GAGTCACTGCCTTCTAACGAAAGGGCAGTACAGACTTTGGCAGGCTCCCAAGCAACCTCTGATAAACCTCCAG
CGGCCATCAGAGAGCACAAATTGTAGCCCTACCCGAAAAGGTTCTCATCTGAGAGTACTTCTTCAACAGTAAAC
GGAGTTCCCTCTCGAAGTCCAAGATTAGTTGCTTCTGGGGATGACTCTGTGGATAGTCTGCTGCAGCGGATGGTA
CAAAATGAGGACCAAGAGCCCATGGAGAAAAGTATTGATGCTGTGATTGCAACTGCCTCTGCACCACCTTCTTCC
AGTCCAGGCCGTAGCCACAGCAAGGACCGAACCTGGGAAAACCAGACAGCCTTTTAGTGCCTGCAGTCACAAGT
GACTCTTGCAATAATAGCATCTCACTCCTATCTGAAAAGTTGACAAGCAGCTGTTCCCCCATCATATCAAGAGA
AGTGTAGTGGAGCTATGCAACGCCAAGCTCGGAAAATGTGCAATTACGACAAAATCTTGGCCACAAAGAAAAAC
CTAGACCATGTCAATAAAATCTTAAAGCCAAAAAAGCTTCAAAGGCAGGCCAGGACAGGGAATAACTTTGTGAAA
CGTAGGCCAGGTGCGACCTCGGAAATGTCCCTTCAGGCTGTCTGATCAATGCAAGCATTCAGGCTGCTCAGTTT
GTCAACCCAGAAATTGAACAGAGACGAGGAAGGAGCAGCAGTGCACCTCAGTCTGACACAGTTACAGATGTAATT
GAGGCTGTTGTTTCAAGAGTGTAATCTGAACCCAGAACATAAAAAAGGGGTTGAAGAGAAAAGGTTGGCTATTGGAA
GAACAGACCAGAAAAAGCAGAAGCCATTACCAGAGGAAGAAGAGCAAGAGAATAATAAAAGCTTTAATGAAGCA
CCAGTTGAGATTCCAGTCCTTCTGAAACCCAGCTAAACCTTCTGAACCTGAAAGTACCTTGACGCTGTGCTT
TCTCTCATCCCAAGGGAAGAAAGAGCCCCACGTCCCCAAAGAAAGATATCAGAAAGCAGGGCTGTATTCTGAC
GTTTACAAAAGTACAGACCCAAAGAGTCGATTGATCCAATTAAAGAAAGAGAAGCTGGAGTATACTCCAGGAGAG
CATGAATATGGATTATTTCCAGCGCCATTATGTTGTGTTTTTTGTTTCAGGAAAGTATCTAAGACAAAAGAGA
ATTGACTTCCAGCTTCCTTATGATATCCTTTGGCAGTGGAACACAATCAGCTATACAAAAGCCAGATGTCCCA
CTATATAAGAAAAATTCGTTCAAATGTCTACGTTGATGTCAAACCCCTTTCTGGTTACGAAGCTACCACCTGTAAC
TGTAAGAAGCCAGATGATGACACCAGGAAGGGCTGTGTTGATGACTGCCTCAATAGAATGATCTTTGCTGAGTGT
TCCCCAACACTTGCCCATGTGGCGAGCAATGCTGTAACCAGAGGATACAGAGGCATGAATGGGTGCAATGTCTA
GAACGATTTGAGCTGAGGAAAAAGGTTGGGGAATCAGAACCAGAGCCCTAAAAGCTGGGCAGTTCATCATT
GAATACCTAGGGGAGGTGCTCAGTGAACAGGAGTTCAGGAACAGGATGATTGAGCAGTATCATAATCACAGTGAC
CACTACTGCCTGAACCTGGATAGTGGGATGGTGATTGACAGTTACCGCATGGGAAATGAGGCCCGATTATCAAC
CATAGCTGTGACCCAAATTGTGAAATGCAGAAATGGTCTGTTAATGGAGTATACCGGATTGGACTCTATGCTCTT
AAAGACATGCCAGCTGGGACTGAACTCACTTATGATTATAACTTTCATTCTTCAATGTGGAAAAACAGCAACTT
TGTAAGTGTGGCTTTGAGAAATGTGAGGAATCATCGGAGGCAAGAGTCAGCGTGTGAATGGACTCACCAGCAGC

3660/5332
FIGURE 3192C

AAAAACAGCCAGCCCATGGCCACACACAAAAATCTGGACGGTCAAAAGAGAAGAGAAAGTCTAAGCACAGCTG
AAGAAAAGGAGAGGCCATCTCTCTGAGGAACCCAGTGAAAATATCAACACCCCACTAGATTGACCCCCAATTA
CAGATGAAGCCAATGTCCAATCGTGAAAGGAACCTTTGTGTTAAAGCATCATGTATTCTTGGTCCGAAACTGGGAG
AAGATTCTGCAAAAACAGGAGGAAGTAAAGCACACCAGTGATAATATCACTCAGCATCATTATATACCCGTTGG
AATGGGATCTGCCGAGATGATGGGAATATCAAGTCTGATGTCTTCATGACCCAGTTCTCTGCCCTGCAGACAGCT
CGATCTGTTTGAACAAGACGGTTGGCAGCTGCAGAGGAAAATATTGAAGTGGCTCGGGCAGCCCGCTAGCCAG
ATCTTCAAAGAAATTTGTGATGGTATCATCTCTTATAAAGATTCTTCCCGCAAGCACTGGCAGCTCCACTTTTG
AACCTTCCCCCAAAGAAAAGAATGCTGATTATTATGAGAAGATCTCTGATCCCCTAGATCTTATCACCATAGAG
AAGCAGATCCTCACTGGTTACTATAAGACAGTGGAAGCTTTTGATGCTGACATGCTCAAAGTCTTTCCGAATGCT
GAGAAGTACTATGGGCGTAAATCCCCAGTTGGGAGAGATGTTTGTCTGTCTACGAAAGGCCATTACAATGCCCGG
CATGAGGCATCAGCCAGATTGATGAGATTGTGGGAGAGACAGCAAGTGAGGCAGACAGCAGTGAGACCTCAGTC
TCTGAAAAGGAGAATGGGCATGAGAAGGACGACGATGTTATTCGCTGTATCTGTGGCCTCTACAAGGATGAAGGT
CTCATGATCCAGTGTGACAAAGTGCATGGTATGGCAGCACTGTGATTGTATGGGAGTGAAGTCAAGTGTGGAGCAG
TACCTTTGTGAGCAGTGTGACCCAAGGCCGTGGACAGGGAGGTTCCCATGATCCCTCGGCCCACTATGCCCAA
CCTGGCTGTGTCTACTTCATCTGTTTGTCTCCGAGATGACTTGTCTGCTTGTGAGGGTGAAGTGTGTGATCTGATG
AGGGATAGTCGGCGCACCCCTGATGGCCACCCGGTCCGTCAGTCCCTATCGACTGTTATCTCACATTAACCGAGAT
AAACTTGACATCTTTTCGATTGAGAAGCTTTGGAAGAATGAAAAGAGGAACGGTTTGCCTTTGGTCAACATTAT
TTCCGTCCCCACGAAACACCACTCTCCATCCCGTCGGTTCTATCATAATGAAGTATTTCGGGTGCCACTCTAT
GAGATCATTCCCTTGGAGGCTGTAGTGGGGACCTGCTGTGTGTTGGACCTTTATACGATTGTAAAGGGAGACCC
AAAGGAGTAAAGGAGCAAGATGTGTACATCTGTGATTATCGGCTTGACAAGTCAGCACACCTGTTTACAAGATC
CACCGGAACCGCTATCCTGTCTGCACCAACCCATGCTTTTGATCACTTCCCCAAGAAGCTCACTCCCCAAAAA
GATTTCTCGCCTCATTACGTCCAGACAACCTACAAGAGGAATGGAGGACGATCATCCTGGAAGTCTGAGCGCTCA
AAGCCACCCCTAAAAGACTTGGGCCAGGAGGATGATGCTCTACCCTTGATTGAAGAGGTTCTAGCCAGTCAAGAG
CAAGCAGCCAATGAGATACCCAGCCTGGAGGAGCCAGAACGGGAAGGGGCCACTGCTAACGTCAGTGAGGGTGAA
AAAAAACAGAGGAAAGTAGTCAAGAACCCAGTCAACCTGTACCCTGAGGAACGACGGCATAACCAACGGGAA
CGACTCAACCAGATCTTGCTCAATCTCCTTGAAAAATCCCTGGAATAATGCCATTGATGTGACCTACTTGCTG
GAGGAAGGATCAGGCAGGAACTGCGAAGGCGTACTTTGTTTATCCCAGAAAACAGCTTTCGAAAAGTGACCCCTCA
AAGAATGAGAACCTCAAGCATCTGGGATCCAGTGAGCTAATCAGTCTGCCTCCTGCTCTCTGGGTATAGACAG
GGGTGGGAAGGGTCCATCTGGGCAAGGGGAATGGGGCCATGTTGTTGACATTAGGTACTTAATAAGCCTTGGAGC
TAGTGGAGAGGGAGAGGAAAGGGTTCTGTCCAAGACAGTTCAGGTTAATTAATTTTCTTCTCCATTGCTTACCT
TAAGGGTTAATAATGTAGAGAGGAGGGAGGACCACATTGATGACCAGAACCTACTGGTACTTTATAGCATTTGCC
CCACCCACAGCTTAGGTTTTTCTGTCTATCCTCAGATCCCACAGGCATTGCGAAGAAGCTGCTTCTATACCCAG
GTATAACTCAAAATCCAAAGGATAGGGCCAGGATCCCTATTCTACCCCATCTATTCTGTGTGGCTCCAAGAG
CTACCCAGAGACCTTAAACAGAAACAGTAGCTGAGGCTTCTTCTAGATACCTGACTAGGGAGTGTGTCTCTC
CTTCTTGCCCCAACAGGTCAAAGTAAATGTGAGTTGACAGCTCAAAGCACTTGTAAGTGTGCCCCCTCCCTA
CCTCTACTCCCCAAAATGGAATCATGGGATAGGGAAGGCCCCCATGGGGTCAGAAGGGCACGGTAGTCTTGCAA
TTATTTTGTGTTTACCCTTCATAACC

3661/5332
FIGURE 3193

CGCCCTACAGGCCCTAGCAGGGCAGGCGGGAGGTGAGCGCGGCCATCCCGCTCCCGGAGTTCCGGGATCCTGGAG
TCCGTAGTTCGTGGTCCTTCGCCGGTGTCCCGGAGCCCAGCGGCTGTGGATGGCAGAAGCCCAGAGTGGGACTG
GTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTCAGCGTCTCCGTTGATAAAATCATCTCGCATTTTCG
GGGCCGCCCCGGAACCTTGGTGACAAGGCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGC
TGACCACCCTCTGCCCCGGCCCTCCACGCCCTGGTGGCGGACGGGCTGAAGCCTTTCCGGAAGGACCTCATCACCG
GGCAGCGCAGGAGCAGCCCCCTGGAGCGTGGTGGAGGCGTCGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGGAA
CCCTGTATAGCCAGGTGAGCCGTCTAGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCC
TCCTCAACACCAAGCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCGCTGCTCTCCCTCCTGTACC
TGCCAACAGGATTTTTCTCCCTGGCCCCGCGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGC
CATTGTGGTGTCTACTTTCCACCTGGACCTGCTCTTTGAGCACCACCACCACCTGCCCCCTGGGCCCCACCTCAGG
CCCCTGCCCCCTCAGGCCCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGGCCGCTGG
CCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTGCTTCAGACCCCTCTGACTCTCCAAACCTTCCCACACCAGGGA
GCTGGTGGGAGCAGTTGACCCAGGCCCTCCCGGCTCTATGCCCTCTGGGGGCACTGAGGGCTTTCTCTTTCCCGAT
GGGCACCGGGGCGTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCCCTGCCCCACAGATGAGATGGCAC
CAGGCAGGGGCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGGCCCGCAGAAAATGAGAATGGAGCCCTAA
AGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGAGTGTGTTGGCTCTTGTGAAGCGGGGGGCACCTCCCG
AGATGCCTTCTCCTCAGGAGCTTGAGGCCTCAGCACCCAGGATGGTGCAAACCCATAGGGCAGTGCGGGCTCTCT
GTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGGAAGTGCTGCGTGTCTATCACCACAGTGG
ATGAGGACTGGCTCCGCTGTGGGCGGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTATACCTCCCTTGTCTGT
AGCCCTGGGACCTTTCTGCGTATGTGTCTCCTTCTGTACCTGGGAATGGAATGGCCAGTGAACACCATCCC
AGAAGCATTTTCCCTCTGCAAAATGACGTTTCTTCCCACGTCTGTTTCTGCTAATATTTAAATAAACCTTCTCT
CTTCCCTCCTATACCCACCTGTAAGGTGAAATCTGCTCTTCTTCCAAATATATAAAAAAGGAATTGCCCTCCAGG
TAATCCCTTTCTTTTCCCGTCTATATAAGGAATGTCTTCTTCTATCTATCTGCAAAATGGAATCTAGAC
CTCCTTCTTCTATCCATAAGTGGACTGTGCCAGTACAATACATGCCTCAGCCCCCAAGCCTAGAAGGACCTCTAGT
CTCCTTCTGTGTGGAATCTTCCCCACTCCATCCCTCCCAAGTTGCCTGTATTGATAATGTACTCACTCATGCTG
TACTAGGTGCTGAAGCCTGGACACCCTTGGTGGGTGGGCTGTGGTGATGGTTTGCATCCTTCTCTCTTTGTCCC
AATAAAGTATGGGAGTTG

3662/5332
FIGURE 3194

AGGTGAGAGAGGATGTGTGCTGGGCCTTGGAGGAAGGGGGCCGAGACCGGGCCTTACTTCTGTAACGATACTGTG
AGGCATCGGAAGGCCAGCCTGTTGTGTCCGTTTTGAAGGATGCCCCCTGTCCCGCTGGTTGAGATCTGTGGGGGTC
TTCCTGCTGCCAGCCCCCTACTGGGCACCCCGGGAGAGGTGGCTGGGTTCCCTACGGCGGCCCTCCCTGGTGCAC
GGGTACCCAGTCCTGGCCTGGCACAGTGCCCGTGCTGGTGCCAAGCGTGGACAGAGGAACCTCGAGCCCTTTGC
TCCTCCCTCAGAATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTTC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG
GAGGTCTCGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTG
GTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGTGGAAGTCTGCAA
GCTTTCTTCCTGGTGGCAGATGACATCATGGATTCATCCCTTACCCGCCGGGGACAGATCTGCTGGTATCAGAAG
CCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCCTGCTGAAGCTCTAT
TGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCTGCAGAGTTCCTATCAGACTGAGATTGGGCAG
ACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTGAGATTCACTGAAAAGAGGTACAAATCTATT
GTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGC
GAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTTCAGGATGATTACCTT
GACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTG
GTTTCAGTGTCTGCAACGGGGCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAG
AAAGTGGCCCCGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTCTTGCAATATGAGGAAGACAGT
TACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCAGCCGTCTTTCTGGGGCTTGCGCGC
AAAATCTACAAGCGGAGAAAGTGACCTAGAGATTGCAAGGGCGGGAGAGGAGGCTCTCAATAAATAATCGTGTA
ACCTT

3663/5332
FIGURE 3195

TCCCAGGGTCCCGGGTTGGGGGGGTGGAGCAGCATTTTCGTCGCCGCGGGGGTGCCGGGACTCCGGCCGAGTGTC
GCCGCCATCACGGACTTCCTGTGGGACAAGCGCACGGGCCCTGCCGCCAGAACGATGCCGCATCCTCGAAGGTAC
CACTCCTCAGAGCGAGGCAGCCGGGGGAGTTACCGTGAACACTATCGGAGCCGAAAGCATAAGCGACGAAGAAGT
CGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTTCGGCGAGAGGACAGCTACCATGTCCGTTCTCGAAGC
AGTTATGATGATCGTTTCGTCCGACCGGAGGGGTGTATGACCGGCATACCTGTGGCAGCTACAGACGCAACGATTAT
AGCCGGGATCGGGGAGATGCCTACTATGACACAGACTATCGGCATTTCCTATGAATATCAGCGGGAGAACAGCAGT
TACCGCAGCCAGCGCAGCAGCCGGAGGAAGCACAGACGGCGGAGGAGGCGCAGCCGGACATTTAGCCGCTCATCT
TCGCAGCACAGCAGCCGGAGAGCCAAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGAC
TGGCTACAAGAGCGATATGAAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGAC
CATCGCAGGGGTGGGGCTCGAGTTGCCCTGAAGATCATTAGAATGTGGAGAAGTACAAGGAAGCAGCTCGACTT
GAGATCAACGTGCTAGAGAAAATCAATGAGAAAAGACCCTGACAACAAGAACCCTCTGTGTCCAGATGTTTGACTGG
TTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCGGGCCCTTAGCACCTTCGATTTCTCAAAGACAAC
AACTACCTGCCCTACCCCATCCACCAGTGCGCCACATGGCCTTCAGCTGTGCCAGGCTGTCAAGTTCTCCAT
GATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATGAGCTCACCTAC
AACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCGGGTGGTAGACTTTGGCAGTGCCACC
TTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTACCGAGCACCAGAAGTCATCCTTGAGTTGGGC
TGGTCACAGCCTTGATGTGTGGAGTATAGGCTGCATCATCTTTGAATACTATGTGGGATTACCCCTCTCCAG
ACCCATGACAACAGAGAGCATCTAGCCATGATGGAAGGATCTTGGGTCCTATCCCTTCCCGGATGATCCGAAAG
ACAAGAAAGCAGAAATATTTTTACCGGGGTCGCTGGATTGGGATGAGAACACATCAGCTGGGCGCTATGTTGCT
GAGAACTGCAAACCGCTGCGGCGGTATCTGACCTCAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAA
AGCATGCTAGAGTATGAACCAGCTAAGCGGCTGACCTTGGGTGAAGCCCTTCAGCATCCTTTCTTCGCCCGCCTT
CGGGCTGAGCCGCCCAACAAGTTGTGGGACTCCAGTCGGGATATCAGTCGGTGAACGATCAGGCCCTGGGCCCCC
TGCATCTTTTATAGCAGTGGGTGTCCAGTCCAGGACACTGGTGCTTTTTTATACAAGAGAACGAGCCAGAGTTCA
CTCCTTCCTCCTGGCTCTCTATATACCTGTGAATATGTGAAATAGTGAAATATGAAAGAACTTGTACCTATCAC
TTCAACCCCTGCCTTGATACATAATACTATTCCATCCACACAGTTTCCACCCTCACCTGCCCCCTCATACGGAGTT
GGATGGGGGCCGAGTGAGGTAACCAGGTGGCATCTACCCCATGTTTTATAAGGAATTTGTACAGTCTTTGTGAA
ATAAAATAACGTGCTTCATTGA

3664/5332
FIGURE 3196

GGTAGTTGGTTGTGTTGGGCACATGGGTTAGAGGTATCACGTGGGGGCACTTTTCGTCTTAGCTTTTGGACAAGACGCGAGCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGGGCGGAAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGGAGGGCAAGAGGCGCGGAGGCCGCGAGTTGCAAACATGCTCAGAGCAGAGACGGCGGAAACCCGTTGCGCCGAGCCAGCGAGCTTGACAACCCCTTTTCAGGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTACAACCTTTTGTAGACCCGGGAGCCACCACCAGCCTATGAGCTCCAGCCCCCTGCCCATTCCTCCACCCTCAGTCCCTCCTTGACGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCCTCAGCTGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAGGGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAAATTGGCCCCCTCTACCTTCTTTTGTCCAGTTTCAGCCCTGCTTTTTTCCAGGACATCTCCATGGAGATCCCCCAAGAATTTCAGAAGACTGTATCCACCATGTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACTTCTCTCGCTGCCCTGGCCAGCTTCTGTGTGGAAACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCTCTCTTTTCACTCCCTGCTCCTTTGTCTGCTGGTACC GCCCATGTATAAGGCTTTCCGGAGTGACAGTTCAATTCTTCGTTTTCTTCTTCATTTTCTTCGTCCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCCAGGTTGGGGATTCACTGGCTGGATCTCTGCTCTGGTGGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCGCCCTGCTCTTCACTGGCATTGCTGTGCTAGGAATTGTCTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAAGGCCAGCAAGAATTTGCTGCTGGTGTCTTCTCCAACCTCGCGGTGCGAACCGCAGCTGCCAATGCACCGCTGGGGCTGCTGAATAATGCTTCCGGGACTTGGAGAGACTTGGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCCAATCCTATGGCCATGACTGCTGAACCTGACAGGCGTGTGGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCACCTCTCACACGCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGTGGAACTGGAAGTGC

3665/5332
FIGURE 3197

CCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGTGGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGC
GCCGCGGCTCTCCCCACCAGGCGGCCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCGCCTCTAGAG
TCACCCACGCGGACCCCTCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCTCCCCACCCCTCC
CTGGGCTCCAGGCGCGCGCCCCCTCTCACTCCTGGACCGGCCCTTCTCGGTGCCCTCTTCCCTAGGGAGATGC
GATGAGCCGGTGCCCCCGCGTCTCATCGTCGCCCCGGGCACGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAG
CACTCCGCGGTCCCTCCGTGACGCCCCCTCGCTTGGCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGG
ACCCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGGTGGAGAGGAGAAAGGACGGGGCCTTGGGCGCCTCTGAGAT
GCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCTCGCCTAGTGA
CCAGCCGCTCGCTGACCAGCCGGCCAGCACCAGGGGCCCTACCCACCTCCGCTCCACCGACCTGGCTGCAGG
CCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCG
TCACCACCACCGAGAGCATCAAGAGGTCTGCCCGTCTTGGGCTGGGTCTCGCTGGCGTTCTCCGGGGTGGTTG
GCATTGTGCTCTGGAAGCGGCCATTCACTCTAGTGATCTCCTTCTTCTCCTTGTCTTTCGGTGTCTGTGTATGC
TTAGCATGGCTGGCTCTGTTCTCTCTGTAAGAATGCTCAACTGGCCCGAGACTTCCAACAGTGCTCTCTGGAAG
GAAAGGTCTGTGTGTGCTGTCCCTCTGTTCCCTCTCTCCGGCCCTGTCCAGAGTCGGGGCAGGAAGTGAAGTTG
CCCCTAACTCCACCTGTGATGAAGCCCGAGGGGCCCTCAAGAACCTGCTCTTACGCGTCTGTGGGCTCACCATT
GTGCGCTATAATCTGTACACTCTGCTATTGTCTGCTGCATCCAATCTTCTCCCTGGACCTCGTGCATACGC
AGCTGGCCCCCTGAGCGGTCACTCTCAGGCCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCCAGCCCTCTCC
TACACACCATGCTGGACCTGGAGGAATTTGTCCCGCCTGTGCCCCCACCAGCCCTACTATCCCCCAGAGTATACCT
GCAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGCTCCATGGACAGCCAGTGCCCTTGTACCCTACCG
ATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTCTTTGACCCCTCAGCTTC
ACGATGGCTCGTGCATCTGTGAACGAGTGGCCTCCATTGTAGACGTGTCCATGGACAGCGGGTCTCTGGTGTGT
CAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTCCGAGGACTCGTGCTGTGGAGCTGCAGGGCTCCGTGC
GCTCCGTGGACTACGTTCTCTTTCGCTCCATCCAGCGCAGCCGTGCCGGCTACTGCCTCAGCCTGGACTGTGGCC
TGCGGGGCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCACGGGCTGCCCGCTCCTATTCTGCTCTGCCC
CTGAAGCTCCACCCCACTGGGTGCCCCACAGCTGCCCGCAGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGG
TGGGACCTGCTTCCCCGAGCTGAGGCGGCGGGTCCCCCGGGGAGGGGGCCGCCAGCCGCAGCCCCGCCACCC
GAGCCCCGACTCGTCGCTTCAGCGATAGCTCAGGTTCCCTCACCCACCGGGGCACCGGCCTCCTCATCCGGCAT
CCCCACCACCGCTGCTGCTGCCACGGTCCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCA
GGGACCTTTATACAAAGTGCTTGAGGAAGAAGCTGCTTCTGTTTCTCTGTCAGATACAGGGCTCTGCTCTGAAG
CCTGCTCTTCCGCTAGCCCGCTGCCCTTCCCCAAGTTGCTACGTGCCCGGTGAGCCGAGAAACGGCGCCCTG
TGCCACCTTCAAAAAGTTCCCTGCCCTCGGGCCCTGCACCTGCCACTCCCTGGGGGACCTAAAGGGCAGCT
GGCCAGGTGCGGGCCTGGTCACTCGTTTCTTCCAGATATCCAGGAAAGCCCCAGACCCAGTGGGACTGGAGCTC
ATGGACATAAGCAGGTGCCCCGGAGCCTGTGGGGCCGGCTGGCCGAGAGAGCCTCCACCTTCGCAGCTGCGGAG
ATCTGAGCTCTAGCTCTTCCCTGCGGCTCTCCTGTCTGGCCGAGGCTGGAGCGTGGTACCCGCCCCCAGGCC
TCAGCCTCAACGGGGCAGCCGGGAGACTGGGCTCTGACCTAGGCTTCTTGTACACTGAACACATCCAGCCACA
GGCACCAGCTGGTTGGGACCAGCAGCCCCCAGCATCCTCTTGCACTGGCTGGCACAAAAAGAAACCTGCTGTATA
CCCCCAAAGTGCTCCCTTTCCCTCCTACCTCTGGGGTCTCTTGCTGCTTGCCCTCTGCTGCTCTGGACTGGGAGAG
CTTCTGTCTGTGCTGCATGGGTATTTAGACTGTGGGGGAGATGCCCTTCTTATAGCACTGGAGGAGGAAAACA
AATTCTTGTCCCCCTCAGAATGAGAGTGGCTCTTTCTGATTGCAAGGGCACTATGGTCAGGGCAAAGGCATGGC
CCAGGTGTTTAAGTACAGGGTGACGTGTGCCTATGCAATGGGGTGGTAAGGCAGGCACGAAGAGTCCAAAAATC
TAGGTGGCCTCTCAGCTCTGCCACCTCTAGCTGCATGACCTGGGCAAGCTATGTAACCCCAATTGCTGCTCCA
TTAAAGACTGTGAAGGTAGAATGTTGTAAAGCTCTTAACAGTATGTAAGCCTCAATAAATTTAGTTTCCCC
TT

3666/5332
FIGURE 3198

CAGTGCCCCACAGCTCTTCAGGCCCTTCCTGTGCCTGGCTGCCCTCCCACCCTACCCTTTTGTACCTCTGAGAAG
GCTCTGGCCCCACGCACAGCCCCACTGTACCAGGGCCAGTATCTGTCTCAGGGACCTCCTATCCAGAGCCTGAG
CCAGCCCCAGCCCCAGCCCCAGCTCCAGCTGCTCCATCTGAACCTGTATCTTCTTCCAAGCCACCCATTACCCTC
TTGGAGTCAGACTCACGCATCTCCAAAGAAGAAGCTTTTGAGAGCCCAGGCGCTGAGAGAGCAGGGTCAGACACTC
CCGAGCCTCTCGGTACAGCTGTAGGGGCGACACAGGTAGGCTTGCAGCTGCGGGAACAGTGCCACCTCCGCACCT
AAGCACTCCCATTCCTGGCCAGCATCCTTGGGGCTCATCTCATACAATAGCCCCGGTCTCAGAGCTACCTCCTT
CTCCAGCTCTTCTCGTCTCTCAGGCCTGTGCTCCCCAGTCAGCAGCTGTAGCCGTTCCATGTACTGCCGCTGCAT
GCGGCCAGGCAGGAAGAAGTTGAGGGGAAAGGGCATAGCCTCTGCATACCCTTCCGGGTCACTTCTACGTAGTT
CTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGACAC
TGTCTGATTCAAGGTGGGCTTCTGACCTCCATGCTCTCCTGAGTCTCTGTGTGGGTCTGTGTGTTCCCGTCCCCT
CCCCGGCTGGCCATGGATGCTGGGAGGTCTGGGCACACTCACCAGCACCGGGATCAACTTCTCCTCCAGGAGAGA
CATGAAGGCCAGGGTGTCTGCCCTTGCTGAGCTGACAGATCATAATCAGCATTGTACTTCTGTGGAGGAAATAT
CCATGGCGTGGACGCTGGGGAGCTGCAAGGGCACTTCACAGGGAGGAAGGAGTCTGTCTGGTACCCCCCTCAC
TGGCCTCTGAGTGCAGTGGAGGTACAGCAAGGAAGCTTTTCTGCGCAAGGCCCTTGCCTGGGCCAGCCAGTAG
CCTGTTGCTGTTGGCAAAAAGCCTGGGCCTTGGAGCCGCTGGCCGTCAGGTCTGGGCCATTGAGAAGAAGG
AAGAAAGGTTGGGCCGCAAACTAGGAGCAGCTCCCAGAATTTCCATGGAAAGCTGGAACAATGCCTGCTGACAGC
AACTTTCTAACAGTAAGTTTCCCGACCCAGACACCACAAAGCTAGCACAAACGGAGCTCAGATGCAGGCTAGGACT
CGGTCCATGCCTCAGGAACCAGGGAAAGCCATCCTCACACTCCCTGGATCCAGGGAACCCACGCCAGGGCCCCC
CAGCTTGTTCCTCAGTGCCAGCTCTTGGCTATTTCTTCACTTCATTCCATCGCCCAGACACCATTACCACAT
ACACATTCCATCCATACCCCCAGGTCTCAGCCTGCCCTACCTTCCAGGCTCCAGTCCCTGTTTCTCAGCATCCC
CCACCACATCCTGAGTAAGCTTTGTCCCCAGATAACCTCTTCAGCATGATCCTTAAATCTCCCTAAGCCTCAGTT
TCTCCCTGTGGAATGGGGTAAGAATCTCTTTCTGTAATGCCCTGTGTTAGGAAATAATTTAGAATACTTCG
GAAACAAAAAGCTCTGTTACACCTAAGCAATCAGGGCAGTGGCCCTGGCCTTGCCAGGAACCTAGGCTTTTATC
TGGATCCTCTTTCCAGGCCTCTCAATTAATTTCCCAAGGTCTTAACTTTGGGAAATTAGAAATTAGGAAGAGTG
TCCCCTTCTGACACTGTGTTCCCTCTTGGAACCTGACCGTCAATGCTAGAAGAACCCTTGGAACCATGCTGGC
CCAGCCCTCTAGTTTTACAAATAAGGGAGTGCACAGCCCTGAGAGGTTACATGGCCTGCCAAGATCACGCAGTC
AATGGCAGAGTAAAGAGCATAGCCTAGGCCTCCCCACTCCTCTAGTAATGCTCTTTCATCTTCTCCAACCTGGCT
CTAAGCCTTGTCCATCCTGAGCCCCATATCTAGCCCAACCTAGTCCCTGAAAACAAGAAGTGGCCCTTAGAAATC
TCTCTCCAGTCCCCTATCAGAGGCCAACTGCTGTCTTCCAGTCTCCTTCAGCCTGTGCTCCTCTCCCTCCCTGA
CTGACAGGCAGAAGGTACCGTGCTCTGGATATCCCCACAGTGCCCTGAGCTGCATCTCTTGCCGACTGCTTTAA
TACATCACAGTGACATTGTGTGTGTCTCTGCCACCAGACTATTGCTCCTTGATGCTCTGGGTACCTGCATCTAG
CATGGCATATATCTAGTGCTCAATAAATGTGTATTGTACGG

3667/5332
FIGURE 3199

AAGCCCCAGCCCGGCCTCCGCTCCGGCCGCGCCACCGCCCTGTTTTGTTTCCATGGCGACAGGCGGCGCAGGG
CCCGCTCCAAACATAACGCGCTGTGGAACATGCTGCTCGGGGGACCCCCCGCAGTCCCCGCTCGGGGACGAG
CCCCAAGGGGCCCTGGAGCAGTACAGGCCACGTGCAGTTTGGCAAGAGCCCCAGACCTGGCCCAGGCGCACAAG
ACCCCGCTCTCCAGAGCCTGCCGCGCCTTCAAGGGTTCGGGGCTCCACTTGGACGAGGCGCCGTGACTCTCCGAG
GCGCGCCGGGCCGACAGCGCTGTCCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCGCCCTCCCCGAGGC
CCGCGGCCAGTCCCCCGCAGTTCAGCTGCCAGTCGGGCCAGAAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGG
CCCCCTGACCGCAACGATCGGAGGGGCGGTGGCGGGGGCGGGCCCAGGCAGGGGAGGGCAGAAGCACACAAGGA
AGTGTTCGGGACAGAGGGTGGGCAAGATGGCGGCGCCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGGGGCT
GCCGTCAGTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTGCTCCACTGAAGGTACACAA
GATCAGCAACCCCTGGCAGAGCCCTTCAGGAACCTGCGCTGCCCTTCGGACCAGTCATGGAGAGGTCATCTCAGT
TCCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTGGATAGACACCAAGAAGTACGTGGAAGT
GACCCGGAAGTGGTATGCAGAGGCTATGCCCTTTCCCTCAACTTCTTCCCTGCCTGGCCGCATGCAGCGGCAGTA
CATGGAACGGCTACAGCTGCTGACTGGGGAGCACAGGCCTGAGGACGAGGAAGAGCTGGAGAAGGAGCTGTACCG
AGAGGCTCGGGAGTGTCTGACCTGCTCTCTCAGCGCCTGGGCTCTCAAAAGTTCTTCTTTGGAGATGCCCTGC
CTCCTTGGACGCCTTCGTCTTCAGCTACTTGGCCCTGCTGCTGCAGGCAAAGCTGCCAGTGGGAAGCTGCAGGT
CCACCTGCGTGGGCTGCACAACCTCTGTGCCTATTGTACCCACATTCTCAGTCTCTACTTCCCCTGGGATGGAGC
TGAGGTACCACCGCAACGCCAGACACCAGCAGGCCAGAGACTGAGTGAGTGAGCCATACCGGCGCCGGAACAG
ATCCTATCTGTGCTGGCAGTGACTGGCAGCCATGGTGGGCTACGCCTTGCTCAGCGGCATTGTCTCCATCCAGCG
GGCAACGCCTGCTCGTGGCCCCAGGCACCCGGACCCTGGGCATGGCTGAGGAGGATGAAGAGGAATGATTGTCC
TCACGCTCCCAAGACTGGTTTTTCTACTCTCATGCATTCCAGAGGCCCCCGTGCCTCCTCGTTGTTGGTACAGCC
GGACACGGGGTGTGCCACCCAGAATAAAGCCACTCACACTG

3668/5332
FIGURE 3200

ATGGAGACGCAGGAACCTTCGGGGGGCCCTGGCTCTTCTCCTCCTTTGCTTTTTTACATCTGCCAGTCAGGATCTG
CAGGTAATTGACCTGCTGACTGTGGGCGAGTCTCGGCAGATGGTAGCTGTGGCAGAGAAGATCCGGACAGCCTTG
CTCACTGCTGGGGACATCTACCTCTTATCCACCTTCCGCCTGCCCCCAAGCAGGGTGGTGTCTCTTTGGCCTC
TATTCTCGCCAAGACAACACTCGATGGCTGGAGGCCTCTGTGTAGGCAAGATCAACAAAGTACTGGTGGCATA
CAGCGGGAGGATGGCAAAGTCCACGCCGTGAACCTACAGCAAGCGGGCCTGGCTGATGGGCGCACACACAGTT
CTCCTGCGACTCCGAGGTCCCTCCAGACCCAGCCCTGCCCTACATCTCTACGTGGACTGCAAACCTGGGTGACCAA
CATGCAGGCCCTTCAGCACTGGCCCCCATTCCTCCAGCGGAGGTGATGGGCTGGAGATTAGGACTGGACAGAAG
GCGTATTTGAGGATGCAGGGCTTTGTGGAATCTATGAAAATTATTCTGGGTGGGTCCATGGCCCCGGTAGGAGCC
CTGAGTGAGTGTCCATTCCAAGGGGACGAGTCCATCCACAGTGCAGTGACCAATGCACTGCACTCCATTCTAGGG
GAGCAGACCAAGGCGCTGGTCACCCAACTACCCCTCTTCAACCAGATCCTGGTGGAGCTGCGGGATGATATACGA
GACCAGGTGAAGGAAATGTCCCTGATCCGAAACACCATTATGGAGTGTGAGGTGTGCGGCTTCCATGAGCAGCGT
TCCCAGTCAGCCCCAATCCCTGCTTCCGAGGTGTGGACTGCATGGAAGTGTACGAGTACCCAGGCTACCGCTGT
GGGCCCTGCCCCCTGGCCTGCAGGGCAACGGCACCCACTGCAGTGACATCAATGAGTGTGCTCAGCTGACCCC
TGTTTCCGGGCTCCAGCTGCATCAACACCATGCCCGGCTTCCACTGTGAGGCTGTCTCGAGGGTACAAGGGC
ACACAGGTGTCTGGTGTGGGCATTGACTATGCCCGGGCCAGCAAACAGGTCTGCAATGACATCGATGAATGCAAC
GATGGCAACAATGGTGGCTGTGACCCAACTCCATCTGCACCAACACTGTGGGCTCTTTCAAGTGTGGTCCCTGC
CGCCTGGGTTTCTGGGCAACCAGAGCCAGGGCTGCCTCCAGCCCGACCTGCCACAGCCCAGCCCACAGCCCC
TGCCACATCCATGCTCACTGTCTCTTTGAACGCAATGGTGCAGTGTCTGCCAGTGTAACTGGGCTGGGCTGGG
AATGGGAACGTGTGTGGGACTGACACAGACATCGATGGCTACCCAGACCAAGCACTGCCCTGCATGGACAACAAC
AAACTGCAAACAGGACAACCTGCCTTTTGACACCCAACTCTGGGCAGGAAGATGCTGATAATGATGGTGTGGG
GACCAGTGTGATGATGCTGATGGGATGGGATCAAGAATGTTGAGGACAACGCCGGCTGTTCCCAACAAA
GACCAGCAGAACTCAGATACAGATTCAATTTGGTGTGCTGTGACAATTGCCCAACGTTCCCAACATGACCAG
AAGGACACAGATGGCAATGGGGAAGGAGATGCCTGTGACAACGACGTGGATGGGGATGGCATCCCCAATGGATTG
GACAATTGCCCTAAAGTCCCCAACCCACTACAGACAGACAGGGATGAGGACGGGGTGGGAGATGCTTGCACAGC
TGCCCTGAAATGAGCAATCCTACCCAGACAGATGCAGACAGCGACCTGGTGGGGATGTCTGTGATACTAATGAA
GACAGCGATGGGGATGGGCATCAGGACACCAAGGACAACCTGCCACAGCTGCCAAATAGCTCCCAGCTGGACTCT
GATAACGATGGACTTGGAGATGAGTGTGATGGGGATGATGACAATGATGGCATCCCAGATTATGTGCCTCCTGGT
CCCGATAACTGCCGCTGGTACCCAATCCCAATCAGAAGGACTCAGATGGCAATGGCGTTGGTGTGATGTGTGAG
GATGACTTTGACAATGATGCTGTGGTTCGACCCCTGGATGTGTGCTGAAAGTGCAGAGGTAACGCTTACGGAT
TTTCGGGCTATCAGACCGTCGTCTGGATCCTGAGGGTGATGCTCAGATTGACCCAACTGGGTTGTGCTCAAC
CAGGGCATGGAATCGTTTCAAGCATGAACAGTGACCTGGCTTGGCAGTTGGATACACGGCCTTCAATGGTGTG
GACTTTGAAGGCACCTTCCATGTGAACACAGTGACTGATGATGACTACGCAGGCTTTCTCTTCAATTATCAAGAC
AGTGGCCGCTTCTACGTAGTCATGTGGAAGCAGACCGAGCAGACCTACTGGCAGGCTACACCCTTCCGGGCGGTT
GCCAGCCCGGGCTGCAGCTCAAGGCAGTGACATCAGTGTCTGGCCAGGTGAGCACCTCCGAAATGCCCTGTGG
CATACTGGCCACACCCCTGATCAGGTACGACTGCTGTGGACAGACCCACGAAATGTGGGCTGGCGGGACAAGACC
TCCTATCGCTGGCAGCTTCTGCACCGCCTCAAGTTGGCTACATTTCGGGTGAAGCTCTATGAGGGACCCAGCTT
GTGGCGGATTCTGGGGTGTATCATTGACACATCCATGCGAGGGGGCGTCTTGGTGTATTCTGCTTCTCCCAAGAA
AACATAATTTGGTCCAATCTCCAGTATCGATGCAATGACACAGTGCTGAGGACTTTGAGCCATTCCGGAGGCAG
CTGCTCCAGGAAGGGTGTGA

3669/5332
FIGURE 3201

CGCTCCACCTCTCAAGCAGCCAGCGCCTGCCTGAATCTGTTCTGCCCCCTCCCCACCCATTTACCACCACCATG

ACACCGGGCACCCAGTCTCCTTTCTTCTGCTGCTGCTCCTCACAGTGCTTACAGTTGTTACAGGTTCTGGTCAT
GCAAGCTCTACCCAGGTGGAGAAAAGGAGACTTCGGCTACCCAGAGAAGTTCAGTGCCCAGCTCTACTGAGAAG
AATGCTGTGAGTATGACCAGCAGCGTACTCTCCAGCCACAGCCCCGGTTCAGGCTCCTCCACCACTCAGGGACAG
GATGTCACTCTGGCCCCGGCCACGGAACCAGCTTCAGGTTACAGTGCCACCTGGGGACAGGATGTCACCTCGGTG
CCAGTCACCAGGCCAGCCCTGGGCTCCACCACCCCCCAGCCACGGTGTACCTCGGCCCCGGACACCAGGCCG
GCCCGGGGCTCCACCGCCCCCAGCCACGGTGTACCTCGGCCCCGGACACCAGGCCGGCCCCGGGCTCCACC
GCCCCCAGCCCATGGTGTACCTCGGCCCCGGACAACAGGCCCGCCTTGGGCTCCACCGCCCCCTCCAGTCCAC
AATGTCACCTCGGCCTCAGGCTCTGCATCAGGCTCAGCTTCTACTCTGGTGCACAACGGCACCTCTGCCAGGGCT
ACCACAACCCAGCCAGCAAGAGCACTCCATTCTCAATTCCAGCCACCCTCTGATACTCCTACCACCCTTGCC
AGCCATAGCACCAAGACTGATGCCAGTAGCACTCACCATAGCACGGTACCTCCTCTCACCTCCTCCAATCACAGC
ACTTCTCCCCAGTTGTCTACTGGGGTCTCTTTCTTTTCTGTCTTTTACATTTCAAACCTCCAGTTTAATTCC
TCTCTGGAAGATCCCAGCACCGACTACTACCAAGAGCTGCAGAGAGACATTTCTGAAATGTTTTGTCAGATTTAT
AAACAAGGGGGTTTTCTGGGCTCTCCAATATTAAGTTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCC
TTCCGAGAAGGTACCATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAAACGGAAGCAGCCTCTCGA
TATAACCTGACGATCTCAGACGTCAGCGTGAGTGATGTGCCATTTCTTTCTCTGCCCAGTCTGGGGCTGGGGTG
CCAGGCTGGGGCATCGCGCTGCTGGTGTGGTCTGTGTTCTGGTTGCGCTGGCCATTGTCTATCTCATTGCCTTG
GCTGTCTGTCAGTGCCGCCGAAAGAACTACGGGCAGCTGGACATCTTTCCAGCCGGGATACCTACCATCCTATG
AGCGAGTACCCACCTACCACACCCATGGGCGCTATGTGCCCCCTAGCAGTACCGATCGTAGCCCCCTATGAGAAG
GTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCTTACACAAACCCAGCAGTGGCAGCCACTTCTGCCAACTTGTAG

GGGCACGTCGCCCCGCTGAGCTGAGTGGCCAGCCAGTGCCATTCCACTCCACTCAGGTTCTTCAGGGCCAGAGCCC
CTGCACCCTGTTTGGGCTGGTGGAGTTTCAGGTGGGCTGCTCACAGCCTCCTTCAGAGGCCCCACCAATT
TCTCGGACACTTCTCAGTGTGTGGAAGCTCATGTGGGCCCTGAGGGCTCATGCCTGGGAAGTGTGTGGTGGG
GCTCCCAGGAGGACTGGCCAGAGAGCCCTGAGATAGCGGGATCCTGAACTGGACTGAATAAAACGTGGTCTCC
CACTG

3670/5332
FIGURE 3202

GCATGCGCATAGCTAACCGCACCCGGTTCAGCTCGCCTTTCTTGGCCAGAGGCGCCGGTTGGACTCACGGGCGGG
GCATGATGGTGGTGGGTACGGGCACCTCGCTGGCGCTCTCCTCCCTCCTGTCCCTGCTGCTCTTTGCTGGGATGC
AGATGTACAGCCGTCAGCTGGCCTCCACCGAGTGGCTCACCATCCAGGGCGGCCTGCTTGGTTCGGGTCTCTTCG
TGTTCTCGCTCACTGCCTTCAATAATCTGGAGAATCTTGTCTTTGGCAAAGGATTCCAAGCAAAGATCTTCCCTG
AGATTCTCCTGTGCCTCCTGTTGGCTCTCTTTGCATCTGGCCTCATCCACCGAGTCTGTGTCACCACCTGGTATC
TTCATCTTCTCCATGGTTGGTCTGTACTACATCAACAAGATCTCCTCCACCCTGTACCAGGCAGCAGCTCCAGTC
CTCACACCAGCCAAGGTCACAGGCAAGAGCAAGAAGAGAACTGACCCTGAATGTTCAATAAAGTTGATTCTTTG
T

3671/5332
FIGURE 3203

GTAGGTCCCGGCAACCGCAGGCTCGCGGCGGGCGCTGGGCGCGGGATCCGACTCCAGTCGTAATCGAGGCGGGCG
GCTTTCTGGACTCGCTCATTACGGAGTCATGCACATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGC
CCTTTCTCACCACGGAAGTCAACAACCTGGGCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATCG
TCGTCAACACAGTGGGTGCTGCGCTTCAGACCCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGAAGCGTG
TTGTGCTCCTACAGACTGCAACCTGCTAGGGGTCCTTCTCCTGGGTTATGGCTACTTTTGGCTCCTGGTACCCA
ACCCTGAGGCCCCGGCTTCAGCAGTTGGGCTCTTCTGCAGTGTCTTCACCATCAGCATGTACCTCTCACCCTGG
CTGACTTGGCTAAGGTGATTCAAATAAATCAACCAATGTCTCTCCTACCCACTCACCATTGCTACCCTTCTCA
CCTCTGCCTCCTGGTGCCCTCTATGGGTTTCGACTCAGAGATCCCTATATCATGGTGTCCAACTTCCAGGAATCG
TCACCAGCTTTATCCGCTTCTGGCTTTTCTGGAAGTACCCCCAGGAGCAAGACAGGAACCTACTGGCTCCTGCAAA
CCTGAGGCTGCTCATCTGACCACTGGGCACCTTAGTGCCAACCTGAACCAAAGAGACCTCCTTGTTTCAGCTGGG
CCTGCTGTCCAGCTTCCCAGGTGCAGTGGGTTGTGGGAACAAGAGATGACTTTGAGGATAAAAGGACCAAAGAAA
AAGCTTTACTTAGATGATTGATTGGGGCCTAGGAGATGAAATCACTTTTATTTTATAGAGATTTTTTTTTTAA
TTTTGGAGGTTGGGGTGCAATCTTTAGAATATGCCTTAAAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCAAGGTGGGCGGATCGCCTGAGGTGAGGAGTTCAAGACCAACCTGACTAACATGGTGAAACC
CCATCTCTACTAAAAATACAAAATTAGCCAGGCATGATGGCACATGCCTGTAATCCCAGATACTTGGGAGGCTGA
GGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCGTGCCATTGTGATATGAATATGC
CTTATATGCTGATATGAATATGCCTTAAATAAAGTGTTCCCCACCCCTG

3672/5332
FIGURE 3204

CCCAGGTTCCGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGTGGACATCATCTGTCCGCACTAT
GAAGATCACTCTGTGGCAGACGCTGCCATGGAGCAGTACATACTGTACCTGGTGGAGCATGAGGAGTACCAGCTG
TGCCAGCCCCAGTCCAAGGACCAAGTCCGCTGGCAGTGAACCGGCCAGTGCCAAGCATGGCCCGGAGAAGCTG
TCTGAGAAGTTCAGCGCTTCACACCTTTCACCCTGGGCAAGGAGTTCAAAGAAGGACACAGCTACTACTACATC
TCCAAACCCATCCACCAGCATGAAGACCGCTGCTTGAGGTTGAAGGTGACTGTCAGTGGCAAATCACTCACAGT
CCTCAGGCCCATGACAATCCACAGGAGAAGAGACTTGCAGCAGATGACCCAGAGGTGCGGGTTCTACATAGCATC
GGTCACAGTGCTGCCCCACGCCTCTTCCCACTTGCCTGGACTGTGCTGCTCCTTCCACTTCTGCTGCTGCAAACC
CCGTGAAGGTGTATGCCACACCTGGCCTTAAAGAGGGACAGGCTGAAGAGAGGGACAGGCACTCCAAACCTGTCT
TGGGGCCACTTTCAGAGCCCCCAGCCCTGGGAACCACTCCCAACACAGGCATAAGCTATCACCTAGCAGCCTCAA
AACGGGTCAGTATTAAGGTTTTCAACCGGAAGGAGGCCAACCAGCCGACAGTGCCATCCCCA¹CCTTCACCTCGG
AGGGATGGAGAAAGAAGTGGAGACAGTCCTTTCACCATTCTGCCTTTAAGCCAAAGAAACAAGCTGTGCAGG
CATGGTCCCTTAAGGCACAGTGGGAGCTGAGCTGGAAGGGGCCACGTGGATGGGCAAAGCTTGTCAAAGATGCCC
CCTCCAGGAGAGAGCCAGGATGCCCAGATGAACTGACTGAAGGAAAAGCAAGAAACAGTTTCTTGCTTGAAGCC
AGGTACAGGAGAGGCAGCATGCTTGGGCTGACCCAGCATCTCCAGCAAGACCTCATCTGTGGAGCTGCCACAGA
GAAGTTTGTAGCCAGGTACTGCATTCTCTCCCATCCTGGGGCAGCACTCCCCAGAGCTGTGCCAGCAGGGGGGCT
GTGCCAACCTGTTCTTAGAGTGTAGCTGTAAAGGGCAGTGCCCATGTGTACATTCTGCCTAGAGTGTAGCCTAAAG
GGCAGGGGCCACGTGTATAGTATCTGTATATAAGTTGCTGTGTGTCTGTCTGATTCTTACAACCTGGAGTTTTTT
TATACAATGTTCTTTGTCTCAAAATAAAGCAATGTGTTTTTTTCGG

3673/5332
FIGURE 3205

[illegible]

3674/5332
FIGURE 3206A

CGCCGGCCGAGGAGGAGGGGTGGGGGTAGCGGCGGCGCCCGCGGCCCGGAGCGGGGGTTGGGGGAGTAGAGAAAG
CGGGGCGCGCGGAGGAACGCTGGGTCCCCGCGCGCCGCGGGAGCTGGGAGGACCGAGCCGGCCGAGCGAGCAGCGC
GGCAGCACAGTCCCCGCGTGGCGCAGCGCGCGGGGACGCGGGGACCGCCCGGATCTCCTTCCACTGCGCCCCGC
GCTCTGCGGTCTCTCGGCCGCTCTTCTTCTTCACTACTGCCCCGGGCGGGAGCGGCGCCCAAGTCGGGTGCGCC
ATGTC TGGGGCCGGGTAGCCCCGCCGCCCGCGGCCCGCAGCTCGCCCTCCGAGCCACCCGCCAGCGGGCCGGC
CGGCCGGGAAGCGCGGGACAGCAGATGCAGTGAGTGAGGGGGGGGCCATGGCGGAGGAGCGGCCCCCCCGGCTG
GTGGATTACTTCGTGGTAGCTGGGCTTG CAGGGAACGGAGCACCCATCCCTGAGGAAACGTGGGTTCCTGAACCC
AGTGGGCCCCCTGCGCCCTCCCCGGCCAGCTGAGCCCATCACAGATGTGGCAGTCATCGCTAGGGCACTGGGCGAG
GAAGTGCCCCAGGGCTACACATGCATCCAGGCTTCTGCTGGGGGCCACCCCTTGGAACCTAGTGCTGGACTTCTG
GGTGGAACCTCAACCGTCATCTGCTACCGCAGGGGCCGTGACAAGCCCCCTCGTTGAGCTGGGGGTGTTGTAT
GAGGGGAAGGAACGTCCCAAGCCTGGCTTCCAAGTGCTTGACACGACACCCTACAGCCACTCAGCAAACCTGGCC
CCTCCAGGCCCCGGGCACCCCGCACCTACCTCACTTACCGGGCGGAGCAGAGGGGGCAGGGCTGCATGCCCTG
GGCATCACTGACCTCTGCTGGTGCTGCCAGTAAGGGCGAGGGCACTCTCATACTTACTGCCGGCTGCCCCGC
AACCTCAACCTTGGCATGTGGGGCCAGCAGTGACTGTGCTATAAGGTGGGCTGGCGAAGGCCAACACCTG
GTGTACGAGGCAGTTCTACGAGGCGTTCCCAAGGGCCAGGCTATCAGAGCGACAGGCACGGGCACTGGGCCTGCT
GAGCGCCGTGGAGCGGGGTGCGGCACTGGGGGGCAGAGCTGTGCGCAGCCGGCGTGCCATCGCTGTGCTGTCCCG
CTGGCCTGCCTTCCCTGCCTTCCGCGCCTTCTCACCTTCTTTTACCGCTACTCCGTCTCAGGCCCCCACCCT
ACCTTGGAAGCGCACATCTCCCACTTCACTTACAACGTTCCCTTCCCTTCCCCACAGAGACCCCGCATCTAGT
GCAGATGTCTCCCTATGACAACCTTGCTCCTCTGTGAGCCTGTATCCTCACCCCTGCCCCCTCAGTGGTGCCAGCTT
CCTGCAGCTGCTGCAGAGCCTGGGCCCTGAGCTGGCTATCACACTGCTGCTGGCTGTGCTCACAGAGCACAAGCT
GCTAGTCCACTCGCTGCGGCCAGACCTGCTCACCAGCGTCTGTGAGGCCCTCGTCTCGATGATCTTCCACTGCA
CTGGCAGTGCCCTACATTCTGTGCCCCGTGGTGCTGGCAGATGTGCTGAGTGCCCCAGTGCCCTTCAATTGT
GGGTATCCACTCCAGCTACTTTGATCTGCATGACCCGCTGCTGATGTATCTGTGTAGACCTTGATACCAACAC
GCTCTTCCAGACTGAGGAAAAGAAGCTCCTCTCCCTCGGACCCTGCCCCGAGACCCTACAAGGTTCTGTGTCGGC
CACACTGACAAACCTGTACCAGCAGCTGGACCAGACATACACTGGACCTGAGGAGGAAGCATCCCTGGAGTTCTT
ACTGACAGACTACGAGGCAGTGCTGTGGCCGAGGGCCCGGCTGGAGCGCGAAGTCCAAGGAGCCTTCCCTCGCTT
CATGGCCTGTCTGCTCAAGGGCTACCGGGTCTTCTGCGCCCACTACCCAGGCCCCCTCCGAGGGAGCTCGTGA
TGTTGACAACCTTTTCTTCTG CAGGGCTTCTTCAAATCCCGGGAACGCTCCAGCCACAACTTTACTCTCAGCT
GCTGCACACACAGATGTTCTACAGTTCACTTGAAGAGTGCTCTTTTGGCTCTGCTCGCCATGCTGCCCTTGAATT
CTTTGACTCTTGTGTTGAAAAGGTCCACCCAGAGCAGGAGCCTGAGCCGACACCCTTAGTGAGCTAGAGGA
GCTGT CAGGAAGTGAGCTCACTGTCTTTTACACCTCCCGAGGAGCCTGCCTTACCAGAGGGCAGTGAACTCCAC
TCCCCAGTACTGCTATGATGGATTCCAGAGCTACGGGCTGAGTTGTTTGAAGTCTCTTCAAGAGCAACCTGGGGC
CCTGCCTGTGCCAGGCCCTTCCCGTAGCGCCCCCAGCAGTCTGCTCCTCGCCGTACCAAACAGGAGATGAAAGT
TGCACAGCGGATGGCACAGAAGTCAGCAGCTGTGCTGAGCTGTGGGCCCCGTGCTGCTGGGGCACTGCTATGG
GCTGTGGTTCTGTGCTGCTGCTGCTATGTGCGGTGCGCACCCCTCCCGAGTG CAGGCACTGCACACAGCCTACCA
TGTGCTGCGCCAGATGGAGAGCGGCAAGGTGGTGCTCCTGATGAGGTGTGTTACCGGGTACTGATGCAGCTCTG
CTCACACTATGGGCAGCCTGTGCTGTCTGTGCGGGTCATGCTGGAGATGCGTCAGGCAGGCATTGTGCCAACAC
CATCACCTATGGCTACTACAATAAGGCTGTGTTGAAAGCAAGTGCCGTCTGGCACACCAGGTGGGCGTCTGCG
CTGGGCAAGCTCCGGAATGTTGTCTGGGGGCTGCTCAGTTCCGCCAGCCCTTGAGAGAACGGCAACAGCAGCA
GCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGGAGCAGGTGTCAGCACATCAAGAGGCAGGCAGCTCCCA
GGCAGAGCCCTATTTGGAGCGCCCTTCCCTACTCGCCCTCTT CAGCGCCAGACTACTTGGGCTGGGCGAAGTCT
GAGAGACCCAGCCTACCCCTTGGACGCCTGGTGAAGAGTGGTAGCCTGGGCAGTGCCGAGGGGCACAGCCCAC
TGTGGAGGCCGGTGTGGCCCATGATAGAGGCCCTTGGGGGTCTTGAACCCCGGGGATACCTGTGCCCTGGCA
CGATGGAAGTCTCTCAGACCTGAGCCTGACAGGGGAGGAGCCGCTCCCTGGAGGCAGCCAGGGGGCTCAGGCTC
AGCCCTGAGTGCCAGTCCACTGAGGCCCTGGAAGGGCTAAGTGGGCGGGGACCCAAGGCTGGTGGGCGACAGGA
TGAGGCAGGCACCCCGACGAGGGCTGGGTGCCCGCTCCAACAGCTGCTCACTCCTTCCCGCCACTCCCCTGC
CTCCCGCATTCCCCACCTGAGCTGCCTCTGACCTGCCACCCCGAGCCCGCAGCCCATGGACAGTCTTCT
GCACCCCGGGAGCGCCTGGATCCACTGCCTCCGAGAGCTCAGCCTCTCTGGGCAGTGAGTGGGACCTCTCAGA

3675/5332
FIGURE 3206B

ATCTTCTCTCAGCAACCTGAGTCTTCGCCGTTCCCTCAGAGCGCCTCAGTGACACCCCTGGATCCTTCCAGTCACC
TTCCCTGGAAATTCTGCTGTCCAGCTGCTCCCTGTGCCGTGCCTGTGATTGCTGGTGTATGATGAGGAAATCAT
GGCTGGCTGGGCACCTGATGACTCTAACCTCAACACAACCTGCCCTTCTGCGCCTGCCCTTTGTGCCCTGCT
CAGTGTCCAGACCCCTTGATTCGCCGCCAGTGTCCCCAGCCCCAAATCTGCTGGTGCCAGTGGCAGCAAAGATGC
TCCTGTCCCTGGTGGTCTGGCCCTGTGCTCAGTGACCGAAGGCTCTGCCCTTGCTCTGGATGAGCCCCAGCTCTG
CAACGGGCACATGGGGGGAGCCTCCCGGCCGGGTTGAGAGTGGGGCATGGGCATACCTGAGCCCCCTGGTGTGCG
TAAGGAGCTGGAGTCGCTGGTAGAGAACGAGGGCAGTGAGGTGCTGGCGTTGCCCTGAACCTGCCCTCTGCCACCC
CATCATCTTCTGGAACCTTTTGTGGTATTTCCAACGGCTACGCCTGCCAGTATTCTACCAGGCCTGGTGTGCG
CTCCTGTGATGGGCCTTCGCACTCCCAGGCCCATCTCCTTGGCTAACCCCTGATCCAGCCTCTGTTTCAGGTACG
GCTGCTGTGGGATGTACTGACCCCTGACCCCAATAGCTGCCACCTCTCTATGTGCTCTGGAGGGTCCACAGCCA
GATCCCCAGCGGGTGGTATGGCCAGGCCCTGTACCTGCATCCCTTAGTTTGGCACTGTTGGAGTCAGTGTGCG
CCATGTTGGACTCAATGAAGTGCACAAGGCTGTGGGGCTCCTGCTGGAACTCTAGGGCCCCACCCACTGGCCT
GCACCTGCAGAGGGGAATCTACCGTGAGATATTATTCCTGACAATGGCTGCTCTGGGCAAGGACCACGTGGACAT
AGTGGCCTTCGATAAGAAGTACAAGTCTGCCTTTAACAAGCTGGCCAGCAGCATGGGCAAGGAGGAGCTGAGGCA
CCGGCGGGCGCAGATGCCCACTCCCAAGGCCATTGACTGCCGAAAATGTTTTGGAGCACCTCCAGAATGCTAGAG
ACCTTAAGCTTCCCTCTCCAGCCTAGGGTGGGGAAGTGAGGAAGAAGGGATTCTAGAGTTAACTGCTTCCCTGT
TGCTTCATGGAGTTGGGAACAGGCTGGGAAGGATGCCAGTCAAAGGCTCCAAGCGAGGACAACAGGAAGAGGG
ATCCACTGTTACCAAAAGTCTGATTCCCCCATCACCAACCTACCCAGTTGTTCTGTGCTGATGTTGGGGGAGAT
CTGGGGGGAGTTGGTACAGCTCTGTTCTTCCCTTGTCTATACCGGGAACCTCCCTCCAGGGTACCCACAGATCT
GCATTGCCCTGGTCATTTTAGAAGTTTTTGTGTTTTAAAAACAACCTGGAAAGATGCAGAGCTACTGAGCCTTTGCC
CTGAATGGGAGGTAGGGATGTCTTCTCCACCAATAATGGTCCCTCTTCCCTGACGTTGCTGAAGGAGCCCAAGG
CTCTCCATGCCTTTCTACCTAAGTGTGTTGATTTTATTTTAAATTATTCTGGAGCCACAGCCCCCTTGCTT
ATGAGGTTCTTATGGAGAGTGAGAAAGGGAAGGGAATAGGGCACCATGGTCCGGTGGTTTGTAGTTCCTTCAA
GTCAGGCACTGGGAGCTAGAGGAGTCTCAAGCTCCCTTAGGAAGAACTGGTGCCCCCTCCAGTCCTAATTTTTC
TTGCTGCCCGCCTTGGGGAATGCCTCACCCACCCAGGTCTGACCTGTGCAATAAGGATTGTTCCCTGCGAAG
TTTTGTTGGATGTAAATATAGTAAAGCTGCTTCTGTCTTTTC

3676/5332
FIGURE 3207

GCCGGAAGCGCGCGGAGACCATGTAGTGAGACCCTCGCGAGGTCTGAGAGTCACTGGAGCTACCAGAAGCATCAT
GGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGCCTGTGGG
GCTGGAGGTGAAGTTGGGGGCCCTGGTGTGCTGCTGGTGTCTACCCCTCCTCTGCAGCCTGGTGCCCATCTGTGT
GCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGCCTAGTAAGCTGTTTCGC
GGGGGGCGTCTTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGGCTGCCATAGATGAGGCCCTGGC
AGCCTTGACGTGACGCTCCAGTTCCCACTGCAAGAGTTTCATCCTGGCCATGGGCTTCTTCTGGTCTGTGGTAT
GGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTACCTCTGGAGGAAACAAGGGCTCTGCTGGGAAC
AGTGAATGGTGGGCCGAGCATTGGCATGATGGGCCAGGGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCTC
AGCCTTGCGTGCCTGTGTACTGGTGTCTCCCTGGCCCTCCACTCCGTGTTGAGGGGGCTGGCGGTAGGGCTGCA
GCGAGACCGGGCTCGGGCCATGGAGCTGTGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTGAGCCTGTC
CCTGCGGCTGTTGAGAGCCACCTTAGGGCAGAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGCATGACACC
TCTAGGCATCGGGCTGGGTGAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCAGTCTGTGCTAGA
GGGCATGGCAGCTGGCACCTTTCTCTATATCACCTTTCTGGAATCCTGCCCCAGGAGCTGGCCAGTTCTGAGCA
AAGGATCCTCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATCTAGGG
GGCTTCAAGAGAGGGGAGGGGAGATTGATGATCAGGTGCCCCGTGTTCTCCCTTCCCTCCCCAGTTGTGGGGAA
TAGGAAGGAAAGGGGAAGGGAAATACTGAGGACCAAAAAGTTCTCTGGGAGCTAAAGATAGAGCCTTTGGGGCTA
TCTGACTAATGAGAGGGAAGTGGGCAGACAAGAGGCTGGCCCCAGTCCCAAGGAACAAGAGATGGTCAAGTCGCT
AGAGACATATCAGGGGACATTAGGATTGGGGAAAGACACTTGACTGCTAGAATCAGAGGTTGGACACTATACATAA
GGACAGGCTCACATGGGAGGCTGGAGGTGGGTACCCAGCTGCTGTGGAACGGGTATGGACAGGTCATAAACCTAG
AGTCAGTGTCTGTTGGTCCTAGCCCATTTTCAGCACCCCTGCCACTTGGAGTGGACCCCTCCTACTCTTCTTAGCG
CCTACCCCTACATCTATCTCCCTCCTCCATCTCCTAGGGGACTGGCGCCAAATGGTCTCTCCCTGCCAATTTTG
GTATCTTCTCTGGCCTCTCCAGTCTGCTTACTCCTCTATTTTTAAAGTGCCAAACAAATCCCCTTCTCTTTCT
CAAAGCACAGTAATGTGGCACTGAGCCCTACCCAGCACCTCAGTGAAGGGGGCCTGCTTGCTCTTTATTTTGGTC
CCGGATCCTGGGGTGGGGCAGAAATATTTTCTGGGCTGGGGTAGGAGGAAGGTTGTTGCAGCCATCTACTGCTGC
TGTACCCTAGGAATATGGGGACATGGACATGGTGTCCCATGCCCAGATGATAAACACTGAGCTGCCAAAACATTT
TTTTAAATACACCCGAGGAGCCCAAGGGGAAGGGCAATGCCTACCCCGAGCGTTATTTTTGGGGAGGGAGGGCT
GTGCATAGGGACATATTCTTAGAATCTATTTTATTAAGTACCTGTTTGGGACCTGTTACCCAAATAAAGAT
GTTTCTAG

3677/5332
FIGURE 3208

GCGAGGCGCCACCGACGCGGAAGACTATAAGCCCCAGCGGGCGACGACCGAACGCCCCCGGGAACACCGGGCCCC
GAGCTCGGTCCCGCGCCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGGCGGGAGCGGAGGTGAGCGGG
CGCTAGGGCCGCGAGCCCCCGCGGCCCTTCTCCAGCGCCCTGCGGACCCCGCAGAAGGCGCTCGCCTCCCTAG
CCCGCAAAAACATATCGATTTTCTCGCTGTGGCAACGGGGACGTCTGTAGATCCTCTGCTCCAATAGGCAAC
TCCGGCCTTCCCTGCCCCTGACCTGGAACCTCTGGGAGGGCTGCAGAGTAAGTGCCGCCTCTGCGCTCCGACGGAG
GCACGAGGCCTGTGGAGTAGGTCCCTCTGTTCCGACAGGTGCGACACTTGCGCGCTCCATGCTTGC GG GTGCCGGG
AGGCCTGGCCTCCCCCAGGGCCGCCACCTCTGCTGGTTGCTCTGTGCTTTCACCTTAAAGCTCTGCCAAGCAGAG
GCTCCCGTGCAGGAAGAGAAGCTGTGAGCAAGCACCTCAAATTTGCCATGCTGGCTGGTGGAAGAGTTTGTGGTA
GCAGAAGAGTGCTCTCCATGCTCTAATTTCCGGGCTAAAACCTACCCCTGAGTGTGGTCCCACAGGATATGTAGAG
AAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAAGCTGCCGCTCAGCTTTGATGGAACAACGCTTATTT
TGGAAGTTGGAAGGGGCTGTCGTGTGTGGCCCTGATCTTCGCTTGTCTGTGTCATCATTGTCAGCGACAATTG
GACAGAAAGGCTCTGGAAAAGGTCGGAAGCAAATCGAGTCCATATAGCTACATTCCACCCTTGTATCCTGGGTC
TTAGAGACCCCTATCTCAGACAGTGAAAGTGAAATGGACTGATTGCACTCTTGGTTCTTTGGAGCCTTGTGGTGG
AATCCCCTTTTCCCCTCTTCTCTTTCAGATCATTAAATGAGCAGAATAAAAAGAGTAAAATGGT

3678/5332
FIGURE 3209

GGGAGGAAAACTTCTTCCTGGCCTGGGCTCCGTGCCGCTCTGTTTGCCAACCGTCCAGTCCCGCCTACCAGTGCC
GGGCGCTCCCCACCCCTCCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGC
TGCTGATCGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTGCTTTGCAGAGGACAACCTTCAACAACACTT
ACATCTCCACCATCGGAATTGATTTCAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACCTACAAGTCT
GGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAG
TATACGACATCACGGATGAGAAATCTTTGAGAATATTCAGAACTGGATGAAAAGCATCAAGGAGAATGCCTCGG
CTGGGGTGGAGCGCCTCTTGCTGGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCG
ATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTCGAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTT
TTAGTTCCTGGCCCGGACATCTTGCTCAAGTCAGGAGGCCGAGATCAGGAAACGGCAACAAGCCTCCCAGTA
CTGACCTGAAAACCTTGTGACAAGAAGAACCAACAAGTGCTCCCTGGGCTTGAGGACCCTTTCTTGCCTCCCCAC
CCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGGAGGGT
CACATAGGTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAGCAGAAAGGAAAAAAGGAAGAGA
GAGGAAGGGAGAAGGGAGAGGAATGAATTGAGGAAGTGAAAGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAA
AGGAAGGAGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTTCAGGGCAAACATAAATGTAAATACACTGATTT
ATTCTGTTACTAGATCAGGTTTTAGGGTCCTGCAAAAGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTT
CTGTCACTTGTATGGTCTTTCTTGGTATTAAAGGCCACCATTTCACAAAAA

3679/5332
FIGURE 3210

CCTTTCGGCGGTGACGACCTACGCACACGAGAACATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAG
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCTACTTCATGGATGTGAAATGCCCAG
GATGCTATAAAATCACCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTTAAAAGCACTCTG
AGTCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

3680/5332
FIGURE 3211

ACTCAGGCAGCAGCCCCCTTCTTTCTTGCCCCAGTCTCCAGTTCTCCAGTGTTTACAGGTGAGCCTACCAACAGCC
ACTGCTCATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAGGAGAATGCTCTGGATCGGGC
AGAGCAAGCTGAAGCTGAGCAGAAGCAGGCAGAAGAAAGTAACAGCTGGAGGATGAGCTGGCAGCCATGCA
GAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCTGAAGCTTTGAAGGATGCCAGGAGAAGCTGGA
ACTGGCAGAGAAGAAGGCTGCTGATGCTGAGGCTGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGA
AGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGA
GAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGGAAATCCA
ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCAT
TGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCTAAGTGTTCTGAGCTGGAGGAGGAGCT
GAAGAATGTCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGATAAATATGA
GGAAGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGC
CAAGCTGGAAAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCCAGAACTGAAGTACAAGGCCATTAGCGA
GGAGCTGGACCACGCCCTCAATGACATGACCTCTATATTAATTATCACCGTTTCTGCTCTGTTCTGGATCTGCCCC
CTTTACTCCTCGGGGAACCCAAGGCCCACTCTCGCTCTGGATTCCATTTGGGTCAGCCTGGCTGGTCCCCAAGG
CATTAGGATGGGGGAGCAAAAAGCAACTTATGTATTTTCTTCCACCCCCACCCCAAATTAAATGTTAAGCTGCT
GGA

3681/5332
FIGURE 3212

GTCAGGGGGAAGCTGGAAGGCGTCGTTCTCCTTTCCCAGCTCTCCTGCCTGTCCGCCATGTTTTCAGGCCGGGTC
TGGCTTGGTCTTCCCCCGTAAGGAAATGGCCGGGGAGCTCCAGGGGACCCAGGCGCCGTCGCTTCGGCGGAGCCT
GGGCTGACCAGCCAGGACAGCGGGGTAAACCCGAACAATTCTGCGCGAGGTAGGGAGGCCATCGCGTCCGGCAGT
AACTGGCTCTCCGGGGTGAATGTCGTGCTGGTGATGGCCTACGGGAGCCTGGACTTGAAAGAGGAGATTGATATT
CGACTCTCCAGGGTTCAGGATATCAAGTATGAGCCCCAGCTCCTTGACAGATGATGATGCTAGACTACTACAACCTG
GAAACCCAGGGAAATCAAAGTTGCTACAACCTATCTGTATAGGATGAAAGCTCTGGATGCCATTTCGTACCTCTGAG
ATCCCATTTTCATTCTGAAGGCCGGCATCCCCGTTCTTAATGGGCAAGAATTTCCGCTCCTACCTGCTGGATCTG
CGAAACACTAGTAGCCTTTCAAGGGTGTACGCAAAGCACTCATTGATACCCTTTTGGATGGCTATGAAACAGCC
CGCTATGGGACAGGGGTCCTTGGCCAGAATGAGTACCTACGCTATCAGGAGGCCCTGAGTGAGCTGGCCACTGCG
GTTAAAGCACGAATTGGGAGCTCTCAGCGACATCACCAGTCAGCAGCCAAAGACCTAACTCAGTCCCCTGAGGTC
TCCCCAACAACCATCCAGGTGACATACCTCCCCCTCCAGTCAGAAGAGTAAACGTGCCAAGCACTTCCTTGAATTG
AAGAGCTTTAAGGATAACTATAACACATTGGAGAGTACTCTGTGACGGAGCTGAAGGACTCTTGCCGTAGATTAA
GCCAGTCAGTTGCAATGTGCAAGACAGGCTGCTTGCCGGGCCGCCCTCGGAACATCTGGCCAGCAGGCCAGAC
TGTATCCATCCAAGTTCCCGTTGTATCCAGAGTTCTTAGAGCTTGTGTCTAAAGGGTAATCCCCAACCTTCCT
TATGAGCATTTTTAGAACATTGGCTAAGACTATTTCCCCCAGTAGCGCTTTTTCTGGATTGCAATTCAGGTGT
TATTCTTAATGTTTCTGTCAAAGCTTCTTAAAAATCTTCACTTGGTTTCAGCCATAGTTCACCTTCCCTGTTCCA
GGTTTATTTAATTCCAAAGGTGAGAGTTGGAGTGAGATGTCTTCCATATCTATACCTTTGTGCACAGTTGAATGG
GAACTGTTTGGGTTTAGGGCATCTTAGAGTTGATTGATGGAAAAAGCAGACAGGAAGTGGTGGGAGGTCAAGTG
GGAAGTTGGTGAATGTGGAATAACTTACCTTTGTGCTCCACTTAAACCAGATGTGTTGCAGCTTTCTGACATGC
AAGGATCTACTTTAATCCACACTCTCATTATAAATGAATAAAAGGGAATGTTTGGCACCTGATATAATCTG
CCAGGCTATGTGACAGTAGGAAGGAATGGTTTCCCCTAACAAGCCCAATGCACTGGTCTGACTTTATAAATTATT
TAATAAAATGAATATTATCAAATAAAACGTATGAATCAGT

3682/5332
FIGURE 3213

CCCGACTAAGTGACTTAAACTCCCACCTACTCTCTGGAATAAGGAGTCAAAGCCCGGATAGGCGCAGTATTCTACC
TTGTAAATACTGTTATTTGTATATACTGTAAATGATGACATCGGTGGGCATAACCGAGCCCGGGGAACTGGGA
ACAACCTCAAACCAAACAGACACAGCACAAGCAGCGGCCACAGGCCACTGCAGAACAAATTAGACTTGCACA
GATGATTTTCGGACCATAATGATGCTGACTTTGAGGAGAAGGTGAAACAATTGATTGATATTACAGGCAAGAACCA
GGATGAATGTGTGATTGCTTTGCATGACTGCAATGGAGATGTCAACAGAGCTATCAATGTTCTTCTGGAAGGAAA
CCCAGACACGCATTCTGGGAGATGGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGA
ATCCAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACGTGGTGGGCCACCAAGACG
GGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGGTGAGGAAAATGGATTGGATGGCACAAGAGTGGAGGGCC
TTCTGGAAGAGGAACAGAAAGAGGCAGAAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGGAGGAAG
GTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGAGCCAGCCAATACTGATGATAACTATGG
CAATAGCAGCGGCAATACGTGGAACAACACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGC
AACAGAGGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCACTGCCTCTAATGTGTC
TTCAGTGCCTCTGCCTGCGGAGAATGTGACAATCACTGCTGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAA
GACACCATCTACAATGGAGAATGATTCATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGGCCCAGCCTCTGGT
GTTCACTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACACATTTTCTCATCACAGTATGGTGAG
CATGTAGGGAAGGATTGGTGATGTGCGTGAAGCTAAAGCGGCAGTACTACAGGCTCCCAAGTTCTTGGAGCA
ATTCAAGACTGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCAATCTCAGTCTGGAAGCACCACCCTCCTCTTG
GGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAGTATGATTGGAAGAACCAGTGATTACAGCATGTCGA
CAGCCCCCTTTACAAAGCGCCAGGCTTTTACCCCATCTTCAACCATGATGGAGGTGTTCTTTCAGGAGAAGTCACC
TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGTCTTCTCCTCTGCCAAGCAAATCCACATCGGCTCCACA
GATGTGCGCTGGATCTTCAGACAACCAAGTCCCTCTAGCCCTCAGCCGGCTCAGCAGAACTGAAACAGCAGAAGAA
AAAAGCCTCCTTGACTTCTAAGATTCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATATCTCAGGGCTAAA
CCTGCAGTTTGGGGCATTGCAGTTTGGGTGAGAGCCTGTCTTCTGATTATGAGTCCACCCCCACCACGAGCGC
CTCTTCAAGCCAGGCTCCAAGTAGCCTGTATACCAGCAGCGCCAGTGAATCATCCTCTACAATTTTCATCTAACCA
GAGTCAGGAGTCTGGTTATCAGAGCGGCCAATTCAGTCGACAACCTATACCTCCCAAATAATGCTCAGGGCCC
TCTTTATGAACAGAGATCCACACAGACTCGGCGGTACCCAGCTCCATCTCTTCATCACCCTAAAAGGACCTGAC
TCAGGCAAAGAATGGCTTCAGTTCTGTGCAGGCCACGCAGTTACAGACCACACAATCTGTTGAAGGTGCTACAGG
CTCTGCAGTGAAATCTGATTACCTTCCACTTCTAGCATCCCCCTCTCAATGAAACGGTATCTGCAGCTTCCTT
ACTGACGACAACCAATCAGCATTATCTCTCTTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCAC
CACACAACACAGCAGCAGCTTATCTACGCAGCAGAATACCCCTTCATCATCAACATCTTCTGGGCGCACTTCGAC
ATCCACTCTTTTGACACAAGTGTGGAGAGTGAGGCGAATCTCCATTCTTCTCCAGCACTTTTCCACCACATC
CAGCACAGTCTCTGCACCTCCCCAGTGGTCAGTGTCTCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCTCAG
CCTAGGCAGCAACTCCACTGTGCAGCCTCGACTCGAAGCTCAGTTGCTACGACTTCAGGAAAAGCTCCTCCCAA
CCTCCCTCCTGGGGTCCCGCGTGTGCTTAATCCGTATATATGAGTCCAGGGCTGTTACATGCCCTACCCGCC
ACAAGTATATGGTTATGATGACTTGCAGATGCTTCAGACAAGATTTCCATTGGATTACTACAGCATCCCATTTC
CACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGCCAGCAACCCTTATTCTGGTGACCTCACAAAGTT
CGGCCGTGGGGATGCCTCCTCCCCAGCCCCGGCCACAACCTTGCCCAACCCCAACAGAACCAGACGCAGACTCA
CCATACCACGCAGCAGACATTCTGAACCCGGCGCTGCCTCCTGGCTACAGTTACACCAGCCTGCCATACTATAC
AGGGGTCCCGGGCTCCCCAGCACCTTCCAGTATGGGCTGTGTTCCCTGTGGCTCCTACCTCTTCCAAGCA
GCATGGTGTGAATGTCAGTGTGAATGCATCGGCCACCCCTTTCCAACAGCCGAGTGGATATGGGTCTCATGGATA
CAACACTGGAAGAAAATATCCACCCCTTACAAGCATTCTTGACGGCTGAGAGCTAAATTTGGCCCAAGGCTGGG
GGCTGTGTTTTGTGTGTGTGTATAAATTTGCACTGAAGTCTTGTTCAGAAACCAGACCACTGAGGAGAGCCTGC
TGAGCTGAGGCCATGGCTGCGTGGCTTGGGGAATGAGTTGGTGGATACCTTCTGGGCTTTTGAACCTTGCCCC
CCCCCATTTCCCTCTCCCCCATGTGTCTGACCTGTCTTACCCATTTCAAGTTCAAGCGGTGCAGCACCTTCGAA
GCATCAATGCACACACCTGCTGTTGCTTTTGATTTCTGGAAGGCATGTAGTTTCAACTTGTAACAAAATATTTG
TAGTCTTCAATAAACTGTGGTATTTCTTTAGCTAAC

3683/5332
FIGURE 3214

GTCCGGCTTACCGTCGTTTACGACAGTGTCAGGATCGCGGGCTTGCTTTCCGGTAGCGTGGGCTGACGCCTCGCT
CAATTTCTCACAGGGCTGCGCAGGTTTCCCCGCTCTGCGAATGGACCACTGGAGGGGTTCAAAGGTTTCGCGTCCC
AGTACGGGAATGAGCCTCTTTGATCTCTTCCGGGGCTTTTTCGGCTTTCCTGGACCTCGGAGCCACAGAGATCCC
TTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAAGAAGAAGGGGGCTCATGGGGCCGTGGG
AACCCAAGGTTCCATAGTCCTCAGCACCCCTGAGGAATTTGGCTTCGGCTTCAGCTTCAGCCCAGGAGGAGGG
ATACGTTTCCACGATAACTTCGGCTTTGATGACCTAGTACGAGATTTCAATAGCATCTTCAGCGATATGGGGGCC
TGGACCTTGCCTTCCCATCCTCCTGAACTTCCAGGTCCTGAGTCAGAGACACCTGGTGAGAGACTACGGGAGGGA
CAGACACTTCGGGACTCAATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGGGGGGGTCTTGGAGAGT
GATGCAAGAAGTGAATCCCCCAACCAGCACCAGACTGGGGCTCCCAGAGGCCATTTTCATAGGTTTGATGATGTA
TGGCCTATGGACCCCATCCTAGAACCAGAGAGGACAATGATCTTGATTCCCAGGTTTCCCAGGAGGGTCTTGGC
CCGTTCTACAGCCCCAGCCCAAATCCTATTTCAAGAGCATCTCTGTGACCAAGATCACTAAACCAGATGGGATA
GTGGAGGAGCGCCGACTGTGGTGGACAGTGAGGGCCGGACAGAGACTACAGTAACCCGACACGAAGCAGATAGC
AGTCCTAGGGGTGATCCAGAATACCAAGACCTCCAGCCCTGGATGATGCCTTTTCCATCCTGGACTTATTCCTG
GGACGTTGGTTCCGGTCCCGGTAGCCTTGTTAACCCTCAGAGGCCTTCAAGTCCTTTCCACCTCTACCCATTGC
CCACCATTAATAAGCTTAGCTTCTCTTGCCACCTCAGGGGCTTGGATATGTGGAATAGTGAAGTGGGGCCATGTC
AGTTTGTCACTCACCCAACTGACCAATAAAACCTTTATTTATGCT

3684/5332
FIGURE 3215

CCTACAGAGGGGTCCATACCGTGTGTTCTGGATTCCCGTTGTAACCTAAAGGGAAATTTTCACAATGTCCAGAG
CCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACTA
ATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTACATCATAAATCTGAAGAGGA
CCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTATATCCT
CCAGGAATACTGGCCAGAGGGCCATGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCACTTCA
CTCCTGGAACCTTCACTAACCGGATCCAGGCAGCCTTCCGGGAGCCACAGCTTCCTGTGGTTACTGACCCAGGG
CTGACCACCAGCCTCTCACGGAGGTATCTTATGTTAACTTACCTACCATTGCGCTGTGTAACACAGATTCTCCTC
TGCGCTATGTGGACATTGCCATCCCATGCAACAATAAGGGAGCTCACTCAGTGGGTTGGATGTGGTGGATGCTGG
CTCAGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTCTGCTTCT
ACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAGAGGCAGTGACCAAGGAGGAATTCAGG
GTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTCTGCAGG
TGCCCTCTGTGCTATTCACTAGTTCCTTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAG
CTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCATGGGCTCTTA
AGCAACATGGAAAAATGGTTGATGGAAAATAAATAAACATCAGTTTCT

3685/5332
FIGURE 3216

GGGGGGGCTGTCCCGGAGGTGGCGGCGGCCATCTTGGCGAAGGGGGGATCAGGAAGTGGGACCGCGGCGG
CGGCGGCGGCGGCGGCGGCGGCGGCGGAGCCCGGAGCGCAGGCCGGAGGCTCCCGCCCGCGGCCCCGGAGCGG
AGCGGAGCGGAGGATGCAGCAGCCGAGCCGAGGGGCGAGCAGCCGGGGCCGGGGCAGCAGCTGGGGGGCCA
GGGGGCGGCGCGGGGGGCGGGGGCGGCCAGGGGGGGGCGGGGCCGGGGCCCTGCCTGAGGCGAGAGCTGAA
GCTGCTCGAGTCCATCTTCCACCGCGGCCACGAGCGCTTCCGCATTGCCAGCGCCTGCCTGGACGAGCTGAGCTG
CGAGTTCTGCTGGCTGGGGCCGAGGGGCGGGGGCGGGGCGGCCCGGACCGCATCTCCCCACGGGGGTC
GGTGCCTGGGGATCCTGTCCGATCCACTGCAACATCACGGAGTCATACCCTGCTGTGCCCCCATCTGGTCGGT
GGAGTCTGATGACCCTAACTTGGCTGCTGTCTTGGAGAGGCTGGTGGACATAAAGAAAGGGAATACTCTGCTATT
GCAGCATCTGAAGAGGATCATCTCCGACCTGTGTAACTCTATAACCTCCCTCAGCATCCAGATGTGGAGATGCT
GGATCAACCCTTGCCAGCAGAGCAGTGCACACAGGAAGACGTGTCTTCAGAAAGATGAAGATGAGGAGATGCCTGA
GGACACAGAAGACTTAGATCACTATGAAATGAAAGAGGAAGAGCCAGCTGAGGGCAAGAAATCTGAAGATGATGG
CATTGGAAAAGAAAACCTTGGCCATCCTAGAGAAAATTAAAAAGAACCAGAGGCAAGATTACTTAAATGGTGCAGT
GTCTGGCTCGGTGCAGGCCACTGACCGGCTGATGAAGGAGCTCAGGGATATATACCGATCACAGATTTCAAAGG
CGGAAACTATGCAGTCGAACTCGTGAATGACAGTCTGTATGATTGGAATGTCAAACCTCCTCAAAGTTGACCAGGA
CAGCGCTTTCACACAACGATCTCCAGATCCTCAAAGAGAAAGAAGGAGCCGACTTCATTCTACTTAACTTTTCCTT
TAAAGATAACTTTCCCTTTGACCCACCATTTGTGAGGGTGTGTCTCCAGTCTCTCGGAGGGTATGTTCTGGG
CGGAGGGGCATCTGCATGGAACTTCTCACCAAACAGGGCTGGAGCAGTGCCTACTCCATAGAGTCAGTGCATCAT
GCAGATCAGTGCCACACTGGTGAAGGGGAAAGCACGAGTGCAGTTTGAGGCCAACAAATCTCAATACAGTCTGAC
AAGAGCACAGCAGTCTTACAAGTCTTGGTGCAGATCCACGAAAAAACGGCTGGTACACACCCCCAAAAGAAGA
CGGCTAACCCCTGGAGTATCACCCCTTCTCCCTCCCCAGGCACCACTGGACCAATTACCTTTGAATGCTGTATTG
GATCTCACGCTGCCTCTGTGGTTCCCTCCCTCATTTTTCTGGACGTGATAGCTCTGCCTATTGCAGGACAATGA
TGGCTATTCTAAACGCTAAGGAAAAAAACAAACACAGAAGTGTTCAGTACTCAAGACTGACTTACAGACCAA
CCAACCACCTTGCTGGAACCTTGCTAGCAGGCATTCTTATAAAGAAACTTTGAGCCTCCTTATATTGCTGGA
AACTCAGCTGTGCTCCAGACTAGAGCCTCCTTACCTATGCTATGGATTTTAAATTTATTTCTCTATTTCATGT
ACACTGCTTTTTTTGGTTACAGTGTATGATGGATGTGTATGAAAAAATGTATCTTTGGGAAACAATTACAGTT
TGTAAATTTGAAGATGCTGGTCTTGACTCATCTTTATTTTATTTCGCACATCCCACCCCATCCCTGAACTACTT
GGGAGGTGGGGAGGGGTACGAGTCCACTGTTGCTTTGGTAGAGATGAGAGGCCGCAATTTGCTGCTAAAGCAAGA
GAACTTGGAGCTGAAGCACACACCTGGTCTGCCCTAGATTTCTCCTCAAGGCCTCTGGAGCAACCAGCACTTG
CCCCCTTGAATGCAGAGCCTGGCCTGCCAAACTACAATGTGGTAGGCTGAAACGATGGTGTAAATCTTAGGAC
TACTTTTCTAGTCACAGATGTTTCAAATTTCTAAGAAAAAGAAATGAGGCTCAAGAGGCTGCTTCGTAGAATT
CCTTTTGAATGAATTGAGTGGGGATGGGGACACAGTCTCCAAGTGTGTATGTGGTCTTTCTGATCTCAGCTGTG
TGGCTGCAACTCTTCGCTGTTTCAATGGTTCTCTCCTGGAAGTGGCTTCTAACCAGCACTGGATGGTGATCATT
GGTAAGCTTTGCTCACCTCCCTCTCTCTTGGCTTCAATTTGGCTTTATCAAAAAGAACAGACCTAGCTCTGAATTTG
TTTGGCTTGGGAAATTATGATTCTTTCAAGCCACTCCCACAAGGTGGGTCTTACTAGAAAGGGTTAGCATTTTA
AGGGGGGTGTTCTATACACCTGTGTCTTACCCAGGCTCAGGAAGTCCAGGGAGGGAAGATGAGGTGGGGAG
TCTGTACTGAGATGGAAGTGTGAGTGTGTGTGTATGTACTTGTGTTGTAAAAGTTTGGGCATGACTTTGCAT
CTAGCGGGTGTGCTGCATCTCTTTGTCTGTAAGCTTGCTCTGGGACTCAGCCTCTTAGGACCTACGATGCCAG
CAGCTCTCATTAAACAGTGAATGACAGAGGCCAAAGATGGCCAAGTGAAGACCAAGTCTCAGAAAACCCAGACT
TGGGACAAGTGCCTGGGAAGTGGATGTAGAGCAGTCTGTAAATGCTTTGAGACACAGCAATTTTACATTGGC
CATTCTTTCCCTCCCTACCCCTTTCTTTTGGGGACTTTTAAATGTTTGTGCTTTAGGTGGATGGAGAGTCC
ACCAGTCCCCTCAATGCTGCTCTAACTCTACCCACACCCACCTAATTAGGGGTGCTAATAAAACATGCTGAGGT
TGAGATAAAGACGGGACATAAGGGGAAAATTCAATCCATAGAGCTGAAATCTGGTTTTCAAGGCCTCTGTGGCTT
TCTTCTGAACCTTACCACCAGCCCTGGCTGGAATGTAGATTGTGTTTTAGTAATGTGTACTGTGAGCTGTCTTCT
GTATAATGTATTTTGTAAATGTATTTTCTCATCTACCAAAGGATGAAACAAATAAAATTATTTAAATA

3686/5332
FIGURE 3217A

CGAAATTGAACCGGAGCCATCTTGGGCCCGCGCGCAGACCCGCGGAGTTTCCCGTGCCGACGCCCCGGGGCCAC
TTCCAGTGCGGAGTAGCGGAGGCGTGGGGGCCCTCGAGGGGCTGGCGCGGCCAGCGGTGCGGCCAGGGTCGTGCC
GCCGCGGGTTCGGGCCGGCAATGCCTCGCGGGCGCAATGAATCCGCGGCAGGGGTATTCCCTCAGCGGATACTA
CACCCATCCATTTCAAGGCTATGAGCACAGACAGCTCAGGTACCAGCAGCCTGGGCCAGGATCTTCCCCAGTAG
TTTCTGCTTAAGCAAATAGAATTTCTCAAGGGGCGAGCTCCAGAAAGCACCAGGTGATTGGAAAGCAGACACCGTC
ACTGCCACCTTCCCTCCCAGGACTCCGGCCAAGGTTTCCAGTACTACTTGCTCCAGTACCAGAGGCAGGCAAGT
GGACATCAGGGGTGTCCCCAGGGGCGTGATCTCAGAAGTCAGGGGCTCCAGAGAGGGTTCCAGCATCTTCCACC
ACGTGGCAGGAGTCTGCCACAGAGAGGTGTTGATTGCCTTTCCTCACATTTCCAGGAAGTGAATATCTACCAAGA
TCAGGAACAAAGGATCTTAAAGTTCCTGGAAGAGCTTGGGGAAGGGAAGGCCACCACAGCACATGATCTGTCTGG
GAACTTGGGACTCCGAAGAAAGAAATCAATCGAGTTTATACTCCCTGGCAAAGAAGGGCAAGCTACAGAAAGA
GGCAGGAACACCCCTTTGTGGAATAATCGCGGTCTCCACTCAGGCTTGAACCAGCACAGCGGAGTGGTAAGACC
AGACGGTCATAGCCAAGGAGCCCCAACTCAGACCCGAGTTTGGAAACCGGAAGACAGAACTCCACATCTGTCTC
AGAAGATCTTCTTGAGCTTTTATTGCAGTCTCAGTCTCAGGCTTGGAAACCAGCACAGCGGAGTGGTAAGACCAGA
CAGTCATAGCCAAGGATCCCCAACTCAGACCCAGGTTTGGAAACCTGAAGACAGCAACTCCACATCTGCCTTGGGA
AGATCCTCTTGAGTTTTTAGACATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTCTTCAATGTGTCTGACTC
CTCTGCCCTGAATTTGGCTAAAAATATTGGCCTTACCAAGGCCCGAGATATAAATGCTGTGCTAATTGACATGGA
AAGGCAGGGGGATGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGAT
GCAAATCAAGAGAAATACGAACAGTGTCTGAAACCGCTCCAGCTGCAATCCCTGAGACCAAAGAAACGCAGA
GTTCTCTACCTGTAATATACCCACATCAATGCCTCAAATAACATGGTAACACAGAAAAAGTGGAGAATGGGCA
GGAACCTGTCTAAAGTTAGAAAACAGGCAAGAGGCCAGACCAGAACCAGCAAGACTGAAACCACCTGTTTCTTA
CAATGGCCCTCAAAGCAGGGTATGTTGACTTTGAAATGGCCAGTGGGCCACAGATGACATCCAGATGACTT
GAATAGTATCCGCGCAGCACAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCTTCTACAGTCATGGCTTGCC
ACGGTGTTCACCCTACAAGAACTGACAGAGTGCCAGCTGAAGAACCCCATCAGCGGGCTGTTAGAAATATGCCCA
GTTTCGCTAGTCAAACCTGTGAGTTCAACATGATAGAGCAGAGTGGACCACCCCATGAACCTCGATTTAAATTCCA
GGTGTGTCATCAATGGCCGAGAGTTTCCCCAGCTGAAGCTGGAAGCAAGAAAGTGGCCAAGCAGGATGCAGCTAT
GAAAGCCATGACAATTCTGCTAGAGGAAGCCAAAGCCAAGGACAGTGGAAAATCAGAAGAATCATCCCACTATT
CACAGAGAAAGAATCAGAGAAGACTGCAGAGTCCCAGACCCCAACCCCTTCAGCCACATCCTTCTTTCTGGGAA
GAGCCCCGTCAACCACTGCTTGAGTGTATGCACAAATGGGGAACCTCTGCGAATTCGCTCTCTGTCCAAAGA
AGGCCCTGCCATGAACCAAGTTCCAATACTGTGTTGCAAGTGGGAGCCAACTTTCCCCAGTGTGAGTGTCTC
CAGCAAGAAAGTGCACAAAGCAGATGGCCGCGAGAGGACCAAGGACCTGCAATGGGAGGCCAGCAACTCCAT
GGCTTCTGATAACCAAGCTGAAGGTATGATCTCAGAGTCACTTGATAACTTGGAAATCCATGATGCCCAACAAGGT
CAGGAAGATTGGCGAGCTCGTGAGATACCTGAACACCAACCCCTGTGGGTGGCCTTTTGGAGTACGCCGCTCCCA
TGGCTTTGCTGCTGAATTCAGTTGGTTCGACAGTCCGGACCTCCTCACGAGCCCAAGTTCGTTTACCAAGCAAA
AGTTGGGGGTGCTGTTTCCAGCCGTCTGCGCACACAGCAAGAAGCAAGGCAAGCAGGAAGCAGCAGATGCGGC
TCTCCGTGCTTGATTGGGGAGAACGAGAAGGCAGAACGCATGGGTTTACAGAGGTAACCCAGTGACAGGGGC
CAGTCTCAGAAGAACTATGCTCCTCTCTCAAGGTCCCAGAACACAGCCAAAGACACTCCCTCTCACTGGCAG
CACCTTCCATGACCAGATAGCCATGCTGAGCCACCGGTGCTTCAACACTCTGACTAACAGCTTCCAGCCCTCCTT
GCTCGGCCGCAAGATTCTGGCCGCCATCATTTATGAAAAAGACTCTGAGGACATGGGTGTCGTCTGCTAGCTTGGG
AACAGGGAAATCGCTGTGTGAAAGGAGATTCTCTCAGCCTAAAAGGAGAACTGTCAATGACTGCCATGCAGAAAT
AATCTCCCGGAGAGGCTTATCAGGTTTCTCTACAGTGAGTTAATGAAATACAACCTCCAGACTGCGAAGGATAG
TATATTTGAACCTGCTAAGGGAGGAGAAAAGCTCCAAATAAAAAAGACTGTGTCAATTCATCTGTATATCAGCAC
TGCTCCGTGTGGAGATGGCGCCCTCTTTGACAAGTCTGCGACGACCGTGCTATGGAAAGCACAGAATCCCGCCA
CTACCCTGTCTTCGAGAATCCCAACAAGGAAAGCTCCGCACCAAGGTGGAGAACGGAGAAGGCACAATCCCTGT
GGAATCCAGTGACATTGTGCCTACGTGGGATGGCATTCCGGCTCGGGGAGAGACTCCGTACCATGTCTGTAGTGA
CAAAATCCTACGCTGGAACGTGCTGGGCCTGCAAGGGGCACTGTTGACCCACTTCTGCGAGCCCAATTATCTCAA
ATCTGTACATTTGGGTTACCTTTTTCAGCCAAGGGCATCTGACCCGTGCTATTTGCTGTGCTGTGACAAGAGATGG
GAGTGCATTTGAGGATGGACTACGACATCCCTTTATTGTCAACCAACCCCAAGGTTGGCAGAGTCAGCATATATGA
TTCCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGACCTGGAGAT

3687/5332
FIGURE 3217B

CCTGGACGGTACCAGAGGCACTGTGGATGGGCCACGGAATGAATTGTCCCGGGTCTCCAAAAAGAACATTTTTCT
TCTATTTAAGAAGCTCTGCTCCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTATGGTGAGGCCAAGAAAGC
TGCCCGTGACTACGAGACGGCCAAGAAGTACTTCAAAAAAGGCCTGAAGGATATGGGCTATGGGAAGTGGATTAG
CAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCAGTATAGTATGCTCCAGTGACAGATGGATTAGGGTGTGT
CATACTAGGGTGTGAGAGAGGTAGGTCGTAGCATTCCCTCATCAATGGTCAGGGGATTTTTTTTTCTCCTTTTTT
TTTCTTTTTAAGCCATAATTGGTGATACTGAAAACTTTGGGTTCCCATTTATCCTGCTTTCTTTGGGATTGCTAG
GCAAGGTCTGGCCAGGCCCCCTTTTTTCCCCAAGTGAAGAGGCAGAAACCTAAGAAGTTATCTTTTCTTTCTA
CCCAAAGCATACATAGTCACTGAGCACCTGCGGTCCATTTCCCTCTTAAAGTTTTGTTTTGATTGTTCATTT
CCTTTCCCTTTGTGTTTGCTACACTGACCTCTTGCGGTCTTGATTAGGTTTCAGTCAACTCTGGATCATGTGAGG
GACTGATAATTTCAATTTGTGGATTACGCAGACCCCTCTACTTCCCCTCTTTCCCTTCTGAGATTCTTCTTGTG
ATCTGAATGTCTCCTTTTCCCCCTCAGAGGGCAAGAGGTGAACATAAAGGATTGGTGAAACATTGTGAAGGGT
AGGAGTTGAAAAGTGCAGTTCCAGTGCCACGGAAGTGTGATTGGAGCCTGCAGATAATGCCAGCCATCCTCCC
ATCCTGCACTTTAGCCAGCTGCAGGGCGGGCAAGGCAAGGAAAGCTGCTTCCCTGGAAGTGTATCACTTTTCTCG
GCAGCTGGGAAGTCTAGAACCAGCCAGACTGGGTTAAGGGAGCTGCTCAAGCAATAGCAGAGGTTTACCCGGCA
GGATGACACAGACCATTCCCAGGGAGCACGGGCATGCCCTGGAATATTGCCAAGCTTCCAGCTGCCCTTCTCTC
TAAAGCATTCTAGGAATATTTTCCCCGCCAATGTGGGCGTACACCCTAGCCAACGGGACAAATCCTAGAGGGT
ATAAATCATCTCTGCTCAGATAATCATGACTTAGCAAGAATAAGGGCAAAAAATCCTGTTGGCTTAACGTCACT
GTTCCACCCGGTGTAATATCTCTCATGACAGTGACACCAAGGGAAGTTGACTAAGTCACATGTAAATTAGGAGTG
TTTTAAGAATGCCATAGATGTTGATTCTTAACTGCTACAGATAACCTGTAATTGAGCAGATTTAAATTCAGGC
ATACTTTTCCATTTATCCAAGTGCTTTCAATTTTCCAGATGGCTTCAGAAGTAGGCTCGTGGGCAGGGCGCAGAC
CTGATCTTTATAGGGTTGACATAGAAAGCAGTAGTTGTGGGTGAAAGGGCAGGTTGTCTTCAAACCTGTGAGGT
AGAATCCTTTGTCTATACCTCCATGAACATTGACTCGTGTGTTGAGAGCCTTGGCCCTCTCTGTGGAGTCTGGCT
CTCTGGCTCCTGTGCATTCTTTGAATAGTCACTCGTAAAACTGTGAGTGCTTGAAACTGTTTCTTTACTCATG
TTGAAGGGACTTTGTTGGCTTTTAGAGTGTTGGTCATGACTCCAAGAGCAGAGCAGGGAAGAGCCCAAGCATAGA
CTTGGTGCCGTGGTGATGGCTGCAGTCCAGTTTGTGATGCTGCTTTTACGTGTCCCTCGATAACAGTCAGCTAG
ACACACTCAGGAGGACTACTGAGGCTCTGCGACCTTCAGGAGCTGAGCCTGCCTCTCTCCTTTAGATGACAGACC
TTCATCTGGGAACGTGCTGAGCCAGCACCCCTCAGATGATTCCCTCCAACTGCTGACTAGGTCATCCTCTGTCT
GGTAGAGACATTACATCTTTGCTTTTATTCTATGCTCTCTGTACTTTTGACCAAAAATTGACCAAAGTAAGAAA
ATGCAAGTTCTAAAAATAGACTAAGGATGCCTTTGCAGAACACCAAGCATCCCAAGGAAGTGGTAGGGAAGTGG
CGCTGTCTCCTGGAGTGGAAGAGGCTGCTCCCTGGCTCTGGGTCTGCTGGGGGCACAGTAAATCAGTCTTGGC
ACCCACATCCAGGGCAGAGAGGTCTGTGGTTCTCAGCATCAGAAGGCAGCGCAGCCCTCTCCTCTTCAGGCTAC
AGGGTTGTACCTGCTGAGTCCTCAGGTTGTTTGGCTCTCTGGTCCATCTTGGGCATTAGGTTCTCCAGCAGAG
CTCTGGCCAGCTGCCTCTTCTTTAACTGGGAACACAGGCTCTCACAAGATCAGAACCCCACTACCCCAAGAT
CTTATCTAGCAAGCCTGTAGTATTGAGTTTCTGTTGTAGGAAGAGAGCGAGGCATCCCTGAATTCACGCATCTG
CTGGAAACGAGCCGTGTGATCGCACATCCCTGCGCCCCATGCCCTCTGAGTCACACAGGACAGAGGAGGCA
GAGCTTCTGCCCACTGTTATCTTCACTTTCTTTGTCCAGTCTTTTGTTTTTAATAAGCAGTGACCCTCCCTACTC
TTCTTTTTAATGATTTTTGTAGTTGATTTGTCTGAAGTGGCTACTGTGCATTCTTGAATAATCACTTGTAAG
AATTGTGAGTCTTGAAGCTGTTTCTTTACTCACATTGAAGGGACTTCGTTGGTTTTTTGGAGTCTTGGTTGTG
ACTCCAAGAGCAGAGTGAGGAAGACCCCAAGCATAGACTCGGGTACTGTGATGATGGCTGCAGTCCAGTTTTAT
GATTCTGCTTTTATGTGTCCCTTGATAACAGTGACTTAACAATATACATTCTCATAAATAAAAAAACAAGA
ATCTGAATCTT

3688/5332
FIGURE 3218

GATCACAGACTGCGGAGTGGGTGAGGGGCTGCGAGGGCTGCCCCAAGTCCTACCGGGTTTGACGGGCGCGCCCG
GCTCCGCCCCGAAGTGCGCCTTCCTGACTTACTGCTGGGTGCGCGGGGCTGGGGGTGCGAGTACCACCCCTGAAG
TCTCTTCTGGGCGACCTCCGGGGCCTCATTCTAGGCCTCCTTAAAGAGAAGGATCTAAATTAGGAAAAGGAAGT
GCCCTTATCCACGACCAAGCTCTTCCACCTGCGGAGCTCGCTTAGTCTGCACCTCAACCGTGCAGGAAAGTGACTG
CCCTGTTTACTGAGGAAAACTGGGGCTCAGAAAGATACCATGGAGTAGTTTGAAACAGGAACAAAACTTCTCTGA
AAGCTCGGAGCAGAAGCCTTTTTGGTCAACATGGAGGAAAAAAGACGGCGAGCCCGAGTTTCAGGGAGCCTGGGGCT
GCCCCGTGTTAAAAGCCAGGCCATTGCTCAGCCAGCTACCACTGCTAAGAGCCATCTCCACCAGAAGCCTGGCCAG
ACCTGGAAGAACAAAGAGCATCATCTCTCTGACAGAGAGTTTGTGTTCAAAGAACCTCAGCAGGTAGTACGTAGA
GCTCCTGAGCCACGAGTGATTGACAGAGAGGGTGTGTATGAAATCAGCCTGTCACCCACAGGTGTATCTAGGGTC
TGTTTGATCCTGGCTTTGTTGACGTGAAAGAAGCTGACTGGATATTGGAACAGCTTTGTCAAGATGTTCCCTGG
AAACAGAGGACTGGCATCAGAGAGGATATAACTTATCAGCAACCAAGACTTACAGCATGGTATGGAGAATTCTCT
TACACTTATTCAAGAATCACTATGGAACCAATCCTCACTGGCACCCTGTGCTGCGCACACTAAAGAACCGCATT
GAAGAGAACACTGGCCACACCTTCAACTCCTTACTCTGCAATCTTTATCGCAATGAGAAGGACAGCGTGGACTGG
CACAGTGATGATGAACCCTCACTAGGGAGGTGCCCCATTATTGCTTCACTAAGTTTTGGTGCCACACGCACATTT
GAGATGAGAAAAGAAGCCACCACCAGAAGAGAATGGAGACTACACATATGTGGAAAGAGTGAAGATACCCCTGGAT
CATGGGACCTTGTTAATCATGGAAGGAGCGACACAAGCTGACTGGCAGCATCGAGTGCCCCAAAGAATACCACTCT
AGAGAACCGAGAGTGAACCTGACCTTTTCGGACAGTCTATCCAGACCCTCGAGGGGCACCCTGGTGAACGTGAGAGC
TTTGAGAGAGAAGCTTCACTGAAACGGAGCAAACCTTCCACTGAGAAGCCACTTCAAGAGGCTGGTGTCTAGTA
TCTCATGATGTGGCTGTTGGGAAGATGGTGGGGTTTGTGTTGCCAGCTTGGAGTCCTATTAAATGAAAGCCAGCAA
CTCATGTTGGTAATAGGTCTACTGTGGGAACAGTTATCCCTAACACAGCTCAAAATCGCTATCATCTTAGGCA
AATTAATCTATGTGGCAGTGCTCATGGATGATTTTGTCTAAGCAGTTTTCTCCTGCCCTCCCCGCCCCC
ACACGCCC

3689/5332
FIGURE 3219

AAGAAAAATTCAAAGTGGAGACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAAA
CAGGCTTGGCTGGTCTTGAAATCGGCATCTTAGTGAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTT
TGGATGTTCTTGACTTGGACAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAAGATGACAC
AATTGGTACTGCCITGGCATGGTGGAAAGATCCAAAGGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGCTCC
CTGTCCCCTCTTGACCATCTATTCTGCAACCAAGACTTTTTGTAGATTTCTTCTCTCAGTGCCTCCATGAGGAGT
ATAGGAGCAAGGGCGTCTTTGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAAACCTGGCTAAAATCCGGAAGC
CAACTTTGGATAAGCCCTCTCCGGAGACGTTTGTGAAGTCTGCAATTAACACAGTCGGCCTGCAATCCCGAACCA
ATGGATACCTGATCCATGCTCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTATTTGAAAATAGTCA
TGAATATGAACAAGTCTACACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAAGCATTGATAACTGCATTGT
AACTTGGCCAGATGCTCCAGCATATGCACGTTCACTGCAAAGCACCCCTACTGGTTTTGAAAATCTGACCTTGTC
TTTCAATAGTTATTAACATGACTAAATATTATCTTAATTAAGAGGAAAATAGAAGTTGCTTTTAGGGGTTTCTGA
CATATATTCTGGATACTATCCGAGGTAATTTTGAAGTTTAATATAAATGCTCATATCAAATGAATATAGAATAA
TATTGTGGGAACACCTAATAGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAAACTT
GGCAGTTTTATCTGCTTCAAAATGCCATTGATCATTATTCTGTATTTTCTCTGAAACTGATTATAAAAACCAAT
GTCCAGCTACTCTTTTGTGTTTTGACACTTGAAGAAATGGAGATCGATTGATTTGTTTATAAGCAGACACACTGC
AATTTACAAAGATCTCTTTACGGTTTTATAAAATTATCTTCCAGTTGTACATTTATATGGAATTGTTCTTTATC
AAGGGTAGCTAATGACATGAAAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAAACTATGC
TTTCTTATAATGCATATTTCTTCTCAGTTTAAATGTATGTAAATATCGAAGCTATATGGTATGATTTATAAAGAT
AAATGGGCCAAAGTGATGACTGAGACTGGCAGCCATCTATGGTACCACTGAAACCCTGACCCAGAAAAGTGGCTT
GCTTGGACACCCAGCTGCCTTTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATA
AAAGTAATGACTTCATAGAAATGGCATTATAATTTTAAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGT
TTTAATAAAACATGCTGCAACCATGGTATACAACAAAATACATTTCTTGGTGATTGAAATTAAGGCCGTATTT
ACAATGACTTAATATAAGACTGACTTTTATCCTGCTTCATAACTTGTATGGGAACTCACCAAGAAAGAATTCAA
TACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCCTAAGCTCTGAGTTTTCAGCACCAG
TAGATTTGTATTAAAAAGAAAAAAATGGGGCCTTAGCTTCTGGCTTTTAATTTTGCCAGCTAAGGACATAAAAC
AAAAATAAACAAACAAAAACAAATAGCCATCTGCTATCAGCATCATTATGTAAAGAAAATATATTTTAGCCCCT
AAAATTAGGAAGATGTAATCTCAGAATAAAGGTTGTCATTTAAGTTGAATAAATATATAGCTTTATGAAAAACA
C

3690/5332'
FIGURE 3220

GTGGAGCACCATGGAAGGCGACTGTCTGAGCTGCATGAAGTATCTGATGTTTGTATTCAATTTCTTCATATTTCT
GGGCGTGGCCTGCCTGCTGGCATCGGATCTGGGTCATGGTGGACCCACCAGGCTTCCGGGAGATCGTGGCTGCCA
ATCCTCTGCTCCTCACGGGCGCCTACATCCTCCTGGCCATGGGGGGCCTGCTCTTTCTGCTCGGCTTCCTGGGCT
GCTGCGGGGCGCTCCGTGAGAACAAGTGTCTGCTGCTATTTTTCTTCCTGTTTCATCCTGATCATCTTCCTGGCAG
AGCTCTCAGCAGCCATCCTGGCCTTCATCTTCAGGGAAAATCTCACCCGAGAATTCTTCACCAAGGAGCTCACCA
AGCACTACCAGGGCAATAACGACACAGACGTCTTCTCTGCCACCTGGAACCTCGGTCATGATCACATTGGTTGCT
GCGGGGTCAACGGGCCTGAAGACTTTAAGTTTGCATCTGTGTTTCGACTCCTGACCCTGGATAGTGAAGAGGTGC
CGGAGGCCTGCTGCCGGAGGGAACCCCAAAGTCGGGACGGGGTCTGCTGAGCCGGGAGGAGTGCCCTCCTGGGAA
GGAGCCTATTCTAAACAAGCAGGGCTGTTACACGGTGATCCTCAACACCTTCGAGACCTACGTCTACTTGGCCG
GAGCCCTTGCCATCGGGGTACTGGCCATCGAGGAAGAAAGAGCTCATTCTGTCTCACAAGCCACCGGCATCCTGT
ATCAGTTCCAGCCTCCCCCTCAGGCTTTCCAGTCACCAGGGACACTCGGAGCCACAGCCTAGAGCCCCGTGTTCCC
TGGCCTGTGCGTCTGCCCCCTTCTGAGATGCAGCCAGAAGCTCTGTGCCTGCTGCAAAGATTAGGTGGACCCCTC
CTCTAATCTCCTCCTGCTGTGCCCCGCCAGTCCTTGCCCTCCACCAGGTCTCTGAGCTCAGTCTTACCAAATTG
CCCTTTAACAGCTTGCTCTGGCAACCCCATAAATGACACCTGAGCTCCGTAGAAGCTAAGCTCCTGAGACCCAGG
GGGACCTGCCACTGGTACCGCGGCCAGCCTGGGGCCTGGGGGCTGCCCCCTTGAACCCACATGCTTAGCC
CCAGCTTTTTGGAAGAGGCAAAATGGCTGGTCTGAGGATGACACACAAAAACA

3691/5332
FIGURE 3221

CACCGCCAGCCAAAGCAGTCCCTTCCATTT~~C~~AGGCACCGCCTGGGCCCCGGGAGACACCGCAAGGCTATTTAAGAT
GGTGTGGTTTGGCCATCTACGTTGATCGTCCCAAGAAAGGGCAACCGTCTGCAGAACTTGCCAGGAAAGTCATCC
TGGGCGGGCGCGGCCACGCCAGAGTCTCCCCGCGCGGCTTCTCCCCCGGCGCCTTCTTTCTCGCGCGTGCGCC
CCTGCAGGCGGGCCCCGGGAGAGCTTCGCGGGGGAGCCGTGAGCCTGGTTTCCCCGCCAACCCCCATTCCCGCCG
CCCCGGCGGCCACCCTGGGGGCGAGGCAGCCCGCGCGTGGGAGGGGACGGCGCGCCATTGGCTTGTGCGCGGAA
CCGAGAGGAGGGACCAGCGCGGGCCGCCAGACTCGCCCTTCTGCAGAGGCCGGGCTGGAGGAGAAGATGGCGGCC
AAGCAGCCCCCGCCTCTGATGAAGAAGCACAGCCAGACGGACCTCGTGAGCCGCCTGAAGACCCGCAAGATCCTC
GGCGTGGGCGGGGAGGATGACGACGGGGAGGTGCATCGCTCCAAGATCAGCCAGGTCTTAGGCAATGAAATCAAG
TTTACCATTTCGGGAGCCTTTGGGGCTCAGGGTCTGGCAGTTCGTCTCTGCTGTGCTCTTCTCCGGCATTGCCATC
ATGGCGCTTGCCCTTCCCTGACCAGCTCTATGATGCGGTCTTTGATGGAGCCCAGGTGACCAGCAAGACCCCCATC
CGCCTCTACGGCGGTGCCCTCCTCAGCATCTCCCTGATCATGTGGAACGCTCTCTACACGGCTGAGAAGGTCATC
ATTCGATGGACCCTGCTCACCGAAGCTTGCTATTTCGGGGTCCAGTTCTTGGTGGTCACTGCCACGCTAGCTGAG
ACGGGCTCATGTCCCTGGGGATCCTGCTGCTGCTGGTCAGCCGCCTCCTTTTGTCTCATCAGCATTTACTAC
TATTACCAAGTCGGCCGAAGACCCCAAGAAGGCC~~TAG~~TTGCCCGCATGCCTGGGCCCTCGCATGCCCTGGGCCAGAG
TGGCGCTGGGGCCTCGGCTTCCCTTTGGCTCCTGGAAGGCAGGAGGTCCCCTGCCCTGCCCCAGTCCTGCCCCA
GGGAGGCAGGGGTGGGGGGCCTTCTTTCTCCTGGGCACCCCGTGTGCTGTGATCTCCTGGGCTTTTACGGCTT
GACATGCTGGTCTGGGGAGAGACAGGGCCTCTGCTGCCCTGTTCTTACCCTCACAGTGATACCTCCTTTCTTG
GGTCTCTTGGCCTCCAGACCCCTCAATAGACACTGACTAAAGTCAAGCTGGAGTCATGAGGGTAGTGGGCTAAG
TCGAGGGTCCAGCCTCTTCTGCCAGGAAGCCCTTCTTGCTTTTGGAGAGGGCTGTGACCACCCCCCATCCTTCTC
CCTACACTCCCAGCCAACCTAGTGCCCAAGCAGCTAAACTTGGCTTCTTCTAATCCTGGAAAACCTGTACCCC
TCCTCTCAATCTGGCCCTCTCCACATGCACACCTGAGAACACACACAGACACACAACACACACACATACACAC
CCCTGAACACACACACAGACACACATACCCCATGATGTGAGCAAAACACACACAGTGCGCCTTCATAGCCAGC
CAAGGGCATGCAGGCAGGTGTGCTGCCTGAGATGGCACCTCCCTTTCAGCCATTCTTCAAGAATGGGCCACACA
CAGCTAGAAGTCTCTCCAGCTAGAAGTCTGTCCCCACTCTCCTGGCCTGACAAGATGAGCTCTCCTGGGACC
TTGCTCTAGGGCACTCTGCCTCTACCCTAGGACACTGGAATGCCCTGGGAGCCCCCTCCCTGCAACCAGCCTGAG
TTCAGCCCCACGGACAAAGGGACACACAGCCCCCAATGGAGACCATTGTAAGTGGTGGGGCTGGGAGAGGAGGAA
CAGAAGGAAAGCCATAGCGCTCTCTTGCCCCCTGGCATGTACCCCAAGGCCTGATGGCCACTGGGCTCAGCCTGT
CCCCCACTCCTGCCTGCTTCCCGGTGAGCTGCCCCGACACGTGCAGCCCGGGCTGCCTCCAGGGTCTGGCTGAG
TGGGATCAGGTGGCCCTCCAACCTCAGCACAGGAATAAGTAGAAACATTCAGCAGGCCACCTCCCCTCATCTTC
CCGCCCCGTGTCAGCCCTGGCAAAGGCTGACAACTGGCTGTCTTGGGGCCGAACAGCCCTGCCCTGCCTCTG
AGGGCCCAACAGCCTGTGCTGCATACCCACCGCCAGCTTCTCCTGAGGGCCCAACAGCCTGTGCTGCATACCC
ACCACCAAGCTTCTCCTTGAGGGCCCAACAGCCTGTGCTGTACACCCCGTTAGTCCCTGATCCCCAACCTTCTCCC
TCCTGCCAGCACACCGATGCACACACCGGAAGTGCGAGCCCAAGCCCTGGGGACAGGTGTAGGGAGAAAAGCAG
CCCCAGGCCCTCAGACTCGCTTCCCATCCTGGCATAGAGTGGGGGATGGCTGGAGGGTGTCTATAGGTACAGCCG
CTCTGGCTGCTGCCAGGTGGGCCCTGCCAGGGGTCTCACCCCTGTCCACCCTGTGCTGGCTGTCCCTGCACC
CAGATACAGCAACATGGCCTGTACCCAGCAGAGTGGTGGCACCACCATGGTTACAGCGGATGCCCCGAGACTCTG
CTTGTTAAACGTGGCAGAGCAGAATGGGAGGCTGGACCCTGAGGAAGGGCCCTCTCCTGGCATCTGTCTCTTGC
TACCTAAGCCTGTGCCTCTCCCTAAAGAGCTGCCTCCCTGCTGCCAGCCCTGGTCTGGCCACGAGCCACTACTG
CCTCCACAGGCACCACTGCCTCCCGCTGCTGCCACAGGTGGTGGCCCAATGGGCAGTGCCTCAGGCCGAAG
CCTCAATCCCCCATCTGAGCCAGGCCTAATCCTCTAATAGTGATGGTTGGTTTGTCTCCCACTGCAGGTGG
ATTCCACCTGGGGAATGAGGCTGCGTGTGCGGCGTCTGCTGGCCCTGAGACATCCAGTCTTCCACACTCAACTGT
GAGATGGGAGGGTGGCGTGGCCTTACCCCATGAGGCTGTCCAGGCTCTGGCACACAGCTGTGCTCACAAAATACT
GGGTGGCTTGGTTAGAGCTAATTGTAGTGGAGCCTGCAGGTGAGGGTGAAGGAGGGGGCTGCAGGTGAGGTAAGA
TCTGGAAGACAGACGTACAGCTTGAGGGCAGGGGGACTCTAAGGCAAGGAGATTTACAGTTGGGAAGGAGGCAG
TGGCAGAGGGGTGAGGGACAGGGGCCCTTAAGTCCAGCGAGGAAAGCTCGGTGTGGGCCCGCTCTACGCTCCGTT
TGGGTGACCTGGAACGCCTCTTCTCCAGCTCCCTCCAGCCATCAGCAGCCTCTTGTCAAGCTTCTGCCTCGCC
CCAGTCTATCCCCAACCCCAAATTAAGACCACCTTCTTCACGGTCACTATTATTCTTTGTTCTTTTCTTTT
TGTAAGAAACATTACAAAAACCAAGTGCAAAACCATC

3692/5332
FIGURE 3222A

GGCGGCGGGAGAGCTGCTGGCTCGCCCGGATCCCGGGAGCTGCCTGGAGGCGGGCCCGGCCGGGGAAGGTGAGC
GGCTGCGGGACCCAGCCCCTCGCCGGGAGCGGGACCAATGGTGCTGTCGGTGCCTGTGATCGCGCTGGGCGCCAC
GCTGGGCACAGCCACCAGCATCCTCGCGTTGTGCGGGGTACCTGCCTGTGTGCGGCACATGACCCCCAAGAAGGG
GCTGCTGCCGCGGGACCAGGACCCGACCTGGAGAAGGCGAAGCCCAGCTTGCTCGGGTCTGCACAACAGTTCAA
TGTTAAAAAGTCCACGGAACCTGTTACGCCCCGTGCCCTCCTCAAGTCCAGACATCTATGGACCCAGGCCAGC
TGTGACGGCTCCAGAGGTCACTAATATGCAGACTATTCACTGAGGTCTACGGAGGAGCCCACTGCACCTGCCAG
CCCCAACCCCCGAATGACAGTCGCCTCAAGAGGCAGGTACAGAGGAGCTGTTTCATCCTCCCTCAGAATGGTGT
GGTGGAGGATGTCTGTGTGTCATGGAGACCTGGAACCCAGAGAAGGCTGCCAGTTGGAACCAGGCCCCCAACTCCA
CTACTGCCTGGACTATGACTGTGAGAAGGCAGAATTGTTTGTGACTCGCCTGGAAGCTGTGACCAGCAACCACGA
CGGAGGCTGTGACTGCTACGTCCAAGGGAGTGTGGCCAATAGGACCGCTCTGTGGAGGCTCAGACAGCCCTAAA
GAAGCGGCAGCTGCACACCACCTGGGAGGAGGGCTGGTGCTCCCCCTGGCGGAGGAGGAGCTCCCCACAGCCAC
CCTGACGCTGACCTTGAGGACCTGCGACCGCTTCTCCCGTCACAGCGTGGCCGGGGAGCTCCGCTGGGCCTGGA
CGGGACATCTGTGCCTCTAGGGGCTGCCAGTGGGGCGAGCTGAAGACTTCAGCGAAGGAGCCATCTGCAGGAGC
TGGAGAGGTCTACTATCCATCAGCTACCTCCCGGCTGCCAACCCTCCTGGTGGTGTGATTAAAGCCAAGAA
CCTCCACTCTAACCAGTCCAAGGAGCTCCTGGGGAAGGATGTCTCTGTCAAGGTGACCTTGAAGCACCAGGCTCG
GAAGCTGAAGAAGAAGCAGACTAAACGAGCTAAGCACAAGATCAACCCGTGTGGAACGAGATGATCATGTTTGA
GCTGCCTGACGACACTGCTGCAGGCCCTCCAGTGTGGAGCTGGAAGTGTGGGCCAGGACGATTACGGGCAGCTG
TGCCTTGGCCACTGCGACCTGGGCCCTGCACACCTCGGGCTCTGAGCGCAGCCACTGGGAGGAGATGCTCAAAAA
CCCTCGCCGGCAGATTGCCATGTGGCACCAGCTGCACCTGTAACCAGCTGCCAGCTGCCTCCCTTCTTGGACAG
CCCTGACCCGCTCCTCTGCAACCTCCTTTCTGTGCCCTTTCTCATTCTGACACCCAGAAGACAGTGACAGATGT
GTTTGCAAGGCTGGGATGGCTCTCTCATCACTCTTGTCTTCTTAGAAATAAGCAAGACAGAGCAGGAAATGGAA
TATGCGGGTCACACTGAGGAATGCATTTTGCTCATCTGTGTTATTGAAGGAGGTGCTTATTAAATACAGTTCCTA
TGCCTGTTTTATAGGTGGGGTTAGGCCAGATGCAGAGAAAGCTAAATGTGGGAATCATGGATGCAAGAAGAATT
TGGCTTTTTGAAAAACAAGCATTTCAAAAATGATGAAGGAAGTGAAAGTATCCTGGATCAACTCCTAGAGTTAGA
GATTGCCAGGTGGAAAGAAACCTTAGCCAGCGTTCAATCAAGCTCACCATGCAGGGCAGTACCCGGCAGTTCT
CAAACCTTTAGCATGTGAAGAGTCAACAGCAGATTCTGGGCTCGCCTGGAGACATTCTAGTCGGTATTCTGGT
CGAAGCCCAGGAGCCTTCCTTTTAAACAAGCTGATGTAGAGGGTGGAGCACTGTATGTGGAGAAATTCCTTCTAC
AATATTCCACACAGGTTTTTGGCCACAGTCCTTGATGGAGTCCCAAAACCATGGTGCAGCCAGTTCCAATGCTGG
ACACCTCAACCATCAGGGTGAAATCTGGGGCCTCAGCTTTTTTAATTTAATTATTTTAATTTCTTAATACTTTAATT
TGTGCATTTTCATAAGCCCCCTGCTCTTGAGCTGAATTTTGTGCTTTTTATTGAAGAATTTATTGTTTTATCTT
AAAATCAGTTTTCTATTATCCTTGGGGAGACCATCCCTAACAAAGTACAGGTGGGATCTCCTGTGAGTCATTGGCT
GGGTTCTGATTGCTAGATGTCACACCCACCAGCATACCAAAGTACTCTGAGATAGACCGGTCCCTTCTCAGCG
TTCCAGTCACTTCAGGAGGAATTTAGTTATTGACTTAGTCTATGACATCTGGCTACATGTAGGTAGAGAAGAAAG
ACAATTTTAAAAAGGAAATCAGGTCTTTTGCAACTGTGCCTCCCTCTGTCTGTTTTCACTTGAATGGGTAAATAA
CCAGCAGCTAGGTTTTGAATTCCTACCTTGTTATTCTAAACAGATGTCCACATTGTTAATTAATCTAAATTATG
AGCCTTGCTGAGTGGATACGGTACTTACACCTGAACCAGGATTCTGGGTCTGTTGTTGACATTGCCCTTCAGC
ACCTGTTTGGCCAGCTGTATAAGATAGGACTAATGACTAGGAAGCCTACCCCAATGAATGATATACTAGATGAAA
TAGTGTTCAAAACCTGTAGGCACTCTCTGGCTAAAAACAACTCTGAGGCCACCAGCAGATCATCTTAAAGCTAA
GTTACTATTTTTACCTTTTTTTTTAGACGGAGTTTTGTCTTTTGTGTTGCCAGGCTGGAGTGCAGTGGCACGATC
TCGGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGCGATTCTCCTGTCTCAGCCTCCTGGGTAGCTGGGATTACA
GGTGGCCACCAACATGCCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCAACATGTTGGCCAGGCTGGT
CTTCAACTCCAGATCTCAGGTGATCTACCCTCCTCGGCTCCCAAGTACTGGGATTACAGGCCTGAGCCACCGC
GCCCGGCTATTTTTCACTTTAATTTGGCAGCTGAGAATGCCCAAAAGTGCCAGAAGCATCGTGGCATTTCCAG
AACCATGGATTCTGCCTTTGGACCCCTCTCTATTAATATTTAAACTCTGGGCCTTCAGATGTCACCTAATCCAC
TGCCCTAAGACAGAATTTCTGGACAAGATGGGTAAGGCTTCATTCTTCAACAAGTCAAGTCATACTTGGCCTC
TCCCTGAGAATCTGAGCAGGAGCCTTATAACCTGTGGTCATTATTTTTCTTCTGTACAGAAATAGAAAAGCAT
TAGAAATAACTTCTAACCATCCTCTGAAAAACAGAAAAATATCGAATCCCTCTTTCATGAGAAGTCTTTTGA
TAATTGGAAACCTTCATCACTGAGGTTGGCCAGCCCCTGCCAAGTGTTGTGTAGGCAAAGCACTTGTAGTGGCT

3693/5332

FIGURE 3222B

TCCTATGAAATGTTTTAGAGATCTCTTCACCATACTGGTTTCTTCTCTTTGGTTGGTGTGGGTAAAAGAAAACAA
AACATTTCTTATAAGCTGAAAGCTGACCAGCATTCTCTTCTTGGTAACATCTACTACTCCAACCTAGAAAATTTG
GATTCTAGACCAAAAATCAGGAAACATGGCTCCTTATAAATCTGTGCAGCTGCCTTATAGTACCATCAAAGGAAT
TTCAGGTGGGCTGGGCGGGGCCCCGATCCCAGAATTATCAACTCCACCCATCATCATTTGGTCATGAAGCATCCT
TTCATTCTTCTTCTTCTTTTTTTTTTGGGGGGGGCGGGGCGGGGAGGGATCTCAAAGTTTTAGTCTTCCAGAATCC
AAATTAAAGGTTGCCCTGATGGGGGCCAGGTTCCGCCACAGAACATCTTAGATGTCAGCCTTGACCTCACTTAG
CAGGGATTACAGAAATGAGATACATTTTGAAGGAGAGTTGTCTGTTATGTTCACTGTATTCTAAGTGCCTGGGAT
AAAGCTGTCTCATGGGTGCTCCATATATATTCATATATATTTGTTGAGTGAATTAATGAATTAAGAGTGGCTGGC
AGAGTAGGCAGAAAAAGACACTGCAAATGGCATAAAAAATTAAAGTCCTAGCTGAGTTCTCAATGGTAAAGGCATC
AGATGTCTTAGCAGTCAAGCTAGAAATTCATGACAATGAGTATTACTATTTGCCTAATGACAACCTCATTGCTCTC
CATGTAAATGTAATCAACAGATGAAGAGAATATAATTGCTCTGCTTTTCCACTAAAACCTCCATCTTAGTGAATTT
TAAATTATCCAGAGATGTCAAACCTGCCAAATAAAAAATTTTCAGTAGTCTTTGCATCAGCTTACCTTGTACCAGA
AACATTTCCAATTTACTATCAAATTATAGTAACTGAGCCTGTGTGAAGTATCTCATCATTTTCGAAAGGAACACC
TTGTGTGATGCCAGTGAGCATTCTAAAAAGGGTGTGAGGTAGAGGTAAAAATAAGGTGAGAGACCATTTCAGAA
TGCACTGTTGCTCAAAAAGGTGATCTGGTTCTTTCTTCAGAGATTTCTACGGGGATAGAAAATCGGGAGTCTGCC
CTCATTAAATCTGTGACTCCACCTCTTGCAATCAATATCTATTTGTTGAGCACTTATTGATTAAAGACCTTGC
ATATGTCTGTCCATTTTGATTTGAGATACAACTTTTTGTGTGGGTTGAATGACAAATCACTCCAAACAAAACCTGG
GCACAGAGAATCAGCTAGGAGACCAGTTATTCAGGGTCCATTTCTCTTGGATGTAAAGGAGTCTGGGTAAAATG
TGGCTGTAACTAAACCAACTAGTCCCTTGATTTGTTTCTGCCCTCTGTGTTTCTGTTGTCAAATGCTAAGTG
TGTGTTTGCAGTCATGAATAAGCACAAAAAGATGCATGAGACATTGTAGTCATATGTCTGGTGTGACACTTT
GGAGCAAAAACCTTGCAAGTGGTAAATAAAAAATTTCCAACAGGG

3694/5332
FIGURE 3223

CCCCGCCCGTTTGCCAGCGCTCAGGCAGGAGCTCTGGACTGGGCGCGCCGCCCGCCTGGAGTGAGGGAAGCCCAG
TGGAAGGGGGTCCCGGGAGCCGGCTGCGATGGACGCCGCTTGGAACCCCTTCCCGGCCGACAGGCTGTTCCCGG
ATCCAGCTTCTTGACTTGCGGGATCTGAACGAGTCGGACTTCTCAACAATGCCCACTTTCTGAGCACCTGGA
CCACTTTACGGAGAACATGGAGGACTTCTCCAATGACCTGTTGAGCAGCTTCTTGATGACCCTGTGTGGATGA
GAAGAGCCCTCTATTGGACATGGAAGTGGACTCCCCTACGCCAGGCATCCAGGCGGAGCACAGCTACTCCCTGAG
CGGCGACTCAGCGCCCCAGAGCCCCCTTGTGCCCATCAAGATGGAGGACACCACCAAGATGCAGAGCATGGAGC
ATGGGCGCTGGGACACAACTGTGTCCATCATGGTGAAGCAGGAGCAGAGCCCGGAGCTGCCCCGTGGACCCCTCT
GGCTGCCCCCTCGGGCCATGGCTGCCGCGGCCGCAATGGCCACCAGCCCCGCTGCTGGGCCTCAGCCCCCTGTCC
AGGCTGCCCCATCCCCACCAGGCCCGGGAGAGATGACTCAGCTGCCAGTGATCAAAGCAGAGCCTCTGGAGGTG
AACCAGTTCCTCAAAGTGACACCGGAGGACCTGGTGCAGATGCCCTCCGACGCCCCCCCAGCAGCCATGGCAGTGAC
AGCGACGGCTCCAGAGTCCCCGCTCTCTGCCCCCTCCAGCCCTGTGAGGCCATGGCGCGCTCCTCCACGGCC
ATCTCCACCTCCCCACTCCTCACTGCCCTCACAAATTACAGGGGACATCAGGGCCACTGCTCCTGACAGAGGAG
GAGAAGCGGACCCTGATTGCTGAGGGCTACCCCATCCCCACAAAATCCCCCTCACCAGCCGAGGAGAAGGCC
TTGAAGAGAGTCCGGAGGAAAATCAAGAACAAGATCTCAGCCAGGAGAGCCGTCGTAAGAAGAAGGAGTATGTG
GAGTGTCTAGAAAAGAAGGTGGAGACATTTACATCTGAGAACAATGAACTGTGGAAGAAGGTGGAGACCCCTGGAG
AATGCCAACAGGACCCTGCTCCAGCAGCTGCAGAACTCCAGACTCTGGTCACCAACAAGATCTCCAGACCTTAC
AAGATGGCCGCCACCCAGACTGGGACCTGCCTCATGTGCCCTCCCGAAGCCTCCTATTCTACGATGACGGGGCAG
GCTTATGGGAAGATGGCCGCAGCACCCCTGCTGCCCATGGAGCCCCCAGATGGCTGGGAAATCAACCCCGGGGGC
CGGCAGAGCAGCGGCCCGGGACCACCTGCAGCATGATCACCTGGACAGCACCCACGAGACCACCAAGTACCTGA

GTGAGGCCTGGCCTAAAGACGGTGGAAACGGCACACAGCCCCGACTTCTCCCACTCCAAGGAGTGGTTCCACGACA
GGGATCTGGGCCCCAACACCACCATCAAATCTCCTAGGCCATGCCAAGACCCAGGACATAGGACGGACCCCTGG
TACCCAGAAGAGGAGTTCTTGCTCACTAACCCGGATCCGCCTCGTGCCCTGCTCCTGGAGCTTCCCATTCAG
GAGAAAAGGCTCCACTTCCAGCCCTTCCTTGCCCTGACATTTGGACTCTTCCCTTGGGCCGACCACTCTGTT
TCATTCTCCTTCCACCAACATCCATCCGTCTTCTCAGACAAACCACTCACTGGGTACCCCACTCCTCTCTCA
TATGCCCCAACACGACCACTGCCTCCCTGCCCCACACCTGCACCCAAACAGACACATCAACGCACCCCACTCACA
GACACCCCTTACCCACCCCCACTGTACAGAGACCAAGAACAGAAATTGTTTGTAATAATGAACCTTATTTTTT
ATTATTGCCAATCCCCTAAGATATTGTATTTACAAATCTCCCTCTTCCCTTCGCCCCCTCCCTTGTTTTATATT
TATGAAGTTAGTGGGGCTTTGCTGCTCCCTGGCCAGGAAAGAGGGACTCCCTGACCCCTACCTGGCACCCCC
TGCTGCTGCCCAAGCCGCTGGGCCTTTTTAATTGCCAACTGCTCTCTTCATCAGCTCAGCACATGCTTTAAGAA
AGCAAAACTAAAAAAAAAAAAAAAAAGAGGCAGCATC

3695/5332
FIGURE 3224A

AGGACTCTCTTAGCCTCCACCCATGTGAACCATAATATCTATATTACGGAGGTGAAGACTGGCAAGTGTGTTTCAT
TCCCTGATTGGAACCGCCGTACTCCATGGTGTGTCACTTTTCATCCCACCATCTCAGGCCTTATTGCTTCTGGC
TGCCTAGATGGGGAGGTTAGGATTGGGATTTACACGGTGGCAGTGAAAGCTGGTTCACAGATAGCAACAATGCC
ATTGCCTCCCTGGCTTTCCACCCTACGGCTCAGCTCCTGCTGATTGCCACTGCCAATGAGATCCACTTCTGGGAC
TGGAGTCGACGGGAACCCCTTTGCTGTGGTGAAGACAGCTAGTGAGATGGAAACGGGTCCGTCTGGTGAGATTGAT
CCACTTGGACACTACTTACTCACAGCAATTGTTAACCCCTCTAATCAACAGGGTGATGACGAACCAGAGATCCCC
ATAGATGGAACAGAATTATCCCCTACCGTACGGTGCCTCTCTGCAATCACAGCCAGTTCGCCGGGACGCCCTCTC
CTCCACAATTTCTGCACATGCTGTCTCCCGCTCTTCTGGCATCCAGGTGGGAGAGCAAAGCACAGTGCAAGAT
TCTGCTACCCCTCACCCACCGCTCCCGCTCAGCCCTCCACGGAGCGCCCCAGGACTTCGGCTTACATCAGG
CTCCGACAGCGGGTCAGTTACCCACAGCTGAGTGTGCCAGCACCTTGGGATCCTGTGCCTTTGACGCGCTGC
TCTGGCACTCGAGTTCTTCCCTCTTGCCACACCAGGACAGTGTCCCCCTGCTTCTGCCAGAGCTACTACCCCT
TCCTTTTCTTTGTACAGACCGAGCCCTTCCATCCCCGGAGCAGCCCTCGTCAACGCAGCAGGACCAGGGCCCTC
CTGAACCGGCGCTCTGCCTTCAGTACAGTCCAGAGCAGCACTGCCGGCAACACGCTCCGCAACCTCAGTCTGGGT
CCTACCCGCGCTCTTTGGGAGGGCTCTGTCTAGCCACCTTCTAGGTATCACCGAGAAATAGCTCCTGGGTTG
ACAGGATCTGAGTGGACCCGGACAGTACTCAGTCTGAACTCCCGCTCTGAGGCGGAATCCATGCCCGGCCGAGA
ACCAGTGCCTCTTCGGTGAGTTTGCTGTCTGTGCTGAGACAGCAGGAAGGTGGCTCTCAGGCATCTGTGTACACT
TCAGCCACAGAAGGGAGGGGTTTTCCGGCATCAGGGTTGGCAACTGAGTCAGATGGAGGGAATGGCTCCAGCCAA
AACAACCTCAGGCAGCATTGCCATGAGCTTCAGTGTGACCTGAGACGCTTCTTCTGGAGTATGACCGGCTTCAG
GAGCTGGATCAGAGCCTGAGTGGGGAAGCTCCCCAGACCCAACAGGCCCAGGAAATGCTCAACAATAACATTGAA
TCTGAGAGGCCAGGCCCTTCCACCAGCCCCACCCACACAGCAGTGAGAACAACTCCAACCTGTCCCGTGGCCAC
CTGAATCGCTGCTGCTTGCACAACTCTCCTGACCTTCAACAACGATACCTTGGCTGGGAAAGAACACACCT
AACTACTCCTCTGGCGAGGCTAGTTCTCTTGGCAGGTCCCCAGCTCCTTTGAGAGTGTGCCATCAAGTGGCAGC
CAGTTGCCACCTCTCGAGCGGACTGAGGGCCAAACGCCCAGCTCCAGCAGGCTGGAGTTGAGCAGCTCTGCTAGT
CCGCAGGAGGAGAGGACTGTGGGGGTGGCCTTTAACCAGGAGACAGGCCACTGGGAAAGAATTTACACCCAGTCC
AGCAGATCTGGAACCTGTGTACAGGAGGCCTTACATCAGGATATGCCTGAGGAGAGCTCTGAGGAGGATTCACTC
AGGAGGAGGCTGTGGAATCTTCCCTCATTTTCAATTATCCCGTTATGATGGAGCAGGATCCAGAGAGCACCCAATT
TACCCAGACCCAGCGAGGGACAATGGTGACAGATCCAGGCACCGAGCTCCACGCAATGCCCGGATGTCTGCACCT
TCGCTTGACGCTTTGTCCCAAGGCGTTTCTTGTGCTGCTGAGTACTTGCTTATGCTGGGATTTTTCATGAACGT
GGACAGCCTGGCTTGGCTACTCACTCTTCTGTTAACAGGGCTCTGGCAGGGGAGTATCGGTGATGGACAGTCT
GCTGTGGCCAGCTAACATTGCCAATACTACTACCTACCGGCTCCAGTGGTGGGACTTCACTAAGTTTGACCTCCCTGAA
ATCAGTAATGCTTCCGTGAATGTCTGGTGCAGAACTGCAAGATCTACAATGATGCCAGCTGTGACATTTCTGCA
GATGGCCAGCTCCTGGCAGCTTTCATCCCCAGCAGCCAGAGGGGCTTTCTGATGAAGGCATCCTGGCAGTGTAC
TCCCTGGCCCCCATAACCTGGGCGAAATGCTCTACACCAAGCGATTGGTCCCAATGCCATTTCCGTGAGCCTG
TCCCCAATGGGCAGATATGTAATGGTGGGCTTGGCCTCACGAAGGATCCTGCTGCACCCCTCCACAGAGCACATG
GTGGCCAGGTCTTCAGGCTGCAACAGGCCCCATGGTGGAGAGACCTCCATGAGGAGAGTTTTCAACGTCCTTTAT
CCCATGCCTGCCGACCAGCGGAGACATGTCACTATCAACTCTGCCCGTTGGCTGCCTGAGCCAGGGCTTGGCTTG
GCCTATGGTACTAACAAGGAGACCTGGTGATCTGCCGACCAGAGGCCTTAACTCTGGTGTGAGTACTACTGG
GACCAGCTGAACGAGACGGTCTTCACTGTCCATTCCAACAGCAGGAGCAGCGAGCGGCCTGGAACCAGCAGAGCC
ACATGGAGGACAGACAGAGACATGGGGCTGATGAATGCCATTGGGCTTCAGCCCCGGAACCTGCCACCTCAGTG
ACATCTCAGGGCACCCAGACTCTGGCCCTTCAGCTGCAGAATGCCGAAACACAGACTGAGAGGGAGGTGCCGGAG
CCAGGGACAGCCGCTCAGGTCTGGTGAAGGTGAGGGTTTCAAGTATGGTGCCAGTGGAGAAGATGCGCTCAGC
AGGATCCAGAGGCTGATGGCGGAGGGCGGCATGACAGCCGTGGTGCAGCGGAGCAGAGCACCACCATGGCCTCC
ATGGGCGGCTTCGGCAACAACATCATCGTCAGCCACCGCATTCACCGCAGCTCTCAGACGGGCACTGAACCTGGT
GCCGCCACACCTCCTACCCAGCCCTCCACCTCTCGGGGACTGCTCCAGAGGGCCGGGCAACTGGCAGAGCGA
GGCCTAAGCCCCCGGACAGCTTCTGGGACCAGCCTGGTACCCCTGGGCGGGAGCCAAACCAGCCAACCTGCC
TCTTCTCCCTGTCCCCATTCTGTTCCTTCCAGCGCTGAGGGACCAACCTCCACTGCCAGTTGACCAAT
AACAACCACCTTCTGGATGGTGGCAGCAGCAGGGGGACGCTGCAGGCCCTAGGGGAGAACCAGGAACAGGTAG

AGACAAACGTTGCACTGGTGCCTCCCTCGAACCGCCAAGCAGAAACCGGACCTCACAGCTGACTGGGAAGTGA

3696/5332
FIGURE 3224B

CATGTGGAAGAGCTGCTGGCTGCATCAGGGAACAGGAGGAGGAAGAGGGTCAGGGTGGAGAGGAAGATCAGTCAG
TGGGCACAAGACAGTCAAATGGGCAAGGCCTGCCTCGGGGAAC TAGAACCTTCCAGGATCTGGAGCCCGGGAGAG
CCACACTGTGGGCTTAATGTGAATAGAGGAACAAGTGGGTATCTCTGCCAGGCACCCCACTTTCTCCTAGTAACA
TGGGCTCAGGGGACTCAGCCCTGGACAGAGAGCCTCCAGAGAGTGAACAGTCTTCCAGATCTGGGCCAATCATCC
TGGACAGAGGCCCCGCGAGGCAGCTTTGCCCTGTCCACCTGTTGGGTGGGCAGAGCCACCAGGAACCCAGACACCA
CCTCCAACCTCTGAGCCTTCCAGAGCTTCAGCCTCTCTTCGTCGTCTTACCCCACTGAAACCAACAGGGATCGGGC
CAGGCTCCCAGATTCTTGAGGACAGGGACTTCGGCATT TACTAATGGGGGACTACTGTGGGGTAAGGGGGCGCCT
GCTTGCCTGATACAGGATGGGGTCAAGGGACAGTGGGCAGGTCCTCACTCAGGAGTGGGGGTGTAGGCTGGCCA
GCCCCCAGGGCTTGTCCACCAGTCTTCTCCCCGCAAGGCCCTCAGAGCAGCGCCTGTGGGTGTCAGTATTACCTG
AGCCTAGGCCAAAGCTAGCCCAAGGCTGGGGAAGGGGAGGAGACTCCAGGTCAGAATGTGAGGTCTCAGTCTGTG
ATTTAAGGTGTTGCATGTGGACTCTTAAGTGTACGTGTAGTTTCTAGTGGAGAAATCAAGGCTCTGATCATTTTG
TTTTTAGTATGAAAATGTGATTTCCTTTCTGTTTGTAACTCCTCATAGAAACATTGTGGTGGGAGGAGAGGGGAT
AGTCTACAGCTAATGAGGGAACACCAAAGATCACATCATTAATAATGATGACATGCCCTC

9 8 7 6 5 4 3 2 1

3697/5332
FIGURE 3225

TTTTCATTTAAATATTCTTCTTTTGCTTCTCTTAAGCAGAAGCTGGTCTCTGCTTTTCACCACCTGGAATCCCAG
TCCCAACAGCTGCTCTTCTAACCCTTCCGGCCTAATTGTGGAATAATCGTTTAAATCATTAAAGAGACAGAATCTG
ATGTTGGTAGCTCTGACAGACCTCTCTAGCTTCTTTTCATAAGCCAGGGCTCTTGCCAGCTCCTGCACACAGCCT
GCCAGTTCTCCATCTTAGCACAGTTCCACTTTTCCATAGTAGCCAGAAACATCTGGCTGAAGACAAACAGTTACA
AAGCAGAAGCCAAGGTGATGGGATCTGTTGTACATATGGGGCTGGCAGCTCAAGGAATGTGGTTCTCTGCTGAG
GAGATGTGGTAATCCAGTCAGCCCCCTGGCTGTCTGCCAAGGGTCTCAAGGCAGCTAGCCAGCAGCTGCATGCTT
GGTGACTGGAGCTACTACTACTGCCAGGCTGCCTGGTGAACCTTTTTTGATTCTCAGTAGGTACCATCTGCCACC
AAGCATAAGAAAGGGAGCTGAAGTACCTAGAAAGTTCCCATTTGGGAAGTGTTCTGTCAACCAAGAGACAGGA
TCAAGGCATCTCAACAAGGTTTAGGTCAACCAAGTGTCACCCAGTCTGACTTTAAACCCCATGCTACAGAAAG
GTTTCTGGTTTTCCAGGTCTTGGTTGCCCTTACGTCCAAAGGCACCAGATCACTCAGCAAATGTCCCTGAATTC
AGTGATTGGTGAAGGGAAGACACCAGCTTTTTTGGATAGCTGTGCTGTATCACCGTTTAAAGCAAGAAGTGAAT
TTTTGTCTGAGAACAGGGAGCAAGGGTTTAAATGGGACAGTACAGCATCTCCCTCTTTGCACAGGTAAGTATAGGT
GGGTGTCTCCATCTCTAATGTCAAGCTCTGACCATAAAGGAATGCTTTAGTGGGTAATGGGCCTGTCTAGAGCT
TTGCTACCCAGAATCCCCTTCTGTCTGGTGTTACCTCTTGGAATTCAGTGTGGTAATGTTTCAGAGAGGCAAATG
TGTTGGGCCAACAGACATTCCCAGGAGAATCCTCCAGAGCATTGATTTATTTTAAAGATGGCACTAAGTGACAT
CTCTCCCCAAGAGATGATCTCTGACACAATCCCATATGAAAACCTCTCTGAAAATGAATTGCTAATTGCTATTAG
CCTTGATGCACTTACTCTAAGCAGTTCTTCAGACTTCTGGATCAGTGCTTCTCAAACGTGGTTCTTGGACAACCT
TACAGTAGAACTACATGGGTCCCTTATTTAAATACAGATCCATTTTACAGCTAAATCAGAATAAGAATGGGAGTC
AGAGGGACCCAGGATTAGTATTTTTTAAACAAGATTTCTTCATTTTAGGTGTCTGCCCTCAGCCTCCTCAGCAAG
GCAGAGTCAGTCTCAGGTCTACTTGCCATTGTGGTTTTGTGCATGGTGCTTTGATTCTTTGCTAATTATGTTGCA
GGCAGAGTGGTGTTTTGTCTTCTGTTTCTTACCAAACCTCAGCTTTTTTGGCTGTCTGCGCCTCACCTCCCCTCTT
TCTAGGCTGTTGCTGCTTTCCAGGTTTCTCCCTTGAATAGCTGTATGTGCTGGAGTCTTTTCTTTATGTTGAATC
ATTTTAATTTTTGTCTTATTTCTAGGATCTAGGGTCTTTTGATCTTTCCCTTCTCTGTTTATCGTGCTAGTCC
TCCAGTTTTAATGATGGGTAAGTCAGGAAAGTAAGACTGGGCACATATTTTCTCTCTCCCTCCCCTGCTCCAT
TTGCGATTCTCCAGATTGGATATGCTACTCTATGACTCAGAACTTATTTTCTGTCTGATTCCCTTCTGCTT
GAGCCAGAGAGGGGCTTTTGTTAATTTTTGTTTTGTTTTTAGGTAAAGCTTTTAGAGACTGCTGAGCTGAAGTTT
TGCTGAATTCTCAAAACACTAAACTGCCTGTGTCCCTCTCGGCTTTCATTTTCTAATTGGAACCAGGCACAGTA
TTGTAACAGAGAAGCTGCAATTAATTTTCTAAATAGTGGCAACTTGCACAGTATAATAACTTTGGTTGTAACCAA
GTGAAAGCATAATAACAAAAATACAAAATTACTGATGAAACCAGAAAGAGTCATATACCACATTCTTCCTTTAGT
TTGTATCTCAGTAAGTGCTGTGTTACTTAGGAATAGGGGCAGAAAGCCTGCAACTGGGCAGGGAGGTTTCAGGGACA
TGAGGACGAAGCTAGGGCATTTTGAGCTAGAAAGCAAGAATAAGGATTAGTGCTTTCAACACTGGAATTAACATG
GACCACCCCCCACCCTCCAATAAGTGGGGATTGTAGGCACATAAGTGGTTTAGTAAGAAGTGGAAGGTTTTT
CTGTGGAGTTTCAGTTCCATCGGCTCCCATCCGGGCTATCCTGCCACCTTAGCGGCTGCTCCTCCCCAGGATGCG
GGCAGGGGGCCTCTCTCCACTCCCCACACACCGATTCTGAGTAGCGATAGGGGCTGGAGGCTTATTTTATGGG
GTAGGGGGCCGCTGTGAGGCGAAGATTGTCCGAGGGAGAGGGGGAGGATGAAGCCAGTGCGTGCGGAGACCTGC
CAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACCTCTTTTTAAGGAGGGAGTCATGGTGGCCAAG
AAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTATGAAGGCCATG
CAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCAATGAG
GGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGAGATTGTGCTGCCATCCTACGCCGTAGCCGTCCA
GAGACTGGCAGGCCCTCGGCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGA
GATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAA
TTCCAGTTTAGAGGCGGATTTGGTCTGTGGACGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATTCTTTTGATT
GAATAAACTTATAGCCAAAAACCTT

3698/5332
FIGURE 3226

ATGGCCAACTTCACACCTGTCAATGGCAGCTCGGGCAATCAGTCCGTGCGCCTGGTCACGTCATCATCCCACAAT
CGCTATGAGACGGTGGAAATGGTCTTCATTGCCACAGTGACAGGCTCCCTGAGCCTGGTGACTGTCGTGGGCAAC
ATCCTGGTGATGCTGTCCATCAAGGTCAACAGGCAGCTGCAGACAGTCAACAATACTTCTCTTCAGCCTGGCG
TGIGCTGATCTCATCATAGGCGCCTTCTCCATGAACCTCTACACCGTGACATCATCAAGGGCTACTGGCCCCTG
GGCGCCGTGGTCTGCGACCTGTGGCTGGCCCTGGACTACGTGGTGAGCAACGCCTCCGTTCATGAACCTTCTCATC
ATCAGCTTTGACCGCTACTTCTGCGTCACCAAGCCTCTCACCTACCCTGCCCCGGCGCACCACCAAGATGGCAGGC
CTCATGATTGCTGCTGCCTGGGTACTGTCTTCGTGCTCTGGGCGCCTGCCATCTTGTTCTGGCAGTTTGTGGTG
GGTAAGCGGACGGTGCCCGACAACCAGTGCTTCATCCAGTTCTGTCCAACCCAGCAGTGACCTTTGGCACAGCC
ATTGCTGCCTTCTACCTGCCTGTGGTCATCATGACGGTGCTGTACATCCACATCTCCCTGGCCAGTCGCAGCCGA
GTCCACAAGCACCGGCCCGAGGGCCCGAAGGAGAAGAAAGCCAAGACGCTGGCCTTCTCAAGAGCCCACTAATG
AAGCAGAGCGTCAAGAAGCCCCCGGGGAGGCCCGGGGAGGAGCTGCGCAATGGCAAGCTGGAGGAGGCC
CCCCGCCAGCGCTGCCACCGCCACCGCGCCCGTGGCTGATAAGGACACTTCCAATGAGTCCAGCTCAGGCAGT
GCCACCCAGAACACCAAGGAACGCCCAGCCACAGAGCTGTCCACCACAGAGGCCACCACGCCCGCCATGCCCGCC
CCTCCCCTGACGCCGCGGGCCCTCAACCCAGCCTCCAGATGGTCCAAGATCCAGATTGTGACGAAGCAGACAGGC
AATGAGTGTGTGACAGCCATTGAGATTGTGCCTGCCACGCCGGCTGGCATGCGCCCTGCGGCCAACGTGGCCCCGC
AAGTTCGCCAGCATCGCTCGCAACCAGGTGCGCAAGAAGCGGCAGATGGCGGCCCGGGAGCGCAAAGTGACACGA
ACGATCTTTGCCATTCTGCTAGCCTTCATCCTCACCTGGACGCCCTACAACGTCATGGTCTGGTGAACACCTTC
TGCCAGAGCTGCATCCCTGACACGGTGTGGTCCATTGGCTACTGGCTCTGCTACGTCAACAGCACCATCAACCTT
GCCTGCTATGCTCTGTGCAACGCCACCTTTAAAAGACCTTCCGGCACCTGCTGCTGTGCCAGTATCGGAACATC
GGCACTGCCAGGTAG

3699/5332
FIGURE 3227

GCGAAGCAGCGCGGGCAGCGAGATGCAGCACCGAGGCTTCCTCCTCCTCACCCCTCCTCGCCCTGCTGGCGCTCAC
CTCCGCGGTGCGCAAAAAGAAAGATAAGGTGAAGAAGGGCGGCCCGGGGAGCGAGTGCGCTGAGTGGGCCTGGGG
GCCCTGCACCCCCAGCAGCAAGGATTGCGGCGTGGGTTTCCGCGAGGGCACCTGCGGGGCCAGACCCAGCGCAT
CCGGTGCAGGGTGCCCTGCAACTGGAAGAAGGAGTTTGGAGCCGACTGCAAGTACAAGTTTAAAAAATGGGGTGA
AGTGATGAGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCCTGAAGAAGGCGCGCTACAATGCTCAGTGCCAGG
AGACCATCCGGGTCCCCCAGCCCTGCACCCCCAAGACCAAAGCAAAGGCCAAAGCCAAGAAAGGGAAGGGAAAGG
ACTAGACGCCAAGCCTGGATGCCAAGGAGCCCCCTGGTGTCACATGGGGCCTGGCCCCACGCCCTCCCTCTCCCAGG
CCCGAGATGTGACCCACCAGTGCCCTTCTGTCTGCTCGTTAGCTTTAATCAATCATGCCCTGCCTTGTCCCTCTCA
CTCCCCAGCCCCACCCCTAAGTGCCCAAAGTGGGGAGGGACAAGGGATTCTGGGAAGCTTGAGCCTCCCCCAAAG
CAATGTGAGTCCCAGAGCCCGCTTTTGTTCCTCCCCACAATTCCATTACTAAGAAACACATCAAATAAACTGACT
TTTCCCCCAATAAAAGCTCTCTTTTTTAATAT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

3700/5332
FIGURE 3228

GCGGCGCGGAGCGGGCGTGCTGAACCCCGGCCGCCGCGCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCCGGCCG
 GGGCTAGGGCCGGA**TGG**AGCCGCGGGACGGTAGCCCCGAGGCCCGGAGCAGCGACTCCGAGTCGGCTTCCGCCCTC
 GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGCGGACTCAACAAGCGCGCTTCCC
 GGGGTGCGGCTCTTCGGGCGACAGGAAAGCCATCACCAAGTCGGGCTCCAGCACCTGGCCCCCTCCGCCAC
 CCTGGGGCCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACATATGG
 GGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGAT
 GCTGAAGTCAGTGTCTCGAAGAAAGTGGCAGCCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGA
 GAAGATAAATTTCCGCTGTAAGCCGTCTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACG
 GCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTGGCACTGTGGGAAGGGATTCCAGCAGAAGTTTAC
 CTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGCAGCAGGCATACCACAGCAAGGTGTCTGTCTT
 CATGTGTCAGCAGATCGAGGAGCCGTGCTCGCTGGGGTCCACGCAGCCGTGGTTCATCCCGCCACCTGGATCCT
 CCGCGCCCGGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCTAG
 CAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCACCCCCCTCCCGCTCATGAAGCCCT
 GCTGGTGTGTTGTGAACCCCAAGAGTGGGGGCAACCAAGGTGCAAGATCATCCAGTCTTTCCTCTGGTATCTCAA
 TCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCT
 GCGGATCCTGGCGTGCGGGGGCGACGGCACGGTGGGTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAAGCC
 GCCACCCCTGTTGCCATCCTGCCCCTGGGTACTGGCAACGACTTGGCCGAACCCCTCAACTGGGGTGGGGGCTA
 CACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCGCTGGGACCT
 CCACGCTGAGCCCAACCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCTGGATGT
 CTTCAACAATACTTACGCTGGGCTTTGACGCCCCACGTACCCTGGAGTTCACGAGTCTCGAGAGGCCAACC
 AGAGAAATTCAACAGCCGCTTTTCGAATAAGATGTTCTATGCCGGGACAGCTTTCTCTGACTTCTGATGGGCAG
 CTCCAAGGACCTGGCCAAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCTGAA
 ACCCCAGTGTGTTGTTTTCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGGGGCCACCCTGGGGAGCA
 CCACGACTTTGAGCCCCAGCGGCATGACGACGGCTACCTCGAGGTCAATGGCTTCACCATGACGTCGTTGGCCGC
 GCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGAGTGTGCGAGGTGGTGTCTACCACATCCAAGGCCATCCC
 GGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGACGCTCACGCATCCGCATCGCCCTGCGCAACCAAGGCCACCAT
 GGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCTGACAGCGACAGCAGCCGGTGCCAGAGCAGTTGCGCAT
 CCAGGTGAGTCGCGTCAGCATGCACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTCTGT
 GCCGCTGGGCACTGTGGTGGTCCCAGGAGACAGTGACCTAGAGCTTGCCGCTGCCACATTGAGAGACTCCAGCA
 GGAGCCCAGTGGTGTGGAGCCAAGTCCCCGACATGCCAGAACTGTCCCCAAGTGGTGTCTCTGGACGCCAC
 CACTGCCAGCCGCTTCTACAGGATCGACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGATGA
 GATTTATATCTGGACCCTGAGCTGCTGGGGGCATCGGCCGGCCTGACCTCCCAACCCCCACTTCCCCTCTCCC
 CACCTCACCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGATTGA
 GGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACCTCATGCACCGAGACGA
 GCAGATGCGACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCACGC
 CCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTTGACCAAGCAGCGGCCCTGGGCCAGCG
 CACCATCTGCCACTACATCGTGGAGGCCGGGGCCTCGCTCATGAAGACAGACCAGCAGGGCGACACTCCCCGGCA
 GCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCAGGAGCACTACCAGATGATCCAGCG
 GGAGGACCAGGAGACGGCTGTG**TAG**CGGGCCGCCACGGGAGCAGGAGGGACAATGCGGCCAGGGGACGAGCGC
 CTTCTTGCCACCTCACTGCCACATTCCAGTGGGACGGCCACGGGGGACCTAGGCCCCAGGGAAAGAGCCCCA
 TGCCGCCCCCTAAGGAGCCGCCAGACCTAGGGCTGGACTCAGGAGCTGGGGGGCCTCACCTGTTCCTTGAGG
 ACCCGCCCGGACCCGAGGCTCACAGGGAACAAGACACGGCTGGGTGGATATGCCTTTGCCGGGGTTCTGGGGC
 AGGGCGCTCCCTGGCCGACGAGATGCCCTCCAGGAGTGGAGGGGCTGGAGAGGGGAGGCTTCGGGAAGAGG
 CTTCTGGGGCCCCCTGGTCTTCGGCCGGTCCCGAGCCCCGCTCTGCCCCACCCACCTCTCCGGGCTTCCT
 CCGGAAACTCAGCCCTGCTGCACTTGCTGCTGCTGCTGCTTGGCACCCGCTCCGGCGACCTCCCGCTCC
 CTGTCTATTTATCGCGGACTGTGCGGCTGGGGTGGGGGGCGGGACTCTCACGGTGACATGTTTACAGCTGGG
 TGTGACTCAGTAAAGTGGATTTTTTTTCTTT

3701/5332
FIGURE 3229A

GAAGAAGTCCCGGGCGGTACCCGGCCGTAGGCCATCCTGCAACTCTCTCCGCCGGGTCTCGGGGCAGCACGCC
GGGCCGGGACCCGGAGCCGGAACCCGACACTGAGCCGGACTCAACCGCGCGGTCCCCAGCCAGCCCCGCCCGTC
GGCGGCGACGACCACCACCACCGCGGTGACTGCCGCCGCGGCTCGGACGACTCGCCTTCAGAAGATGAACAGGA
AGCGGTGCAGGAGGTTCTAGAGTTGTTTCAATCCTCCAAAACCAGTCAATGACCACTAGACCCACAGCTGTTAA
AGCAACAGGCGGTCTATGCTTGCTTGGTGCTTATGCTGACAGTGATGACGATGACAATGATGTTTCCGAAAACT
AGCACAATCCAAAGAGACAAATGGAACCAGTCAACTGATATTGATAGTACATTGGCCAACTTCTAGCGGAGAT
CGATGCCATAACAGCTCCTCAGCCTGCAGCTCCTGTAGGAGCTTCTGCTCCACCTCCAACCTCCACCTCGACCAGA
GCCAAAGGAAGCAGCAACATCTACCCTTTCTTCTTCTACTTCAATGGAACAGACTCCACCCAAACATCTGTTG
GCAATATGATACTCAGTGTTCACTGGCAGGAGTCGGAATTGAGATGGGCGATTGGCAGGAAGTCTGGGATGAGAA
CACGGGATGTTATTATTATTGGAATACACAAACAAATGAAGTGACTTGGGAGTTACCCCAATATCTTGCCACACA
GGTACAGGGATTACAGCATTACCAGCCCAGTTCTGTGCCAGGTGCTGAAAAGTGTGTTTGTGGTAAATACAGACAT
ATATTCTAAGGAGAAAACGATTCTGTTTCCAGTAGTAAAAGTGGACCAGTCATAGCCAAGCGAGAAGTTAAAAA
GGAAGTAAATGAAGGAATTACGGCTCTCTCAAATAGTGAGGAGGAGAAGAAAGGGGTGGCAGCATCGCTGCTTGC
TCCTTTATTGCCTGAGGGAATAAAAGAAGAAGAAGAGAGATGGAGAAGAAAAGTAATTTGTAAAGAGGAGCCAGT
TTCAGAAGTAAAAGAAACAAGTACAACAGTAGAAGAAGCAACAACAATAGTAAAGCCACAGGAAATTATGTTGGA
CAATATAGAAGACCCCTTCTCAGGAGGATCTTTGCAGTGTTGTCCAATCTGGAGAAAGTGAGGAGGAAGAGGAACA
AGATACCCCTTGAAGTGGAGCTAGTTTGGAAAAGGAAAGCAGAGTTGCGAGCCTTGGAGGAAGGAGATGGTAG
TGTGTGAGGGTCTAGTCCAGCTTCTGATATCAGCCAGCCAGCAGTCTCAAGATGGAATGCGTAGGCTTATGCTAA
AAGAGGAAAATGGAAGATGTTTGTTCGAGCTACCAGTCCAGAATCTACCAGTAGGAGTTCTAGTAAACTGGACG
AGATACTCCAGAAAATGGAGAACTGCAATTGGTGCTGAAAATTGAGAAAAATAGATGAGAATTCAGATAAAGA
GATGGAAGTAGAAGAATCTCCAGAGAAAATAAAAGTACAGACAACACCAAAAGTAGAAGAAGAACAGGATTTGAA
ATTCAGATTGGAGAACTGGCAAATACCCTGACAAGTAAATTCGAGTTTCTAGGCATTAATAGACAATCCATCTC
CAACTTTTATGTGCTGCTCTTACAGACTGAGACTCGAATTGCAGACTGGCGGGAAGGGGCTCTTAATGGAACCTA
CCTTAAACGAAAACCTCAGGATGCAGCAGAACAACTAAAACAGTATGAAATAAACGCCACTCCTAAAGGCTGGTC
CTGCCACTGGGACAGGGATCATAGACGGTATTTCTATGTAAACGAACAGTCGGGCGAGTCTCAGTGGGAGTTTCC
AGATGGTGAAGAGGAAGAAGAAGAAAGCCAAAGCACAAGAAAATAGAGATGAGACTCTTGCCAAACAGACCTTGAA
AGACAAAACCTGGCACTGATTCAAATTCACAGAACTCCTCTGAAACTTCCACAGGTTCTCTTTGTAAAGAATCCTT
TTCTGGTCAAGTTTCTTCTTCACTCATGCCACTTACTCCATTCTGGACCCTCCTTCAGTCAAATGTTTCTGT
GCTTCAACCTCCATTACCCTTGGAATGCCACCACCCCACTCCACCTCCAGAATCACCTCCACCCCTCCTCC
ACCACCTCCTCCTGCGGAAGATGGTGAGATCCAGGAGGTAGAGATGGAGGATGAGGGAAGTGAGGAGCCCCCTGC
CCCAGGAACAGAGGAAGATACCCCTTTGAAACCTTCAGCACAAACCACAGTTGTAAC TAGCCAGAGTTTCAAGTTGA
TTCCACCATCTCTAGTTCTTCTTCCACTAAAGGAATAAAGAGGAAAGCTACAGAAATTAGCACTGCAGTGGTTCA
GAGGTGAGTACCATTTGGCAGTTCTCCAGTTCTCTATAGCCAGTCAGCTATAGCTACAGGTACCAGGCAGCAGG
GATTGGAAACCAAGCAACAGGAATTGGACATCAGACAAATACCAAGTTAGCCTTCCAGCAGCAGGAATGGGTCATCA
GGCCAGAGGAATGAGCTTGCAGTCAAATTACCTTGGACTAGCGGCAGCACCTGCAATTATGAGTTATGCAGAATG
TTCTGTCCCAATTGGAGTGACTGCTCCCTCATTGCAGCCAGTTTCAAGCCGAGGTGCTGTGCTTACCGTACCAT
TATAGAACCACCACCACCTCCTCCTNCTCCTCCTCACCACCACCAGCTCCCAAAATGCCACCACCTGAA
AAGACAAAAAAGGAAGGAAAGACAAGGCAAGAGTAAGACCAAAATGCCATCTTTGGTAAAAAAGTGGCAG
AGTATCCAGCGTGAGTTAGATGAAGAGGACAATTCTAGTTCCAGTGAAGAGGATCGGGAATCAACTGCACAGAAG
CGAATTGAAGAGTGGAACAGCAGCAGCTGGTTAGTGGCATGGCAGAGAGAAATGCTAATTTTGAAGCCCTTCT
GAGGATTGGAGAGCAAGGCTGAAGAGAAGGAAAATGGCTCCAAACACATAGTTTTTAAGTTTTTAAACTTTTTT
GTATTATTGTTTGTGTTTGTGTTTCAAGTCTTAACCAAGTTTATTGTCAAATAAACTATAAATGTTATGGG
GGAGATCTTATAAATTTCTGGGCAAGAGTGTATGCATACAAAGTTTCACTTTTGTGAAATGTAATTTTTCTGT
TTTTGCAAAGGGATGAGGTGATTGGAATTGCTTTGACCATGCTGCCCTTATTCTCAAACCTGGCAAACCTTAGCATG
TTAGGTGTATTAACTCATCAGTCTTGAAGAACATGTGGCTCATGAGTATAACACTTCTGTAGAGGACTCCCTGA
CAAAAGTGAAGAATTAACCTTCTCCTCCAGAACAAAGTGCAATTGAGAAGGCAGCTCTGCATTCTACCTTGCTTGAC
TGGAATTGCTGTAAGCTTTTCTGGCCTCTTTCTCTAGTCGGCCACCCCTGAAGTGCTGAGGTCTAAGTGGTTT
ACCTCGTGCTGATAGATGGCCACACTCTTTAGAGTAGTTCTCATAAGTTCTAGAAGTGGTAGCTCGGTGCTTTCG

3702/5332

FIGURE 3229B

CACACTAGGTGGCATAACAGGCAGCAGCAGGTGTTTCATATCCTTGATTTTGAGAATTTCCTCAAGTATGTGGCA
GTAAATACAACAAGACACTCTATGTATTAATGTCTCCATTGTCTTAACCCTGTTCCAAAACAAAATTCACCTCCT
TTCTTTATGTGAATGTATTCTCCATAAAATTCAGTATTTAAAAAGCAGTTTACTGTTCTGTACTTTCTGTTGTA
TCACAATCAGGTAAAAGTCACTTTAAACTGAGGAAACGGCAAATTGTGTTTTAAAGCTCTTTGTATTCTCCAGT
TTCTGACCTTGTAATTTGTATATATGCACTAATAAAGCTTTTTTTAT

3703/5332
FIGURE 3230

GTGATGGAGGATATTTGTAGTAAACTGCAAGAGATTAGGAACCCAATCCATGCAATTGGACTACTTATACGGGAA
ATGGATTATGAAACAGAAGTGGAATGGAAAAGGGATTCAATCCAGCTCAGCCTTTGAATATTCGAATGAATCTT
ACCCAGCTCTATGGTAGTAACACAGCAGGGTATATTGTGTGCAGAGGGGTGCATAAAATCGCCAGTACTCGTTTC
CTGATCTGCAGAGATCTTTTGATCTTACAGCAGCTGTTAATGAGGCTTGGAGATGCTGTGATTGGGGAACCTGGT
CAGCTCTTTCAAGCTCAGCAAGACCTACTACATCGAACAGCTCCCCTACTCTTATCTTATTACCTCATTAAATGG
GGAAGTGAGTGCTTGGCAACTGATGTTCCACTTGACACACTGGAGTCTAATCTCCAACACTTATCAGTACTGGAA
TTAACAGACTCTGGTGCTTTAATGGCAAATAGGTTTGTATCTAGTCCTCAGACTATTGTGGAGTTATTCTTCCAA
GAAGTTGCAAGAAAACACATTATATCTCACCTCTTCTCTCAGCCAAAGGCACCTCTGAGCCAAACTGGATTGAAT
TGGCCTGAAATGATTACTGCAATTACCAGTTATTTATTGCAGCTTTTATGGCCTAGCAATCCTGGTTGTCTCTTT
CTAGAATGTTTGATGGGAAATTGCCAATATGTACAATTGCAGGATTATATTCAACTGCTACATCCCTGGTGTCAA
GTCAATGTTGGTTCCTGTGCGATTTATGCTGGGAAGGTGTTACCTAGTTACAGGAGAAGGACAGAAGGCTCTGGAA
TGTTTTTGTGTCAGGCAGCATCTGAAGTAGGCAAGAGGAATTCCTGGATCGCTTGATTGCTCAGAGGATGGGGAG
ATCGTGTCTACCCCAAGCTGCAGTATTATGACAAGGTTTTACGACTACTAGATGTCATTGGTTTGCCTGAACTG
GTTATTCAGTTGGCTACATCAGCCATACTGAAGCAGGTTGATGAGTACTGGAAAAGTCAGGCTACTCTAAGGACATGT
ATTTTCAAACATCATTGGGATTTGGGTCACAATAGCCAAAGCATATGAAGCCTTAACCCAAATTCCTGATTCCAGC
AGGCAATTAGATTGTTACGGCAGTTGGTGGTAGTTCTTTGTGAACGCTCACAGCTACAGGATCTGTAGAGTTT
CCCTATGTGAATCTGCATAATGAGGTTGTGGGAATAATTGAGTCACGTGCTAGAGCTGTGGACCTTATGACTCAC
AATTACTATGAACCTCTGTATGCCTTTCACATCTATCGCCACAATTACCGCAAGGCTGGCACAGTGATGTTTGAG
TATGGAATGCGGCTTGGCAGAGAAGTTCGAACCTCTCCGGGACTTGAGAAACAAGGCAACTGTTATCTGGCTGCT
CTCAATTGTTTACGACTTATTGCTCCAGAATATGCGTGGATTGTGCAGCCAGTGTCTGGTGCAGTGATGATCGC
CCTGGAGCATCCCTAAGAGGAATCATGATGGAGAATGCACAGCTGCCCCACAAATCGACAAATTGAAATCCTG
GAAGTGAAGATCTGGAGAAAGAGTGTCTTGGCTCGCATCCGCTCACTTTGGCTCAGCATGATCCATCAGCG
GTTGCAGTTGCTGGAAGTTCATCAGCAGAGGAAATGGTCACTCTCTGGTTTCAGGCGGGCTCTTTGACACTGCC
ATATCACTCTGTGAGACTTTTAAGCTTCCCTTAACGCCAGTCTTTGAAGGGCTTGCCTTCAAATGCATCAAATTG
CAATTTGGAGGAGAGGCAGCACAAGCAGAAGCCTGGGCCTGGCTAGCAGCCAATCAGCTCTCATCTGTCACTACT
ACTAAGGAGTCTAGTGCTACAGATGAAGCATGGCGACTATTATCCACTTACCTGGAGAGGTACAAAGTCCAGAAT
AACTTGTATCACCCTGTGTAATCAACAAGCTCTTGTCTCATGGAGTGCTCTGCCTAATTGGCTTATAAACAGT
TACAAGAAGGTTGATGCTGCTGAATTGCTTCGTTTATACTTAACTATGACCTTTTAGAAGAAGCTGTGGATTTG
GTGTCAGAATATGTGGATGCTGTATTGGGAAAAGGACATCAATACTTCGGAATTGAGTTTCCACTGTCCGCAACA
GCCNENCAATGGTGTGGCTTCCATACTCTCTATTGATCAGCTTCTCCAAGCTCTGGGAGAGAACAGTGCCÀACA
GTCACAACATCGCACTGTCCCAGAAAATACTTGACAAATTGGAGGACTACCAGCAAAAAGTTGATAAGGCAACAC
GGGATTTATTATATCGTCCGACCTTGTGATTTGGATTGTACCTAGCCTTTGTAACCGCTTGGTGCCTCTTAGGA
CTTAAGACTACCCTACAGGAACCCTGTACTCAAGGCCGATTTTTGTAACTGTAAATGATGTGTACAACATTCAAG
TCTGCATTCTGCACAAGATAGGAGGGCGGAAGAGTCAGAGGACCTGTGCTTGGTGGTGCTAACACAATTTT
TGGTGTTC AACCTTGGTCTCAAATAGCTGCTTTTGTATATGATTACAGAGCTTTTTTAGAGTTTATATTTTTTTA
AACTACCGAAGACATTCATTATCTGCAAATTAAGACTCACCTTCACCTTTCCAAAATAGCTGAGGGTGTGGCTT
GTTGTAGCTGACCACCAAAGCAGTCACTGCAAATCTTTAATTCTTCCCTATCACCTTTTGTATTTTAAATGCAA
TTATTTTGGTCCAGAACTGACCTGTATTTCTGTATTGTACACAAAAGCTAATAATTTTGTGTACTTTTTATTTA
TTTTGGAGGTTTTATATGATCTTCAATTGAGTATTAAATAATTTGCCTAGATTAAGCCTAAAAATGATGACCAGCT
AATTAAAGAAGATATTTGAATCTGGTCTGAGCTAAAGTTGAGTAAATTCCTAGCTAAGAAAAAATTGGAAATC
CATCATCTATATTAGCAACAGATTCTCAGAGTAAATTGTTAACTTCTATGATTTATGATAATCAAGCTGGACTTG
ATCATACAAGTTAGTCTCATAATGTATTGGACCAAAATGTAACTTCATTGGTCAGATTTAGAAGCATTATGCT
CACAAGTTTTGGGAAAGTGAAAAATAAAAAATCATCTTGGATTTTATTCTGTATATTAATAATTTATCTTTTAAAG
GAAACAATCTGTATACTACTTGCTTGTATAGCCTTTTGAACCTTCTTGAGTTTTTTCAGAAGCCTTTAATTTTTAT
ACTTTCAATACCATATTTACATTATATACTTTAAT

3704/5332
FIGURE 3231

GGTCGCTTGGTGGCTCCGTCTGTCTGTCCGTCCGCCCGCGGGTGCCATCATGGCGGACGCGGCCAGTCAGGTGCT
CCTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACGTGAAAGTGCTCATCCAGGTGGGATATGAGCC
TCTTCCTCCAACAATAGGACGAAATATTTTTGGGCGGCAAGTGTGTGTCAGCTTCCTGGTCTCTTTAGTTATGCTCA
GCACATTGCCAGTATCGATGGGAGGCGCGGGTTGTTACAGGCTTAACTCCAAGACTGTGTTCGGGAGTCCTTGG
AACTGTGGTCCATGGTAAAGTTTTACAGCATTACCAGGAGAGTGACAAGGGTGAGGAGTTAGGACCTGGAAATGT
ACAGAAAGAAGTCTCATCTTCCTTTGACCACGTTATCAAGGAGACAACCTCGAGAGATGATCGCTCGTTCTGCTGC
TACCCTCATCACACATCCCTTCCATGTGATCACTCTGAGATCTATGGTACAGTTCATTGGCAGAGAATCCAAGTA
CTGTGGACTTTGTGATTCCATAATAACCATCTATCGGGAAGAGGGCATTCTAGGATTTTTCGCGGGTCTTGTTCC
TCGCCTTCTAGGTGACATCCTTTCTTTGTGGCTGTGTAACCTCACTGGCCTACCTCGTCAATACCTATGCACTGGA
CAGTGGGGTTTCTACCATGAATGAAATGAAGAGTTATTCTCAAGCTGTACAGGATTTTTTGCAGTATGTTGAC
CTATCCCTTTGTGCTTGTCTCCAATCTTATGGCTGTCAACAACCTGTGGTCTTGCTGGTGGATGCCCTCCTTACTC
CCCAATATATACGTCTTGGATAGACTGTTGGTGATGCTACAAAAAGAGGGGAATATGAGCCGAGGAAATAGCTT
ATTTTTCCGGAAGGTCCCCTTTGGGAAGACTTATTGTTGTGACCTGAAAATGTTAATTGAAGATGTGGGGCAGG
GACAGTGACATTTCTGTAGTCCCAGATGCACAGAATTATGGGAGAGAATGTTGATTTCTATACAGTGTGGCGCGC
TTTTTTAATAATCATTTAATCTTGGGAAAATT

3705/5332
FIGURE 3232

CATCTGAGTAACATGGCGGCGGCGGCGGTAGCCAGGCTGTGGTGGCGCGGGATCTTGGGGGCCTCGGCGCTGACC
AGGGGGACTGGGCGACCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCGCCGGGGCCGACACGCGCCCCACT
GTCAGACCACGGAATGATGTGGCCCAACAAGCAGCTCTCAGCTTTTGGAGAGTATGTGGCTGAAATCTTGCCCAAG
TATGTCCAACAAGTTCAGGTGTCCTGCTTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTG
CTGACTTTCCTCAGGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGGACGTCCCAACT
CGGCAAAACCGTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTCACGGATCCGTGTGAAGACCTAC
ACAGATGAGCTGACGCCCATTGAGTCTGCTGTCTCTGTGTTCAAGGCAGCCAACTGGTATGAAAGGGAGATCTGG
GACATGTTTGGAGTCTTCTTTGCTAACCACCCTGATCTAAGAAGGATCCTGACAGATTATGGCTTCGAGGGACAT
CCTTTCCGAAAGACTTTCCTCTATCTGGCTATGTTGAGTTACGTTATGATGATGAAGTGAAGCGGGTGGTGGCA
GAGCCGGTGGAGTTGGCCCAAGAGTTCCGCAAATTTGACCTGAACAGCCCCCTGGGAGGCTTTCCAGTCTATCGC
CAACCCCGGAGAGTCTCAAGCTTGAAGCCGGAGACAAGAAGCCTGATGCCAAGTAGCTCCAGGGAACGCATGTG
GATCCTAGACAGCGCCTTATCTATGATTGAGTGTCCGTGTAAATAAATTCCTACTTAGACTT

3706/5332
FIGURE 3233

AGCGGAGGTTCCGGGCTCCGGGATGAAAGGAGGGAACGCAGCTGGCAGAGAGAGAAGTTGGCTAGCATGGAATCA
CCAGAGGAGCCTGGAGCATCCATGGATGAGAACTACTTTGTGAACTACACTTTCAAAGATCGGTCACATTCAGGC
CGTGTGGCTCAAGGCATCATGAAACTGTGTCTAGAGGAGGAGCTCTTGCTGATGTCACCATTTCCGTGGAAGGC
CGGGAGTTTCAGCTCCATCGGCTGGTCTCTCAGCTCAGAGCTGCTTCTCCGATCCATGTTCACTTCCAACCTG
AAGGAGGCCCCACAACCGGGTGATTGTGCTGCAGGATGTCAGCGAGTCTGTTTTCCAGCTCCTGGTTGATTATATC
TACCATGGGACTGTGAAACTTCGAGCTGAGGAGTTGCAGGAAATTTATGAGGTGTCAGACATGTATCAGCTGACA
TCTCTCTTTGAGGAATGCTCTCGGTTTTTGGCCCGCACAGTGCAAGTGGGAAACTGCCTTCAGGTGATGTGGCTG
GCAGATCGGCACAGTGATCCTGAGCTCTATACGGCTGCCAAGCACTGTGCCAAGACCCACCTGGCCCAGCTGCAG
AATACAGAGGAATTTCTCCACTTGCCCCACCGCTTACTCACAGATATCATCTCGGATGGAGTTCGGTGTCTCAG
AACCCAACAGAGGCAATAGAAGCCTGGATCAACTTTAATAAAGAGGAAAGAGAGGCTTTTGAGAGTCACTCAGG
ACAAGCTTGAAGGAAATTGGGGAGAATGTGCACATTTACCTGATTGGGAAAGAGTCATCTCGTACCCACTCGTTG
GCTGTGTCCTTGCACTGTGCTGAAGATGACTCCATCAGTGTAAAGTGGCCAAAACAGTTGTGCCACCAGATCACT
GCCGCTTGAAGCATGGTGGAGACTTGTATGTGGTGGGAGGGTCCATCCCACGGCGCATGTGGAAGTGCACAAAT
GCCACCGTTGACTGGGAGTGGTGTGCTCCTTTGCCTCGGGACCGGCTCCAGCACACCCTGGTGTCTGTGCCCGGG
AAAGATGCCATATATTTCACTGGGTGGCAAGACACTGCAAGATACCTCTCCAACGCAGTCATTTATTATCGCGTA
GGTGATAATGTGTGGACAGAGACAACCTCAGCTAGAGGTGGCTGTGTGAGGGGCTGCTGGTGCCAACCTCAACGGG
ATCATCTACTTACTAGGGGGGGAGGAGAATGATCTGGACTTCTTTACCAAACCTTCCCGACTCATCCAGTGCCTT
GACACAGAGACAGACAAATGCCATGTGAAGCCCTATGTGCTGCCCTTTGCAGGCCGCATGCACGCAGCTGTGCAT
AAAGATCTGGTGTTCATCGTGGCTGAAGGGGACTCCCTGGTGTGCTACAATCCCTTGCTAGACAGCTTCAACCCGG
CTTTGCCCTTCCCTGAGGCCTGGAGCTCTGCCCCATCCCTCTGGAAGATTGCCAGCTGTAACGGGAGCATCTATGTC
TTCCGGGACCGATATAAAAAGGGGGATGCCAACACCTACAAGCTTGACCCTGCCACTTCAGCCGTAACCTGTCACA
AGAGGTATTAAGGTGCTGCTTACCAATTTGCAGTTTGTGTTGGCCTAAGGCTGTGGGGAGGGGAGGAGAACTGCT
CACTCCTTTTCCCTCCCCATACAACTCAAAGTCCCTGGGCCCAATTCAAGTTATGTTTTTTTTTGGCACATA
CTAGAAAGGCAGTGCCTCAGCCCTTCCCTGAATCCATGGAGGTGTTCTGTTTGGGGCTTTTTAGACTGCTGCTGC
TCAGCTGGTTGCTTGAAGTACAGTAGGCCAGCCTGTTCTCTGCCATTCCCTAGTCATCCTGTGCCTCACCACAG
CTTGCTTAGAGCAAGCCTTTTTCTCAGACCTTAGGCACAGCCTCTCCTCTTTACCTGATCAATGTTAAATGTAAGC
ACCCCTGATCCCAGGACATAAGGAAAGATGCCCAATTGTACTTTTGTCTATAGCCTGTGAAATGGCTAGTTGAT
CATTTTTCCACAAAGAATTAGGTGTTAAGAGTTTTCTTCAGGCTTTACTTAGGAGAATGGACTAAGCTGAAGGT
GTACTTCACCAGCAAGAGTCAACTCTAGAATTCAAGGATGTTCCCTCTATTGTTTTCTTAGCCATCTGTCAGGAAA
TGTAACCTTGGTTTTATTTTTGGCTTATTCGAAGGGTAAGCCAGAAAATAGAAATGATTATTTCTGATTAAATAG
CAGAAACTTTTTCAATCTCAAATATATAAGGTGCTGCTCTTTTAAAAGCTCTAAGCTAAGTCAAGAGCTAGGAA
CTGTTGATACAAATAAAAGTTTTTGAAGGG

3707/5332
FIGURE 3234

CCGCCCCGGCACCCGCTGCTCTTCTCGCGGGTCCGGACCGCGAGCGCGGGGGCCGACGGGTGCGCGCTGCGCCG
GGCCGGGATGGCGGCCACCGCGCTGCTGGAGGCCGGCCTGGCGCGGGTGTCTTCTACCCGACGCTGCTCTACAC
CCTGTTCCGCGGGAAGGTGCCGGGTGCGGCGCACCGGGACTGGTACCACCGCATCGACCCACCGTGCTGCTGGG
CGCGCTGCCGTTGCGGAGCTTGACGCGCCAGCTGGTACAGGACGAGAACGTGCGCGGGGTGATCACCATGAACGA
GGAGTACGAGACGAGGTTCTGTGCAACTCTTCACAGGAGTGGAAGAGACTAGGAGTCGAGCAGCTGCGGCTCAG
CACAGTAGACATGACTGGGATCCCCACCTTGGACAACCTCCAGAAGGGAGTCCAATTTGCTCTCAAGTACCAGTC
GCTGGGCCAGTGTGTTACGTGCATTGTAAGGCTGGGCGCTCCAGGAGTGCCACTATGGTGGCAGCATACCTGAT
TCAGGTGCACAAATGGAGTCCAGAGGAGGCTGTAAGAGCCATCGCCAAGATCCGGTCATACATCCACATCAGGCC
TGGCCAGCTGGATGTTCTTAAAGAGTTCACAAGCAGATTACTGACGGGCAACAAAGGATGGGACTTTTGTTCAT
TTCAAAGACATGATGTATGGGGATTAGAAAGAACTCAAGACACTCCTGCTTGATACAGAACAAAAAGAGCTTAAC
AGGACCAACAGGGCTTAAGCCCAGACTTGACGTAACAGAAATGTGCCAATAGGTAATAGGTAATTTTCTTTCTC
TGACTTGTTTTGTTTTCTTGAAATAACACTGTTGTGTGGCTAGAAAAGGAAAAGATTTAGTGTGGCTTGTATTTCAT
GGGATACAGGACAGGGATGGGGCTATCATCTTTTCTTGAAATAGGGCTAAAAGAAGTATTTTAACAAAAATCTATTA
TGTACCTAATATTGTGCCCTAATAATATTTAGCACCACAACCTCAAAAAACATTTAGCACTTGAAAAAAGGAGACTC
ACCTCTGGCTCTTTGCCACTGTGAGAATCTGAATCTCACTGGCCCTGTGGAGTAGGGATCCTATCTGGAGAAGTG
GGAGCATGGGCTGCAGTCAGGACTGCTGCAGACTGAGCCATGTGATGGTACGTAATGAGTTCCTTGAGGGAATG
AAACACCCTCACCCCTTCAAAGTCACCCCTTTGGAATTCAACACAGACACACATATCCCTTCAAAAACTTTTATT
TGTATCAACAGTTCTTAGCTCTTGACTTAGCTTAGAGCTTTTAAAAGAGCAGACACCTTATATATTTGAGATTGA
AAAAGTTTCTGCTATTAATCAGAAATAATCATTCTATTTTCTGGCTTACCCCTTGGAATAAGCCAAAAATAAAA
CCAAAGTTACATTTCTGACAGATGGCTAAGAAAACAATAGAAGGAACATCCTGAATTCTAGAGTTGACTCTTGC
TGGTGAAGTACACCTTCAGCTTAGTCCATTCTCCTAAGTAAAGCCTGAAGGAAAACCTTAAACACCTAATCTTT
GTGGAAAAATGATCAACTAGCCATTTACAGGCTATAGAACAAAAGTACAATTGGGCATCTTTCCTTATGTCCTG
GGATCAGGGGTGCTTACATTTAACATTGATCAGGTAAAGAGGAGAGGCTGTGCCTAAGGTCTGAGAAAAGGCTTG
CTCTAAGCAAGCTGTGGTGAGGCACAGGATGACTAGGGAATGGCAGAGAACAGGCTGGCCTACTGTCAAGTCAAG
CAACCAGCTGAGCAGCAGCAGTCTAAAAAGCCCCAACAGAACACCTCCATGGATTCAGGGAAGGGCTGAGGCAC
TGCTTTCTAGTATGTGCCAAAAAAAACATAACTCTGAATTGGGGCCAGGGGACTTTGAGTTGTATGGGGAGG
GAAAAGGAGTGAGCAGTTCTCCTCCCTCCCCACAGCCTTAGGCCAACACAACTGCAAATTGGTAAGCAGCACC
TTAATACCTCTTTGTGACAGTTACGGCTGAAGTGGCAGGGTCAAGCTTGTAGGTGTTGGCATCCCCCTTTTATAT
CGGTCCCGGAAGACATAGATGCTCCCGTTACAGCTGGCAATCTTCAGAGGGATGGGGCAGAGCTCCAGGCCTCA
GGAAGGCAAAGCCGGGTGAAGCTGTCTAGCAAGGGATTGTAGCACACCAGGGAGTCCCCCTCAGCCACGATGAAC
ACCAGATCTTTATGCACAGCTGCGTGATGCGGCCTGCAAGGGCAGCACATAGGGCTTCACATGGCATTGTCT
GTCTCTGTGTCAAAGCACTGGATGAGTCGGGAAGGTTTGGTAAAGAAGTCCAGATCATTCTCCTCCCCCTTAGT
AAGTAGATGATCCCGTTGAGGTTGGCACCAGCAGCCCCTGACACAGCCACCTCTAGCTGAGTTGTCTCTGTCCAC
ACATTATCACCTACGCGATAATAAATGACTGCGTTGGAGAGGGT

GCTCAAAGAAAATGTAACGGCACCCTGGACCACCCAGACCAACCAGATCTTGTATGCTATCAAGATGTTTGTGGGCC
 AGGTTC AAGGACCTGGTCTGAAAAGGACTTGC GGGA ACTCTTCGAACAGTATGGTGCTGTGTATGAAATCAACG
 TCCTAAGGGATAGGAGCCAAAACCCGCCTCAGAGCAAAGGGTGCTGTTTTGTACATTTTACACCCGTAAAGCTG
 CATTAGAAGCTCAGAATGCTCTTCAACATGAAAGTCCTCCAGGGATGCATCACCTATACAGATGAAACCTG
 CTGACAGTGAGAAGAACATGCAGTGAAGACAGGAAGCTGTTTATTGGTATGATTTCCAAGAAGTGCACTGAA
 ATGACATCCGAGTCATGTTCTCTTCGTTTGGACAGATTGAAGAATGCCGGATATTGCGGGGACCTGATGGCCTGA
 GCCGAGGTTGTGCATTTGTGACTTTTACAACAAGAGCCATGGCACAGACGGCTATCAAGGCAATGCACCAAGCAC
 AGACCATGGAGGGTTGCTCATCACCCATGGTGGTAAAATTGCTGATACACAGAAGGACAAAGAACAGAAGAGAA
 TGGCCCAGCAGCTCCAGCAGCAGATGCAGCAAATCAGCGCCATCTGTGTGGGAAACCTTGCTGGTCTAAATACT
 CTTGGACCCCAAGTATTTAGCACTCTTTCAGCAGACTGCCCTCTCTGGGAACCTCAACACCTGAGCAGCCTCCAC
 CCAATGGGAGGGTTGAATGCAATGCAGTTACAGAATTTGGCTGCATAGCTGCTGCAGCTAGTGCAGCTCAGAAC
 ACCAAGTGGTACCAATGCTCTCACTACATCCAGCAGTCCCTCAGCGTGTCTACTAGTTTCAGGGTCTCTACCT
 AGCTCTAGCAGCAGTAATTCTGTCAACCCCATAGCCTCACTTGGAGCCCTGCAGACATTAGCTGGAGCAACGGCT
 GGCTCTAATGTTGGCTCTTTGGCAGGAATGGCTGCTTTAAATGGTGGCTGGGCAGCAGTGGCTTTTCCAATGGC
 ACCGGGAGCACCATGGAGGCCCTCACTCAGGCCTACTCGGGTATCCAGCAATATGCTGCTGCTGCGCTCCCCACT
 CTGTACAACCAGAATCTCTGACACAGCAGAGTATTGGTGTCTGCTGGAAGCCAGAAGGAAGGTCCAGAGGGAGCC
 AACCTGTTCACTACCACCTGCCCCAGGAGTTTGGTGATCAGGACCTGCTGCAGATGTTTATGCCCTTTGGGAAT
 GTCGTGTCTGCCAAGGTTTTCATAGACAAGCAGACAAACCTGAGCAAGTGTTTTGGTTTTGTAAGTTACGACAAT
 CCTGTTTTCGGCCCAAGCTGCCATCCAGTCCATGAACGGCTTTCAGATTGGCATGAAGCGGCTTAAAGTGCACT
 AAACGTTTGAAGAATGACAGCAAGCCCTACTGAGCGTGCTCCCTCTGAGACTGGAGTGAGAGGGTCTTCTGATT
 CCTGCCGTTTTGTTTATCGTTGTGCTTAAAGCATGTGCATGTGGCGTCAAGTACATCGTCCAAATCCCTGTCTCTT
 CAGCTTCTCTGATGCTTGAACCTCTCACCTTTGACCTTGTGTTGACCTTTGATGCTGATGTGTATTTTTATTATGT
 TTGTTTCTTTCTTCGTTTTTTTTTCTTTTTTCTTTCCTTTTTTTTTCTTTTGTGCTGCCAAATGGTTTTGCT
 AGAACGACTGCTGAAGGGGAAATATTTAAACTTGCATTGTAATATAAAAAAATCTATTTTTCTAGAACCTCATA
 AGATAACCACTGATTGTTTTGTGATACCTAATCTTTGTAATTGTCTTCAGAGCAGCCCTACTAGCACATACCGCTG
 GTGTTTGTATTTCTGTGAACAGCAGCCAGTCCGTTTTCTAGGCTTTGTTTTCTGTGTGCTTAGTTTTAAAGACA
 ACTTTGAAGTAACCAATGAAATAAAAGATGTCACT

3709/5332
FIGURE 3236

TAAAGTGCAGCTCAAACGTTTGAAGAATGACAGCAAGCCCTACTGAGCGTGCTCCCCCTCTGAGACTGGAGTGAGA
GGGTCTTCTGGTAAGTGGGGGAGGAGCACCCCTTAATGATTGAAGCCCTGAGGCTGTGTGTTGACAGCCCTGGAC
CCTGATCCCTGCCACTCTCGCAGGCACAGCTTGCCCTGAAGACTCGGCTACTGCCTTCTGTGGGAGTTTCGCTTC
GTACAGAGGACAAGTTTGTGCTTTGGTTTCCAGTGTTTTACTTTGGAGTTTAGGTGCCATATCCTGAGGTTTTTT
TTGTTTTTGTTTTTGTCTCTCTTTATTTAAAGTTTGCTGTGTTTGTAAACCAGTGTGTGTTGAGAAGGACCAACA
CCAAACCACCTTGGGGAAGGGGGACAGGGAAACATTTAACACAGACGATGATCAGGATTTGCCCAAACCACCCC
AAGAGAGAGGACTGAGTGGAACAAAAAAGTGACCCCAAGAACCTCTCTTAGTGTGAGGGTGGGTAGAATGAGAAC
TGACACCTGGGAGCTGTGGGGAGCAGAGCGGCTTTGGGGAAGAGTGGAGTGACTAGACACCTAATGCCTTGGCAG
CTGGAGACTCAAACCTCTGTACAGCTACCTTCTGGGAAATAGTTTTTGACACCTATTTTTCAGATTCTTGTCGG
AATTTCTGCTGCTCTTTTCAAAAAAGGGCATTAAACAATTCTCTGGAAATAAAGCACCTGTTAGCCTGACATATGC
AAAAAGCAGGGCGGCATCACCCATTACGAGCTCCCCAGCCAGCAGTCAGTATTGGATTGGCCTTGCCTGGCTGG
TGGCAGTTTGGGAGAAACAGCCAAAGAGGTTAGTTTTATTTC AACACCAAATTAGACCATGGCCATTTC AACGG
GTCTCTTTAAAGGCCTCTATGGAATACATTGCCTGGTTTCCTTCTTTGCAGTTCACCACAGCAAGGAATGTCACC
TCCATCCCAAGCCACCATTTTCTCATGAAGGCAAATCCAAGAAGGGCTTGCAAGTCTTGCTGAAGGGGGTACCAT
TTGTGGGCAGAGTGATCAATACCATCTAGTTGGGGGAGGAGGAGCTTATTTCTTGGTGTACTTGAATCAGAAGGT
CCCTGCAAGCCAGTATGCTTCATTTGCCAGTGGCCAGAAATTCTCCCTTGCCTCCTTGATTGAGGTGTCCCAGAT
GTAGTATTTCCACAGGGGTCTGGCAGGCCCCCTCTGTAAACCACTCCAGTCACATTTTCTGCTCTTGAGGCAGAGG
TGACATCAGGACGTTTACAGCCTCCACATGAATTGAGTGTTCATTTACCTCAGTATTACCGTGTTCAATTTTGTC
CTCGTGCTACAGTTAGCTCCCTGCCGCTCTTG CAGGTCTTACTTCAGCTCTTGCTGTGACCCACACAGCTTCT
GGGCTCTGCCCTCTGCTCTAAGAAGTGTGTGGGGGTAGAGAACCAGGAAGGACATGCTGTTGGGAATGTACACCT
GGGCAGAGGTGGCCCTGTTAAGATGTGACTGTAGCCACAGCCAGGGATGGGATCCCTGGGCTCTCTGGAATCTGAA
ACCTCAACAAATACCAGTCTTGACCCCTAGCAGCAGAGATAAGAATAAAGGGGTGGTTTTGCTATTAAGTCAGAT
GGGGGCTCTCTCCTTGTCATGCTGTCCCTGTGGGTAACAGAAGGGATTGACCATCTTACTGTTGTACAGGTAGC
TGGTGGTGTGGATTATCCCATTTGAAGCTGGGACAGCTGTTCTTTCTCATAGTGATAAATTGGGTCTGTTGTCC
TCTAAGGAACGTGAAACATACACTTCTTAAGCTGAACCACGTAAACTTGAAATTCTGCGCACTGGGAGAAATGTG
TCCTGTGTTTCAAAGGATAAAACTGTTCTAAAGGCTTCCAGGGTCATGATGGGATTTTTTAAATAAATGCAAAAA
AT

3710/5332
FIGURE 3237A

GCTAGGTTGGGGAGGCGCTGTTCTGAATCCCAACGGCTGGAACCAAGAATGTCGTTTCTATTTTATAGAAGTT
TTATACAGCTCCGGGTGGAGAATATTTATTACCTAAATTATATCTCTGGAAGGCCAGGATTTGTAGAATCC
AGAATGTGATTGTTATACACACAGGGTGTGTATGATTGAACTACTGACTTTCTGTGGCCCGTTTGAGCCC
AGCTAACCTGCCCAAGGGGAAGGTGTTAATGCTGTGAATTGGCAGAGGAGAGAGCTGTGCTCCATAGGGTGTGTC
CGGTGCTGTGCTCCCTAGCCTTCTGTTCTGTCTTCTCCTTAGCCAGAACGCCACTCCCTTCCACATCCCTTC
TTCTCTCCGCTTCCCCATCTCACCATTATTTGTCCATGGATTGTCTGGGCTCTGGGACCTTATGAAACCCC
TTTCTAATGACATAAGAGGCCAAGGTGCAATCCACCCACCTTTGATACCAGACCCTGAGGGCTTCATACCTGCT
GATGGGTTTTCTTTCTAAAAGGAATGCTCGCCCCAGCAGGGTCTGGGCTGCTTGAGCAGCCAGCTGGTGAGAC
CATGCACTTCTCTGTTCTCTCTCCCCCTGCCAGTGAGTTAGCACAGCAGTAGCACTGCCCTTGAGCACAGTTC
TTTCCCCAGGCCAAGATGGTTTTGTGAAGAAGCTGCTCCCCACAAGTCTCACGTGTGAAAGGGCTCAGCTCAG
AGTGGAGACTCGCTGTCAAGTCTTAAGCAATCCTTTTCTGTTGTGTGAAGGTTTCACTTACAATGTGTTTTCTGC
TGTAAGTTTTGTTTCTTACTTGGGTTACATCATGAAATTGATTGCTTGAATGCAGCCAGACCAGCTGTCTCTCTGG
GTTCCCTTGAGTGGCCAGGGCTGGATGGAAAGCTTGGAATTTCTGGGAACAAAGGGCCATCCCCATAA
GATTGAGCAGAAATCTGGTCTCTTCCCTGAAAAATTTTCCCCAGCCAGCATCTCTGCTTCCCTTGG
GTGTGACCAGGGAGTGGGGAGAGAGGCTGAGGCTCTGCTCCCCGGAGACCTTCTCTAGGAGTTGGGTGCTTC
ATGGAATAATCAAGCCTTAGGTTCCCTTCTGCTCTGGCAATTAGATGTGTTCTTGGTGTCTTCCATGTCTTTT
TGACTTTTCCCTGTGTCCATTGTTAGCATGTGCAAAAGTTCCCTGTCATTACCCAACCCCTGCCGCCACCTCA
TTTCAGGGCTGTACACACAGTGAGTGTTCCCTGTTCTCTCTCTTTGTTTGGATGTATTGCTCTGTGTAACTCAG
TGGGTCTCCCTCTTTCTGGTTTTGTTTTTTTTTCTAGATTCTGCGGTTGTTTCATCGTTGTGCCTAAAGCATGTC
GATGTGGCGTCAAGTACATCGTCCAAATCCCTGTCTCTTCAGCTTCTCTGATGCTTGAACCTCTCACCTTTGACCT
TGTGTTGACCTTTGATGCTGATGTGTATTTTATTATGTTTGTCTTTCTTCGTTTTTTTTCTTTTTTTCTTT
CCTTTTTTTTTCTTTTGTGCTGCCAAATTGGTTTTGCTAGAACGACTGCTGAAGGGGAAATATTTAAACTTGCA
TTTGAATATAAAAAAATCTATTTTTCTAGAACTTCATAAGATAACCACTTGATTTTGTGATTCCAATTCTTTGT
AATTGTCTTCAGAGCAGCCCTACTAGCACATAACCGGTGGTGTGTTGATTTCTGTGAACACACAGCCAGTCCGTT
TCTAGGCTTTGTTTCTGTGTGCTTAGTTTTAAAGACAACCTTTGAAGTAAACAATGAAATAAAAGATGTCATA
AAACCTCTGAGGCTCCTGAGCACATTTTGTGTATACAGTCTGTGGGCTTGAGGAGACCGCATGTATTGTTCTTT
CTTTTGTTTTTCTTCTGAGTTCTCAACTGCGGAGAGCACCTGAACCCCTTTCCTTTTTGACCGCAGGCTGCACT
TTGGGCCCCAGCCAGCCCTTTTTCTTTTTCTTTTCTTTTGTGGTTCTTCCCTGGAGCGACTCTGGGGAGTCCCTG
GATATCCCGCTGCCCTTCCCTCAGCCCCATGCTTGTTCACAGTCTCCACAGCAAAATGTGATGCTTTTGAT
TTTTTGTGTGTTTTGTTTTGTATTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
TGCCCAAGAAAAAGTTTGCATGTTTTCTGTGTTTTCTTACACCTTCGTATATATACCTTCACCTCTCTGTTT
TCTATAGTTTTGTGCAAAAACTGATCGATTTAAAAAGGGTTTCAAAGAAGCTGTTTTAAATTGTTGTAGGGTTGATT
ATTTTTTTCAAGATTGTATTGTTTAAATTTGAAGTGGCAACTTTCTCCTCTATTGCCCTTAGAGCGTTTGCCTGT
GCACCTTAGACTGTCACTTCGTGTGGCTCCAGGTCTTACCGGGCTTCCGGGAGGCTGGCTGCTTTGCTCAGAGA
GGGTGGGAAGGGGGCTGGAGAGACACGAGAAGCAGAGGTAGAGCCTAGAAGGTGGCAGCAGGTGGGTAAAGAGGC
TTATTTAGCACATTAGGGGCAGTGAGCACCTGGAGGAAGGAGGGCGCTCCAATCACCCGTAGGAGGCCATCTGC
ACACCAAGCGGCAATTCACCTGCTGGCGCTTTTCTAGGTGACAAGCACAATACTACAGTCTTCACACTGTTTAC
AGCCCTGGGCACCAGCCACCGGCACTGGCTCTTCATCACAGCTCTGCTCTTGTCTTAGCTAGTGGGGTGGGGGAA
AGGGCAGGGATTTGTTTTTTAATTGGGTGGAGAGCCAAACAGCTACTGTCCCTGGGTGCCAAGCAAGCCAGTTT
TTTGGTTCCCTGAGGGAACTGACCCTCCTCTCTGTGGCACCATCCAGCCTCAGGGTCTTGAGACTTGAGTAA
GAATGTGAGTGGAGGGGGAGAGGTGAGGAGAGGAGCACAGGGTGGATCTGTGGAGGGAAGAGGTTACAGGGGGAG
GAGCTGATGATAGATCCACCCAGACTTAAGCTGCTGGTGGGTGGGTGAGCTGGGAAGTAGGACTGTCCAGGGAA
GGGTGGAGAGATGTAGCTAGGGGCTGGGGAGGGGGAGGTGGAAGCGCTATTGAGCATCCTCCACACCAAGGTTGA
TGAAAGGAAGGGATCCAGCAGGGTTTTCTGCTCTGGGGCTGGCAGGTTGCCCTGGTATTATGCCCAAGGCCGCTCTG
CCTGGGGGAAAGGGCAGCCAGGCAGAGGCCAGTGTCTGGTAGGCTGCTGAATTTCTGGAAGGGGTGATTGGAT
GGAAAGAGGCCAGAAACCCAGCCTGAGAGACTGCTGTGCACCCACAGTCTGACTGCACAGAGCCGCTCTGTT
GGCAGGAGGCACTGAGGCTCCCTTCTGTGTATTGAGAAGCAGTGTGTTGCCAATATATTTTGCTTCAATTCCA
AGAGGAGCTCTGGGAAACCTGTGGATAAACCAAATGCCAATGTTGGACGTTGTTTCCTTTTCTCTCTCT

3711/5332
FIGURE 3237B

TCTGATTGTTTAAATTGTTCTGTGGTGGTTTTAATGGATTGAGACCCTGGAGCGGCAGCTGCCTTTCTGATTTC
CAGCTGCTTTTTGTGAATAATT

3712/5332
FIGURE 3238

GATTTCGCTGCTCCGCAGCACGGCCGGAGCTGGTCGGGTCAAGAGTCGGGATTGTGTTGGGAGAGGTTTTCCACTGG
TCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCCTGGTCCCATTCTTCTGCCCCGCTC
CTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGTGGGAT
GAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCTG
CTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGAAGGACAAG
ATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCGAGCTCCTG
GATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCAAGTGTGCT
GTGATCAAAACCTCTACACGACAGACGTACTTCCTTCCTGTGATTGGGTTGGTGGATGCTGAAAAGCTAAAGCCA
GGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCCACAGAGTATGACTCGCGGGTG
AAGGCCATGGAGGTAGACGAGAGGCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAGCAGATCCAGGAG
CTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTCCAAAAGGG
GTGCTGATGTATGGGCCCCAGGGACGGGGAAGACCCTCCTGGCCCGGGCCTGTGCCGCACAGACTAAGGCCACC
TTCCTAAAGCTGGCTGGCCCCCAGCTGGTGCAGATGTTTCATTGGAGATGGTGCCAAGCTAGTCCGGGATGCCTTT
GCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTCATTGATGAGTTGGATGCCATCGGCACCAAGCGCTTTGAC
AGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCTTCCAGCCC
AACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCTCGGGCCGC
CTTGACCGCAAGATAGAGTTCCCGATGCCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACTCCCGAAAG
ATGAATGTCAGTCCTGACGTGAACTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCAGTGCAAG
GCTGTGTGTGTGGAGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCCACGAGGACTACATGGAA
GGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACTACAATACTACGCCTAGGGCACACAGGCCAGCCCCAGT
CTCAGGCTGAAGTGCACAATAAAAGATGGTTTAGGGTCCCTGCC

3713/5332
FIGURE 3239

GGGGCCGCCCGGATCGCCGCCGCCGCCGCCGCACGTACGTGGCATGCCTGGATGTCCCTGCCCTGGCTGTGGCAT
GGCGGGCCCAAGGCTCCTCTTCTCACTGCCCTTGGCCTGGAGCTCTTGAAAGGGCTGGGGTTCCCAGCCGGC
CCTCCGGAGCCGGGGGACTGCGACGGCCTGTGCGCTGGACAACAAGGAAAGCGAGTCCTGGGGGGCTCTGCTGAG
CGGAGAGCGGCTGGACACCTGGATCTGCTCCCTCCTGGGTTCCCTCATGGTGGGGCTCAGTGGGGTCTTCCCGTT
GCTTGTCAATTCCCCTAGAGATGGGGACCATGCTGCGCTCAGAAGCTGGGGCTGGCGCCTGAAGCAGCTGCTCAG
CTTCGCCCTGGGGGGACTCTTGGGCAATGTGTTTTCTGCATCTGCTGCCCGAAGCCTGGGCCTACACGTGCAGCGC
CAGCCCTGGTGGTGAGGGGCAGAGCCTGCAGCAGCAGCAACAGCTGGGGCTGTGGGTCAATTGCTGGCATCCTGAC
CTTCTGGCGTTGGAGAAGATGTTCTGGACAGCAAGGAGGAGGGGACCAGCCAGGCCCCCAACAAAGACCCAC
TGCTGCTGCCGCCCGCTCAATGGAGGCCACTGTCTGGCCAGCCGGCTGCAGAGCCCGGCTCGGTGCCGTGGT
CCGGAGCATCAAAGTCAGCGGCTACCTCAACCTGTGGCCAACACCATCGATAACTTCACCCAGGGCTGGCTGT
GGCTGCCAGCTTCTTGTGAGCAAGAAGATCGGGCTCCTGACAACCATGGCCATCTCTGCTGAGATCCCCCA
TGAGGTGGGCGACTTTGCCATCCTGCTCCGGGCCGGCTTTGACCGATGGAGCGCAGCCAAGCTGCAACTCTCAAC
AGCGCTGGGGGGCTACTGGGCGCTGGCTTCGCCATCTGTACCCAGTCCCCCAAGGGAGTAGTTGGGTGTTCTCC
CGCTGCAGAGGAGACGGCAGCCTGGGTCCTGCCCTTCACTCTGGCGGCTTCTCTACATCGCCTTGGTGAACGT
GCTCCCTGACCTCTTGGAAGAAGAGGACCCGTGGCGCTCCCTGCAGCAGCTGCTTCTGCTCTGTGCGGGCATCGT
GGTAATGGTGCTGTTCTCGCTCTTCGTGGATTAACCTTTCCCTGATGCCGACGCCCCCTGCCCCCTGCAGCAATAAG
ATGCTCGGATTCACTCTGTGACCGCATATGTGAGAGGCAGAGAGGGCGAGTGGCTGCGAGAGAGAATGAGCCTCC
CGCCAGACAGGAGGGAGGTGCGTGTGGATGTATGTGGTGTGCACATGTGGCCAGAGGTGTGTGCGCGAGACCGAC
ACTGTGATCCCTGTGCTGGGTCCGGGGCCAGTGTAGCGCCTGTCCCAGCCATGCTGTGGTTACCTCTCCTTGC
CGCCCTGTACCTTACCTCCCGGAGTAAGCAGCGAGGAAGAGCAGCACTGGTCCCAAGCAGAGGCCTTGCCTG
CTGGGACCCCGGAGTGAGAGCAGCCCAAGGATCCAGGGTGCAGGGAACCTCAGAGCTGCCACCTCCCACTGCC
CCCTCAGCACACACAGTCCCCAGGCGGCTAGGGGCCAAGGCTGGGGCGGCTTTGGTCCCTTTTCTGGCCCT
TCCTTCCCCACTTCTAAGCCAAAGAAAGGAGAGGCAGGTGCTCCTGTACCCAGCCCCACTCAGCACTGACAGTC
CCCAGCTCCTAGTAGTGAGCTGGGAGGCGCTTCTTAAGACCCTTTCTCAGGGCTGCCCTGGGAGCTCATTCTG
GCCAACACGCCCTGGCAGCACCAGCAGCTCTTGCCACCTCCAGCTGCCAAACAGCAGCCTGCCGGGCAGGGAGCA
GCCCCAGGCCAGAGAGGCCTCCCGGTCCAGCTCAGGGATGCTCCTGCCAGCACAGGGGCCAGGGACTCCTGGAGC
AGGCACATAGTGAGCCCGGGCAGCCCTGCCAGCTCAGGCCCCCTTCTTCCCCATTGAGGTTGGGGTAGGTGGG
GGCGGTGAGGGCTCCACGTTGTGAGCGCTCAGGAATGTGCTCCGGCAGAGTGCTGAAGCCATAATCCCCAACCAT
TTCCCTTGGCTGACGCCCAGGTACTCAGCTGGCCCACTCCACAGCCAGGCCTGGCCCTGCCCTTACCGTGGATG
TTTTCAGAAGTGGCCATCGAGAGGTCTGGATGTTTTATAGCAACTTTGCTGTGATTCCGTTTGTATCTGTAAAT
ATTTGTTCTATAGATAAGATACAAATAAATATTATCCACAT

3714/5332
FIGURE 3240A

ACCGCGGCCGCGCGCCCCCTCTGCCCCGCTGCCAGGATTGGTAGGCTCCACCGCTCGGCAGCCGGCTTCCCT
GCTCGGACGCCGAGCACCGCCAAAGCGCACTTCGATTTTCAGAATTCCTCCTGGGAATGCTGACTCCTTGCTTGG
TGCCCTGATGCTTCTCTGAGATAAACTGATGAATTGGAACCATGGTGCAAAAGAAGAAGTTCTGTCTCGGTTAC
TTGACTATCTAGTGATCGTAGGGGCCAGGCACCCGAGCAGTGATAGCGTGCCCCAGACTCCTGAATTGCTACGGC
GATACCCCTTGGAGGATCAGACTGAGTTTCCCTGCCCCAGATGTAGTGTCTTCTGCCAGCCCGAGGGCTGCC
TGAGCGTGCGGCAGCGGCGCATGAGCCTTCGGGATGATACCTCTTTTGTCTTCACCCTCACTGACAAGGACACTG
GAGTCACGCGATATGGCATCTGTGTTAACTTCTACCGCTCCTTCCAAAAGCGAATCTCTAAGGAGAAGGGGGAAG
GTGGGGCAGGGTCCCCTGGGAAGGAAGGAACCCATGCCACCTGTGCCCTCAGAAGAGGGTGGCACTGAGAGCTCAG
AGAGTGGCTCATCCCTGCAGCCTCTCAGTGCTGACTCTACCCCTGATGTGAACCACTCTCCTCGGGGCAAACGCC
GGGCCAAGGCGGGGAGCCGCTCCCGCAACAGTACTCTACGTCCTGTGCGTGCTCAGCCACTACCCCTTTCTTCT
CCACCTTCCGAGAGTGTGTATACTCTCAAGCGCTGGTGGACTGCTGTAGTGAGCGCCTTCTGGGCAAGAAAC
TGGGCATCCCTCGAGGCGTACAAAGGGACACCATGTGGCGGATCTTTACTGGATCGCTGCTGGTAGAGGAGAAGT
CAAGTGCCCTTCTCGATGACCTTCGAGAGATTGAGGCTGGATCTATCGATTGCTGCGTCCCCAGTACCCGTCT
CTGGGCAGAAGCGAGTAGACATCGAGGTCTACCCCAAGAGCTCCAGCCAGCTCTGACCTTTGCTCTTCCAGACC
CATCTCGATTACCCCTAGTGGATTTCCCACTGCACCTTCCCTTGGAACTTCTAGGTGTGGACGCGCTGTCTCCAGG
TGCTAACCTGCATTCTGTAGAGCACAAGGTGGTGCTACAGTCCCAGACTACAATGCACCTCTCCATGTCTGTGA
TGGCATTCTGTGGCAATGATCTACCCACTGGAGTATATGTTTCTGTCTATCCCGCTGCTACCCACCTGCATGGCAT
CAGCAGAGCAGCTGCTGTTGGCTCCAACCCGTACATCATTGGGGTCTCTGCCAGCTTCTTCTCTACAACTGG
ACTTCAAAATGCCTGATGATGTATGGCTAGTGGATCTGGACAGCAATAGGGTGATTGCCCCACCAATGCAGAAG
TGCTGCCTATCCTGCCAGAACCAGAATCACTAGAGCTGAAAAGCATTAAAGCAGGCCTTGGCCAGCATGAGTC
TCAACACCCAGCCCATCTCAATCTGGAGAAATTCATGAGGGCCAGGAGATCCCCCTTCTCTTGGGAAGGCCTT
CTAATGACCTGCAGTCCACACCGTCCACTGAATCAACCCACTCATCTATGGCAATGATGTGGATTCTGTGGATG
TTGCAACCAGGGTTGCCATGGTACGGTTCTTCAATTCCGCCAACGTGCTGCAGGGATTTAGATGCACACGCGTA
CCCTGCGCCTCTTTCTCGGCCTGTGGTAGCTTTTCAAGCTGGCTCCTTTCTAGCCTCACGTCCCCGGCAGACTC
CTTTTGCCGAGAAATTGGCCAGGACTCAGGCTGTGGAGTACTTTGGGGAATGGATCCTTAACCCCACTAATG
CCTTTTCAGCGAATTCAACAATATGTTTGATCCAGCCCTGATTGGTGACAAGCCAAAGTGGTATGCTCATCAGC
TGCAGCCTATCCACTATCGCGTCTATGACAGCAATTCAGCTGGCTGAGGCCCTGAGTGTAACACAGAGCGGG
ACTCTGACTCCGAACCTACTGATGATAGTGGCAGTGATAGTATGGATATGACGATTCAAGCTCTTCTTACTCCT
CCCTTGGTGACTTTGTCTAGTGAAATGATGAAATGTGACATTAATGGTGATACTCCCAATGTGGACCCTCTGACAC
ATGACAGACTGGGGATGCCAGCGAGGTGGAGATTGACGAGCTGCAGAATCAGAAGGAAGCAGAAGAGCCTGGCC
CAGCAGTGAGAACTCTCAGGAAACCCCACTGCGCTCCAGCTCTAGCACCACAGCCAGCAGCAGCCAGCA
CTGTCTATCCACGGAGCCAACCTCTGAACCTGCTGACTCTACGGAGATGGATGATAAGGCAGCAGTAGGCGTCTCA
AGCCCCCTCCCTTCCGTGCCCTCCAGCATTGGCAATCGAACGTGGACAGACGTACGGCAGAAATTGGAGAGGGGT
CAGTGCGCCGGCGAATCTATGACAATCCATACTTCGAGCCCCAATATGGCTTTCCCCCTGAGGAAGATGAGGATG
AGCAGGGGGAAGTTACTCTCCCGATTTCAGCCAACATGTGAGTGGCAATCGGGCTCAAAAGCTGCTGCGGCCCA
ACAGCTTGAGACTGGCAAGTGACTCAGATGCAGAGTCAGACTCTCGGGCAAGCTCTCCCAACTCCACCGTCTCCA
ACACCAGCACCGAGGGCTTCGGGGGCATCATGTCTTTTGGCAGCAGCTCTATCGGAACCACAGTACCAGCTTCA
GTCTTTCAAACCTCACACTGCCCACCAAGGTGCCCGAGAGAAGGCCACGCCCTTCCCCAGTCTGAAAGTATTTG
GGCTAAATACTCTAATGGAGATTGTTACTGAAGCCGGCCCCGGGAGTGGTGAAGGAACAGGAGGGCGTTAGTGG
ATCAGAAGTCATCTGTCAATAAACACAGCCCAACAGTGAAAAGAGAACCTCCATCACCCAGGGTCGATCCAGCA
ATTCTAGTGAGAACCAGCAGTTCCTGAAGGAGGTGGTGCACAGCGTCTGAGACGGCCAGGGAGTTGGCTGGCTCA
ACATGAAAAAGGTGCGCCGGCTGCTGGAGAGCGAGCAGCTGCGAGTCTTTGTCTGAGCAAGCTGAACCGCATGG
TGCAGTCAGAGGACGATGCCCGGACGACATCATCCGGATGTGGAGATCAGTCGGAAGGTGTAACAAGGGAATGT
TAGACCTCCTCAAGTGTACAGTCTCAGCTTGGAGCAGTCTATGCCACGCGGGTCTGGGTGGCATGGCCAGCA
TCTTTGGGCTTTTGGAGATTGCCAGACCCACTACTATAGTAAAGAACCAGACAAGCGGAAGAGAAGTCCAACAG
AAAGTGTAATAACCCAGTTGGCAAGGATCCTGGCCTAGCTGGGCGGGGGACCCAAAGGCTATGGCACAACTGA
GAGTTCACAACCTGGGACCTCGGGCACCAGTGCCACAGGAAAGGTCCTAAGGAACCTGGACACCAGAAGTTAA
AGGAAGAAAATTTATAGCATCTATTGAATTGTGGAACAAGCACCAGGAAGTGAAAAAGCAAAAGCTTTGGAAA

3715/5332
FIGURE 3240B

AACAGAGGCCTGAAGTAATCAAACCTGTCTTTGACCTTGGTGAGACAGAGGAGAAAAAGTCCCAGATCAGCGCAG
ACAGTGGTGTGAGCCTGACGTCTAGTTCCCAGAGGACTGATCAAGACTCTGTCATCGGCGTGAGTCCAGCTGTTA
TGATCCGCAGCTCAAGTCAGGATTCTGAAGTTAGCACCGTGGTGAGTAATAGCTCTGGAGAGACCCCTGGAGCTG
ACAGTGACTTGAGCAGCAATGCAGGTGATGGACCAGGTGGCGAGGGCAGTGTTACCTGGCAAGCTCTCGGGGCA
CTTTGTCTGATAGTGAATTGAGACCAACTCTGCCACAAGCACCATCTTTGGTAAAGCCCACAGCTTGAAGCCAA
GCATAAAGGAGAAGCTGGCAGGCAGCCCCATTCTGACTTCTGAAGATGTGAGCCAGCGAGTCTATCTCTATGAGG
GACTCCTAGGAAGGGACAAAGGATCCATGTGGGACCAGTTAGAGGATGCAGCTATGGAGACCTTTTCTATAAGCA
AAGAGCGTTCTACTTTATGGGACCAAATGCAATCTGGGAAGATGCCTTCTTAGATGCTGTGATGTTGGAGAGAG
AAGGGATGGGTATGGACCAGGGTCCCCAGGAAATGATCGACAGGTACCTGTCCCTTGGAGAACATGACCGGAAGC
GCCTGGAAGATGATGAAGATCGCTTGTGGCCACACTTCTGCACAACCTCATCTCCTACATGCTGCTGATGAAGG
TAAATAAGAATGACATCCGCAAGAAGGTGAGGCGCCTAATGGGAAAGTCGCACATTGGGCTTGTGTACAGCCAGC
AAATCAATGAGGTGCTTGATCAGCTGGCGAACCTGAATGGACGCGATCTCTCTATCTGGTCCAGTGGCAGCCGGC
ACATGAAGAAGCAGACATTTGTGGTACATGCAGGGACAGATACAAACGGAGATATCTTTTTTCATGGAGGTGTGCG
ATGACTGTGTGGTGTTCGCTAGTAACATCGGAACAGTGTATGAGCGCTGGTGGTACGAGAAGCTCATCAACATGA
CCTACTGTCCCAAGACGAAGGTGTTGTGCTTGTGGCGTAGAAATGGCTCTGAGACCCAGCTCAACAAGTTCTATA
CTAAAAAGTGTGCGGAGCTGTACTACTGTGTGAAGGACAGCATGGAGCGCGCTGCCGCCCGACAGCAAAGCATCA
AACCCGACCTGAATTGGGTGGCGAGTTCCTGTGCAGGACCTGAAGACTGGTGAGGGTGGCCTGCTGCAGGTGA
CCCTGGAAGGGATCAACCTCAAATTCATGCACAATCAGGTTTTTCATAGAGCTGAATCACATTAAAAAGTGCAATA
CAGTTCGAGGCGTCTTTGTCTTGAGGAATTTGTTCTGAAATTAAAGAAAGTGGTGAGCCACAAGTACAAGACAC
CAATGGCCACGAAATCTGCTACTCCGTATTATGTCTCTTCTCGTACGTGGCTGCAGTTCATAGCAGTGAGGAAG
ATCTCAGAACCCCGCCCCGGCCTGTCTCTAGCTGATGGAGAGGGGCTACGCAGCTGCCCCAGCCAGGGCACGCC
CCTGGCCCCCTTGCTGTTCCTCAAGTGCACGATGCTGCTGTGACTGAGGAGTGGATGATGCTCGTGTCTCTCTGCA
AGCCCCCTGCTGTGGCTTGGTTGGTTACCGGTTATGTGTCCCTCTGAGTGTGTCTTGAGCGTGTCCACCTTCTCC
CTCTCCACTCCCAGAAAGACCAAACCTGCCCTTCCCTCAGGGCTCAAGAATGTGTACAGTCTGTGGGGCCGGTGTGA
ACCCACTATTTTGTGTCTTGAGACATTTGTGTGTGGTTTCTTGTCTTGTCCCTGGCGTTATAACTGTCCACT
GCAAGAGTCTGGCTCTCCCTTCTCTGTGACCCGGCATGACTGGGCGCCTGGAGCAGTTTCACTCTGTGAGGAETG
AGGGAACCTGGGGCTCACCTCTCAGAGGAAGGGCACAGAGAGGAAGGGAAGAATTGGGGGGCAGCCGGAGTGA
GTGGCAGCCTCCCTGCTTCTTCTGCATTCCCAAGCCGGCAGCTACTGCCAGGGCCCGCAGTGTGGCTGCTGC
CTGCCACAGCCTCTGTGACTGCAGTGGAGCGGCGAATTCCCTGTGGCCTGCCATGCCTTCGGCATCAGAGGATGG
AGTGGTCGAGGCTAGTGGAGTCCCAGGGACCGCTGGCTGCTCTGCCCTGAGCATCAGGGAGGGGGCAGGAAAGACC
AAGCTGGGTTTGCACATCTGTCTGCAGGCTGTCTCTCCAGGCACGGGTGTGAGGAGGGAGAGACAGCCTGGGTA
TGGGCAAGAAATGACTGTAAATATTTTCAGCCCCACATTATTTATAGAAAATGTACAGTTGTGTGAATGTGAAATA
AATGTCTCAACTCCC

3716/5332
FIGURE 3241

CAGTGCCTTGGTAATGACCAGGGCTCCAGGAAGAGATGTCCTTGTGGCTGGGGGCCCTGTGCCTGACATTCTC
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCA
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCA
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG
CCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAAATGCCGTGAGGCTGGCATGC
GGGAGGAGTGTGTCTGTGTCAGAAGAACAGATCCGCCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG
CCACATCCTTGCCCCCAGGGCTTCTCTACCCCCCAAATCCTGCCCCAGCTCAGCCCCGAACAACCTGGGCATGA
TCGAGAAGCTCGTCGCTGCCAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCTTGGC
CCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCTGTCAGCTCAGCCGGGAGGACCAGATTGCC
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCA
CCTTCCTCAAGGATTTCAAGTTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCA
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTGCCTTGCTCATTTGCTATCAGCA
TCTTCTCTGCAGACCGGCCCAACGTGCAGGACCAGTCCAGGTAGAGAGGCTGCAGCACACATATGTGGAAGCCC
TGCAATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCCACGGATGCTAATGAACTGGTGAGCC
TCCGGACCTGAGCAGCGTCCACTCAGAGCAAGTGTGTTGCACTGCGTCTGCAGGACAAAAGCTCCCACCGCTGC
TCTCTGAGATCTGGGATGTGCACGAATGACTGTTCTGTCCCATATTTTCTGTTTTCTTGGCCGGATGGCTGAGG
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCCTGGGAGCTGGGCAAGGAGATCCTC
CCGTGGCATTAAAAGAGAGTCAAAGGGT

3717/5332
FIGURE 3242

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC
TCGGCGTGAACCTGGTGGTGATGCCGCCCCACCCGGGCGGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG
GAGACCGTTCACCAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT
TAACCAAGGAGGGGATGCTACAGCACTGGGAACTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGCTGAGGCCAACCC
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCTGTGCACA
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCCATGTCCCCGTTATGAGCAGCTGCAGAACG
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTTCTGGACATGGTGGCCAACGAGA
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC
TGCGCCTGCCGCTTGGGCTCACCCTAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGAGTCTGCTGGCTCAGATAAGGAAGAACC
TGACCCTAATGGCGACCACCTCCCAGCTCCCCAAGCTGCTGGTTTACTCTGCGCACGACACTACCCTGGTTGCC
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCCTGCCACATATTTGAACTGTACCAGG
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCGGAACGAGAGTGACAAGGCCCTTGCCGCTCAGCCTGC
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCTGTGCCCAAGGATTGGCAGC
AGGAGTGCCAGCTGGCAAGCGGTCTGCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT
TCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCAGCCTCCTGGCTACCGCCACGTTCGAG
ATGGGGAGGACCACGCCCTGACAACCACTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGCCCTCGC
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTGGGCTCCTCTGATGACCCAGCCAGA
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAACTGGCAG
TCAGTGTTCACTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGTGGATCCACCTTGCACTTCTATCAAGCC
CTGTTCTTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCTCTCAGTGCTTATT
TTAGTGGGAAAAACAGCTAATACCAGGGGTACAAACATTGGCTCCCAAGGAAGTGGATCACCAACAGCCAGCCA
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTACCCCTT
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTAGGGAGTGGTGGGAAGGGAGTTGCTTGTACA
CGAATCAGGAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG
AAAAGAAAGTTCTAGACTGTGGCCAGAATAGGGCTGGGGCAGCTCCAGAGAATGAATAGTGCTGTTTCCTATT
GGACTGATA

3718/5332
FIGURE 3243

GAGCTCCAAGCTGGTTTGAACAAGCCCTGGGCATGTTTGGCGGGAAGTTGGCTTAGCTCGGCTACCTGTGGCCCC
GCAGTTTTGTAGTCCCCGCTTGTTTCTCCCCAGAGGCCTCTCAATCCTCCCTCCATGATCTTCGCATAGAGCAC
AGTACCCCTTCACACGGAGGACGCGATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATT
ACGCCCCAGGAACAAGAGGAGCAGGAGTCCCCTGGAGCTGGAGCCCCAGGCCAAGAAGCTCTGTGCGAAGGGCTC
CGGTCTTAGCAGAAGATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCG
CAGCATCGTCAGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCA
GTCTTTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT
GGCGTGGCACCCAACTCACCCACGACTGTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAATTTTGG
CATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGTTTAACCCCTCT
CAATACCAACCAGTTTTACGCCCTCCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACG
AGTTTTTGGCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCTGCTAGTAGCCGAATGGTGGT
CACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAGAGCTTTGGAATCTCAGAATGCACAA
AAAGAAAGTGACGCATGTGGCCCTGAACCCATGCTGTGATTGGTTCTTGGCCACAGCCTCCGTAGATCAAACAGT
GAAAATTTGGGACCTGCGCCAGGTTAGAGGGAAAGCCAGCTTCCTCTACTCGCTGCCGCACAGGCATCCTGTCAA
CGCAGCTTGTTTCAGTCCCGATGGAGCCCGGCTCCTGACCACGGACCAGAAGAGCGAGATCCGAGTTTACTCTGC
TTCCCAGTGGGACTGCCCCCTGGGCCTGATCCCGCACCCCTCACCGTCACTTCCAGCACCTCACACCCATCAAGGC
AGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCTAATTTCAAAAGTTGTACCCCTTA
TGAATTGAGGACGATCGACGTGTTTCGATGGAACTCAGGGAAGATGATGTGTCAGCTCTATGACCCAGAATCTTC
TGGCATCAGTTCGCTTAATGAATTCAATCCCATGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCAT
CTGGAGCCAGGAGGAAGCCAGGACACGGAAGTGAGAGACACTAAAGAAGGTGTGGGCCAGACAAGGCCTTGGAGC
CCACACATGGGATCAAGTCTGCAAGCAGAGGTGGCGATTGTAAAGGGCCAAAAGTATCCAAGGTTAGGGTTG
GAGCAGGGGTGCTGGGACCTGGGGCACTGTGGGACTGGGACACTTTTATGTTAATGCTCTGGACTTGCCTCCAGA
GACTGCTCCAGAGTTGGTGACACAGCTGTCCCAAGGGCCCTCTGTATCTAGCCTGGAACCAAGGTTATCTTGGA
ACTAAATGACTTTTTCTCTCTCAGTGGGTGGTAGCAGAGGGATCAAGCAGTTATTTGATTTGTGCTCACTTTTGA
TATGGCCAATAAAACCATACCG

3719/5332
FIGURE 3244

ATGGCTTTTAAGGATACCGGAAAAACACCCGTGGAGCCGGAGGTGTGTGCTGACTTGATCAGAGGCCGCAAAGGAA
AAGAATCTCAAAGTGAAAGGACCAGTCCGAATGCTTACCAAGACTTTGAGAATCACTACAAGAAAAACCCCTTGT
GGTGAAGGTTCTAAGACATGGGATCGTTTCCAGATGAGAATCCACCAGCGACTCATTGACTTGCACAGTCCTTCT
GAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGGTGGAAGTCACCATTGCAGGATGCTTA
AGTCAACAATTTTAA

3720/5332
FIGURE 3245

AGGACTCGGGCCGGAGCGTGGCCGGACCCCCACCCGCCGAGGGGCCAGGGAGGACGCGGCAGAGTCACGGTGGC
AGCATTGAGAGTTGGACACCCGGGTCTTGAAGTGATCTCTAGGCCCCAGCCCCAAATCCGCCACCATTCCGTGC
TGCGGGGACACCATGGCTCCAGAAGAGGACGCTGGAGGGGAGGCCCTTAGGGGGCAGTTTCTGGGAGGCTGGCAAC
TACAGGCGCACGGTACAGCGGGTGGAGGACGGGCACCGGCTGTGCGGGGACCTGGTCAGCTGCTTCCAGGAGCGC
GCCCCGATCGAGAAGGCTTATGCCAGCAGTTGGCTGACTGGGCCCCGAAAGTGGAGGGGGACCGTGGAGAAGGGC
CCCCAGTATGGCACACTGGAGAAGGCCTGGCATGCCTTTTTACGGCGGCTGAGCGGCTGAGCGCGCTGCACCTG
GAGGTGCGGGAGAAGCTGCAAGGGCAGGACAGTGAGCGGGTGC CGCGCTGGCAGCGGGGGGCTTTCACCGGCCT
GTGCTGGGCGGCTTCCGCGAGAGCCGGGCGGCCGAGGACGGCTTCCGCAAGGCCAGAAAGCCCTGGCTGAAGAGG
CTGAAGGAGGTTGAGGCTTCCAAGAAAAGCTACCACGACGCCCCGAAGGATGAGAAGACCGCCCCAGACGAGGGAG
AGCCACGCAAAGGCAGACAGCGCCGTCTCCAGGAGCAGCTGCGCAAAGTGCAGGAACGGGTGGAACGCTGTGCC
AAGGAGGCCGAGAAGACAAAAGCTCAGTATGAGCAGACGCTGGCAGAGCTGCATCGCTACACTCCACGCTACATG
GAGGACATGGAACAGGCCCTTGAGACCTGCCAGGCCCGGAGCGCCAGCGGCTTCTTTCTTCAAGGATATGCTG
CTCACCTTACACCAGCACCTGGACCTTTCAGCAGTGAGAAGTTCCATGAACTCCACCGTGACTTGCAACGAGGC
ATTGAGGCAGCCAGTGACGAAGAGGATCTGCGCTGGTGGCGCAGCACCCACGGGCCAGGCATGGCCATGAAGTGG
CCACAGTTCGAGGAGTGGTCCCTTGGACACACAGAGGACAATCAGCCGGAAGAGAAGGGTGGCCGGAGCCCTGAT
GAGGTTACCCTGACCAGCATTGTGCCTACAAGAGATGGCACCGCACCCCCACCCAGTCCCCGGGGTCCCCAGGC
ACGGGGCAGGATGAGGAGTGGTCAGATGAAGAGAGTCCCCGGAAGGCTGCCACCGGGGTTCCGGGTGAGGGCACTC
TATGACTACGCTGGCCAGGAAGCTGATGAGCTGAGCTTCCGAGCAGGGGAGGAGCTGCTGAAGATGAGTGAGGAG
GACGAGCAGGGCTGGTGCCAAGGCCAGTTGCAGAGTGGCCGATTGGCCTGTACCCTGCCAACTACGTGGAGTGT
GTGGGCGCCTGAGTGTCCTGACAGCCCTTCTGCAACGTTTACCCACCCTGGTTCAGAGCCCAGCTTCTCCTGGAG
AGCCGGACCCTCAGGGCCCTGAACCGTCGCTCTCTGGCTGCTCCTCTGTCCCTTGAGGGAGGAAGTCTGGGACC
CAGGGAGGGGAGGGGCCCTTTGTCTAGGGAAGGGACTGGTAGGGAAGGGACGAGTCTAGGCTGAGGGCAAGATGGG
AGGTCAGAGGTGACAGAAGCGTTCAGGGGTGCCTGGGCCTCCCCAGGAGCTGTGGACTCAGTTCCTGACCTCTGC
TTTGGGGTTCCTGGGGTGGGCTTGGGGTGAGTGATCTTCTGGCCTAGCAGCACCCCTCTTGTGGCTTGTCTAGCG
TGTATTAAAACTTGACACACACCCACACACAAAAAC

3721/5332
FIGURE 3246

TGGGAAGGAGAGAAAAATGGCGGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTAAAGAGGCTTCGCGCAGTT
CCAACCAACAAGGCCTGTTTCGACTGCGGCGCCAAGAATCCGAGTTGGGCCAGCATCACGTACGGTGTTCCTTG
TGCATTGACTGTTCCGGGGTGACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGAGTTGGATTCC
AACTGGAAGTGGTTCCAGCTGAGGTGTATGCAGGTGCGCGGGAATGCCAATGCGACGGCTTTTTTCGCCAACAT
GGATGCACAGCCAATGATGCCAACACCAAATATAATAGCCGAGCTGCCCAGATGTACCGGGAGAAGATCCGGCAG
CTGGGGAGTGGCGCCCTGGCTAGGCATGGCACTGATCTTTGGATAGACAACATGAGTAGTGCCGTTCCCTAATCAC
TCCCCAGAGAAGAAGGACTCTGATTTCTTCACAGAACACACTCAACCCCTGCCTGGGATGCGCCAGCCACTGAG
CCTTCAGGGACCCAGCAGCCAGCCCGTCTACAGAGAGCAGTGGCCTGGCACAGCCGGAGCATGGCCCCAACACA
GACCTGCTTGGCACCTCACCCAAAGCCTCACTGGAAGTGAAGGCTCCATCATTGGCAAGAAGAAGCCAGAGCTT
CAGTGAAGATTGAGCGGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCAGCAGGCAGCCGATGCCAAGAAGCAGGC
GGAGGAGTCCATGGTCGCCTCCATGCGTCTGGCCTACCAGGAGCTCCAGATTGATCGTAAGAAAGAGG

3722/5332
FIGURE 3247

TTCCGCCGCGTGGGTGCCATGGCAACGGAGAGAGACGGCAACCTGGGTTCGGAAGCCGGAGAGCTGGAGCTTTG
AAGCCACCCCGGTCAAAGGATGCTGAGTCCGGAGCGCCTAGCCCTACCGGACTACGAGTATCTGGCTCAGCGACA
TGTCCTCACCTACATGGAGGATGCAGTGTGCCAGCTGCTAGAAAACAGGGAAGATATTAGCCAATATGGAATTGC
CAGGTTCTTCACTGAATATTTTAACAGTGTATGCCAGGGAACACACATTCTCTTTCGAGAATTCAGCTTCGTCCA
AGCCACCCCCACAATAGGGTATCATTTTTACGGGCCTTCTGGAGATGCTCCGAACTGTGGGCAAAAATGGCGA
TTTGCTGACCATGAAAGAATATCACTGTTTGTGCAATTACTGTGTCTGATTTCCTGCTTTGCCTTCCA
AGCAGCCAGGATTGTGCTCATGGACGATGCCATGGACTGCTTGATGTCTTTTTCAGATTTCCTCTTTGCCTTCCA
GATCCAGTTTTACTACTCAGAATTCCTGGACAGTGTGGCTGCCATCTATGAGGACCTGCTGTGAGGCAAGAACCC
CAACACAGTGATTGTGCCGACGTCGTCCAGTGGGCGAGCACCGCCAACGACCTGCCTTGGGCGGGGCCGCGACGCT
GGAGGGCGTGGAGGCGTCGCTGTTCTACCAGTGTCTGGAAAACCTGTGTGATCGGCACAAGTACAGCTGCCCACC
CCCAGCACTTGTCAAAGAGGCCCTCAGCAATGTTTCAGAGACTGACCTTCTATGGATTCTCATGGCTCTCTCAA
GCACCGTGGAATCAACCAAGCCCTCGGAGCTTTGCCTGACAAGGGGGATCTGATGCACGACCCAGCAATGGATGA
AGAGCTGGAACGGCTGTAAAGTGTCAAGTGGGAGGATACTGCCCCCTTGTGGGGGCCAGACGGGTCGGACACGGCT
GTGCCCCATCTGGGGCCAACACCCTTGTCTGTAAACATCCACATCTGCCAGGGAAGGGTCTGGGGGCCAGTGGA
GGCCTGAGGTGTCCCTCCCTCTGAGTCCCTTGGGGGCTGCAGCCCAGGGGTTTACCCTAGTGTAAAGAGTGGGCA
TGGAGGCCCTGCTCTCTGTACAGGAGGCCTCTCGCTGCCCTCCAGGCTTCTTCCCTTCTTCAGGCTGGGCCAGGT
CCCAGGCCTGGTCAACTCGGTTCACAGCCAGTCCAGAGGCCAGTTGCCTGCCTTCCCGGACCCCTCCCCGGGTTGG
CTCTCCCTGGAGACCTCTCCATCATTCCCGAAAAGTGGATGGAGAGAGTGATGGCTCCACTGAAGAGACAGACGA
GTCGGAGACTTGAGGAGTCAAAGGGTCTTGCCACAGCGCCCTGTACCTGCTCCCACCCAGCCCTTGGTGTGCC
CACCCAGCCTCCTCTCCAGCACCTTGCTGTGCTGCCCTCTGCTGCTGACAAGGTGAATAACAGCCCCAAGACCAG
CCAGAGGGGCTCTGATGATCAGCCAGCCAGTGGCCCCGGAAGGTGAATGGCCTGCTCTCCCTGGCCCTATCAGC
CTGTGAACTTCACTTAGGCCCAAGCTGACAGACTGTGCTGAGGCCACCTGTGTCAGCCGTAGCCTGTTAGTCCT
CCTAACCTCTTAAGAGCAGTCTCTTCTGAGCCAGCCTCTGCGGGTCCCCCAATAAGGTTTCATCTCCTCACAGCAA
CTCCATTAAGGGGGAGAACCCGAATAGCCACGCAGGGCCTTGCACCATCAAGGGTGACACCTGCGACGCAAGTAC
CAGGAGGACATAACCGCTGTGGCCTGTTGGAGAACAGCCAGTAGCCTTGGTAATATGAAGGGTGGGCCAGAAGAT
GATTTCACTTGCAAAAACCTGCTTCAAGTCTTGACCCCTTTGTGTCTAATAGCTAAACAAACATGTGAAACGAATA
AAAAGTCCCTCATGTCTGGT

3723/5332
FIGURE 3248

ATTGCTGGGGCTGCAGCGCTGCCTCCGAGACCGCGAGGTGGGTGGATCGGGTCTTCCTGGAAGGGTGCGATAAGG
CCGGGCGAGGTGCCTGGGATGCTTCTCCCTTCCGCGAGGAAGAGATCTAATTGGGTAGGGCGGGTGTAGACTAG
CCTGCCGAGCCGCGCGCTGGCACCTGCAGCCTCCTGGGCGCCCGCGGGCCCCGCGAGAAAGTTGTTAAAGGGA
GCGAGGTGGTTGTTCTGGGGTGCTTGGCGCGCCCTCTCACGCCCTGCCCAACAGAAGCCGCAGTCCCGTGGGGT
CTGGAGACGCAGTTTCTGTTAATGACAATAAATCCCTGCTCCCCCTGCCTCAGACATCTACGCAGCGAAATCGA
GCCTGGCCTTGAGGGTCCACACCGCGAGGGAAGATGCGTGCGCCCATTCAGAGCCTAAGCCTGGAGACCTGATT
GAGATTTTTCGCCCTTTCTACAGACACTGGGCCATCTATGTTGGCGATGGATATGTGGTTTCATCTGGCCCCCTCCA
AGTGAGGTTCGAGGAGCTGGTGCAGCCAGTGTCATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTG
CTGTATGATGTGGCCGGGAGTGACAAGTACCAGGTCAACAACAAACATGATGACAAGTACTCGCCGCTGCCCTGC
AGCAAAATCATCCAGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAACTGCGAG
CACTTTGTGAATGAGCTGCGCTATGGAGTCGCGCCGAGTGACCAGGTCAGAGATGTCATCATCGCTGCAAGCGTT
GCAGGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAGCAATAACTG
AAAAAGACTGTCTGTCAGCGATGACTTTATACATCAAGGGGGTCTTGTTTTGCTAGAGAGTTTGGGGTTTGGTT
TGTGGATTTCATTGTGATTTATAATAAGGCTTATTTTCACAGAATAAAATAAAGCAAAACGAGGGAGGATTTTAT
TGGGGGAAGTGCAGC

3724/5332
FIGURE 3249

AGTTAAACACCAAAGCTGTCTCTCAGACTGGTGGTTCCAGGATAAAGCCTCGGCCTGGGGCCTGGTCTGCACGTT
AGGCGCCGGCCGAGCTCGCAGGAGGACCCGAGCCAGCCCGCCCTTCCCGCACAGCCTGCTGGGAGTTGTAGTT
CAGTCGTCGGAGAACCACGCCAAGCCCCGCCCCAGATGAGTGCGCAGTATGAGGACCGCTGGCCGGGACCCAGTG
AGCGCGGGACTACAATTCCCAAAGGACGGTAGCACTCAGCGCCCCGCCAACAGAGATGATGCCATGGAGAGCAGC
AAGCCTGGTCCAGTGCAGGTTGTTTTGGTTTCAGAAAGATCAACATTCTTTGAGCTAGATGAGAAAGCCTTGCC
AGCATCCTCTTGCAGGACCACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGC
AAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCAAATTGGTTGGGT
GACCCAGAAGAACCGTTAACAGGATTTTCTGGAGAGGGGATCTGATCCAGAAACCACTGGGATTCAAATCTGG
AGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTTGCAGTTGTTCTGATGGATACCCAGGGGGCATT
GACAGCCAGTCAACTGTGAAAGACTGTGCTACCATCTTTGCTCTAAGCACTATGACTAGTTCTGTTTCAGATTTAT
AATTTATCTCAGAACATTCAGAAGATGATCTTCAACAGCTGCAGCTCTTCACAGAATACGGTCGCTGGCAATG
GATGAAATTTTCCAAAAGCCTTTCAGACACTGATGTTTTGGTTAGAGATTGGAGTTTCCCTTATGAATATAGC
TATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTACAGGTGAAGGAACATCAACATGAAGAAATTCAG
AATGTTGAAATCACATTCATCTGATGTTTCTCCGATGTCACCTGCTTTCTCTTACCACATCCAGGACTCCAGGTG
GCCACAAGCCCTGACTTTGATGGGAAATTAAGATATTGCTGGTGAATCAAAGAGCAGTTACAGGCAGTGATA
CCGTATGTATTAAACCCATCTAAGTTAATGGAAGGAGATCAATGGCTCAAAGGTCACCTGTCGGGGACTACTG
GAGTATTTTAAAGGCATATATTAATAATTTATCAAGGAGAAGATCTGCCTCACCCCAAGTCCATGCTTCAGGCCACT
GCTGAAGCCAACAACCTTAGCAGCTGCAGCCTCTGCCAAGGACATTTATTATAACAACATGGAAGAGGTTTGTGGG
GGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAGCACTGTGAATTCAAACAACCTGCTCTGGACCAT
TTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTTCAGCTTTCTGTTACCAGCAGGAGCTGGAGGAGGAAATCAAG
GAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAACGTCTTCAGCACCTTCCGAACCCCTGCAGTGCTG
TTCACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACTGGCTTCATAGGTCTTGAGGTTGTAGCCAGTTG
TTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACCTGGGGCTACATCAGGTATTCTGGTCAATATCGT
GAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTGGAGCAGGCTTCTTCTCATATCGGTAATTCCACT
CAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATGGATAAAAAAGCTCAATAGCATCTTAACGTGAAG
ATCAAACAAGAACAACAAGCCCCCTACTGATTTCTGGGTTTCTGCCACGGCCACAGGTTTCATATCCAGAGGAAT
GGCAGATCTGAGACGATCCAGGAAGAGCTAAAACATGGCCCTGTAATAAATGAGCAGACCTCTCCTGTGGTTTCA
AATTATTAACACACTTCCATTTCTCTTGAAGCATTTCTTTTCTTGCTGTTATAGATGCAAGCCTGTGTCTAT
TTTCATATTACTCTGCTTTGTGCACCTTATGGAGGAGGAAGCTAGAGGAAAAATGGAATGCAGCTTTTAAGTTC
TTTATGTGCCACTTAGTGCTTTTAAGATTGATTCCATGGTTTTGCACACACGATGGGGAGGGGATGGAGGATAA
CCTCATGAAAGGTGCCGTTTTCGGGTGAAACTTGACATTTCTTTTATACTTTACTCTTTTGAGAAGGATTCTTTT
TTTTTTTTTTTTTTTTTTGAGTTGGAGTCTCGCTCTGTCCAGGCTTGAGTGCAGTGGTGTGATCTTGGCTCA
CTGCAACCTCTGCCTGCCGGGTTCAAGCAGTTCTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGTACG
CCACCATA

3725/5332
FIGURE 3250

CAGGTGACCAGCGCCATGTCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT
GACAGTCCAAAGGGTTCCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCTGGTCCAGTCCCACTCGC
TGCTCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG
CTCAGCTCCCTGCCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCACTATGGTGTGGCATCC
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCCAACGAG
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTACCAAGTGCCTGCGGGTGGGCATGCTC
AAGGAGGGAGTGCCTGGACCGCGTCCGGGGTGGGCGGCAGAAAGTACAAGCGGCGGCCGGAGGTGGACCCACTG
CCCTTCCCGGGCCCTTCCCTGCTGGGCCCTGGCAGTCGCTGGAGGCCCCGGAAGACAGCAGCCCCAGTGAAT
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCCGCAGGCCCTGATGGG
CACCTCCCAGCCGTGGCTACCCCTCTGTGACCTCTTTGACCGAGAGATTGTGGTCACCATCAGCTGGGCCAAGAGC
ATCCCAGGCTTCTCATCGCTGTCTGCTGTGACCAGATGTGAGTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG
CTGGGTGTGGCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCTGGATGAAGAG
GGGGCACGGGCAGCTGGCCTGGGGGAAC TGGGGGCTGCCCTGCTGCAACTAGTGCGGCGGCTGCAGGCCCTGCGG
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCCGGGCTGGCCCCGGA
GGGGGTGCTGAGCGGCGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG
CTGGCCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGGAGATGCTCGAGGCC
ATGATGGACTGAGTGAAGGGGTGGGACTGGTGGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCCTGGGA
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTGAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA
GTGCTGCCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCAGTGGGTGATGCTTTT
GCTGCTGCTTAATCCTACCCCTCTTCAAAGCAGAGTGGGACTTGGAGAGCAAAGGCCCATGCCCCCTTCGCTCC
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCCTGGAC
CCCTGGGGTGGCCAGGGCTTCCCCATCAGCTCCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC
CCTGCAGAGCAATAACACTATATTTATTTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC
CAGAGCCCTTGACTGTACAGAGACTCTATTTAATGTATATTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC
CTTTAATGAGAAAAAATATATAATACCGAGCTC

3726/5332
FIGURE 3251

TCCGGTTCCGGCCTGGCGAGAGTTTGTGCGGCGACATGAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGC
GGGGGGTGGGGTCCCGTGGCTTCCCCCTGCGCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATTCAACC
CCAACTTCGTGGCGCGTATGATACCTAAAGTGGAGTGGTCGGCGTTCCTGGAGGCGGCCGATAACTTGCCTCTGA
TCCAGGTGCCGAAAGGGCCGGTTGAGGGATATGAGGAGAATGAGGAGTTTCTGAGGACCATGCACCACCTGCTGC
TGGAGGTGGAAGTGATAGAGGGCACCCCTGCAGTGCCCGGAATCTGGACGTATGTTCCCCATCAGCCGCGGGATCC
CCAACATGCTGCTGAGTGAAGAGGAACTGAGAGTTGATTGTGCCAGGCGCCAGTTTTTCTTGTTATGACTGTGT
ATTTTTGTTGATCTATACCCTGTTTCCGAATTCTGCCGTGTGTATCCCCAACCCCTTGACCCAATGACACCAAACA
CAGTGTTTTTGAGCTCGGTATTATATATTTTTTTCTCATTAAAGGTTTAAAACC

3727/5332
FIGURE 3252

CACGGGCGGGGCGGGGCTGGGTCCACGGGGTTCTGAGGGGAGACTGAGGTCCTGAGCCGACAGCCTCAGCTCC
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACC GTTGGCCCCAGCTGTGCCTTGACTACGTAACATCTTGT
CCTCACAGCCCAGAGCATGTTCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG
GGGCCTGGGCCCCAGCCCCGAGGGGACGGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCT
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG
GAGTCGCCACAGCTCCTACCCCGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCTTTCGGGG
CCGCTCGCGCTCGGCGCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAGCTC
CAGCTGGACGCGAGTCTTCCAGTCCTGGTGGGATCGGAACCTGGGCAGGGGAAGCTCCGCCCCCTCCAGTGACC
TTCGCTCCACATCCCGAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGC
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTTTGGGTTTTTCGCCCACAGCCGCCGGAAGTGGCTCCGT
GGCCCCGCCCTCAGGCTCCGGGCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCA
CCGGGACCCGAGCCCCCGCATGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCTCTGTGCCG
CC

3728/5332
FIGURE 3253

AGCGGCCGCTGCCCTGACCCGACGGGTATCAGCCGGCTCTCCCCCTCCACCCAGGACGACATGAACGACCGAGGC
CAGGGAGTCCTCTCCTTGGGCCTCTGCATCCCCCATCCTTGGCTCTGGGGTAGGCCCAGGGAGGAGACACCCCC
AACCCTATCCGGTCTGTCTGGAGAAAAGAGACTGCCCTTCCATGCCCTGAGTGAGGGGCCTGGGGCCAGGC
TGCTGTGTTCCCAAGGGCAAGGGTCTCTCTGTTGAGGAGGAGGGGCCTGTCAGCCACAACCTTCTTCTCCTCTG
AGCGCCCCATCTCCCTCTCTGCACCCTGCAATTCCCACCCCTCCGTATTTATTTCCCTGGTCCCGCCGACAGTCC
CCTCCTTGCTGTCTCCGGGATTGAGGCCTCCCTCCCTGACATGGAGAGTAACCTGTCTGGCCTGGTGCCTGCTG
CCGGGCTGGTGCCTGCGCTGCCACCTGCTGTGACCCTGGGGCTGACAGCTGCCTACACCACCCTGTATGCCCTGC
TCTTCTTCTCCGTCTATGCCCAGCTCTGGCTGGTGCTTCTGTATGGGCACAAGCGTCTCAGCTATCAGACGGTGT
TCCTGGCCCTCTGTCTGCTCTGGGCCGCCTTGCGTACCACCTCTTCTCCTTCTACTTCCGAGATACTCCCCGCG
CCAACCGCCTGGGGCCCTTGCCCTTCTGGCTTCTCTACTGCTGCCCCGCTGCCTGCAGTTCTTCACCTTGACGC
TTATGAACCTCTACTTTGCCAGGTGGTGTTCAGGCCAAGGTGAAGCGTCGGCCGGAGATGAGCCGAGGCTTGC
TCGCTGTCCGAGGGGCCTTTGTGGGGCCTCGCTGCTCTTCTGCTGGTGAACGTGCTGTGTGCTGTGCTCTCCC
ATCGGCGCCGGGCACAGCCCTGGGCCCTGCTGCTTGTCCGCGTCTGGTGAGCGACTCCCTGTTGCTCATCTGCG
CGCTGTCTCTTGCTGCCTGCCTCTGCCTCGTCGCCAGGCGGGCGCCCTCCACTAGCATCTACCTGGAGGCCAAGG
TAGGGCTGCAGCACTGATGCCAGGTGTCTTTGGGTCTCTCGGCAGCGGTTCTCAGGGTGTAGAG

3729/5332
FIGURE 3254

GCGCCGTAAATAGAGTCCAAGTGGGCGGAGAGCCGTCCCGCGCCGCCCGCTCATGTCTCTACAGAGCCGACTGTC
CGGCCGCCTGGCACAGCTGCGCGCGGGCGGGGAGCTGCTCGTCCCCCGCGCCCCGGCCCGGACACTTGCGGGG
TGCCACGAGGACCCGACAGCAGCACGTGCGGTCCCCCGGCGTTCTTGGGCGTGTTGCGCCGCCGTGCGCGGACCTC
GGCGGGAGTTGGGGCGTGGGGGGGACGNCGGTGGGGCGGACAGCCGGGGTGCGCACTTGGGCCCCCTGGCCAT
GGCGGGCAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGCTGAGTGACAA
GCAGCGGGAGGAACATTACTTCTGCAAGGACTTTGTCAAGGTGAAGAAGATCCCGACATGGAAGGAGATGGCGAA
AGGGGTGGCTGTGAAGGTGGAGGAGCCCAGGTATAAAAAGGACAAGCAGCTCAATGAGAAAATCTCCCTGCTCCG
CAGCGACATACCAAGCTGGAGGTGGACGCCATCGTCAACGCCGCCAACAGCTCCCTGCTCGGAGGCGGTGGCGT
GGACGGCTGCATTTCATCGGGCCGCCGGCCCCCTGCTTACCGACGAGTGCCGGACCCTGCAGAGCTGTAAGACTGG
CAAGGCCAAGATCACCGGCGGCTATCGGCTCCCGGCCAAGTACGTTCATCCACACAGTGGGGCCCATCGCCTACGG
GGAGCCCAGCGCCAGCCAGGCTGCCGAGCTCCGAGCTGCTACCTGAGCAGTCTGGACCTGCTGCTGGAGCACCG
GCTCCGCTCGGTGGCGTTCCCTTGCATCTCCACCGGCGTGTGGTGGCTACCCCTGTGAGGCGGCCCGGAGATCGT
GCTGGCCACGCTGCGAGAGTGGCTGGAGCAGCACAAAGGACAAGGTGGACCGGCTGATCATCTGCGTGTTCCTCGA
GAAGGACGAGGACATCTACCGGAGCCGGTCCCCACTACTTCCCCGTGGCCTGAGGCTCCCGCAGCCCCACCCTG
ACCGGGACTGACCCGCCTTCGGGACCCCGCTCCCGAGCTCTGAGAGGTGCGCAAAGCCTGCAGCCTGGCCTGGGCC
TGGCCACCCCTTCTTTCCCTCCGCGCCCCGCCCGGAGGAGCCTAATAAAGATCTCGTTGTGGC

3730/5332
FIGURE 3255

GGCGAGGAAGGGGCGGGAGCCGGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGCGTGCGGTTGGGAAC
GCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG
AAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG
GATGGCTGCAAGACTGTGCACC~~TAA~~AGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAGCAGCTCTAGAGTTC
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATAACCTCAACTGAAA
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTAT
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA
CGAAACAAGCCTTCTGACCTGGGCACGAAACTACAAGATCCCGGATCATGACCACTCTCAGCGTCTCCTTGGG
GTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACC
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACGAT
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCATTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGAT
GTGCTCAAGAAATGCCAGCAGG

3731/5332
FIGURE 3256

CCCAACGCACAGTACTGGTCCCAGTTTCACAGCGTGAGGCCACAGGGGCCCCAGTTGAGGCAGCAGCAACACAAA
CAAAACAAACAAGTGCTGGGGTACTGCCTCCTCCTCATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGG
AAGGTGAAGCAGATGCACCTTAACTTCATGGATGAAAAGGATCGGATCATCACAGCCTTCTACAACGAAGCCCGG
GCACGGGCCAGGTCTGTCCCTGCTCTATTCTGCTCCCTGCTCCCTGTCCAGGAACCACACTTCGGGATCCCTATC
CCAACCACCCAGGTGCCCTCTCCTCCAGGGCCAACAGAGGCATCCTTCAGCAGGAGCGACAACGGCTAGGGCAGC
GGCAGCCGCCACCATCCGAGCCAACCCAAGGCCCCGAGATCGTGCCCCGGGGCGCCGGCCCCCTGAGGGGCTCACC
TGGATGGGGCCTGCAGTGCGTTCCCGCTTGCTTCCTTCCTGGACGGCCCGCTCCCCGAAACGCGCGCAATAAAG
TGATTGCGAGA

3732/5332
FIGURE 3257

GGCGGCTGGTGAGCGCCCGCTGGAGGCTGGAGCTTCCGGGCCCTGGAAAGGGGTCCCCGCGCGCCCCGGGTGCGGA
GGCAGACCCCTGGGTTTGGGGGACATGGGCATTTGGGGCGCCTGAACCCAAGACCTCTGGATGAGCTGCCCCGTT
CAGACCATGGATCCTGAGGTGACCTTGCTGCTGCAGTGCCCTGGCGGGGGCCTGCCCCAGGAGCAGATACAGGCC
GAGCTGAGCCCCGCCCATGACCGTCGCCCCACTGCCAGGTGGGGACGAGGCCATCACTGCCATCTGGGAGACCCGG
CTAAAGGCCCAACCCTGGCTCTTCGACGCCCCCAAGTTCGCCTGCACTCAGCCACCCTGGCGCCTATTGGCTCT
CGGGGGCCACAGCTGCTCCTGCGCCTGGGCCTTACTTCCTACCGAGACTTCCTGGGCACCAACTGGTCCAGCTCA
GCTGCCTGGCTGCGACAGCAGGGTGCCACCGACTGGGGTGACACGCAGGCCATCTGGCGGACCCACTGGGGGTG
GGCGCTGCACTAGCCACAGCCGATGACTTCCTTGTCTTCCTGCGCCGCTCCCGGCAGGTGGCTGAGGCCCTGGG
CTGGTGGACGTACCTGGTGGGCACCCTGAGCCTCAGGCCCTGTGCCCTGGTGGCAGCCCCCAGCACCAGGACCTC
GCTGGGCAGCTGGTGGTACATGAACTCTTTTCCAGTGTCTTCAGGAGATCTGTGATGAGGTGAACCTGCCGCTG
CTCACCTGAGCCAGCCCCTGCTGTTGGGCATCGCCCGAAATGAGACCAGTGCTGGCCGAGCCAGTGCCGAGTTC
TATGTCCAGTGACGCTGACTTCTGAGCAGGTGAGGAAGCACTACCTGAGTGGGGGACCCGAGGCCACGAGTCT
ACAGGAATCTTCTTTGTGGAGACACAGAACGTGCAGAGATTGCTCGAGACGGAGATGTGGGCTGAACTCTGCCCC
TCGGCCAAAGGCGCCATCATCCTCTACAACCGGGTTCAGGGAAGTCCCACTGGAGCGGCCCTAGGGTCCCCAGCC
CTACTCCCGCCGCTCTGAAAAATAATAAACGACTTTATTCTTGG

3733/5332
FIGURE 3258

GGCACGTCGGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCAGCGATCTGGGGTGCGGGGCTCGGCCTCCCTG
CGCTCCTGGCTGACCGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCTATGCCCTGCGCCAT
GGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCCTGGGCACCCTCCTGCAGTTGCCCCAG
TTCCGCGGCTTCTCTGCTGAAGATGTGCAGCGCGTGGTGGACACCAATAGGAAGCAGCGGTTCCGCCCTGCAGCTG
GGGGATCCCAGCACTGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGGAGCTGATG
CCCCTGGAGACACCGCAGGCCCTGCCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCATCCATCCTA
CTCAAAGGCCTGTCTGCCAGGGAAGGACGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCCGGTATCATC
AGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAATACCCTTC
TTCCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCCTCCTTCCCAAGTACTTCAAGGAG
GCCCTGCAGCTACGCCCTACCCGAAAGCCCTTTTCTTGGCTGGTGATGAAGAGACAGAGTGTCAGAGTAGCCCC
AAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACATAAAATATTAATTTATAAAAAAGAAATTTTAAAAAGTAA
CAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGT

3734/5332
FIGURE 3259

AGACAGACCCCGTGCGGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA
CCGAGGAGGAGATGATGGTGTGTTGCCGCCCTGCAGTACCACATCAACAAGCTGTCCCAGAGCGGGGAGGTGGGGG
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT
CGGGCCCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTCGGCCCC
GGAAGCTGACCTGAAGGGCTACCGCCAACACTGGGTGGTGTTCAGGAGACCACACTGTCTACTACAAGAGCC
AGGACGAGGCCCTGGGGACCCATTGAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT
CCGGCCAGAAGTCTGCAATAAATCCTAGTGCCCTCCCCTGAGGGCATGAGTGAGATCTACCTGCGGTGCCAGG
ATGAGCAGCAGTATGCCCCGCTGGATGGCTGGCTGCCGCCCTGGCTCCAAAGGCCGCACCATGGCCGACAGCAGCT
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCTCAGCCTGCAGCGCACGGGCAGTGGGGGCCCCGGGCAACCACC
CCCACGGCCCTGATGCCTCTGCCGAGGGCCCTCAACCCCTACGGCCTCGTTGCCCCCGTTTCCAGCGAAAGTTCA
AGGCCAAGCAGCTCACCCACGGATCCTGGAAGCCCACCAGAATGTGGCCCAGTTGTCGCTGGCAGAGGGCCAGC
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA
CCTGGCGTTTTAGCAACATGCGCCAGTGGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC
TGTCGACGCGGGAGCGGGCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCCTGCAGCTCACCGGGGGCCATGAGG
'CCTTCTGAGGGGCTGTCTGATTGCCCCTGCCCTGCTCACCACCTGTACAGCCACTCCCAAGCCCACACCCACAGG
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTACCTGCTGTCACTGACTTTGTGCAGG
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATCACCCAGGCCAAGGATGGGGGTGGGGGTCCCTGAGCTCATGT
GGTGCCCCCTTTCCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTTCTTGTTACTTTTAAATTTCTTTT
TTATAAATTAATATTTTATTGTTGG

3735/5332
FIGURE 3260

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCGTCCTGACGCCGCTGCTGCTGCGGGGCT
TGACAGGCTCGGCCCCGGCGGCTCCAGTGCCGCGCGCCAAGATCCATTTCGTTGCCGCCGAGGGGAAGCTTGGA
TCATGGAATTGGCCGTTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC
TGGAGACCTACAGGAGGCCAGAGTGAAGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCATTCAATTCCAGTCACCTCTTCTGC
AATCATGACCTCTTGATGCTCCATGGTGACCTCCTTGGGGGTCACCTGACCCTGCTTGGTGGGGTCCCCCTTGTA
ACAATAAAATCTATTAAACTTT

3736/5332
FIGURE 3261

GGTTGAATGTCTCCATTGAATGTAAGCGAGTGTCTGGACTGGAGCCAGCCACCGTGGATTGGGCCTTCGACCTGA
CCAAAACGAATATGCAAACCATGTATGAGCAGAGCGAGTGGGGCTGGAAGGACCGAGAGAAACGGGAGGAAATGA
CAGATGACCGAGCCTGGTACCTCATCGCGTGGGAAAACAGCTCCGTCCCTGTTGCCTTTTCTCACTTCCGGTTTG
ACGTGGAGTGTGGGGATGAAGTCTGTACTGCTATGAAGTGCAGTTGGAAAGCAAGGTGCGGCGGAAAGGCCTGG
GGAAGTTCCTCATACAGATCCTGCAGCTCATGGCCAACAGCACACAGATGAAGAAGGTTATGTTAACAGTATTTA
AACACAATCATGGTGCCTACCAGTTCTTCAGAGAAGCGTTGCAGATTGAAATTGATGACTCTTCCCCAGCATG
TCCGGTTGCTGTGGGGAGGATTGCTCCTATGAGATCCTGAGCCGGAGGACCAAGTTTGGGGACAGCCATCACTCC
CACGCGGGTGGGCACGTGTGGTGGCTGCTGCCACTGAACTCTCAGAGCCACTTTCAAGTCACAAATGCTCTCTCCTA
AGGCCCTTTCCTCTTTCCTGGTCTCACTGTTACCGGGTGTCTCAGAGCTGTGGCCTCCCCAGCCCTGCACGTGC
CAGGCTGCGCCCTGAGAGCACAGAACCCTGGGGAGAAAGTGGTATCAGCTGCTCCTCCTCTCCTAGGAGACCAGAG
TGCTAGAAGGGAATGAAAGGGAGAGGGAAGAGTAGGTGGGGCCGGGACAGTGAAGCTCATCTCCACAGTGGCTGC
CTCCTCATTTGGCTCCTGGGGCCTGCAGTGGAGGTTCTCGCACCTCTGCAGCCCCTAGATTCTGGCAACCTCCC
CTCCCCTGACACATACACACTTGGACAAATGGAATGTTTATGTCCACCTTTATGAAAGTTCTGGAGTCTTGGGTC
TGGGGTTTGTGTGCTCCCCAAGAGGAACACACTGGGTGTAAGATCTGGGTGTAGAGGGCGGCTTCAGAGAGACTC
ACGCTTGCGCAGTTGGAATTGCTGTTAACGGAGACTGGGAAGATCTTTGTGCCAAGATGCAGGGAATGAAGAA
AGCTCTTTCCAGCTGTTTTATGGATTTCATGGAGTGGGCTCATGTTGGGACCAGCTGACTCTGGGAGGAAGACTG
CCTCTCCATCGCTGTGAGAGAGCCTGAAAGGACCAACAATGAGGTGTTCTTGGGACCCGCCATGGGGATGATTGC
TTCTCTAGGCTCCTGGATGTTGCTGCATTCTAAGCTTAACCTCCTGGTCTCATGGCAGTGAAGTGGAGCTTTTGAT
TCATAGAAGAAAGCCAGAGGTTCTGCTTGTCTTGTCTGCCAGCCCTCGTCGTTCTTTCTCCTCTGCCTCTCACC
TCTACCCCAAATACCTCTGTTCTTAGTCTCAAGGGGAGAATAACATCAGGGAGCCCTCATCTTCCCCAGAAGGA
CTTCTCGTTCTCATGTAGTTAACTCCATTGATTTTCTATCTTGGTGCTGATAGCTCTCTAAGGGTAGGGCACA
CCTCCCCACAGCCACCCTCCCTCTTCAGAGAGCCCCAGCCAGCAGCAGGCCCCCTCTGCCTGCACTCCTCAGGCT
TGCCCCCTCGCTGCCTCAGTGAGGCACTAGTGCCACTGCCGTGGCCAGCCGGGCCATAGCTCAGGCTGCAGCAGA
AATGCCTCTCAGTGGCCAACAGTTGCTTTTCTCTCTGGTGTACCCCTGTGGCAACAGGCTGGAGCAGGGGAAGGA
GAAAGCCTTCTCTTCTCTCATAGGATAGAAAGGCAGGCTCAGAACTAATGCTCATCCTGATCTCTAGGCCTTGT
TCCTCTTCCAGGGAAGAAAAGCCAAATCCTTATCAAGGAAAAGCACCTAACAGCTCCCTTTGGATATCCCTGAG
CTCTGCTGTGGGGAGTATCATAAAGGTTCTAGCCTTCGTGAAGTTGTTCTCGTGGAGGTCTGTTGGTCCCTCTGA
CCTCAGCATCTGCTCACATCCCACCCTCTGCCAACTCTGGCAGTCTCTCCTGGCAGATCTCCCCAGAGTGGTCC
TTGCTTCTCACCTGGATTCTGTGCTTGTGTCAGGAGCCTGTGTACACAGGGCCTCCCTCAGCCAGCCTGGCCCCCTCT
GCTGAGCACTTTGCGCTGCTCTTGATGGGCAGCAGTGGGACTGGGAACCTTAGAGAGGGCCTTGCAGCTTTAC
ACTGGAATAGTCTGCCTCTGCCTCTGCCTCACCCTGCTGGCTCCTGGTGGGTTTATCCCAGGCAGAGTTGACA
TTGCTGGAGGGGTTTGGTGGACTCCTAAGAATCATGAAACCACAGGAGCATGTTTAGGAAGAGATTTGTCTCTGG
TCCCTGTCTCTGAAAGGACACAGATGCTAAATATTTATTGTCTTAGATCATGGATTCTGTATACCTCTCACTCAA
GGGGACCAAAAGGGACCCCCCGTGTTCATCCCTGTAAAGGTGAGTTCAGTCTACGTTGTCTCTTCCAGTCACT
GGATACGTGGCACCAACTGGTCAATGGGTGCTTGGTGCCATACCCTGCTCACCCTAGTCTCTGCAGGCCATGTCC
TGAAGGGTTCTCAGGAGGTGCGGACTAGGGTGGGAGAGGCACTATCTGAGACCTGCAATCACTCTTGTGGTCT
TGAGCCCATTCTTTCCAAAACATCCATCTTCTCCACTTTCCCCAGGTCTTGGTTTTGAGAAAACAGCAGGCATG
GCTGAGTGGGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGGTCACCTGAGGTCAGGA
GTTCAAGACCAGCCTGGTCAACATGGCAAAAGCCCATCTCTACTAAAAAATACAAAATCACCAGGCGTGGTTG
TGGCCTGTGATCCAGCTACTCGGGAGGCTGAGGCAGGAGACTCGCTTGAACCCAGCAGGTGGAGGTTGTGGTGA
GCTGAGATCACGCCATTGCACTCCAGCCTAGGCGACCGAGTGAGACTCCATCTC

3737/5332
FIGURE 3262

AGGTGTTAACTGTCTGGCCTATGATGAAGCCATCATGGCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCA
GAACCCTCTGGTGTGAGAGCGGCTGGAGCTCTCGGTCCTATACAAGGAGTATGCTGAAGATGACAACATCTATCA
ACAGAAGATCAAGGACCTCCACAAAAAGTACTCGTACATCCGCAAGACCAGGCCTGACGGCAACTGTTTCTATCG
GGCTTTCCGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGTTGCAGCGGTTCAAGGCTGTGTCTGC
CAAGAGCAAGGAAGACCTGGTGTCCCAGGGCTTCACTGAATTACAATTGAGGATTTCACAACACGTTTCATGGA
CCTGATTGAGCAGGTGGAGAAGCAGACCTCTGTGCGCCGACCTGCTGGCCTCCTTCAATGACCAGAGCACCTCCGA
CTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCGAGAGCAAGTTCTTCGAGCACTTCAT
CGAGGGTGGACGGAAGTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCATGTGCAAGGAGAGCGACCACATCCA
CATCATTGCGCTGGCCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACATGGACCGCGGCGAGGGCGGCACCAC
CAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCTACCGGCCTGGACACTACGATATCCT
CTACAAATAGGGGCTGGCTCCAGCCCGCTGCTGCCCTGCTGCCCCCTCTGCCAGGCGCTAGACATGTACAGAGGT
TTTTCTGTGGTTGTAAATGGTCCATTTCACCCCTTCTTCTGTACATGACCCCCCATGTTTTATTAAAG
GGGGTGTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCGCTGGCTGCTGTCTGCTGCCCCCTC
CCCCAGGTGGGTCCCCCTGCTTTTACCTATCTACTCCTGAGCTTCCCCAACAGGAGCAGGTTTGAGGGGCCAG
GCCTCTTGAGGGCCCCCTCCTGCTTCGTTGGGTTCCTGCTTCCTTCCCTTCTTAGCTGGCTCAGGGGCTTCTATGGG
ATCCTGGAAGTTCCCTTAGGGACTTGCCAGGGTCCCAGGGCCACCCACACTTCATCTGCTCCCTCATAGGCCCCA
CCTCCACGTCCCGGCTGGGCCCCAGACCCAGCTTCTGCCCTCCACCGGGAGTCTGCATGGTTGGGAGTCCTGG
GTGGAGGGGCCCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGCTGGGCCTCCACAGGGTGCCCGGGC
AGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGTCTACAGTCCTCAGGTCTAGGCAGGGCTGCCG
GTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCTGCTTGCACCCCTCTGCTTGGGCCACGGTGT
CTCTGCATTGCCTGCCTTTTTGCCTTACCTCTTTTCTTCCCGCCCCCTGCACATTGGGGTCTCAGCCCCCAG
GCTGTGAGCTCCTTGGGGGCAGGCCCTCAATAAATGTGAAGTGTGCTGCTGCCGCC

3738/5332
FIGURE 3263

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAGATGGCTTCGCCACA
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGTCTTCTCAGTCCTGAG
CAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA
GTACAGTATTGTGAGCAGGAACCTGTGAGCACTTTGTCACCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT
GGAAAAGGCCAAGGTTGAAGTTGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGAT
TAGGAGATACCAAAAAAAGCGACAGCCTGAAGCAGCCACAAAATCCTGTGTAGAAAGCAGCTGTGGGGGTCCCA
GTGGAGATGAGCCTCCCCCATGCCTCCAGCAGCCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC
CTCTGTTTCCCTCTCTCGCTGGCAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG
CCCTTC

3739/5332
FIGURE 3264

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCC
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG
GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTGTGACTGGCGAG
TGGGGCCGAGCCACAAGGCGGAAGGCAAGGTTCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA
GACTTATTACTAGATGATTTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC
TCACAGCTCTGAAGGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCCAGCCCTGTGCTGGGG
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

3740/5332
FIGURE 3265

GGAGCCGCCATGTAAACGGCGCCGCCCGGAGCCCGAGCCGCGCGGGGCCCCAGCGACCCGCCCGCCATCGGGGACG
AGGACGACGATGAGAGCTGCGCCGTGGAGCTGCGGATCACAGAAGCCAACCTGACCGGGCACGAGGAGAAGGTGA
GCGTGGAGAACTTCGAGCTGCTCAAGGTGCTGGGCACGGGAGCCTACGGCAAGGTGTTCTGGTGGGAAGGGCG
GCGGGCACGACGCGGGGAAGCTGTACGCCATGAAGGTGCTGCGCAAGGCGGCGCTGGTGCAGCGCGCCAAGACGC
AAGAGCACACGCGCACCGAGCGCTCGGTGCTGGAGCTGGTGCGCCAGGCGCCCTTCCTGGTCACGCTGCACTACG
CTTTCAGACGGATGCCAAGCTGCACCTCATCTGGACTATGTGAGCGCGGGGAGATGTTACCCACCTCTACC
AGCGCCAGTACTTCAAGGAGGCTGAGGTGCGCGTGTATGGGGGTGAGATCGTGCTGGCCCTGGAACACCTGCACA
AGCTCGGCATCATTACCGAGACCTGAAACTGGAGAATGTGCTGCTGGACTCCGAGGGCCACATTGTCTCACGG
ACTTCGGGCTGAGCAAGGAGTTCCTGACGGAGGAGAAAGAGCGGACCTTCTCCTTCTGTGGCACCATCGAGTACA
TGGCCCCCGAAATCATCCGTAGCAAGACGGGGCATGGCAAGGCTGTGGACTGGTGGAGCCTGGGCATCTTGCTCT
TCGAGCTGCTGACGGGGGCTCGCCCTTCACCTGGAGGGCGAGAGGAACACGCAGGCTGAGGTGTCTCGACGGA
TCCTGAAGTGCTCCCTCCCTTCCCCCTCGGATCGGGCCCGTGGCGCAGGACCTGCTGCAGCGGCTGCTTTGTA
AGGATCCTAAGAAGCGATTGGGCGCGGGGCCCCAGGGGGCACAAGAAGTCGGAACCATCCCTTCTCCAGGGCC
TCGATTGGGTGGCTTGCTGCCAGGAAGATTCAGGCTCCATTCCGGCCCCAAATCCGCTCAGAGCTGGATGTGG
GCAACTTTGCGGAGGAATTCACCTGGCTGGAGCCTGTCTACTACCCCTGGCAGCCCCCACCTGGGGACCCCC
GAATCTTTCAGGGATACTCCTTTGTGGCACCTCCATTCTCTTTGACCACAACAACGCGGTGATGACCGATGGGC
TGGAAGCGCCTGGTGTGGAGACCGGCCAGGTGCGGCAGCGGTGGCCAGGAGCGCTATGATGCAGGACTCGCCCT
TCTTCAGCAGTACGAGCTGGACCTGCGGGAGCCTGCGCTGGGCCAGGGCAGCTTTTCTGTGTGTCGCCGCTGCC
GCCAGCGCCAGAGCGGCCAGGAGTTGCGAGTCAAGATCCTCAGTCGAGGCTGGAGGCGAACACGCAGCGCGAAG
TGGCTGCCCTGCGCCTGTGCCAGTCACACCCCAACGTGGTGAATCTGCACGAGGTGCATCACGACCAGCTGCACA
CGTACCTGGTCTGGAGCTGCTGCGGGGCGGGGAGCTGCTGGAGCACATCCGCAAGAAGCGGCACTTCAGCGAGT
CGGAAGCAAGCCAGATCCTGCGCAGCCTCGTGTGCGCCGTGAGCTTCATGCACGAGGAGGCGGGCGTGGTGCACC
GCGACCTCAAGCCGGAGAATCCTGTACGCCGACGACACGCCCCGGGGCCCCGGTGAATATCATGACTTCGGGT
TCGCGCGGTTGCGGCCGAGAGTCCCGGGGTGCCATGCAGACGCCCTGCTTCACGCTGCAGTACGCTGCCCCCG
AGCTGCTGGCGCAGCAGGCTACGACGAGTCTGCGACCTCTGGAGCCTGGGCGTCATTCTGTACATGATGCTGT
CGGGGCGAGGTCCCTTCCAGGGGGCCTCTGGCCAGGGCGGGCAGAGCCAGGCGGCGGAGATCATGTGCAAAATCC
GCGAGGGGCGCTTCTCCCTTGACGGGGAGGCCTGGCAGGGTGTATCCGAGGAAGCCAAGGAGCTGGTCCGAGGGC
TCCTGACCGTGGACCCCGCAAGCGGCTGAAGCTCGAGGGACTGCGGGGCGAGCTCGTGGCTGCAGGACGGCAGCG
CGCGCTCCTCGCCCCCGCTCCGGACGCCCCGACGTGCTCGAGTCTCTGGGCCCCGAGTGCCTCGGGTCTCAACG
CCACCTTCATGGCATTCAACCGGGGCAAGCGGGAGGGCTTCTTCTGAAGAGCGTGGAGAATGCACCCCTGGCCA
AGCGGCGGAAGCAGAAGCTGCGGAGCGCCACCGCTCCCGCGGGGCTCCCTGCACCAGCCAACCCGGGGCGAG
CCCCGTGCGCTCCAAAGGGGCCCCCGCGGAGCCAACGGCCCCCTGCCCTTCCCTTAAATCCCCACCAGTGTGAC
CCCCCTCCCTCATAGGGGCTGTGACCTGGGAGCCCGGCTCACTCCCGAGGCTCTGCCTGCGGCTGACCTGATC
CCCAAGGGACTGTCTTCTCTCTACCCACCCCACTCCAGACAGAGCAGAAGTATTTTTATAAGCAGAGAA
TTTTTTATGTCTTACCAGATAGAGTTGCAGGGAAGGGGGGCGCTGTGGGAGTGGGGTTTGGGGGGCCCTCTCC
CAGGACACTGCCTTCTTGGGCAGAAGGCCCTCCAGGGGACTGCTCCAACAGGAAAGAGCCCCCTCCCCACTT
CTAAGCACTGAGTTAGGAGTGCTAACTCCTAACTGGGACCCCTACCCTGTTCTCCCTGAGGCCCCGTTCTG
GGAGGGGCACCCCTCAACTGTCACTTTATGGACTGTCTGTGCAATTACGTCCACCAAGACCCGTGTGGGGTA
CTGAAGGAGAGGCCCTGGGGACCCCTCTGAAGCATTCTGCCTCACTTTATGTCATCTGCTTCTCCCTGTGGG
GCTAAGGAAGGAGATAGTGGCTCCTAAAGAGGAGGCCATCTTCTACCCACCCCTTCTCTTTGGCACAGCTA
CTCCTGGCTGGGGGTGGGGCCTTGGGGGTCTGGGCTGGGCATCCATGGTCACTGCCTCAGCCAGCCAGGCTGTG
CCTTGACTTTAAATAAAAGTCCACCCAGTGTGTGTGGC

3741/5332
FIGURE 3266

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCCTAGCCCATCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCGGGCCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCAGCTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCCAGCCACCCCGCGCCGGCGGCCATGGCAGGCACCCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCGCGAGCTGGTGCAGTGTTCCTCATGATGCACCCCTGGTACATCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCTTCCAGCGGAGTTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGAAGC
GGCAGGTGACTCAGCGGAACCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGATCCTGAGCAAAACCCAGCCCGCAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG
GGGAGAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTTCGGGGCCCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAACCTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTTCGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCAAGATGAAGCAGCTCTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCACTACAGG
CCAACCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCAACACAGCCACAGAGTTGCACCCACCAACCCGGCCCCCGG
TACTGGAGGAGTGACCTCGGCTGCCAAACCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACCTTGACGTCGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACCTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCTATTTCCTGCGCTCCAGCTCTGTGTTGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT
CCTTGCGCCCCGCTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAAGTCCACAAGCAGTGCAAGGATCGCCTGTGAGTTGAGTGTGCGCGCAGGGCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCCCTACCCCTACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG
ACATCCACTTGTAAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCC
GTGTAATTAACCTTC

3742/5332
FIGURE 3267

ACTTACTGTCATTAAACCAGTATGATGATGGAGTGGGGAATGCCTCAGTTTCTCCACCGCCGAGGGCCTATAGG
ACTACAGTTCCAGGGCCCCGTGCTGCAGGCTAGCGGCCTCCCGCCAATGCTGGCCAGTAACCTGAGCATCCCTC
TCCAAAAGGTCACTTCAGGGCTCCTTGAGGGACAGCAACAGGGGGAGCCTAGAGCTGCTCAGCTTCGGTGGGGGT
GGAGTGAGGGCTGTGGCCCTGCCTCACACAACCTCCCTCACACCACCCCTGCAATGCAGGGTCTGTGGGCCCTTT
CTCAAAGACATCCAGTGGCCTCTGCTAGTTGCACCTCTTCCGTCAGGGGACACTGACTTGGCTCCTGCACCACAG
CCTGCAGGGGGTCTCTGGTTTCCTTTTGCCACAACACATGGCCTCCCATCCTGGTTGAGCCACTGACAGACAGCTCC
CCAATCCAGCACTCTGCCTGCTCCTTCTTGATATCCAACCTCCAAAAGGCAGGGACAAGGGACAGAAGACCATGT
GCAAGGCCTGGAGGAAGTGGGTGAGCACAGGCCTGTGAACAAGCCAGGCCAGTCTTGGCGGCCCAAGTGGAGCTC
ACCTCTCCCTCCCTCTCCTCTCCTCCCTTGCCCTCAAAATAGCTCCCTGAGCTGCCAGGCCAAGACCTCCCA
TTGCAGGGGAGGCGGGGCGTGTGCCAGAGCCAGGCTTTAAATCCCTTGAGGCTGGGGAGCTCCACTCCTTGG
CTGGAGGCAGTGCTGAGGCGCGCTCCCTCTACCATCAGTCCAGTCCGGCCCGCCCTCCTGCAGCCATGTTCCCG
GCCCCGTGTGAGACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCCGGCGTGGAGAACGTGACTGAGCT
GAAAAGAACTCAACCGGCACCTGCATTTACACATCGTAAAGGACCGCAATGTGGCCACCCACGAGACTACTA
CTTTGCTCTGGCCCATACCGTGCAGCACCTCGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTATGAGAA
GGACCCCAAGAGGATCTACTACCTGTCTTTAGAGTTCTATATGGGACGAGCGCTACAGAACACCATGGTGAACCT
GGCCTTAGAGAAATGCCTGTGACGAGGCCACCTACCAGCTGGGCTGGACATGGAGGAGCTGGAGGAAATTGAGGA
GGATGCGGGGCTGGGCAACGGGGGCTGGGCCGGCTGGCAGCCTGCTTTCTTGACTCCATGGCAACACTGGGCCT
GGCGCCTATGGCTACGGGATTGCTATGAGTTTGGGATTTTAAACCAGAAGATCTCCGGGGGCTGGCAGATGGA
GGAGGCCGATGACTGGCTTCGCTACGGCAACCCCTGGGAGAAGGCCCGGCCGAGTTCACGCTACCTGTGCACTT
CTACGGCCATGTGGAGCACACCAGCCAGGGTGCCAAGTGGGTGGACACACAGGTGGTACTGGCCATGCCCTACGA
TACGCCCGTGCCTGGCTATCGCAACAATGTTGTCAACACCATGCGCCTCTGGTCTGCCAAGGCTCCCAATGACTT
CAACCTCAAGGACTTCAATGTGCGTGGCTACATCCAGGCTGTGTTGGACCGAAACCTGGCGGAGAACATCTCTCG
TGTCCTGTACCCCAATGATAATTTCTCGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTATTTCTGTGGTGGCTGC
CACCTCCAGGACATCATCCGTCGCTTCAAGTCTTCCAAGTTCGGCTGCCGTGATCCCGTGCGCACGAACCTTCGA
TGCCTTCCCAGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCCCTGGCCATCCCCGAGCTGATGAGGAT
CCTGGTGGACCTGGAACGGATGGACTGGGACAAGGCGTGGGATGTGACAGTGAGGACCTGTGCCTACACCAACCA
CACGGTGTGCCCCGAGGCCCTGGAGCGCTGGCCGGTGCACCTCTTGGAGACGCTGCTGCCGCGGCACCTCCAGAT
CATCTACGAGATCAACCAGCGCTTCCTCAACCGGGTGGCGGCCGATTTCCAGGGGACGTAGACCGGCTGCGGCG
CATGTGCTGGTGGAGGAGGGCGCAGTGAAGCGCATCAACATGGCACACCTGTGCATCGCGGGTTCGCACGCCGT
CAACGGCGTGGCGCGCATCCACTCCGAGATCCTCAAGAAGACCATCTTCAAAGACTTCTATGAGCTGGAGCCTCA
TAAGTTCCAGAATAAGACCAACGGCATCACCCCTCGGCGTGGCTGGTTCTGTGTAACCCCGGGCTGGCAGAGGT
CATTGCTGAGCGCATCGGGGAGGACTTCACTCTGTGACCTGGACCAGCTGCGCAAACCTGCTCTCCTTTGTGGATGA
TGAAGCTTTTCATTGCGGATGTGGCCAAAGTGAAGCAGGAAAACAAGTTGAAGTTTGTGCTGCTACCTAGAGAGGGA
ATACAAAGTCCACATCAACCCCAACTCACTCTTCGACATCCAGGTGAAGCGGATTCACGAATATAAACGACAGCT
CCTCAACTGCCTCCATGTATCACCCCTGTACAACCGCATCAAGAGGGAGCCCAATAAGTTTTTTGTGCTCGGAC
TGTGATGATTGGAGGGAAGGCTGCACCTGGGTACCACATGGCCAAGATGATCATCAGACTCGTCACAGCCATCGG
GGATGTGGTCAACCATGACCCGGCAGTGGGTGACCGCCTCCGTGTATCTTCTGGAGAACTACCGAGTCTCACT
GGCCGAGAAAGTGATCCCAGCTGCAGACCTCTCTGAGCAGATCTCCACTGCGGGCACTGAAGCCTCAGGCACCGG
CAACATGAAGTTCATGCTCAACGGGGCTCTGACCATTGGCACCATGGACGGGGCCAATGTGGAGATGGCAGAAGA
GGCGGGAGAGGAAAACCTTCTTCATCTTTGGCATGCGGGTGGAGGATGTGGATAAGCTTGACCAAGAGGGTACAA
TGCCCAGGAGTACTACGATCGCATTCTGAGCTTCGGCAGGTCAATTGAGCAGCTGAGCAGTGGCTTCTTCTCCCC
CAAACAGCCCCGACCTGTTCAAGGACATTGTCAATATGCTCATGCACCATGACCGGTTTAAAGTCTTCGCAGATTA
TGAAGACTACATTAAATGCCAGGAGAAAGTCAGCGCCTTGTACAAGAACCAGAGAGTGGACGCGGATGGTGAT
CCGGAACATAGCCACCTCTGGCAAGTTCTCCAGTGACCGCACCATTGCCAGTATGCCCGGGAGATCTGGGGTGT
GGAGCCTTCCCGCCAGCGCCTGCCAGCCCCGGATGAGGCCATCTGAGCCTCCAGACCAGACCCCAAACAGCCCT
TGAGTCTGTCACTCTCTTGGGCCAGCCCCAGCACCTCATGCAGAGGGTGGGGTACTGGAGTTAGATCTCT

3743/5332
FIGURE 3268

AATTAAGAGTGCAGCGCTGCGACACCTCCAGGCCACCGAACTCCGCCGCCATTTCCTCGCTTGGCCTAACGGTTCC
 GCCAATCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTTCAGCCCTTCGCCTCGG
 CCCGGCCCAATCCAGGCCCGGCCCGCCGCCCGGCCCGGCCCGCGGTGCCCTCTCTCCTCCCTCTTTGTGC
 GTCTCGCGCCGCCCGCCCGCCGCGTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCCGGTCCCCCTCCC
 CCCGGGAGGCTTGCGAAGGAGAAGCCGCCGAGAGGAAAAGCAGGTGCCGTGCCTGTCCCCGGGGGCGCCATGG
 CGACCGGAGCGAACCCACGCCGTTGCACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA
 TGGAAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT
 ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCCCT
 AGGACAGGTCCCCCTTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCGCGACCC
 GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAGCCACCTG
 CAGATTACAAACCTCCAGACAACAGTGTGAGTGATAAAGTCATGATTCACAAAGATGATACCCAGAAATCAACT
 TTGTGGGGCTGCTCATCGGGCCGAGGGGAACACCTCGAAGAACATAGAGAAGAGAGTGAATGCCAAGATTATGA
 TCCGGGGGAAAGGTTCTGTGAAAGAAAGGGAAGGTTGGGGCGAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC
 CACTTCATGCCCTGTTACTGCCAATAACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAAACATCCTGA
 AGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG
 GGACCCCTTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGCAGCATTACCAACACCA
 CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCAAAGGCCCTGGTGATCCTCAGT
 CAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAAGTGGGTGAAGCACCTGTCCCAG
 CATCTGTGGGCTCCACCTCTGGGCCTGCCACCACACCCCTGGCCAGCGCACCTCGTCTGTGCTCCCCGCCAACA
 ACCACCTCCACCGTCTCTCATGTCTACCAACCAGAGCCGCCACCCTGGATGAATTCTGGCCCTTCAGAGAGTC
 GGCCCTACCACGGCATGCATGGAGGTGGTCTGGTGGGCCCGGAGGTGGCCCCACAGCTTCCCACACCCATTAC
 CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAAACCCCAATGGACCCCCACCCCTTGGATGCAGC
 CACCACCACCACCGATGAACCAGGGCCCCCACCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG
 GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA
 TGATGCCCGCCGCCCGCCGCTCCAGTGGCGAGCCCCACCCCTCCTCTGGTCTCTTCCCCCATGGCAAC
 AACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCCAGCAGTATGGCTTCAGTACCCCTTGGCATGGCAGC
 AAAATACGACGACTACCAACCAGCGCTGGCACAGGGTCCATCCCGCATGGCAACAGCAGCAGCGCGCTGCCG
 CAGCTTCTCCAGGAGCCCTCAGATGCAAGGCAACCCCACTATGGTGGCCCTGCCCCCCGGGGTCCAGCCGCTC
 TGCCGCTGGGGCCCTCCCCCTCCGCCCGTAGCATCAGTGTCTTCTTTGTCTTCTTTCTCTCCTCACCCAAC
 TCCCTTTGCCTCTCCCCAAACCGGGCCGCCAGGATCCCTCCCCCGCGCGCGATGGCCGAGCCATCAGAGTGAG
 GACTTTCCGCGCCCATTTGGTGACCCTTCAGGCAGACAGCCTCAGCAACGCCCTGGTGGACAGGATGGTTCGGC
 AAAGCAGCCTGAGTTATTTTGTGGACGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTATTAATTTT
 TTCTTTTCTTTTGTACTTCTTTATCTTTCTTTCTTTCAGACTCCGTCCAAGGAGATGCTCTCCCCGGTCTTC
 TGCTGCAATTAGATTCCCTTTCCCTTCTCTCCAGTTCCTTCCCTTACCAAGGAGAGGGGAGCAAAATGGTTTTG
 GCAAGGGCTTTGGCCATTATGTCAGCTGGTGTGGGTTTTTCAAGGTGCCATAGCCACCCCCAAATATGTTT
 GTTAAAGCGTGGGGTTTTTTAATCTCTGCCACCCTTGTCAAGGGAGTCTTGTAAGTTGCCGAGGGTAGGTTCA
 TCTCCAGGTTTCGGGATTCATCCGTCCTGGCGATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC
 TCGCCTGCCAGCTGGAGTTCTTCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTGGTCTCTCCT
 TCTTGAAGGCTTCCCTTTATGTTTTGTTTTAATCCCAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTTGAGC
 CCTTGTTCATTCTCTCTTTTCTTCTCCCGCTTCCCTTCATATGAAGTGATTCTGTTGACAATAATGTATACT
 GCGCGTTCTCTTCACTGGTTTTATCTGAGAAATTTCTCTGGGCTTTTTTCGGTGTTAGATTCAACACTGCGCTAA
 AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

3744/5332
FIGURE 3269

GCGCCGGGGCCATGGCGCTGCTGCGGGATGTGTGCTGTCAGGACCCGCGGGACCGCTTCGAGCTGCTGCAGCGCGT
GGGGGCCGGGACCTATGGCGACGTCTACAAGGCCCGGACACGGTCACGTCCGAAGTGGCCGCCGTGAAGATAGT
CAAGCTAGACCCAGGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTGAGTGCCGCCACCCCAA
TGTGGTGGCCTACATTGGCAGCTACCTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGGCTC
CCTGCAGGAGATTTACCATGCCACTGGGCCCCCTGGAGGAGCGGCAGATTGCCTACGTCTGCCGAGAGGCACTGAA
GGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCCA
GGGAGATGTCAAACCTGGCTGACTTTGGGGTGTGAGGCGAGCTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTCAT
TGGGACTCCCTACTGGATGGCTCCCGAGGTGGCTGCTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGT
CTGGGCCCCTGGGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATGAGGGC
CCTGATGCTCATGTGGAAGAGCAGCTTCCAGCCGCCCAAAGTGAAGATAAGACTCGCTGGACCCAGAATTTCCA
CCACTTTCTCAAACCTGGCCCTGACCAAGAATCCTAAGAAGAGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTT
CAGGACTCAGCAGCTCCCTCGGGCCCTCCTCACACAGCTGCTGGACAAAGCCAGTGACCCTCATCTGGGGACCCC
CTCCCCTGAGGACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCACTCCCGGGGGCAGCACGGCCC
AGCCGAGAGGACCCCTCGGAGATCCAGTTTCACCAAGGTGAAATTTGGCGCCCCACGCAGGAAGGAAATGACCC
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAGGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT
CCAGGAGGCCCTGGAGGAAAGAGTCTGACTATTGCGTCAGCCTCAGAATTCCAGGAGCTGGACTCCCCAGCAG
TACCATGGGAACCATCAAGCGGGCCCCGTTCTAGGGCCACTCCCCACTGACCCTCCAGCAGAGGAGCCTCTGTC
CAGTCCCCCAGGAACCCTGCCCCACCTCCTTCAGGCCCAACAGCTCCCCACTGCTGCCACGGCCTGGGGCCAC
CATGAAGCAGCGGGAGGATCCTGAGAGGTATCCTGCCACGGGCTCCCCCAACTCCCAAGGTGCATATGGGCGC
CTGCTTCTCAAAGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTACCTGGATTCAACCCTGTTACTCG
GGACCAGTTCTGGTGGTAGGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAAGTGCATGAGGATACGCT
GGAGAAGCTGATTTACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAAATC
CACGCACATCTGGGCCCATGACCTCCAGGCCTGTTTGAGCAGCGGAGGCTACAGCAACAGGTTCCCCTCTCCAT
CCCCACCAACCGCCTCACCCAGCGCATCATCCCCAGGCGCTTGTCTGTGCCACCAAGATTCTTGACACCAAAGG
CTGCTTGCAGTGTCGTGTGGTGCAGAACCCCTACACGGGTGCCACCTTCTGCTGGCCGCCCTGCCCACCAGCCT
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCCAGCCC
AGCTGGGATGCTGGAGCCGCTGGTGTGCTGGATGGGAAGGAGCTGCCGAGGTGTGTGTTGGGGCCGAGGGGCCTGA
GGGGCCCGGCTGCCGCGTCTGTTCATGTCTGCCCCCTGGAGGCTGGCCTGACGCCCCGACATCCTCATCCCACC
TGAGGGGATCCCAGGCTCGGCCCAGCAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG
TGTGAGGATTGTCAACATGCAGGGCGAGCCCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCCATCGA
GACTGTGGTGTGCCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGCCTGGATACCAA
TGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTTCCGAGTGTCTGGGGCCACAGAGACATCATCTTGA
GAGCATTCCCCTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTCACGGGCCACCAGAGCACCTACTAAGA
GCAGCGGGCCTGTCCAGGGGCTCCCCGCCCCACCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGCCCAT
CCTAGACCAGAGGAGCCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTGAGAAGTAATCCTGAGAAATGTTTCAGGC
CTGGGGAGGGAGGGGAGCCCCGACGCTCTGCAATAACTGGACCAGGGGGAGCTGCTGTCACTCCCCCATCCCC
GAGGCAGCCAGTCCCTAGTGCCCAAGGCAGGGACCTGGGCCTGGGCCATCCATTCCATTTTGTTCACATTTT
CTTTCTACTCTTCTGCCAAGAGCCTGCCCTGCATTTGTCTGGGAAACACGGTATTTAAGAGAGAACTATATT
GGTATTAAAGCTGGTTTGT

3745/5332
FIGURE 3270

TATATTTATGTATATGCACATACACACAAAATTAGGCGGGAGTGGTGGCGCACGCCTGTGATCACAGCTACTCGG
GAGGCTGAGGCACGAGAATCGCTTGAGCCCGTGAAGTCGAGGCTGCAGTGAGCCAGATCGAGCCACTGCATTCC
AGCCTGGGCGAAAGAGAAAGACCGTGTCTCAAAACAAACAAACAAAAGCTACTCTTAGCACGTGTTAGAGTATCT
CGCGGGCGGAAGTGGGAAACGAGTGTGCACACAGACAACCTGATCTTTTTCCTCATAACTTGCCGACCGACCCG
TGACAGCAAAACCGGCAGAGCTCGGCGACCTCCACCCCGAGTCTGCAGGTAGCCGCCGCCACCGCCCGCCGT
CATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTGGCGTGTGTTGCTGC
CGAGCTGGGCGGAGAGGAGCCGGACCTGGTGTCTTTTCTTGGTGTGGGCTTCGTGGAGCATTCTTGGCTGT
CAACCGCGTCATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCAGCCCCGCCCGCCCGACCCGCTGGCGGCCT
CACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGCTTCACCGCCAGATCCGAGGCGC
CGTCGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCTGGTGAAGAAGGTCTCCGATGTCAT
ATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGGCCACATCCAGTCCCTCTTCAGCTTCATCACAGGTTG
GAGCCAGTAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGTTGGGGCCTGCCAGGCCCTGGGTCT
CCAGGATGTCCACCTCGCCCTGTCTGAGGATCATGCCTGGGTAGTGTGTTGGGCCAATGGGGAGCAGACAGCTGA
GGTCACCTGGCACGGCAAGGGCAACGAGGACCGCAGGGCCAGACAGTCAATGCCGCTGTGGCTGAGCGGAGCTG
GCTGTACCTGAAAGGATCATAACATGCGCTGTGACCGCAAGATGGAGGTGGCGTTCATGGTGTGTGCCATCAACCC
TTCCATTGACCTGCACACCGACTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTCTATGACCT
GGGACATCTGGAAGGTACCCCATGGCCTTAGGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCG
GCCAGACCCACTCACCTCTACCAAGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCC
CTACATGTACCTGGCTGGCTACCACTGTGCAACCGCAATGTGCGGGAAGCCCTGCAGGCCCTGGGCGGACACGGC
CACTGTATCCAGGACTACAATACTGCGGGAAGACGAGGAGATCTACAAGGAGTTCTTTGAAGTAGCCAATGA
TGTCATCCCCAACCTGCTGAAGGAGGCAGCCAGCTTGCTGGAGGCGGGCGAGGAGCGGCCGGGGGAGCAAAGCCA
GGGCACCCAGAGCCAAGGTTCCGCCCTCCAGGACCTGAGTGTTCGCCCACCTGCTGCGATTCTACGACGGCAT
CTGCAATGGGAGGAGGGCAGTCCACGCCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTGTGTCAGTCCCTAGG
CCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGAGAGGCCGAGGCGGCCGAGGCCGAGGAGCC
GTGGGGCGAGGAAGCCCGGAAGGCCGGCGGGGGCCACGGCGGGAGTCCAAGCCAGAGGAGCCCCCGCCGCC
CAAGAAGCCAGCACTGGACAAGGGCCTGGGCACCGGCCAGGGTGCAGTGTGAGGACCCCCCGGAAGCCTCCTGG
GACTGTGCTGGCACAGCCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGTGCCAGCACCCGACGATCACCACC
GCCGGAGGTTCCAGTGCTCACTTTCCAGAGTGAGAAGATGAAGGGCATGAAGGAGCTGCTGGTGGCCACCAAGAT
CAACTCGAGCGCCATCAAGCTGCAACTCACGGCACAGTCGCAAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCC
TAGTGACTACACTCTGTCTTTCTCAAGCGGCAGCGCAAAGGCCTCTGAACTACTGGGGACTTCGGACCGCTTGT
GGGGACCCAGGCTCCGCCCTTAGTCCCCAACTCTGAGCCCATGTTCTGCCCCAGCCCAAAGGGGACAGGCCTC
ACCTCTACCCAAACCCCTAGGTTCCCGGTCCCGAGTACAGTCTGTATCAAACCCACGATTTCTCCAGCTCAGAAC
CCAGGGCTCTGCCCCAGTCGTTAGAATATAGGTCTCTTCTCCAGAAATCCAGCCGGCCAATGGAAACCTCACGC
TGGGTCTTAATTACAGTCTTTAAAGGCCAGCCCTAGAAACCAAGCTCCTCCTCGGAACCGCTCACCTAGAG
CCAGACCAACGTTACTCAGGGCTCCTCCAGCTTGTAGGAGCTGAGGTTTACCCTTAACCAAGGAGCACAGGT
CCCACCTCCAGCCCGGAGCCTAGGACCACTCAGCCCTAGGAGTATATTTCCGCACTTCAGAATTCCATATCTT
GCGAATCCAAGCTCCCTGCCCCAAATAACTTCAGTCTGTCTCCAGAATTTGGAATCCTAGTTTCTCTCTCTCG
TATCCCGAGTCTGGGACACAAAACCTCCGCCCCAGCCTATGAGCATCTGAGCCCCGCCCTCTTCTGACGAAAC
TGGCCCCGATCAGAGCAGGACCTCCCTTCCGACCCTCTGGGAACCTCCAGAGGTCCAGCCCATCTCGGAGCAT
CCCGGAGGAAATCTGCAGAGGGTTAGGAGTGGGTGACAAGAGCCTGATCTCTTCTGTTTGTACATAGATTAT
TTTTAGTTCCAAGAAAGATGAATACATTTTGT

3746/5332
FIGURE 3271

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCCAATTCCGCCCTGCCCCCGCCGCGGC
GGCGTAGCCGCCACTGAGGGACCGACCCTATAAAGGCCGCTCCGCGAGGGGTGCGCAGCATTCCGGCAGAGGGCG
CTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGGTGCGTCCCATTCCCTGCCCCGGCCGGCCCCGCTCGG
CTCCGCACCCTCGCCCCGCTCTCAGCCGCGCTCTGCCCCGAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCAG
CTGGGTGAGCAAGGATGCCCGCCGCAAGAAGGAGCCGGAGCTCTTCCAGACGGTGGCTGAGGGGTGCGGCAGCT
GTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTACCGCTTCCACGAGTCCACTCGCCCCGCGTGGAGGACGC
TGACTTCGACAACAAGCCTATGGTGCTCCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCCGAGCCACCACCGACTCCTTCATCGCCGTTCATGCACGG
CCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGGCGCCCCCTTCCGCAAGCTCAACGCGTT
TGGCAACGCTTTCTCAACAGGTTTCATGTGTGCCAGCTGCCAACCCCGTCTGGACAGCATCAGCATCATCGA
CACCCCGGGATCCTGTCTGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGCAGCCGTCTGGAGTGGTT
CGCGGAGCGTGTGGACCGCATCATCTGCTCTTCGACGCCACAAAGCTGGACATCTCCGATGAGTTCTCGGAAGT
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGGTGAACAAGGCAGACCAGATCGAGACGCAGCA
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCGAGGTGGTCAGGGTCTA
CATCGGCTCCTTCTGGTCCCACCCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCAGCGCT
GGCCAAGGTTACGCGCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAA
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTT
CCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACCCAGGACTTCAGCAAGTTCAGGCGCTGAAGCCCAAGCT
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGATGGTGCGGCAGGAGGAGTCCCT
GATGCCCTTCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGGCGGTTCCGGCACGGCTACGGCGA
GGGGGCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCACCTACGACGAGATCTTCTA
CACGCTGTCCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAA
CACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCCGACCTGGTGCCGCC
CTCCTCTGCCTGGGGCCATTGAGGCCAGCCTCCAGGGCCCGGGCGGTTTGCAGGCCAGTGGCCACTGTCCGGGC
TGTGATGGCACCAGGCAGGTGGAGCACCAGGTACCACACAGCTGGGCTTCCCACCAGGCTTCCCGCGGGGTC
TCAGGGAGCTTCTCCCAGCGCTGCTCGGAGTCTGCAGGAACCTGGCCTTGTTCTCCTTAGCCCGTCACTCCATAC
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGCCGGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTACA
CCTGTGGGAAGAGAAGTGAAGACTTCTCCTTGCAATAAAAAGTCTGAAGTGTG

3747/5332
FIGURE 3272A

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCGCCAGGCCCGGCGGTCTCCGAGATGTCACGATGGCTGTGGC
CATGGTCAAACCTGTGTGAAAGAGCGGGTCTGCCGCTACTTGCTGCACCACTACTTAGGTCACTTCTTCCAAGAGC
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAAATCT
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTACCCTGAGCTGGTGAAGGCTTCGTGGGCTCCATCGAGG
TGGCCGTGCCCTGGGCTGCTCTGCTCACCAGCACTGCACAGTGCCTGTCCGGCCTCCAGCTACCTTGCAGC
CCCCCGGGGTCCAGCGCCAGGGGCTGCCGACTCAGAGCTGGGCCCTCATGCATGACCACAAGCCTGCAGCTGG
CCCAGGAGTGTCTGCGGGATGGGCTACCGGAGCCCTCTGAGCCACCACAGCCCTGGAGGGGCTGGAGATGTTTG
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCTCGGACACTGTGCTGAGGGTGGAGCACTCTC
CGGGTGATGGGGAACGTGGTGTGGCCGTGAGGTCCGTGTGCAGAGACTGGAGTACTGTGATGAGGCAGTGCAGG
ACCAAGCCAGGCGCCCGGGTGGACGTGCATCAGCCGCTGCCTTCTTGCAAGCTGTGCAGCTGGCAGGGG
TCCGCTGCACTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCTTGAGATCGGCAGCTGCTCAG
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCCTTCCCTGGCCCCAAGTTGGAGGTGGCGGGACAGC
TGGGCTCCCTGCACCTGCTCCTGACCCCGAGGCAGTCCAGCAACTCAGGAAGTGTGCTCAGCGCGGTGAGCTTA
CAGACCACGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCGCTAGGTGCCGAAGACCTGTGGCTGATTGAGC
AGGACCTGAACCAGCAGCTGCAGGCAGGGGAGTGGCTGAGCCCTCAGCCAGACCCCTTACCAACCCCTTC
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC
TCTCCCTCTCCGATGTAGACCTGGCCTCCTCTGTGCGCAGCGACATGGCCTCCCGCGGCTCTCTGCCAGGCCC
ACCCAGCTGGCAAGATGGCCCCCAACCCCTCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG
GGGGTGTGACCCTGACCTTGCTTCAGACGTCTGCCCATCTTCCGGACCACTGACCTCGCCACGCACTTTTTCA
CCGAGTTTGATGCCACCAAGGATGGGCCCTTCGGTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG
CCTGTCCCTGTAGCCATGTTTCGGCTAACGGGCACAGCCGTGCAGCTGTCTGGGAGCTGCGGACGGGCAGTCCGG
GCCGGCGGACAACCAGCATGGAAGTGCATTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGCCCCGGGGCACCT
CTGAGCCTGAGTACACGGAGATCCTGACCTTCTCTGGTACGCTGGGCTCCAGGCCTCAGCTCGGCCCTGCGCCC
ATCTGCGCCACACAGATCCTGCGCCGTGTGCCTAAGAGCCGACCCCGGCGCTCAGTTGCCCTGCCATTGCCACT
CAGAACTGGCCCTGGACCTGGCCAACCTTCCAGGCGGACGTGGAGCTGGGGGCCCTGGACCGGCTGGCCGCCCTAC
TGCGCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGTGACAGAGCCCTGCCGGCGATGGAGCAGCAGA
CGGTATTTGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTTCCCCATTGCCGACCTGCGGCCTGAGCCGG
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCCGGTGGAGCTGAGTGAGCCCCAGTTCGGGTGAGAGC
TTAGCAGTGGCCCTGTGTCCTCCCTGCTGCTTCCCAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT
ATGGAGGGAAGCCACCTGTCCCTTGCTGCTGCTTCCCAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT
TCTGCCCCAGGTAGTGGTGACTGTGAACCCCAAGTCCAGCAGCACACAGTGGGAGGTGGCCCCGAGAAGGGAG
AGGAACTGGAGCTGTGAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCTTAAGAGGA
CCATGTATGAGACAGAGGAGATGGTGATCCCTGGAGACCTGAGGAGATGAGGACGTTCCAGAGCCGGACCCCTGG
CACTGTCCGCTGCAGCCTGGAAGTGATCCTGCCAGTGTCCACATCTTTCTGCCAGCAAGGAGGTCTACGAGA
GCATCTACAACAGGATCAACAACGACCTGCTCATGTGGGAGCCTGCAGATCTGCTTCCACCCCGACCCCGCCG
CCCAGCCCTCGGGCTTCCCGGCCCTCAGGCTTCTGGCACGACAGCTTAAAGATGTGCAAGTCAGCCTTCAAGC
TGGCCAACTGCTTTGATCTCACCAGACTCGGACTCGGATGACGAGGATGCCACTTCTTCTCAGTGGGGCAT
CAGGTGGCCACAGGCCGCTGCCCTGAGGCCCAAGTCTTCACTTGCAGAGCACCTTCTTACACTGGTGACAG
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGTGGGAAGCGGCTGGAGGCTGTGCAGGGG
AGCTGGTGTGAGACATGGAGCACGGTACCTCTTACAGCTTCCAGTACTGTGGCCAGCCAGGACTTGGCTACT
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCAGTCACCTGG
ACCTTCCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG
GAGCCTCGGGCCGCAAGGGCCAGGGCCGGGGACCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCC
ACAAGAATGTGAAGGAGTTCTTGGTGACACTGCGGTTGCACAAAGCCACCTTGCGCCACTACATGGCCCTGCCCG
AGCAGAGCTGGCATTCCAGTTGTTGGAGTTCTTAGACGTGCTGGATGACCCTGTGCTGGGCTACCTGCCCCGGA
CGGTCAATCACCATCTGCACACACCTGTTCTCTGCTCTGTGGACTATAGGCCACTTACCTCCCAGTGGCTG
TCTCATCACCGGAGACCTTCACTCTCTCCAGCAACATCATATGGACACCTCCACCTTCTGCTCAGGTTCA
TCTTCGATGACTCCGCCTTGTACCTGTCCGACAAGTGTGAGGTGGAGACCTGGACCTGCGGCGAGATTATGTCT

3748/5332
FIGURE 3272B

GTGTTTTGGATGTTGACCTCTTGGAACCTTGTGATTAAACCTGGAAAGGGAGCACCGAGGGCAAACCTGAGCCAGC
CACTATTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCACCCCGCCCCCAGCCCCACGGAGATCGCCG
GCCAGAAGCTCTCGGAGAGTCTGCCTCTCTGCCCTCGTGCCCCCAGTGGAGACGGCCCTCATCAACCAGCGTG
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCACGCCTTCAGGTGGCCACCTCCCTC
AGGCGTCGCCCATCTCCGCTACCTATTCCCAGGTGAACGGAGTGGGGCCCCACCCCTTCACCACCTGTGGGG
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGAAGAGGAGGGCGATGGAGACACCC
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGGCTGGGCATCCCGCCCCGAGATGGGGAGCCTGTGGTGA
CACAGCTGCATCCCGGCCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC
GGGCACCTGCCCATTTCCAGTGCCACGACTCGGGTGGTGCTACGTAGGTCTCCCTCGTCTGGCACCTCTATG
GGGGCCGAGACTTTGGCCCCACCCCGGCCACAGGGCAAGAAGTGGCTCTCAGGTCCCAGGAGCTCCCCTTCCC
GCTGCTCTGGCCCCAACCGGCCCCAGAACTCATGGCGCACGAGGGGGGAGCGGGCGGCAGCACCATGTCTCTCA
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTGCGGCC
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAGGTGTTTCATCGTGAGGAGCTGGAGGTCCGAGACCGGC
TCGCTCCTCCAGATCAACAAGTTCTGTACCTACACAGAGTGAGCGGATGCCGCGACGTGCCCACTCTAACA
TGCTCACCATCAAGCGCTGCATGTGGCCCCACTACCAACCTGGGTGGGCTGAGTGTGTCTCCGCGTCTCGC
TGATGCCCTGCGGCTCAATGTGGACCAGGATGCCCTCTTCTTCTCAAGGACTTCTTACTAGTCTGGTGGCG
GCATCAACCCCGTGGTCCCAGGGGAGACCTCCGCTGAGGCTCGCCCCGAGACTCGAGCCAGCCCAAGCCCCC
TGGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTTCGAGGAGGCCCCAGGAGGTGGACACAGCCCTCCCTC
CTGACCAGCAGCCATCTACTTCAGAGAGTTCCGCTTCACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA
AGCACGTACGATGGACCAGGTGGGCACCTTTGCTGGCTCCTCATCGGCCTGGCCCAACTCAACTGCTCCGAGC
TGAAGCTAAAGCGGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCGGCTGCTGGGAGGCGTGGGCCCCATGCACTCGGTTGTCCAGC
TCTTCCAAGGGTTCCGGGACCTGCTGTGGCTGCCATTGAGCAGTACAGGAAGGATGGCCGCTCATGCGGGGGC
TGCAGCGAGGGGCTGCCTCCTTTGGCTCATCCACAGCCTCTGCCGCTTGGAACTCAGCAACCGGTTGGTACAGG
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCGGAGCCCCGCTCTCCGCTCCCTGCAGGATA
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCTACGACA
CAGTGCGAGAGGGCATCTTGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC
TGACGGGCGCGGTGGGGGGCGTGATCCGCCAGCTGCCCCGACTGTGGTGAAGCCGCTCATCTGGCCACGGAGG
CCAGCTCCAGCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCCACAAGGACCACGCCCTCAAGTGGC
GCTCGGACAGTGCCCAAGACTGAGCCTGGGGTGCCCGGCACCCAGAGGGTGTGCCCACCATGCTCCTGAGCCTC
CCAAGAGCTGCAGCCACGGGCCCGGCCCGGCTGGCCCTTCAGGGGATGGCCACTGTGAAGGACGCCTTCCCAG
CCTGCCCGTTGCCAATCTGCTGTGAGAGGGGGGCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCATTTTCC
TCCGGGGAGAAAGGACACTGCCCTCCCCGACCTGGGGCCACACTGCTGCCTTCTCCAGGACGGAGGCTTTTG
GACCTCGGACCCCATCCCACTCAGCCAAGTGCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT
TCGATGTATTATTTTAAGCTCCGTGAGTGGGTGAGTGTCTGCATGAAGTGAATAAAGTGGCCACCGCC

3749/5332
FIGURE 3273

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGCGGCGGGAGGAGGGCGGGAGGAGCGCTCTTCTGGTTGGGCC
TGCCCTGAGCTGCCACCGGAAGCCAGCCTCAGGACTGCAGCGACCCCAACACCCCTCCCCAGGATGTCGG
AGGAGATCATCAGCCGGTGTACTGCACTGGGGTGTAGCCCAAGTGCAGAAGCAGCGGGCCAGGGAGCTGGGCC
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGTGCATGCCAGAGTG
GGACCTCTTCCGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCT
CCAAGACCTATGGCATCAAGTGGAAGCGTCCCACGGAAGTCTGTCAAACCCCAAGTTCATTGTGGATGGAGCTA
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG
ACACCTCTCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAATGGCTATGCCGGCATCTTCCATTTCCAGC
TGTGGCAATTTGGGGAGTGGGTGGACGTGGTTCGTGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCG
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCTATGCCAAGGTAAATGGCAGCTACG
AGGCCCTGTGAGGGGGCAGCACCTCAGAGGGCTTTGAGGACTTCACAGGCGGGGTACCGAGTGGTACGAGTTGC
GCAAGGTCCCAGTGACCTCTACCAGATCATCTCAAGGCGCTGGAGCGGGGCTCCTGCTGGGCTGCTCCATAGA
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG
GGCCAAAGCAGGTGAAGTACCGAGGCCAGGTGGTGAGCCTGATCCGGATGCGGAACCCCTGGGGCGAGGTGGAGTG
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGGAACAACGTGGACCCATATGAACGGGACAGCTCCGGGTCAA
GATGGAGGACGGGGAGTTCTGGATGTCAATCCGAGACTTCATGCGGGAGTTCACCCGCCTGGAGATCTGCAACCT
CACACCCGACGCCCTCAAGAGCCGGACCATCCGCAATGGAACACCACACTCTACGAAGGCACCTGGCGGGGGG
GAGCACCGCGGGGGGCTGCCGAACTACCCAGCCACCTTCTGGGTGAACCTCAGTTCAAGATCCGGCTGGATGA
GACGGATGACCCGGACGACTACGGGGACCGGAGTCAGGCTGCAGCTTCGTGCTCGCCCTATGCAGAAGCACCG
TCGCCGCGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTGGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTTATCA
ACCTGCGAGAGGTGAGCACCCGCTTCGCGCTGCCACCCGGGGAGTATGTGGTGGTGCCTCCACCTTCGAGCCCA
ACAAGGAGGGGCGACTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGCTGGGACTGTGGAGCTGGATGACCAGATCC
AGGCCAATCTCCCCGATGAGCAAGTGCTCTCAGAGAGGAGATTGACGAGAAGTTCAGGCCCTCTTCAGGCAGC
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCTCAATAGGATCATCAGCAAACACAAAG
ACCTGCGGACCAAGGGCTTCAGCCTAGAGTCGTGCCGAGCATGGTGAACCTCATGGATCGTGATGGCAATGGGA
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC
TGGACAAGTCGGGCAGCATGAGTGCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA
AGCTGTACGAGCTCATCATCACCCGCTACTCGGAGCCCGACCTGGCGGTGCACTTTGACAATTTGCTTTGCTGCC
TGGTGGCGGTAGAGACCATGTTCCGATTTTTCAAACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT
TGTTTTAAGTGGTTGCAGCTGACCATGTTTGCAAGGAGGACTCGGTCCCCCTTGGCGTGCTCCCCCTCCCTCC
TCGTCTGCCAAGCCTCGCCTCCTACCACACCACACAGGCCACCCAGCTGCAAGTGCCCTCCTTGGAGCAGAGA
GGCAGCCTCGTCTCTCTGTCCCTCTCTCTCCAGCCACCATCGTTCACTGCTCCGGGCAGAACTGTGTGGCCCC
TGCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTCGC
TTGTTCTCTGCTCGGGACAGCCCCGGTTTTCCCGAGCATCTGATGTGTCCCCTCTCCCCACTTCAGAGGCCACC
CACTCAGCACCCCGCCTGGCCTTGCTGCAGACTATAAACTATAACCACTAGCTCGACACAGTCTGCAGTCCA
GGCGTGTGGAGCCGCTCCCGGCTCGGGGAGGCCCGGGGCTGGGAACGCCTGTGCCTTCTGCGCCGAAGCCAA
CGCCCCCTCTGTCTTCCCTGGCCCTGCTGCCGACCAGGAGCTGCCAGCCTGTGGGCGGTGCGCCTTCCCTCCT
TCGCTCCTTTTTATATTAGTGATTTTAAAGGGGACTCTTCAGGAGCTTGTGTACTGGTTATGGGGGTGCCAGAG
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTCCATATAGAGGAACCCCAATAATAAAGGCCCCACATCTGTC
TGTG

3750/5332
FIGURE 3274

GTTCGGTTTCGCAGGGGGTGGGGAGTGTGTGTTAACGGAGGGGCAGCCGAGTCGCGCGGATTGAGCGGGCTCGC
GGCGCTGGGTTCCTGGTCTCCGGGCCAGGGCAATGTTCCGCACGGCAGTGATGATGGCGGCCAGCCTGGCGCTGA
CCGGGGCTGTGGTGGCTCAGCCTACTACCTCAAACACCAGTTCTACCCCACTGTGGTGTACCTGACCAAGTCCA
GCCCCAGCATGGCAGTCCGTGTACATCCAGGCCTTTGCTCTGTCTTCCTTCTGGGCAAGGTGATGGGCAAGGTGT
TCTTTGGGCAACTGAGGGCAGCAGAGATGGAGCACCTTCTGGAACGTTCTGTTACGCTCTTCTTCTCTTCTCTCAAAT
TGGCCTTACCGTTTTTTCGGGATGACTTCAGCCCCCGCTTGTGTGACTCTTCACTCTTCTTCTCTCTCAAAT
GTTTCCACTGGCTGGCTGAGGACCGTGTGGACTTTATGGAACGCAGCCCCAACATCTCCTGGCTCTTCACTGCC
GCATTGTCTCTCTTATGTTCTCTGCGCATCCTGGACTTCCTCTTCTGTCAGCCACGCCTATCACAGCATCCTGA
CCCGTGGGGCCTCTGTGCAGCTGGTGTGTTGGCTTTGAGTATGCCATCCTGATGACGATGGTGTCTACCATCTTCA
TCAAGTATGTGCTGCACTCCGTGGACCTCCAGAGTGAGAACCCCTGGGACAACAAGGCTGTGTACATGCTCTACA
CAGAGCTGTTTACAGGCTTCATCAAGGTTCTGCTGTACATGGCCTTCATGACCATCATGATCAAGGTGCACACCT
TCCCACTCTTTGCCATCCGGCCCATGTACCTGGCCATGAGACAGTTCAAGAAAGCTGTGACAGATGCCATCATGT
CTCGCCGAGCCATCCGCAACATGAACACCTGTATCCAGATGCCACCCAGAGGAGCTCCAGGCAATGGACAATG
TCTGCATCATCTGCCGAGAAGAGATGGTGACTGGTGCCAAAGAGACTGCCCTGCAACCACATTTTCCATACCAGCT
GCCTGCGCTCCTGGTTCCAGCGGCAGCAGACCTGCCCCACCTGCCGTATGGATGTCTTCTGTCATCGCTGCCAG
CGCAGTCACCACCACCCCGGAGCCTGCGGATCAGGGGCCACCCCTGCCCCCAACCCCACTCTTGCCTC
AGCCCCCAACTTCCCCAGGGCCTCCTGCCTCCTTTTCTCCAGGCATGTTCCCACTGTGGCCCCCATATGGCC
CCTTTCACCTGTCCCGCTCCCCCAGCTCAGGAGAGGCTGTGGCTCCTCCATCCACCAGTGCAGCCCTTCTC
GGCCAGTGGAGCAGTACAACCACAGCTGCTGGCACCAGTGCTACTGCTGCTTCTGCCACAGCATCTGGCCAG
GCTCTGGCTCTGCCCCAGAGGCTGGCCCTGCCCTGGTTTCCCTTCCCTCCTCCTGGATGGGTATGCCCTGC
CTCCACCCTTTGCCTTCCCCCAATGCCTGTGCCCTGCGGGCTTTGCTGGGCTGACCCAGAGGAGCTACGAG
CTCTGGAGGGCCATGAGCGGCAGCACCTGGAGGCCGGCTGCAGAGCCTGCGTAACATCCACACACTGCTGGACG
CCGCCATGCTGCAGATCAACCAGTACCTACCGTGTGCGCTCCTTGGGGCCCCCGGCCTGCCACTTCAGTCA
ACTCCACTGAGGAGACTGCCACTACAGTTGTTGCTGCTGCCTCCTCCACCAGCATCCCTAGCTCAGAGGCCACGA
CCCCAACCCAGGAGCCTCCCCACCAGCCCCGAAATGGAAAGGCCTCCAGCTCCTGAGTCAGTGGGCACAGAGG
AGATGCCTGAGGATGGAGAGCCGATGCAGCAGAGCTCCGCCGGCGCCGCTGCAGAAGCTGGAGTCTCCTGTTG
CCCCTGACTGACTGCCCCAGCCAGCCCAAGCCTCTGCTCTTTTGAAGCAGCCCTCGCTGGAACATGTCTGCCACC
AAGTGCCAGCTCCCTCTCTGTCTGCACCAGGGAGTAGTACCCCACTCTGAGAAAGAGGCGGCATCCCCTAGGC
CAAGTGGAAGAGGCTGGGGTTCCCATTTGACTCCAGTCCCAGGCAGCCATGGGGATCTCGGGTCAGTTCCAGCC
TTCTCTCCAACCTCTCAGCCCTGTGTTCTGCTGGGGCCATGAAGGCAGAAGGTTTAGCCTCTGAGAAGCCCTCT
TCTTCCCCCACCCTTTCCAGGAGAAGGGGCTGCCCTCCAAGCCCTACTTGTATGTGCGGAGTCACACTGCAGT
GCCGAACAGTATTAGCTCCCGTTCCCAAGTGTGGACTCCAGAGGGGCTGGAGGCAAGCTATGAACCTTGCTCGCTG
GCCACCCCTAAGACTGGTACCCATTTCCTTTTCTTACCCTGATCTCCCCAGAAGCCTCTTGTGGTGGTGGCTGT
GCCCCCTATGCCCTGTGGCATTCTGCGTCTTACTGGCAACCACAACTCAGGGAAAGGAATGCCTGGGAGTGG
GGGTGCAGGCGGGCAGCNNTGNNGNCCNNGCNCCGCCCCCTCCCCCAGGCCCTTTCTCTGCAGCTTCTCAAG
TGAGACTGACCTGTCTACCCAGCAGCCACTGCCAGCCGCACTCCAGGCAAGGGCCAGTGCCTGCTCCTGAC
CACTGCAATCCAGCGCCCAAGGAAGGCCACTTCTCAACTGGCAGAACTTCTGAAGTTTAGAATTGGAATTACTT
CCTTACTAGTGTCTTTGGCTTAAATTTTGTCTTTTGAAGTTGAATGCTTAATCCCGGGAAGAGGAACAGGAGT
GCCAGACTCCTGCTTTTCCAGTTTAGAAAAGGCTCTGTGCCAAGGAGGACCACAGGAGCTGGGACCTGCCTGC
CCCTGTCTTTTCCCTTGGTTTTGTGTTACAAGAGTTGTTGGAGACAGTTTCAGATGATTATTTAATTTGTAAAT
ATTGTACAAATTTAATAGCTTAAATTTGTATATACAGCCAAATAAAACTTGCATTAAAC

3751/5332
FIGURE 3275

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG
CGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCAGGTTTGTGGAGTCTGTGGATGAATATCA
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCAAAGCATGAACATTATCCTACCCCTAGTGG
CTGGCAGCCTCCCAGAGACCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAAGTGGAAAGGGGACATCTGGGCCCTGCA
GAAAGACGTGGAAGATTTTCTGAGCCCGCTGCTGGGGAAGACACCTGTCAACCAGGTCAATGAGGTGACAGGTAC
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGGAGAAAGGCTTCTGAGGCCAGCCGA
GCAGCCTGCTTGTGAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC
CTGAGACAGGGGATACAGAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTCAG
CAGCTTTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTTGTTTTTTGAGACGGAGTCTCACTCTGTTGCCAGGGT
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT
TGAGTAGCTGGGATTACAGGCGCCACCACCACAGCCTGCTAATTTTGTATTTTGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGGTCTCAAACCTCCTGACTCGAAGTGATCCGCCACCTTGGCCTCCCAAAGCGTTGGGATT
ATAGGCATGAGCCATGTGCCTGGTCCACCTTGGCCTGTTTGTGTTTTCTTTCCTTGGGCTCAGCAATTCAAATTC
TAGTTGTTATTTGGTGGAAGCAGTAGCCCAACCCAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC
TTTGTTCCTTGGCCCTCCGAAGCTCACTGTTGCAATACCCCAAGCCTTTGCTCTAGGCCAGATCTTGTTTGG
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGTCTTGGAGATCTTCTGTTCAAAGTACAGTGTGGCACT
GGGGCACAGAGTGGCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAACCTCACAGCCAGCATAGGGACATCCCCCTGCA
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGCAGGCAGGAATATGCTGACCTTTCACCTTGCCATCCCA
TCCCAACCCAGCTCACTAGCCTTCATATATGCCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCAC
CCTGCCCCCAAACCTGGCTAAGACAGCTTTCAGTTCCTGACTCCCCAACTTGCTCTGCCCCTGAAGCAGGGCACT
GAACTCTGGGCTGCTTCTCTGTGTGTAATAATGGGCACATCTTCTAATCTGTTAATGGTCAGTGGTGTCCCAAG
GATAGTGTGGCTTCCATGGAAACCCCTCACTCCTGGAGATTCCATTCCATTTTCAAGGTACAGCCACAGCAAGG
AGCCCCGACACTGATTTGATCGATTCTGTGACACAAACCCACCAATTGTTAATGCAAGTTTTTATTTGGCTGTAT
ATACAATTTAAGCTATTAAAATTTGTACAATATTTACAAATTAAA

3752/5332
FIGURE 3276

CAGTGACGTGACACGCAGCCACGGTCTGTACTGACGCGCCCTCGCTTCTTCCTCTTTCTCGACTCCATCTTCGC
GGTAGCTGGGACCGCCGTTTCAGTCGCCAATATGCAGCTCTTTGTCCGCGCCAGGAGCTACACACCTTCGAGGTG
ACCGGCCAGGAAACGGTCGCCCAGATCAAGGCTCATGTAGCCTCACTGGAGGGCATTGCCCCGGAAGATCAAGTC
GTGCTCCTGGCAGGCGCGCCCTGGAGGATGAGGCCACTCTGGGCCAGTGCAGGGGTGGAGGCCCTGACTACCCCTG
GAAGTAGCAGGCCGCATGCTTGGAGGTAAAGTCCATGGTTCCTGGCCCGTGCTGGAAGAGTGAGAGGTGAGACT
CCTAAGGTGGCCAAACAGGAGAAGAAGAAGAAGACAGGTGCGGCTAAGCGCGGATGCAGTACAACCGGCGC
TTTGTCAACGTTGTGCCACCTTTGGCAAGAAGAAGGGCCCCAATGCCAACTCTTAAGTCTTTTGTAAATCTGGC
TTTCTCTAATAAAAAAGCCACTTAGTTCAGTC

3753/5332
FIGURE 3277

GTCCAGGCAGGTGCAGGCGCCGCGGGGCCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCCACTCAGGGCC
CCCCGGCCCCGCTGGAATTCGGAGGGCCCCCTGGGCGCCGCGGCTCTGCTACTGCTGCTGCCCGCCACCATGTTCC
ACCTGCTCCTGGCGGGCCCGTTTCGGGCCCCGCGCGCCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC
TGTGGAGCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC
GCAAGGTGGCCGAGGGGCGAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGG
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTCAGCGGGGCTGCCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC
CCTTGGCGTTTGTGCGCCACCCTCACCGCTTTCATCTTCAGCCTCTTCTCTACATGAAGGCGCAGGTAGCCCCAG
TTTCGGCCCTGGCACCTGGGGGGAACTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCTC
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAAGTGCACCCGGCCTCATCGGCTGGGTCTCATCAACCTGG
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCCGCTCCTCACCACCATGGATATCACACATGACGGGTTTGGCT
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTACCTACAGCCTGCAGGCCCACTTCTGCTGCACCACC
CGCAGCCCCCTGGGGTTGCCCATGGCCTCTGTCTATCTGCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG
CGAATTCCCAGAAAAACACTTTCGAAAGAATCCTTCTGACCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCAACTATCTTGGAGACCTCATCA
TGGCTCTGGCTTGGTCCTTGCCCTGCGGGGTGTACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC
TGCTGGTGCACCGTGAGGCCCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC
GGCGTGTGCCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCAGGTGGGGGCATGTGCCAC
TCATCCACCAGCACACCCAGGACCAGGAGCCTCGACACACTTGGGACTCAAGGGCTTGACCCCAACCCAGCCCTG
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAATGAAACCAGTGACC

3754/5332
FIGURE 3278

GGAAGTGCCTCCTCCCCGTCCCCTTCCTTTCCAGCCTCACGCCCGTGGGCTGCAGTTGGAACGATGGCGGCGGCA
GCTGCCGCCGGGCTAGCCCCGGGTCTGACCTGGGGACTCCCCAGAAGGGCCCGAGGGGGAGGCTCCGGAGCGT
CGGCGGAAGGCGCACGGGATGCTGAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCGCGGGG
CCCCACCCCTGGACCCGACTGATCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGA
GAGTGCCTCTGGCCAGTTGATGGACAGTGAGACGGACATGGTGCAGGAGATCCGGGCTCTAGACAGCGACATG
CAGACCCTGGTCTATGAGAACTACAACAAGTTTATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTT
CGGAAGATGGAGGATGAGATGGACCGGCTGGCCACCAACATGGCAGTGATCACCGACTTCAGCGCTCGCATCAGC
GCCACGCTGCAGGACCGCCACGAGCGCATACCAAGCTGGCAGGTGGGCGCTGCCGGGAGGGGCTGCAGTGGGC
CTTTCTGGGGCTCTGGGGCTAACGTACCCCTCCGTCCCCCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTC
CTCTTTGAGCTGCCTCGCGCCTACCAAGTGCGTGGAAGTGGGCGCTATGGGCAGGCGGTGCGCTACCAGGGC
CGCGCGCAGGCCGTGCTGCAGCAGTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTCATC
ACGGCCCCGCTGGCCAGCAGCTGCCGAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGGAGCAGGCAGAGTGC
GTGGAGCTGCTGCTGGCCCTGGGCGAGCCTGCCGAGGAGCTGTGCGAGGAGTTCTGGCGCACGCCCGCGGCCGG
CTGGAGAAGGAGCTGAGAACTGGAGGCCGAGCTGGGGCCCTACCTCCGGCTCCCGACGTGTTAGAGTTTACC
GACCATGGAGGAGTGGCTTCGTGGGCGGCTCTGCCAGGTGGCGGCGGCTACCAAGAGCTGTTTGGCGGCCAG
GGCCAGCAGGTGCCGAGAAGCTGGCGGCTTCGCCGGCAGCTGGGCAGCGCTATTTTGGCGTGGTGGAGCGG
CGGCTGGCGCAGGAGCAGGCTGGTGGTGACAACCTACTGCTGGTGGGCGGCTGGACCGCTTCCACCGGCGCTG
CGGCTCCCGGGGCTGCTGGCGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGGCCCGC
GAGCGCTGGGCCACCACTGCAGGCTTCGGGGCGGCTTCTGGGCTGCCTGACAGACGTCGCCACGCGCTG
GCAGCACCTCGCGTGGCTGGGAAGGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAATGTGGCCAGTCCATCCTG
AGCCACATTAAGGCTCTCTGGCAGCAGTGACCTTTTTACCGCCAAAGAGGTGTCTTCTCCAACAAGCCCTAC
TTCCGGGGTGAGTTCTGCAGTCAGGCTGTCCGTGAGGGCTCATCGTGGGCTTCGTCCACTCTATGTGCCAGACG
GCTCAGAGCTTCTGCGACAGCCCTGGGGAGAAGGGGGTGGCACACCACTGCCCTGCTCCTGCTGCTCTCCCGC
CTCTGCCTGGACTACGAGACGGCCACCATCTCTAATCCTCACTCTCACTGATGAACAGTTTCTGGTGCAGGAT
CAGTTCCAGTGACGCCCGTGAGCACGCTGTGTGCAGAGGCCAGGGAACGGCGCGGCGGCTGCTGACCCACTAC
GTGAAGGTGCAGGGCCTGGTCTATACAGATGCTGCGCAAGAGCGTGAGACTCGCGACTGGCTCAGCACTCTG
GAGCCCCGGAATGTGCGGGCCGTATGAAGCGGGTGGTGGAGGATACCACCGCCATCGACGTGCAGGTGGGGCTC
CTGTACGAAGAGGGTGTTCGCAAGGCCAGAGCAGCGACTCCAGCAAGAGGACTTCTCCGTGTACAGCAGCTCT
CGGCAGCAGGGCCGCTACGCCCCAGCTATACCCCCAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAG
AAGCTATTCTCTGAACGTATTGATGTGTTTCAAGCTGTGGAGTTCAACAAGGTGTGCGGTGCTGACCGGCATCATC
AAGATCAGCCTGAAGACGCTGCTGGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAA
GTGGACTGCCACTTTCTGCAGCTTACCTGTGGCGTTTTGTGGCCGACGAAGAACTCGTGCACTTGTGCTGGAC
GAAGTGGTGGCCTCTGCTGCCCTGCGCTGCCAGACCTGTGCCCATGGAGCCAGTGTGGTTGAGGTCATCTGC
GAGCGCGGCTAGGCGCAGCCGCTGCCATGCACCGGTCTGTCCCTGCACCCCATGGCACCCAGGATCTGGTCTCGG
TGGTCTTCCCCGAGGAGGTGTGAGACCGGCTAATAAATGTGTGGCTCCTCTCTCGCTTGTGGCGG
GGCCTTTCGGGGGGCGGGTTTTGAAGCTGAGGCTTCTGAGGCGCCCGCTCGGGTCCGCCCCGAGCGCCGATT
GGCTGGTGTGCTGGGCGCAGCATGGGCAGGGGGCGGTTCCACTTAAAAACCTGGGACGA

3755/5332
FIGURE 3279

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC
ATGGGGCTTTGTAAGTGCCCCAAGAGAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG
CACTGCCCTGGTAGCCAATCACGCCAAGTGCATCGTCCAGTCTACCTGCAATGGCTCCAAGATAGCGACTACAAC
CCCAATTGCCGCTGTGCAACATAACCCCTGGCCAGCCGAGAGACGACCCGCCTTGTCTGCTATGATCTCTTTTAC
TGGGCCTGCCTCAATGAACGTGCTGCCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGGCCAGCTGC
AATGGCCCCATCTTCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC
AACTGGGCCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCAGAGCCCAGGCCCTCAACACG
TCTGACTTCTCTGACTGGTCTAGTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT
GCCCCAGCCTTCTACAGCCAGGCCCCCGGCCCCAGCTTCCCCAGGCCGGCCCGAGCAGCACACAGTGATCCAC
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC
CTCCATGGAGACTGTGACGATGACAAGTACCGACGTCGGCCGGCCTTGGGTGGCTGGCCGGCTGCTAAGGAGC
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCTGTCCAGCGGGCGGGCTGCTGCTACTCTTGGGACTGCTGGGC
TTCTTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCCGAGCTGACAGCGATCCCAACCTGGACCCACTC
ATGAACCCTCACATCCGCGTGGGCCCCCTCTTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTCT
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCTCTCCCTCAAGCCTAAGACACTA
AGACCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTTG
TCTTGACTTGCTTTTCTCCCGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGGAAATAAA
CAACAACTTTATTAAC

3756/5332
FIGURE 3280

GCAGCGAGTGGCCTTCCCGGTTGGCGCGCGCCGGGGCGGCGGCTGGAGGAGCTCGAGACGGAGCCTAAGTTA
TGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTC
TGCGGAGGTCCCAGCGGAAATCAGGCTCTGAACTCCCGAGCATCTCCCTGAAATCTGGCCGAAGACACCCAGTG
CGGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC
CTCGCAGGAGCCCTAGGATTTCCCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCT
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGAAATGTCTAAGAAAGTCAGGCGTTTCTACAGCCGGCTGGAGA
CCCTGGGCTCTGCCTCTACCTCCACCCCAGGCCGCCGGTCTGCTTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG
ACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAAACTCACCGAGGTCCCCAGGGTTTGTGCAAAGCCCTGGGCCC
CAGACATGACTCTCCCTGGAATCTCCCCACCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGCTGCTGAGCAGTTTGATCTCCTGG
TTGAATGAGATGCACTGGGGGGTGACCTGGCCAGACTCTCCCTCCTGTCTGTACATAGCCACCTCCCTGTGGA
GAGGACACTTAGGGTCCCCTCCCCTGGTCTTGTACCTGTGTGTGTGCTGGTGTGCGCATGAGGACTGTCTGCC
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGGTTTTAGGAAATGGGGCCGCTGCCAGCCACTCACTGGTG
TCTGTCTCTTGTCTCTGTCTCTTCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGCCACAGACTGG
GGAGGAGAATCAGTGGCCCAGCCAGGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTGGG
AGGGGTGGCTGCTTGGAAATAGGCCCAGGGCTCTGCCAGCCTCGGCCCTCTCCCTCCTGAGTTGCCCTTCTGTTGGT
GGCTTTCTTCTTGAACCCACCTGTGTAAAGAGGTTTTTCACTTCCGTGGGTTTTCCCTTTGATTCTGTAAATAGTC
CCAGAGAGAATTCGTGGGCTGAGGGCAATTCTGTCTTGGAGGAAGAAGCTGGACATTACGCCTGTGGAGTCTGAG
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGGAGCAAAGGGTGCATTT
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGCACAGGGCCCACG
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCCCTCTGTACCCATAACCCATTTCTTACAAAATAA
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCCAGACCTACTAGCATTTTGCAACTATGCT
TGTAAGTCTCGGAAAGTTTCTCGCGTACCAGACAGCGCGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC
CTATCCTCTCACATGAGAACACTGCCTGGATGCATCTCATGATCTCTGGAGAATTTCCCATCTTTCTCTCTTT
CCATCGTGTGGATTCAATAGTGTGGATTGAAGGCTGCCCTGCCCCGACTCTCCTGCCGCACCCCTGGCCATTG
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGCAGAGGAGCTGGTGGATAACAGAGAAATGC
CAGGGAAGATGAGTGTGGGTGAGGGTACTTGGATGAAACGGTGCAGGCCAGGCGGGCCCTAATAAAACCCCTG
CCAGGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTGACACCTGCAAGCAAGCCCCCTGCTGGG
GAAGCCTAGGTGTCCTTGAGCTGAACCGCACTGAAGAACTCTGTCTCACTGGCTGATGCAGCAGAACTCTTGG
GAAATGTCTTAGTCTGCAGAAATCAGGAGTCACCAGATGATGCAGAGTTGAGATCATCATTGCAAAGTTCTCTGT
TCCTGAGGAACATAAATTTAAGGAAAAATGGGATTTTGTTTTAGAGTTGGAAGGAAAGCCTGATTAAAGAGTTTC
TGCCTGTT

3757/5332
FIGURE 3281

GTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTT
TCCCTGGCAGCTTTCAGTGTGATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTGTGACCATCAGCTTC
AGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTA
GACATTACTCTGTCTCAGAAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAA
CTCATTATTCTGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACC
TATGTTGGTGTCTGTTTTAACGGAATCACCTTCTAATTCTTGCCTGAAGCTGGCTGTCTTCATGTGGCTGATGACC
TATGAGAAGTACAAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAG
ATCCAAGCAAACTCCCTGGAATCGCCAAAAAAGGCGAGAAATAAGTACATGGAAACCAGAAATGCAACAGTTAC
TAAAAACACCATTTAATAGTTATAACGTCGTTACTTGTACTATGAAGGAAAATACTCAGTGTGACGTTGAGCCTGC
ATTCCAAGCTTTTTTTTTAATTTGGTGTCTTCTCCCATCCTTTCCCTTTAACCTCAGTATCAAGCACAAAAATT
GATGGACTGATAAAGAAGTATCTTAGAAGTCAAGAAGAAGAAATCAAATTCATAGGATAAGTCAATACCTTA
ATGGTGGTAGAGCCTTTACCTGTAGCTTGAAAGGGGAAAGATTGGAGGTAAGAGAGAAAAATGAAAGAACCTCT
GGGTCTTCTGTCCAGTTTTCAGCACTAGTCTTACTCAGCTATCCATTATAGTTTTGCCCTTAAGAAGTCATGAT
TAACCTTATGAAAAAATTATTTGGGGACAGGAGTGTGATACCTTCTTGGTTTTTTTTTGCAGCCCTCAAATCCTA
TCTTCTGCCCCACAATGTGAGCAGTACCCCTGATACTCCTTTTCTTAAATGATTTAACTATCAACTTGATAAA
TAACCTTATAGGTGATAGTGATAATTCCTGATTCCAAGAATGCCATCTGATAAAAAAGAATAGAAATGGAAAGTGG
GACTGAGAGGGAGTCAGCAGGCATGCTGCGGTGGCGGTCACTCCCTCTGCCACTATCCCCAGGGAAGGAAAGGCT
CCGCCATTTGGGAAAGTGGTTTCTACGTCACTGGACACCGGTTCTGAGCATTAGTTTGAGAACTCGTTCCCGAAT
GTGCTTTCTCCCTCTCCCTGCCACCTCAAGTTAATAAATAAGGTTGTACTTTTCTTACTATAAAATAAATG
TCTGTAAGTGTGTGCACTGCTGTAACTTGTAGAGAAAAAATAACCTGCATGTGGGCTCCTCAGTTATTGAG
TTTTTGTGATCCTATCTCAGTCTGGGGGGGAACATTCTCAAGAGGTGAAATACAGAAAGCCTTTTTTTCTTGATC
TTTTCCCGAGATTCAAATCTCCGATTCCCATTTGGGGGCAAGTTTTTTCTTACCTTCAATATGAGAATTCAGC
GAACCTTGAAAGAAAAATCATCTGTGAGTTCCTTCAGGTTCTCACTCATAGTCATGATCCTTCAGAGGGAATATGC
ACTGGCGAGTTTAAAGTAAGGGCTATGATATTTGATGGTCCCAAAGTACGGCAGCTGCAAAAAGTAGTGGAAGGA
AATTGTCTACGTGTCTTGAAAAAATTAGTTAGGAATTTGGATGGGTAAAAGGTACCTTGCCTTACTCCATCTTA
TTTTCTTAGCCCCCTTTGAGTGTTTTAACTGGTTTCATGTCTTAGTAGGAAGTGCATTCTCCATCCTCATCTCT
GCCCTCCAGGAAGTCAGTGATTGTCTTTTGGGCTTCCCTCCAAAGGACCTTCTGCAGTGGAAGTGCCACATC
CAGTTCTTTCTTTTGTGCTGCTGTGTTTAGATAATTGAAGAGATCTTTGTGCCACACAGGATTTTTTTTTTTT
TTAAGAAAAACCTATAGATGAAAAATTACTAATGAAACTGTGTGTACGTGTCTGTGCGTGCAACATAAAAAATACA
GTAGCACCTAAGGAGCTTGAATCTTGGTTCCTGTAATAATTCAAATTGATGTGGTATTATAAAAAAAAAAAAAA

3758/5332

FIGURE 3282

CGCCAAGCCCCGCCCCAGATGAGTGCGCAGTATGAGGACCGCTGGCCGGGACCCAGTGAGCGCGGGACTACAATT
CCCAAAGGACGGTAGCACTCAGCGCCCCGCCAACAGGTACCCGGCGGGCTCGCTTCGCGCACACGCGGCAGGCGGT
GGCGGGATTCTGCCGCGTGCGCTTCCCGCCCCGCCTCGCCTAGCCTCGTCCGCGCTCGCCACGCCCTCGGGCTG
TCCGTTGGGCCACGCAGACCGCGCTGCGCTCGCTCCGTCGCGGGCTCCGCGTGCCCCACCTTCTGGCTAGTTTTTT
CTAGAGCCCAGGCTCCGCCCCGTTCCCGCTTCCAGGGCCCGGTTTCGTTCCCGCCCGCACCCGTCCCTCTCCTCTG
CACCCTGCTGCTTCTGCTTTGAAGGCGGAGGCTCCATGTTGTCCCTCAGCGAGTGGCAGCAGCTGCCTCAAGA
GGAGCAGTGTAATGTGTGTGCTGTTGAAATGACCGTTTCACTTGCGAAATCGAAGAGCAAAAAGGAAAAGAACAG
TGAAGAATTTTAAATGAGTCTCAGTTCTCAAATTCAAATACGAAGCAATGGAACGTTTTGTGAGTCTTAGAATA
ACGGACCAAAAATGTACGATTTACATATTGGCTTACTTTGGAGATTTAAGAAGCATAACCTACGGAGTACTAA
TCCCTGTCAAGAATTTAGCATTGCAACATAG

3759/5332
FIGURE 3283

AGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTGTCAAACCTCCTGACCTCAGGTGATCCACCCACCTTGGC
CTTCCAGAGTGCTGGGATTACAGGCATGAGCCACCGCAGCGTTGTTTTGTTTTTTAGTCAGCAATGGTTTT
GGATTCCAAAGCTCTCAGGACCAAGGCCACGCATTTTGTCTAGTTGTCATGTACTCTTCAGTTTCTCAAACCTGG
AATTGTCCTCCGCTATGTGTTTTTTCATAACATCAGCCTCTTGCAGAGTCCAGGCAGTTTGTCTTGTGTGGGATGA
TCCATCATCTGGAGTTGTCTTTCCTGATGTTGTCCCCTCTGTTTGGTGCTGGGTGAGGCATTAGAGTTGGAAGTC
CACATGCTTGAGTTGCCTGTACTGAGCTTGTCCAAGGGAATGAGCCTAATTTCTTCTGTTGCTTCATTCTAGGA
CTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGGGTTATACACGGAAAGCCGCTGCGCTGGAAGCGAT
GAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGA
CGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACGACAGCCCCGAAGATGTGAAGCGACGAGCCATGGC
CGACCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGGACCCCCA
GGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAACTGATGGATGTGGGTCTGATTGC
AATTCGGTGATGACTTGTTTCATCCCCCTTCCCTTCGCCCTCATGTGGAAGAGGAGCTGGGACCGCGCGGAGCA
GCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCCTCATCTCTATATTATACATAACCCCGGGGAAGACAC
AGAGACTCGTACCTGCGCTGTTTGTGCCGCCGCTGCCTCTGGGCCCTCCAGCACACGCATGGTCTCTTACCCGC
TGCCCTCGAGTTCCATGTCTCTTCCCCTGCCCTAGTTGCTGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTT
TTATTGGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGGTTCTTCAGCCTCAGGTCCCAGCTGTCTCACGTT
GTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGGGCGTGGTTATATGTT

3760/5332
FIGURE 3284

AAAACACTAAGGGGAGCGCGGAAGCTGAACTTGGCGCTCGATGGGGGCCGTTAGCCGCCCTAGAGCGCGCGGAG
CCGCAGAGGCGTAGCTGGACTACAACGCAGTGCATCTCGGGAGGCCAACTCGACTGGACTGGGTGAGAGGACAGA
GGTGGCTCGATGGCGGGCCCGAAGGCCGGGGATCATGGCGGGAAGGCGGGCCAGACAGGTTAGCCCCGCCCC
GACCCGCGCTCCCCACCCCCGGCCGGCCTCGCGTGCTTCCCGCAGCACTGCCGTCCCCGGGATGCTGAGCGC
CCACCGTCTCCCCGAGCCCCCTCATGCCCGGTGCGAGCTGCCCGTGGGCACCTGCCCGGACATGTGCCCGGCC
GCCGAGCGCGCCAGCGCGAAAGGGAGCACCGCCTGCACCGCTTGGAGGTGGTGCCGGGTGCCGCCAGGACCCG
CCCCGCGCGGATCCGCAGCGCGCGGTGAAGGAGTACAGCCGACCCGCCCGGCAAGCCCCGGCCCCCGCCAGC
CAGTTGCGTCCGCCCTCCGTGCTGCTGGCCACCGTGCGCTACCTGGCCGGTGAGGTGGCGGAGAGCGCCGACATC
GCCCGCGCCGAGGTGGCCAGCTTCGTGGCAGACCGCTTGCAGCTGTGCTCCTGGACCTGGCGCTGCAGGGAGCG
GGCGACGCCGAGGCAGCTGTGGTGCTGGAGGCGCGCTGGCCACGCTGCTGACCGTAGTGGCGCGGCTCGGGCCC
GACGCGCGCGGGGACCCGCGGACCCGGTGCTGCTGCAGGCCAGGTGCAGGAGGGCTTCGGCTCGCTGCGGCGC
TGCTACGCGCGGGCGCCGGGCCGACCCCCGCAACCCGCCTTCCAGGGCCTCTTTCTGCTCTATAACCTGGGT
GAGTCGGGATCCTGGCGGCTGGGCAGAGCGTGGGGACAGGAGCCCACCATGACAGTGGAGGCTCGGTGGAAGCCC
TGCATGAGGTTCTACAGCTGCCTGCTGCCCTGCGCGCCTGCCCGCCCCCTCCGCAAGGCCTTGGCGGTAGATGCTG
CCTTCCGAGAGGGCAATGCTGCCCCGCTGTTCCGTCTGCTCCAGACCCTGCCCTACCTGCCAAGTTGCGCTGTGC
AGTGCCATGTGGGCCATGCCCGCCGGGAAGCCCTGGCCCGCTTCGCTCGTGCTTTAGCACCCCCAAGGGCCAGA
CCTTGCTCTGGGCTTCATGGTCAACCTCTTGGCCCTGGATGGACTCAGGGAAGCACGGGACCTGTGCCAGGCCC
ACGGGCTGCCCTTGGACGGAGAGGAGAGAGTTGTGTTCTGAGGGGTGCTACGTGGAGGAAGGGCTACCGCCTG
CCAGTACGTGCAAGGTGTTAGTGGAGAGCAAACCTTCGAGGACGTACCCTGGAGGAGGTGGTCATGGCAGAGGAGG
AAGATGAGGGCACGGACAGACCTGGGTCCCCAGCCTGAGGAGGGAGCGTGAGCCTCCAGAGCCCCAGGACTGGG
CCAGAGCACTTAGGTTTCTTTTTCCATGGTTTCCAGGTAATAAAGGAACCTTGTTTTGTGGT

3761/5332
FIGURE 3285

CTCCGGGGACCAATGGGGCTCCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT
CCCTGCGGTCCTACTGGCGGA¹ACTACTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCTCCTCA
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCTCTAACGCCATCCGCGAGGTCTGGAGCTGGACTCCA
TCCGAGCCACCACTGGTGCATCCAGGGCTGCAGCGCCGTCACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC
TCCTGGATGACATTTCCAGCCGCATTTTACAGCTGACTGA²ACCACTCCAGATGCCCCCACCTAGCAGTCCAGG
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAAACTAACACTCCCCCTCCTCCA
CCCCAGCCTGCTGCTGCTACTGCTGCCCCTGCTGCTCTGTGGCCACCCGGCTCCCATGGCGGGAGGGCTGTGCC
CTGGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATAACCAAGAAGAGAGGGCTGGGCGGGAGGAGCTG
CTACTGCTGCTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCG

3762/5332
FIGURE 3286

GGAGACCGGAGGTCTGAGCTGCAGCCACTACACAGGCCTGGAATTCTACCACAGGGAATTTGCAGCACGAGTCTC
TGGAAAAAGACAACCTCGCCCTGCGGAAGGAGATCCAGTCCCTGCAGGCCGAGCTGGCGTGGTGGAGCCGGACCC
TGCACGTGCATGAGCGCCTGTGCCCCATGGATTGTGCCTCCTGCTCAGCTCCAGGGCTCCTGGGCTGTGGGACC
AGGCTGAGGGGCTCCTGGGCCCTGGCCACAGGGACAACATGGCTGCCGGGAGCAGCTGGAGCTGTTCCAGACCC
CGGGTTCCTGTTACCCAGCTCAGCCGCTCTCTCCAGGTCCACAGCCTCATGATTCTCCCAGCCTCCTCCAGTGCC
CCCTGCCCTCACTGTCCCTTGGCCCCGCTGTGGTTGCTGAACCTCCTGTCCAGCTGTCCCCAGCCCTCTCCTGT
TTGCCCTCGCACACTGGTTCCAGCCTGCAGGGGTCTTCTCTAAGCTCAGTGCCCTCCAGCCCAGCCTCACGGCCC
AAACTGCCCCCTCCACAGCCCCCTCGAGCTGGAGCATCCCACCAGAGGGAAGCTGGGGTCTCTCCCGACAACCCCTT
CCTCTGCCCTGGGGCTTGCACGTCTGCAGAGCAGGGAGCACAACCTGCTCTCTCAGCAGCCACTTGGCAAGGGC
TGGTTGTGGATCCCAGCCCTCACCCCTCTCCTGGCCTTTCCTCTGCTCTCCTCTGCTCAAGTCCACTTCTAACTG
GTCTTCGGAGCTGGGTGGGCCCTTCTTTGGGCTCAGGAAGCAGCCTTAGCACACGGGCCCTCTCCTCCCTACTA
CTGGGTGCTGCCCTGCGTGGCTGACCAGCTGGCCAGGATTTACAGTCGAAAAGGAAGCCACCACTGATGCCTC
CCACTGTGACAGGCCCTGTACCAACCAATATCTTATTTCAACCTCACAGTTGACCTGAGAAATCGAGATTATCAC
TCCACTTTTTTCAGACAAGGAACTGAGGCTCAGGGAGCCAAGTGACAAGTCCAAGGTCACGAAGACTTCTTGG
AGCCCGAAACACCACCCTCTGCTCCTCCTTCTCCTGTCTGGCCAGGCATCCTAGGGGCTGAAATCCTGGAAAC
CGTGGGCTGGTGTGAGAAGGTTTGCATGCTCAGAGCAGAGAAGGGCTCTCCCCACTGCTTCGTGATTCCAGGGCC
AGAGCCATGCAGTCCCAGAAACCCCAACCTAGCTGGGGCAGGTCCAGAGTCCAAGCCCTGGTGGGTAGAGGCCAA
GCAGAAGCCCTGAAGTGGACTCTTGCTTCCCCTAGTAGTGTTTTAGTGCCAAGAAGCTGAAACTGTGAGCTGGA
GTTGGGGAGAGGTCTGGAAGAGGACCATCTGGGATTTCTACAGCCTGGGTACCCATAGCCACACCAAGGCTTCTG
GGAGATTCTGCAGGGTCAGCTTTCCAGGCTGTTCCCAAATAGCTCCCTGCCTCCCCACTGCCCCTAAAGCCACAG
CAGAAGAGCCATTCTATCTATAAACAAGGAAGAGGAAAGAATGAGGAAGGACCCTGTGCAAGGTTATTTGCA
GGCAGGGATGGGCTTGTACCTGACAGACCCACCCCTGTGTGGCCCCCAGGCCCTCATCACCCCTCAGACCCCTCC
TAAGCAGTTCCTCATTTGCTCTTTGGACTAGGCTGACAGCAGGAAGAGCAGGGCCCATGACCGGGTGAAGTTCA
GTTTTGGTGTCTGCTTCAAGAGGGGGTTTTACACTCTGATTCCAGGACAAGCACTCTGAGGCGGGTGGGGGAGAG
AAACCCTGGCTCTTACCCAGGTTTACACACATGTAAATGAAACACTATGTTAGTATCTAACACACTCCTGGAT
ACAGAACACAAGTCTTGGCACATATGTGATGGAATAAAGTGTTTTGCAATCTTT

3763/5332
FIGURE 3287

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCCCAGAAAAACAAGATATACCCTAAATATGCAC
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTG
GCAGCTTTCAGTGTATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTGTCAACATCAGCTTCAGGATC
TACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT
ACTCTGTCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAACTCATT
ATTGCTCTCTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT
GGTGTGTTTTTAACGGAATCACCTTCTAATTCTTGCTGAAGTGTCTATTTTCAGTGTCCCGATTGTCTATGAG
AAGTACAAGGAGATGGGCCACTTAA

3764/5332
FIGURE 3288

CCCACCTTGGGACACCTTGACTCCAAGCCCAGCAGTAAGTCCAACATGATTTCGGGGCCGCAACTCAGCCACCTCT
GCTGATGAGCAGCCCCACATTGGAACTACCGGCTCCTCAAGACCATTGGCAAGGGTAATTTTGCCAAGGTGAAG
TTGGCCCCGACACATCCTGACTGGGAAAGAGGTAGCTGTGAAGATCATTGACAAGACTCAACTGAACTCCTCCAGC
CTCCAGAACTATTCCGCGAAGTAAGAATAATGAAGGTTTTGAATCATCCCAACATAGTTAAATTATTTGAAGTG
ATTGAGACTGAGAAAACGCTCTACCTTGTCATGGAGTACGCTAGTGGCGGAGAGGTATTTGATTACCTAGTGGCT
CATGGCAGGATGAAAGAAAAAGAGGCTCGAGCCAAATTCGCCAGATAGTGTCTGCTGTGCAGTACTGTCACCAG
AAGTTTATTGTCCATAGAGACTTAAAGGCAGAAAACCTGCTCTTGGATGCTGATATGAACATCAAGATTGCAGAC
TTTGGCTTCAGCAATGAATTACCTTTGGGAACAAGCTGGACACCTTCTGTGGCAGTCCCCCTTATGCTGCCCA
GAACTCTTCCAGGGCAAAAAATATGATGGACCCGAGGTGGATGTGTGGAGCCTAGGAGTTATCCTCTATACACTG
GTCAGCGGATCCCTGCCCTTTTGATGGACAGAACCTCAAGGAGCTGCGGGAACGGGTACTGAGGGGAAAAATACCGT
ATTCCATTCTACATGTCCACGGACTGTGAAAACCTGCTTAAGAAATTTCTCATTCTTAATCCCAGCAAGAGAGGC
ACTTTAGAGCAAATCATGAAAGATCGATGGATGAATGTGGGTACGGAAGATGATGAACTAAAGCCTTACGTGGAG
CCACTCCCTGACTACAAGGACCCCCGGCGGACAGAGCTGATGGTGTCCATGGGTATACACGGGAAGAGATCCAG
GACTCGCTGGTGGGCCAGAGATACAACGAGGTGATGGCCACCTATCTGCTCCTGGGCTACAAGAGCTCCGAGCTG
GAAGGCGACACCATCACCTGAAACCCCGGCTTCAGCTGATCTGACCAATAGCAGCGCCCCATCCCCATCCCAC
AAGGTACAGCGCAGCGTGTGCGCCAATCCCAAGCAGCGGCGCTTCAGCGACCAGGCTGGTCTCTGCCATTCCCACC
TCTAATTCTTACTCTAAGAAGACTCAGAGTAACAACGCAGAAAATAAGCGGCTGAGGAGGACCGGGAGTCAGGG
CGGAAAGCCAGCAGCAGCCAAGGTGCCCTGCCAGCCCCCTGCCGGTCTGGAGAGGAAGAAGACCACCCCAACC
CCCTCCACGAACAGCGTCTCTCCACCAGCACAAATCGAAGCAGGAATTCCCCACTTTTGGAGCGGGCCAGCCTC
GGCCAGGCCTCCATCCAGAATGGCAAAGACAGCCTAACCATGCCAGGGTCCCGGGCTCCACGGCTTCTGCTTCT
GCCGAGTCTCTGCGGCCCGGCCCCGCCAGCACCAGAAATCCATGTGCGCCTCCGTGCACCCCAACAAGGCCTCT
GGGCTGCCCCCACGGAGAGTAACTGTGAGGTGCCGCGGCCAGCACAGCCCCCAGCGTGTCCCTGTTGCCTCC
CCATCCGCCCCAACATCAGCAGCAGTGGTGGAGCCCCAGACCGAACTAATTCCCCCGGGGTGTGTCCAGCCGA
AGCACCTTCCATGCTGGGCAGCTCCGACAGGTGCGGGACCAGCAGAAATTTGCCCTACGGTGTGACCCAGCCTCT
CCCTCTGGCCACAGCCAGGGCCGGCGGGGGGCTCTGGGAGCATCTTCAGCAAGTTCACCTCCAAGTTTGTACGC
AGAAATCTGTCTTTACGTTTGCCAGAAGGAACCTGAATGAACCTGAAAGCAAAGACCGAGTGGAGACGCTCAGA
CCTCACGTGGTGGGAGTGGCGGCAACGACAAAAGAAAGGAAGAATTTGGGAGGCCAAGCCCCGCTCCCTCCGC
TTCAGTGGAGTATGAAGACCACGAGCTCCATGGAGCCCCAACGAGATGATGCGGGAGATCCGCAAGGTGCTGGAC
GCGAACAGCTGCCAGAGCGAGCTGCATGAGAAGTACATGCTGTGTGCATGCACGGCACGCCGGGCCACGAGGAC
TTCGTGCAGTGGGAGATGGAGGTGTGCAAACTGCCGCGGCTCTCTCTCAACGGGGTTCGATTAAAGCGGATATCG
GGCACCTCCATGGCCTTCAAAAACATTGCCTCCAAAATAGCCAACGAGCTGAAGCTTTAAACAGGCTGCCAGGAGC
GGGGGCGGCGGGGGCGGGCCAGCTGGACGGGCTGCCGGCCGCTGCCCGCCCCACCTGGGCGAGACTGCAGCGA
TGGATTGGTGTGTCTCCCTGCTGGCACTTCTCCCTCCCTGGCCCTTCTCAGTTTTCTCTTACATGTTTGTGGG /
GGGTGGGAGATTGTTNTCCAGCACCCACATTACCCCTGCCAGAGATTCCCCCTTCTCCTCTCCCTACTGGA
GGCAAAGGAAGGGGAGGTGGATGGGGGGCAGGGCTCCCCCTCGGTACTGCGGTTGCACAGAGTATTCGCCTA
AACCAAGAAATTTTTTATTACCAAAAAG

3765/5332
FIGURE 3289

GCTGCTGACTGGCGGGCCGCCAGGCGCGTGCCTAGAGACGCCACACGCCCGCTGATGCGCACGCGCCCTGGGCC
 GCGCGTGCGCGCGTGGGGTTCCGGAATGAGCCGGGAAAGCAAGGGGAAGGTTTGGGGTTGGCTCCCGGTTTCGC
 GCATGCGTGCACTGCACAAACCATTGCGGGGTTTTCCGGCCACTCAGTTCTGCCACCGTCACTGAGAAGCTCA
 GCGGTAGCTTTTGGGAAGCAGGACGTTCTCACCAGGAGAGCGTCTCTCGAGATTTCTGCTCCCTCCATTACAGGG
 CGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAAGTATTTCTCTGTGACCGACGCGGGGGCCTTCTGACGGTCT
 GAGGTCTTGCTTGGGCCAGTCACCTCTGTACGGTCCGCGGAGGGGGGAAGGATAAGAGGGCGAGGAGCTCATC
 GCTCGCCACCCCGTGGGCTTCTTGGGCGCAGGTGCGAGCTGGGTGGGCCGGCTCCCCGGCCCTGGCTTGGGCG
 ACCATGTCGCGCATCCGCCCAGCAGCTGGCGGAGGAGCTGCAGATCTTCGGCCTAGACTGCGAGGAGGCTCTAATT
 GAGAAATTGGTAGAGCTTTGTGTTTCACTATGGACAGAATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGC
 ACCAGCACACATAAAGTTGGCCTTACCTCAGAGATCCTGAACCTCTTTGAGCATGAGTTTCTGAGCAAAAGATTA
 TCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGCCATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTA
 ATTGAAGTGGAAGAAGAAGAGGAAATCCTCTTGAACCTCTTACACCACACCTTCAAAGGGTTCTCAGAAGCGAGCT
 ATCTCTACCCAGAAACCCCTTACAAAAAGGAGTGTGTCAACTCGTAGCCCCATCAGCTACTCTCACCCTCA
 AGTTTCTCTCAAGTGCTACTCCCTCCCAGAAATACAACCTACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTC
 GGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGAGAGCTGGAACAATCAGCCTGAAGGTCTTGGGATGTCCA
 GAGGCACTAACTGGGAGCTACAAATCCATGTTTTCAGAAGCTCCAGACATTTCGAGAAGTTCTGACCTGTAAGATA
 GAAGAAGTTGGCAGCGAACTCAAGGAACATTACAAGATTGAAGCTTTCACTCCTTTGCTAGCCCCAGCACAGGAG
 CCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGCAACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGA
 GACCGGGAACATTCTCGGGTGTCAAATTCCAGTGGATTATCTGAGCTTAAGGAATATTCTCTGTTTCTGGA
 CAGGTTGTAATTATGGAAGGAATCAACACCACTGGTÄGGAACTTGTGTCACCAAACTCTACGAGGGTGTGCCA
 CTTCCATTTTATCAGCCCACTGAAGAGGATGCAGACTTTGAGCAAAGCATGGTCTGGTTGCCTGTGGACCATA
 ACCACATCTGACAGCATCAGTATGACCCCTGCTTGACCTGATTGCTGTCTCATCAACCATGACCGGCCAGATGTC
 TGCATCCTGTTTGGCCCTTTCTGGATGCTAAGCATGAACAGGTGGAGAATTGTCTACTGACAAGTCCATTGAA
 GACATTTTCAAGCAGTGTCTACGAACAATTATTGAAGGCACAAGAAGCTCCGGCTCCCACCTTGTCTTTGTCCCG
 TCATTGAGAGATGTGCACCATGAGCCTGTGTACCCCCAGCGCCTTTTCAGCTACTCCGATCTGTCTCGAGAGGAC
 AAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGCCTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACA
 GATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGTAGTTCTTCCGGAACCTCAGACAGATTTCAGCCGAATACTC
 AAGCACATCTTGACCCAGAGGAGCTACTACCCACTCTACCCGCCCCAAGAAGACATGGCCATTGACTATGAGTCG
 TTCTATGTTTACGCACAGCTGCCTGTCAACCCAGATGTCTCATCATCCCGTCAGAGCTGAGGTACTTCGTGAAG
 GATGTCCTCGGCTGTGTCTGTGTGAACCTGGGCGCCTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCGACTC
 TACCTTAGGAGGCCGGCAGCGGACGGGGCAGAGAGGCAGAGCCCATGCATTGCTGTGCAGGTCTGTCAGGATCTGA

GGCTTCTGTCTCTGCTGTTCTCTGCTGTGTGGGCCCTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGA
 CAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGCCAGCCAGGGAGGGGAGCTGCAAGTACCAGGCCAGCAG
 GGAGGACTTGTGCAGCCGGGCTGCCTCTGAGTGGTGCCTCTCCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGC
 TCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCCCACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACAT
 GAATCAAACACAGAAACAATTTTGGAGAAATTAATTCTGAGTGTGACTTCTGAGTTTGACCTTTCTTCTATTT
 TCTTTTATTTATTTATTTTGTTTTGTAGACGGAGTCTCGATCTGTGCGCCAGGCTGGAGTGCAGTGGTGAGATCTC
 GGCTCACTGCAAGCTCTGCCGCCGGGTTTATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA

3766/5332
FIGURE 3290

AAGATGCGGCTGTGGTGGAGAATGTAGTGAAGCTCCTTGCGGAGCAGTACTACAAAGATGCCATGGAGCAGTGC
CACAATTACAATGCTCGCCTCTGTGCTGAGCGCAGCGTGCGCCTGCCTTTCTTGACTCACAGACCGGAGTAGCC
CAGAGCAATTGTTACATCTGGATGGAAAAGCGACACCGGGGTCCAGGATTGGECTCCGGACAGCTGTACTCCTAC
CCTGCCCCGGCGCTGGCGGAAAAAGCGCGAGCCCATCCCCCTGAGGATCCACGACTTTCCTTCCCATCTATTAAG
CCAGACACAGACCAGACCCTGAAGAAGGAGGGGCTGATCTCTCAGGATGGCAGTAGTTTAGAGGCTCTGTTGCGC
ACTGACCCCCCTGGAGAAGCGAGGTGCCCCGATCCCCGAGTTGATGATGACAGCCTGGGCGAGTTTCCTGTGACC
AACAGTCGAGCGCGAAAGCGGATCCTAGAACCAGATGACTTCCTGGATGACCTCGATGATGAAGACTATGAAGAA
GATACTCCCAAGCGTCGGGGAAGGGGAAATCCAAGGGTAAGGGTGTGGGCAGTGCCCGTAAGAAGCTGGATGCT
TCCATCCTGGAGGACCGGGATAAGCCCTATGCCTGTGACATTGTGGAAAACGTTACAAGAACCGACCAGGCCTC
AGTTACCACTATGCCCCACTCCACTTGCTGAGGAGGAGGGCGAGGACAAGGAAGACTCTCAACCACCCACTCCT
GTTTCCCAGAGTCTGAGGAGCAGAAATCCAAAAGGGTCTGATGGATTGGCCTTGCCCAACAATACTGTGAC
TTCTGCCTGGGGGACTCAAAGATTAACAAGAAGACGGGACAACCCGAGGAGCTGGTGTCTGTTCTGACTGTGGC
CGCTCAGGGCATCCATCTTGCTCCAATTTACCCCCGTGATGATGGCGGCAGTGAAGACATACCGCTGGCAGTGC
ATCGAGTGCAATGTTGCAATATCTGCGGCACCTCCGAGAATGACGACCAGTTGCTCTTCTGTGATGACTGCGAT
CGTGGCTACCAATGTACTGTCTACCCCCGTCCATGTCTGAGCCCCCTGAAGGAAGTTGGAGCTGCCACCTGTGT
CTGGACCTGTTGAAAGAGAAAGCTTCCATCTACCAGAACCAGAACTCCTCTTGATGTGGCCACCCACCTGCTCCC
CGACATATCTAAGGCTGTTTCTCTCCTCCACTTCATATTTCATACCCATCTTTCCTTCTTCTCCTCTCCTTCA
CAAATCCAGAGAACCTTGGGGTGGTTGTGCCAGCCTGCCCTTGGCAGCTGCAAGCTGAGGTGGCAGCTCTGACCA
CCTCTGCCCCAGGCCCTCAGGGAGAAAGGAGCAACACACTGCCCCTAGGCGTGGGTGTGGCCAGTTTCTCTCT
GCTCTCCATTAAGTGCAATCACTCTGCTTGCCTTGGGCCAGCCCCCTGGTGATCACAGGGTTCAAACAGTGTCTC
CCTAGAAAAGAGTGGGAGAGCAGCTCACTTCTCTGTGTTCTGCCTCCCTCTGGTCTCCAGAGTTTTCTGTCTCTC
TAGAGGCAAGCCAGGCCAGGGAGCTGGGAGCGAGCAAGCTGAGGCCACGTCCACAAGGAGCTTTTCATGCCCTG
TGCCGCATAGCCTCACCTCTTCTCCAGAGTGGCTCTCTGCGGCCCTGTGTTCTCTGCTACAGAGTGTCTTTTC
TGGAGTCAGGATGTTCTCGGTACCCCTCCTGGTTCTGCCCTGTCCCATTCCACCCACCCAGGGGGAACAGTAG
CTTACCTTGTATTCCCATTTGCTCTCCTGGCTCACTCTTACGGTCGGTCTCCAGTGAAGCATTCCCCACC
CTTGGAATTTCTCATCTTCTGCCTCCCTTCTACTCCTTTTGGTTTTGTGGGGAGAGGGGAAGGATCAGGGGGCC
AGGCCAGCAGCTCGGGGGCCACAAGGAGATGGATAATGTGCCTGTTTTTAAACACAACAAAAAGCCTACCTCCA
AAATCCCCTTTTGTCTTCTCCTGGACCTGGGCATTAGCCTCCTGCTCTTAAGTGAATTGGGAGCCTCTGCCACC
TGCCCCGTGTATCCTGGCTCTCAGCTCATGGGAAGCCACATAGACATCCCTTCTTCCCTTGACGCTCGCTAG
CAGCTGGTAAGGTCTTACACCCCTGATTCTCAAGTTTTCTGCTTAGTGGCACTGACATTAAGTAGTGGGGGAC
AGTCCATGCCAGGACACCCTGGAGTAGCCTTCCCCCTTGCCGTGGGCAGGCCCTAACTCACTGTGCTTTGGAG
TTGAGGTGCTTTTCTTTTCTTTCTTTAGTTTCTGTATTCTAAACATTAGTAAAAATAAATGTTTTTACACAGA

3767/5332
FIGURE 3291A

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCCTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT
AGTGTGTTGTTAAGTTGTTGCTTGGGAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA
AACAGACAAACTAACAAACAAAAATTGTTTTGCTTTGCTACAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA
ACAGGTGACACAGAGTCACCAAGTTTTCCGAGAACCAAAGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA
ATGTCTTTACCAGCTTCTCTGCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTTGTTTGGGGTGTGGGTGTT
ATCAAGTGAATTAGTCACTTGAAAGATGGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCTT
TAGCAACTTAGGTGGTTGATTTGAAACTGTGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG
TAAATGCCTATATTGTGGGCTTTTAACTGATTTAAGGGACCCTTAAGACGAGATTAGATGGGCTCTTCTGGATT
TGTTCTCTCATTTGTCACAGGTGTCTTGTGATTGAAAATCATGAGCGAAGTGAAATGCATTGAATTTCAAGGGAA
TTTAGTATGTAAATCGTGCCTTAGAAACACATCTGTTGTCTTTCTGTGTTTGGTTCGATATTAATAATGGCAAAA
TTTTTGCCTATCTAGTATCTTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTTGTGGTCACTGTAAATTA
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTTGAATGT
TTGTGCTTTTTAAATGAGCCAAGACTAGAGGGGAAACTATCACCTAAAATCAGTTTGAAAAACAAGACCTAAAAA
GGGAAGGGGATGGGGATTGTGGGGAGAGAGTGGGCGAGGTGCCTTTACTACATGTGTGATCTGAAAACCTTGCTT
GGTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCTTCTTCCCTTTAAGTT
TCACCTGAAATTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTCTGTCTTCTGGGTTCATTTTTTAAAT
GTTTAAAAATATGTTGACATGGTAGTTCACTTCTTAACCAATGACTTGGGGATGATGCAACAATTACTGTCTGT
GGGATTTAGAGTGATTAGTCACGCATGTATGGGGAAGTAGTCTCGGGTATGCTGTGTGAAATTTGAACTGTAA
AAGTAGATGGTTGAAAGTACTGGTATGTGTCTGTATGGTAAGAATAATTCTGTACGTCACTATGATAATTA
CTAATCACTTTTCTTCCCTTTACAGCACAAATAAAGTTTGAGTTCTAAACTCATTAGAATTGTTGTATTGCTAT
GTTACATTTCTCGACCCCTATCACATTGCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTTAGGTCT
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAAGTGGTATTATCCCAA
GTGGTCTGCAGACTGCTGAGTGGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAATGTGA
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTAAACATTACCTG
GTTAGAGTTCTAAGTGGTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAAACAGAAATGGACACATAAT
ATGCATATTCATAGTCTTTGGGAGGCTGGAATGTGCCTGGGATTTGGGTCTAAGTGTATGCGTAATTCTTACCT
CACTAAAGAATTTGCCCTGTTTTTTCTTTTGGTGAGTGACTAAAACGTCTGGGCTTCCCTGTGTGCGTGCTAC
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTTGGCTTGCAAA
CTGCCTCTGTCTCTGGGTGGGACTGTTCTGTCTTGCCTGCTGTTCTGTGTTACCTCTTGGGGTGTAAAGTTT
TGCTTACAGGAGACAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT
TTCAAAGGGAGCAGCAAGGGAGGCTTGTCTACTCACCTGGGCTGTTTGCTGAGAAGGGGAGATAAGGGCTGA
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGATCATGACCTGAAGGATTCTTTCCTTCCCATGAGCT
GCAGGGCTGGTTGCCGTCTTGAACCTGTGTCTTATTTGCCGTGTGCCGTATATCTTGGTGACCCCTCCACGTGT
ACACTACTGACAAACGGGTGGAGTGTGTTGGGAGAAGTCACTGTGCCGCCACCTAGTAAACCTTCTGTCTGTGCT
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCAGAATCCAGGGTCCTTTCTGTCTTGCAACTCCTTTCCCTG
GATGCCCCAGAAACAATCCAGGCCCTTCTTCTATCTTACCCCTTTGCTTTGCTTTTACCCAGCACCTCTATA
ACCGCCTTCTCTTTTTCAGAACTCCTTGTCTCTATCCTGTTTTTATGATTACAAAACCTTGTCTTCCACCC
TGGAAGATAACTGCTATAGATGCCTGTATGTAAATGGTGTCTGTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA
TTCACGGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTGATACAGGAGCAGAGAGGTGAG
GCCGACTGCTGAAGACAGCTCGCCACCCCTCCTTGCTTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATTGCTAATCCGTTTG
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGTAATATAATAGAATTCAGTGAG
TGGGCATGGCTGATCTTGTGCAAAATAAAAGTTATGGGGCATAAGAATAGCAAAAGTTGAACCTCTTTTAAAAAG
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCAGTATGCCAGGTGGCAGCACTGAGAACCGCAGGAA
CGGCTGTTGTTACAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCCATGTGCAGTGAGACCTCTGGAGGAAGTGCATCCTCTGGCTT
TGTGTGGTACTCATTATGGTGCAGTGCGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT
TAAATGTTTCGTATTTAACAAAAACATACTGACACTGTTTGGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

3768/5332
FIGURE 3291B

[illegible]

3769/5332
FIGURE 3291C

TTTTTCCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACTCTTAGTATCAT
TGGGAAGGCCACATTTGCCAATTATGATTGTAAACCTTATCCTCCATTTTTCCTGTTATTGTTGGTGCAAAAAGC
ACCTATTATACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAAATACTGATAAGTCCA
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT
CTCCATTTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTTGGTTTTTTTCGT
TCCAGGTCAGTCAATATTAACCTTCTTATAATTTCTTTTTTTCTTTATGTGTGTGTGTGTGTGTATTTTTTTT
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG
ATTTTACTGCACCGGTCACCTGAGTAGTGTACATTGTACCCAATATGTGGTTTTTTTATACCTTGCCCCCTCTTA
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTTGTACCCATAAGTTAGCTCTCAC
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCTGAGTTGCTTCACTTAGAATAATATCCTCCAGCTCCA
TCCAAAATTGCTGCAAAAAAACCACAAACATTATTTGTCTTTTTTATTGCTAAGTCATATTCCATG
GTGTAGAGATACCACATTTTATTTATCCACTCACTGGTTGATGGGTTGGTTCCACATCTTGCAATTGTGACTTG
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA
TCAAAATGGTTCTTAACATTTTCTCTCTGGATCTATTTCTGGAATTTTAGGCTCCAGTTTTGTGTGTGTGTGA
ATAAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAATCTGGTAAATGGAGGCTAGAACACT
CCTGTAAGGCAAGAATATTCTCTCTGTGGAACTCAAATACACAGAAGTGGTAAATCTCAATCTTAATCTTGA
TTCAGGACACAACATGGCTCTCTTTTACTTGCTTTCTTAAATGTTTTTTAATAATGTGGTAAGCAATTTCTGAAT
CTCCTATCCAATACAAAACTAGGACAATACAGACAGTAACCTCTATGGTTACAATGAACACTCCTCTCCACTTA
AATTAATTTTACACTGATGAAATTGAAATAGCAAAATTTTAAATGACTAAATACTGTCTTTGATTTTTTGTCTCC
AGGTCTGTCAATATTAACCTTCTTATAATTTCTTTTTTTTTCTTTATGTGTGTGTGTGTGTGTATATATATAT
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATGAGTTCTACAGTAGTGAAGTCTGAG
ATTTTACTACACCTTCCACTTATGTGGTCCACACACCCGCCCTCCCTGCCGCCTCCTGCCACCCCTTAGGCCA
AGGTAATAATCATCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTATATAATTTTGCAAAAGAATCTGA
TCTAAATGTGTTTTTTCAAGATATATATTTATATTTAGCTGTTCTTAGAGAAAATTTATTATTTGCATGTAATC
TTATGGAACATTCTCATTTAATACCATGGTAAGATTAGCCCTTGCCAGGGGATAGTTTCAATTTAGTTTGTGTAC
TGGATAGAGCTCATCATGTGACTATACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT
CAGCCTCTCAACAACACTGTTTCTCAGTGTCTTGTAGAAGTGATATGTGGGTGTTTTCTCCTTACACAGAGTTG
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCACCCCTCCAGAGGGGTAACCAGTGTACCAGTTTGCTG
TGTTTTCTGTACACCTCGCCTTATTCACTTCCATTTGTATCTGAAAAACGTGTTGCATGGTTCTTTTCTATAG
AAGTGGTAAATGCTATTGTGTCTGTACATTATTGATTACTTTTTTCAATTAACAGTAGGGAGATGCCTGGGA
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTTAAT
GGAAATTTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTGTG
CACAATGCATGAGTGTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTCATAGGGCGTGAGTCCGACATT
TTTCTCCATTCTGCCCTGTGCCCCTCCAGAGTGGGTGTCCAGCTTGCATACCTAAGTATGAGAGTATCTGTTGT
TCATATCCTCTACGACGCTCCATATATGAACTTAAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA
GTGACCTACTAAGACTGTAATTGGTACAGTAGATTCTTGTCTCTGTGTGTGAATTTAGCAATTCATGGGCTTAAT
GCTGACAAGGCCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGTCAAGGTATAATTTTTTAAATTGCTTT
TGTCATGTGTCTGTGGTGATGCCCAACCCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCTCTGCTTAT
GCCTGCATTGCAGCAACTGTCTGAAGAGACCAAAATATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGTATGAATTTATAAATCACTGGTCTTGTAATTAATTA
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTCTCTATAATCCCGGACCCCTAAGATAACTACTAATGA
CAACTTCATTTATATTCTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATCTCTGCCCTA
AAATGGAATCATACAAGGTGTACTGTTATTTTTATGGCTCTATAACATGTCATATTGTACGTGTTGGTATGGTCA
TTTTAACCATTTTTCTAGTGATGGCTTTGAGGTTATTGTCAGTTTCTTAGCCATCTCAAAGTGTGCTGCGGGGAT
CTCTTTTGCATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGCAGTGTCAGAGGAGGCAGCATCTGTAGGTGT
CTTCACTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC
AAAATAGAATAATGTTGGTCTCTCTCATGTGCCGTGGAAGTGGGGTAAACTGCGTAGTGGCTGCAGCTGCCT
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCTGCAGGCCCCAGAGT

3770/5332
FIGURE 3291D

CTAATTCCTGGTATTCTTTCCCCTACACAGATTAAATAAACCAAAAACAACTATTCTAGGAAAGCGTCTGTGAC
ATTTGTAAAAAGTGGTATTTAATGATCTTTTATTCACTTGCTGTGTTAGTTTGTGAAATCTTAAGTGGCATCCT
GGTCTGGGAAGGAGTGCTGTCTGCGCCTGCCCTCCGCTGGGCACAGCGTGGCTGCTTCAGGGGCTAAGCACACAC
TTTCTGTCTTCTAAAGGGCCGCCACATGCCAGGAGCTCAGGTGTGAGCCCGGCTCTGGCTCTTACCTCATAGGGT
CACTCATAGGGGCACAGGGAGCAGAACATTGTACACAGCGAGGCACCAACCCGGCTTGGCATCTGCCTCGGTGGAC
TTACTACCTCTAGAAGGAAATACCTGAGTTCCTCTGGCCTCAGCTCCTAGAGTGACTGGTGTGCTGTCCCTGTTA
CTCTTCTGTCAAGGTGACAACCTGTGTGACCCATCATCTGTGTGTCAAAGCAAGGCCCTGCCTGGGCCTCTGTCC
TGTGCTGACCCCAAAGGCAAATGCTTTGCTAGTTTCCTTCCAGTTAATTTACCTATGAATAGATGTGTGAAAC
TGTTCAAAGCCATACCTGCACATGTTTGAACCTTCAAACCTGTGGGTGATTTCAGTGGCATCTTTCTTAACCCCT
AGCCTCCCTTCCCACAGAGGCCACCGTCATGGCCAGTTGCTGCAGTTTCTTTCCAGAGAACCTGTGTATGTGTAA
AGCTGTACAGGCGTGGGTACACCACACAGCCTGTCTTGCACTGTGGACTGTTGAGTTACTAGTACATCTAGGTAA
GCACCGCATATCTGTATTATGTCTGCCTTGGTCTTTTCAACATCTGTGTGGTAGCCGTGTTGAATTACCCATT
CCCTTTTTGGGGAACCATTAAGTTGTTTCAGCAATTTTACTGTAGATAAGGCTATACCGCATATCTGTGTACAT
GGGTTTTTATGTACATGGGCAAGTATATCTGTGAGAGAAAAGTTTCTCAGGAGGAATTCTGGGCACAGCATGTG
TAAATTTCTAAATATGATGGACACCCCAAGCTTCCACCTCAAGGAGGTTGGTCCCATGACATTTCCCACACCT
TCACCCAGGCTGTGCCCTTAACTTGGTTATTTGTCAATGTGAGAAGTGGAATAGTATTTAATTGTAGTTTGG
ATTTGTATTTCTATTGGGTTGTATACTTACTGATTAATAATAAGAGCTCTTTACATATTAAGGAAATTAACCCCTT
TTCAAATACATTCCATTTCTCACTAATCTTTAAGTTTTATTGTAATATTTTGCTCTTTAGTTTATATATATATG
TATATATATATATATGTATATATATATATATACATATATATATACATATATATATA

3771/5332
FIGURE 3292

ATGGTCCGCTGCGTCCGACTGGTGGAAGCAGGATCTGTGGTGAGATACCTCAGCACAAAGCATATGCAGGCCTGTG
GTAGACGCCGGAAGTAGGGCCCTTTGTCTCCAAGAATGGGCAGACTCTCAACAGGTGAAAGAAAAACAGTACTCC
AGCAGAGATGTCCAGAGAGCAGCCGCTCTCAACATCTACCGTATCCCACCGTCTAGCAGGAAGCCCGCTCTCTGT
CCAACTCCGCGGGACCGACTAGAGTACGACGAGGACCGACTAGAGCACATCGCCTACGTGCGCGCCCGGGAGCTG
CACACTCTTGAAGTGACCGGCCTGGAGACGGTTGCCAGAGCAAGCCACTACTTGCCTTTCTCTCTGTGGCTTCC
CCAGACAACACTCTTGACTCTCCCTTTCTTTGAAGGCCCATGTAGCATCCCTGGAGGGCCTCATCCCTGAAGAT
AAGGTTGTGCTTCTGGCAGGTTCTCCCTTACAGAAAGAAGCCAÇCCTGGGTCAGTGTGGGGTGGAAGCCCTGACA
ACCCTGGAAGTGGTTGGCCGCAGGCTAGGAGTGGTAAGAGTGCCAGGAACGGAGCGCGTTTGTGTCACACCATT
GCCATTGGTGCATCGAGCACACTCCCAGCTCCAGGATTATGGGAAGACCTTTTGGGGCTGGAACAGCGCGCAGT
GGCCACCGCCGCGGGTCTCCAGCCCCAGGAGCGCGGCCTCCTCCCGACTCTCTCCGATGCGGTCTCTGCCCTG
GGGACACGGCAGGAAGAAGGGACCTGGCTGGGGGACGTGGCCCCGGCGCGGGGAGGGGAGGCAGCGCGGGACT
CCCAGCGGCCCTGCGCGGGCCTTCTGAACAGCAGCAGCAGCTGGGAATGCAAAATGACATCCCTATGTTGTCC
CTGCCCTTTGTCCAGGGTGAGAGGGACCCCTTCTCGGTGGAGTTGACACAGACCTGCCTCTCTCTCATGTCTGTA
CTGGGACCCACAGTGCTACAGCTGGGCTGCCACAGCCAGGCCTTTCGGGAGGATCCACCAATAGGCTTCAGGGCC
CAGGGCCAAGGAGGGCGGCTCACGGCCCTCGCGTATCCCTGCGCGGCGCTCGCGAGCCGCCCTCCCCGGCGTT
TGTCCCTGA

3772/5332
FIGURE 3293

AGCCCCCCCATCCCCGCCCTCTCCCGCCCCCTCCCTTGTCGCCCGCCCCCTTCCCGCCCCAACTCAGGTTCTGCCCC
ACCCCGCCCCAATTCACGTCTCTGCTCCGCCCCGACGTAGGCCCGCCCCCTGGCCCCCGGGCCCCCGCCCCCGTCTGA
CGCAGGCCCCCGCCCCCTCTCCGCCCCGCCCGGGCTCGGGCGGGCGGAGGACCCGGAGCTAAGGCGCCCGAACCCG
CGGCGGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTTCCGTTTCGAGCTCATCCCGGAGC
CCCCAGAGGGCGGCCTGCCCGGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCTGTACAGAGG
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCCTGGG
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCTTGGTCAACGACTGCAGCCTCATCCACAACAATGTCTGCATGG
CCGCCGTGTTTCGTGGACCGAGCTGGCGAGTGGGAAGCTTGGGGGCTGGACTACATGTATTCCGGCCAGGGCAACG
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGGAGTTGGCTGACAGCAGTGGCA
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTGGGAAGTCTTCAATGGGCCCC
TACCTCGGGCAGCAGCCCTACGCAACCCTGGGAAGATCCCCAAAACGCTGGTGCCCCATTACTGTGAGCTGGTGG
GAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCCGCTTCTTGCGAGAACTGCCGGGCACCTGGTGGCTTCATGAGCA
ACCGCTTTGTAGAAACCAACCTCTTCTTGAGGAGATTAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCC
AGGAGCTGAGCAAGAGCCTGGACGCAATCCCTGAGGATTTCTGTGGCACAAGGTGCTGCCCCAGCTGCTGACCG
CCTTCGAGTTTCGGCAATGCTGGGGCCGTTGTCTCAGGCCCTCTTCAAGGTGGGCAAGTTCCTGAGCGCTGAGG
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCTCC
TGCAGCAGATGGAGCAGTTTCATCCAGTACCTTGACGAGCCAACAGTCAACACCCAGATCTTCCCCACGTCGTAC
ATGGCTTCTTGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAAGCTGA
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC
GCTGCAACACCACAGTCTGCCTGGGCAAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGTCTTACCT
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGACCCGTCCCGGGTGGCGGTGCTCCTGGGCTTTGCTGCCACCC
ACAACCTCTACTCAATGAACGACTGTGCCAGAAGATCCTGCCTGTGCTCTGCGGTCTACTGTAGATCCTGAGA
AATCCGTGCGAGACCAGGCCTTCAAGGCCATTTCGAGCTTCTGTCCAAATTGGAGTCTGTGTGCGAGGACCCGA
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGAGCTAGCTGGG
CAGGCTGGGCGTGACCGGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTTCGCACCCAACCACTGCCCCAACAG
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCCGAGTCTGTGCTGGCCC
AGCAGGACGACTGGAGCACCGGGGGCCAAAGTGAGCCGTGCTAGTCAGGTACAGCAACTCCGACCACAAATCCTCCA
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCAGAGTCCAGCGACAAGGGCG
ACCCCTTCGCTACCTGTCTGCACGTCCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGAGGACAACCTGGGAGG
GCCTCGAGACTGACAGTCGACAGGTCAAGGCTGAGCTGGCCCGGAAGAAGCGCAGGAGCGGCGGGGAGATGG
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTTATTGTACAAACCATGTGAGCCCCGGCCGGC
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATTCTATTTTAC

3773/5332
FIGURE 3294

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCTGACTACT
CCTGCCACTGCAACCCCGGCTACCGGTACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCGAGGCAG
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACCGGGGCTCCTACAATTGCCACTGCAACCGCGGCTACC
GCCTGCACGTGGGCGCCGGGGGCGCTCGTGCCTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGGCAGC
GCGGCTTCTGCATCAACTTTCCCGGTCACTACAAGTGCAACTGCTACCCCGGCTACCGGCTCAAAGCCTCCCGGC
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAAGCCCG
GGAGCTTCAAGTGCATCGCCTGTCAGCCTGGCTACCGCAGCCAGGGGGGCGGGGCTGTGCGGACGTGAACGAGT
GCGCCGAGGGCAGCCCCCTGCTCGCCTGGCTGGTGCGAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCCAGG
GCTACGCGCCCCGCGCCCGACGGCCGAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG
GCATCTGCAGCAACACGCCAGGATCTTTCCAGTGTGAGTGCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT
ACAGATGTCTTTGCCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG
ACCCGAGCCTGTGCCTTCCCATGGGGCCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATGAGGGCT
TCACTCCCACCCAGGACACGACGGTTGTGAGGAGGTGGAGCAGCCCCACCACAAGAAGGAGTGTCTACCTGAACT
TCGATGACACAGTGTCTGCGACAGCGTATTGGCCACCAACGTGACCCAGCAGGAGTGTCTGCTCTCTGGGGG
CCGGCTGGGGCGACCACTGCGAAAATCTACCCCTGCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCCAG
ACGGAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGACGAGTGCA
TGTGTTCGGGTGCGGAGATTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCTGGCTACGAGTGTCTACTGCAAGC
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCTGGACGAGTCCAATGCGGGA
ACGGAGTGTGTGAGAACACGCGCGGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGC
GCCAGTGCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTGCGCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC
TCCCCGAGAGCCCGGCCGAGCGTGCCCCGAGCGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGACGGCATGT
GCGCTGGCCCCCTGGCCGGGCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCCC
AATGCCGACCGTGCCCGCGCGCGCGGGGTCCATTGCCCGACATCGCAGAGCGAGAGCAATTCTTCTGGG
ACACAAGCCCCCTGCTGTTGGGGAAGCCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTACAGACGAGTGTGCT
GCGTGAGTGGCCGCTGCGTGCCGCGGGCGGGCGGCCGTGTGCGAGTGTCCCGGCGGCTTCCAGCTCGACGCCT
CCCGCGCCCGCTGCGTGGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCCGCACGGGGCTGCG
TTCCCCAGCGCCGCGCTGACGCGCCGACGCCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCGCG
AGCTCGGCCTCACTTCTGCCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCTCCCGGCGCC
TTGAGACCCGAGGCGCCCTACCGGCCCCCTCCCGGTTAGCGGGCGGTGTAAAGTCTCCGCGGGCGCTGCC
TGCTTCCCTCCAGAGGGTGTTCCTAGAACTGATAAATCAGATCGTGCCTCTTTACCTTGGCTTTCG

3774/5332
FIGURE 3295

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCGCCACCTCCAGGCCACTATGGCGCCTGGGCTGCCCAGGAGCTTC
AGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTACA
CCCCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCCA
TGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCAC
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCCTATGGCCCCACCACCAAATTTGGGGCCCCCGCCTCCTC
TCCGTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTGA
TGCAGCAGGAGGAGCGTGCCAAGCAGCAGGAGATCATTGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAGC
GGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCAC
AAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGCCCAGTGGGCCCCA
CTCCTACAGTTTTGCCCATGGGAGCCCCGTGTTCCCGGCCCTCGTGGTCCCCCACCGCCCCCTGGAGATGAGAACA
GAGAGATGGATGACCCCTCTGTGGGCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGCC
GCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAACAGATGCTCGCTCGTCCCTGGGCCAGTCAG
CGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAGA
AGAAAAAGCCCCAGCGGGTGCGAGGGGTGTCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCCC
GTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAACT
TTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAGGAGCCAG
AGAAACTTGACAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAGGACAGTGATG
ATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATGA
ACCGCTTCACTGTGGCTGAACTCAAGCAGCTGGTGGCTCGGCCCGATGTGCTGGAGATGCACGATGTGACAGCGC
AGGACCCTAAGCTCTTGGTTACCTCAAGGCCACTCGGAACCTGTGCTGTGCCACGCCACTGGTGTTTTAAGC
GCAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGCA
TCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTTC
GGCCTAAGATGGGCAAAATTGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCAA
AGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTTCAGACACGACTGAAGGAGAAGAAGCCAGGAG
ATCTGTCTGATGAGCTAAGGATTTCTTTGGGGATGCCAGTAGGACCAAATGCCACAAAGGTCCCTCCCCATGGC
TGATTGCCATGCAGCGATATGGACCACCCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACTCGCCCCATCC
CTGAGAGCTGTTTCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGTCT
ATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCTT
GGGGGGAAGTGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGAAGACAAACCAG
ATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGCTGGAA
TGGAGACCCCTGAACTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAGC
TCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGACA
TGTCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAGT
TGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAGG
AGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAACGGAAAGCTCAGCCCCAGGACA
GCCGTGGGGCAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTACG
TCTGGATGCCTGGGCTTACACAAGAACCACCTCTCCCGAGTTCCCAAGGACTTGTCAATTCATGTTCTTATTT
TAGACCTGTTTTGTAAATAAAGCTGTTTCCCAAGGAAAGAGATG

3775/5332
FIGURE 3296

GGAGTTTCGCCGCCGCGAGTCTTCGCCACCAATGCCGCCCTACACCGTGGTCTATTTCCCAGTTCGAGGCCGCTGCG
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGG
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCCAGGACGGAGACCTCACCCCTGTACCAGT
CCAATACCATCCTGCGTCACCTGGGCCGCACCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA
AGGATGACTATGTGAAGGCACTGCCCCGGGCAACTGAAGCCTTTTGAGACCCTGCTGTCCCAGAACCAGGGAGGCA
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC
TAGCCCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGTGCCCCGGCCCAAGCTCA
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGTTGGGGGGAC
TCTGAGCGGGAGGCAGAGTTGCCTTCCTTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

3776/5332
FIGURE 3297

GCGTGACGTCTTTCTGCGGCCACCTAGCGTCTCTATCGCGCCAGTTCCCTCAGCCTCAGTGCTATGAAGGTGAC
AGCGTGAGGTGACCCATCTGGCCCGCCGCGATGCTGGCAACACGGCGGCTGCTCGGCTGGTTCGCTTCCCGCGCGG
GTATCTGTGCGTTTCAGCGGCGACACGACAGCACCCAAAGAAAACCTCATTGGCTCGCTGAAGGATGAAGACCGG
ATTTTCACCAACCTGTACGGCCGCCATGACTGGAGGCTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACA
AAGGAGATCCTGCTGAAGGGGCCCCGACTGGATCCTGGGCGAGATCAAGACATCGGGTTTGAGGGGCGGTGGAGGC
GCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATGAATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTG
AACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGACCGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAA
GGCTGCCTGGTGGGGGCGGGCCATGGGCGCCCGCGCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAG
GCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTATGAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGC
TATGATTTTGACGTGTTTGTGGTGC GCGGGGCTGGGGCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCC
ATTGAGGGCAAGCAGGGCAAGCCCCGCTGAAGCCCCCTTCCCCGCAGACGTGGGAGTGTTTGGCTGCCCCACA
ACTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCCACAATCTGCCGCCGTGGAGGTACCTGGTTTGCTGGCTTT
GGCAGAGAACGCAACTCAGGCACCAAATATTCAACATCTCTGGCCATGTCAACCACCCTTGCACTGTGGAGGAG
GAGATGTCTGTGCCCTTGAAAGAACTGATTGAGAAGCATGCTGGGGGTGTACGGGCGGCTGGGACAACCTCCTT
GCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATCCCCAAGTCTGTGTGTGAGACGGTGCTGATGGACTTCGAT
GCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCTGCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAA
GCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAGAGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGAC
TGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGGGATGCCCGGCCGCCGAGATCGACTCCCTGTGGGAGATC
AGCAAGCAGATAGAAGGCCATACGATTTGTGCTCTGGGTGACGGGGCCGCTGGCCTGTGCAGGGTCTGATCCGC
CACTTTGCGCCGGAGCTCGAGGAGCGGATGCAGCGTTTGCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTAG

CCCACCACCTGGCCTGCTGTCTGCTCTATCCATGTGGAATGCTGGACAATAAAGCGAGTGCTGCCCACCCTC
C

3777/5332
FIGURE 3298

GTCAAAGCCCTGCGTCCTTCGGCCCCCAGAGCGGAGAAGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTG
CGACAGCAACCCCTGCTGGGCCGAACTGGGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGG
GTAGCGCCCGCGCCCGGGAAGACCCCTCGGCGCGAACCAGGCAGCCAGCCCGGGTCCCGGTTCCCAAGGCCCCG
CCTCTAGGGCCTGGGGACTAATCGGATTGAGAGCGCGCCGGCCCGGCGCGAAGTTCGCAATTGCGGAGGGCGG
TGGCCACCGCCAATCCGGAGCAGACAGGTGCGAGGTCCGGAAGCGGAGGCCAATCGGCGCGGGTTGCGACCTG
CTGGGGCAGGTCTCGGCCAATAAGGAGGCTCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTCTG
GCCCCGCTCGCCCTTCGGGCCAGACCTCTATTTACCAGGGGCGTGACGCCCGCTTGCCAAATCAGAGCGCGGCTGAG
CGGCCCCCGCAGCCAACCCCGAGGAGCGGCCGGCTGGCGTCCGCGCGCCAGGAGTTGGGGATGTCCTACAAAC
CCATCGCCCCCTGCTCCCAGCAGCACCCCTGGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGTGAGG
ATCCAGCTCCACCCCTGCTCGCCTGCCGGGCGGTGCGAGGTCTCGAAGAGAAGACGGCCTGAGTTCTGCAATACTG
GGCCTGCCGCCTACCCTCGCTGAGCCTCAGTTTGCTGGCCTGTGAAGTGGGCGTGGTCACGTAAGGGCTTGTAGG
TGGAGCGCAGTGGGAGGGATTTGTCCCTGAAGTTGATCAGCATGGAATGAAGCATCCTTTGGAGGGAATCGGGCG
AACCCGGTCTTGGGCTTGGAAAAGCTGGGAGGCGGCGTCCCTGCCCCGCGCTGACCTCTTACTCGCGCCTGTTGC
TGCAGGAAGCGTCCCGTCGCCGTCGGGCTCAGTGCCAGGAGCCGGCGCTCCTTTTCAGACCGCTGTTTAACTGACTT
TGGACCGCCTTCCATGGGCTACGTGCAGGCGATGAAGCCACCCGGCGCCAGGGCTCCCAGAGCACCTACACGGA
CCTGCTGTCTAGTCATAGAGGAGATGGGCAAAGAGATCCGGCCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCG
CCTGAAGAGAGGTATCATCCATGCCCGGGCCCTAGTCAGAGAGTGCTGGCAGAGACAGAGCGGAACGCCCGCAC
GTAAACAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCCGGCCACTGCAGAGCAACCGCTTCTCCCTGGCCTTC
ATCCCGAGTTGCACTAACCATCCTGGGCTTCCTGTCTGTGTCCCTTGGTGGGTCCCTCCAGGAACCAAGGAGT
GGCCCTCCAGGTGGCAGCACTAAGGACACCCCCCACAACAAGAGTTAGCAGCGAGGTCCCATGAGTCCCACCC
ATGACCTGCCGACAGTGTTGCCACCGGAACCTTTGTGGCCCTACCGCTCAGCCCTTCCCAGCACTTCTCCCAC
TTTGTCCCGAGCCTCCTTCTCCCCCAGCAGGGGCACAGGCCTGGCACCTCCCTGCCTTGTGTCTGAGCCATAGT
GACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTTTTATATTAATAAAAGATGATTGGAGTTGTGCTCT
C

3778/5332
FIGURE 3299

CGCGGGCGGGTGTCTAGGCTCGCCTCTGCCTCCCTCGTGGCGGGCCCGGACATGGGGTCCCGTGGCCTGAGTCC
CTCGGCCGCGCGCAGGGCTCGGGCCGCGCGCAGCCTCCCCGCACTGACTGTGCGCCGTGCCCTGCGCCAGGAG
GAGCGGAGGCCGCGCGCCCGCCGAGCGCCTTCAGGATGCTCATCAAGGAATACCACATTCTGCTGCCATGAGCC
TGGACGAGTACCAGGTGGCCAGCTCTACATGATCCAGAAAAAGAGCCGGGAGGAGTCTAGTGGTGAGGGCAGCG
GCGTGGAGATCCTGGCCAACCGGCCCTACACGGATGGGCCCGGGGGCAGCGGGCAATACACACACAAGGTGTACC
ACGTGGGCTCCACATCCAGGCTGGTTCCGGCACTGCTGCCCAAGGCTGCCCTGCAGGTAGAAGAGGAATCCTG
GAATGCCTACCCCTACACCCGAACCCGGTACACCTGCCCTTTTCGTGGAGAAATTCTCCATTGAAATTGAGACCTA
TTACCTGCCTGATGGGGGGCAGCAGCCAAACGTTCTTCAACCTGAGCGGGGCCGAGAGGAGACAGCGCATCCTGGA
CACCATCGACATCGTGCGGGATGCAGTGGCCCCAGGCGAGTACAAAGCAGAAGAGGACCCCCGGCTTTATCACTC
GGTCAAGACGGGCCGAGGGCCACTGTCTGATGACTGGGCACGGACGGCGGCACAGACGGGGCCCCCTTATGTGTGC
CTATAAGCTGTGCAAGGTTGAGTTCGGCTACTGGGGCATGCAAGCCAAGATCGAGCAGTTTCATCCATGATGTAGG
TACTGCGTGGGTGATGCTGCGGCCACCGCCAGGCTGGTGTGCGCAGGATGAGTGGACAGAGCTGAGCATGGC
TGACATCCGGGCACTGGAAGAGGAGACTGCTCGCATGCTGGCCAGCGCATGGCCAAGTGAACACAGGCAGTGA
GGGTCCGAGCCAGCCCCCGGGAACCGAGCACCGAGGCCGGTCTGCGGCAGCAACACTGGCACCCCCGATGG
GCCTGAGCCCCCAGGCCAGATGCCCTCCCCGATGCCAGCTTTGGGAAGCAGTGGTCCTCATCTCCTCCGTTCC
TCTACTCATCCCAACATGGAGGGGCTGTGTCTCCCCAGAGCTTGTCTGAGTGGCGCATGCAGAACATTGCCCGA
GACTCTGAGAACAGCTCCGAGGAAGAGTTCTTTGATGCCACGAAGGCTTCTCGGACAGTGAGGAGGTCTTCCCC
AAGGAGATGACCAAGTGGAACTCCAATGACTTCATTGATGCCTTTGCCTCCCCAGTGGAGGCAGAGGGAACGCCA
GAGCCTGGAGCCGAGGCAGCTAAAGGCATTGAGGATGGGGCCCAAGCACCCAGGGACTCAGAGGGCCTGGATGGA
GCCGGGGAGCTGGGGGCTGAGGCATGCGCAGTCCACGCCCTCTTCTTATCCTGCACAGCGGCAACATCCTGGAC
TCAGGCCCTGGAGACGCCAACTCCAAGCAGGCGGATGTGCAGACGCTGAGCTCCGCCTTCGAGGCCGTCACCCGC
ATCCACTTCCCTGAGGCCCTTGGGCCACGTGGCGCTGCGACTGGTGCCTGTCCACCCATCTGCGCCGCCGCTAT
GCCCTTGTCTCCAACCTGAGCCCTTACAGCCACGATGGGGACAGCCTGTCTCGCTCCCAAGACCACATTCCACTG
GCTGCCCTGCCACTGTGCCCACCTCATCTCCCGCTACCAGGGCGCCGTGGCCACCGTCATTGCCCGCACCAAC
CAGGCCTACTCAGCCTTCTGCGCTCACCTGAGGGTGCCGGCTTCTGTGGGCAGGTGCGACTGATTGGAGATGGT
GTTGGTGGCATCCTGGGCTTTGATGCACTCTGCCACAGTGCTAACGCGGGCACCGGGAGTCGGGGCAGCAGCCGC
CGTGGGAGCATGAACAATGAGCTGCTCTCTCCGGAGTTTGGCCAGTGCGGGACCCCCCTGGCAGATGGTGTGGAA
GGCCTGGGTGCGGGCAGCCAGAACCTTCGGCCTTGCCCTCCCCAGCGCATCCCCAGCGACATGGCCAGTCTGAG
CCCAGGGCTCTCAGAACAGCCTTCAGGCAGCCCCCGCAACCACCTCCTCCTGGGAGCCCCGGCGGGCAAGCAG
GCCTTCTGCCCACCCGCTGCCAGTTCGAGGCACCTGACGGCCCCAGCAGCACTGCCCGCCTTGACTTCAAGGTC
TCTGGCTTCTTCTCTTGGCTCCCCACTGGGCTGGTGTGCTGCTGCGCAAACTGTGATGCCCCGCTGGAG
GCAGCCCAGATGCGCCAGCCTGTGAACAGATCTACAACCTCTTCCACGCGGCTGACCCCTGCGCCTCACGCCTC
GAGCCCCGTCTGGCCCCGAAGTTCAGGCCATCGCCCCACTGACCGTGCCCCGCTACCAGAAGTTCCCCCTGGGA
GATGGCTCATCCCTGCTGCTGGCCGACACTCTGCAGACGCACTCCAGCCTCTTTCTGGAGGAGCTGGAGATGCTG
GTGCCCTCAACACCCACCTCTACTAGCGGTGCCCTTCTGGAAGGGCAGTGAGTTGGCCACTGACCCCCCGGCCAG
CCAGCCGCCCCAGCACCCAGTGAAGTGGTTAAGATCCTGGAGCGCTGGTGGGGACCAAGCGGATCGACTAC
TCGCTGTACTGCCCCGAGGCGCTACCGCCTTTCCACCGCTACGCTGCCCCACCTCTTCCACGCCAGCTACTGG
GAGTCCGCGCAGCTGGTGGCGTTTCATCTGCGCCAGGTGATCGAGAAGGAGCAGGCCACAGCTGGCGGAATGCGA
GGAGCCGTCCATCTACAGCCCGCCTTCCCCAGGCAGAAGTGGCAGCGAAAACGCACGCAGGTCAAGATCCGGGT
AGAAGTGAACATCGTGGCCGTTATGGGTCTCCCAAAGATGTGGCTGTATACGCGGCGCTGGGGCTGTCCCCGAG
CCAGACCTACATCGTGGGCCGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCTGTGACAGCGCTATGTGGC
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCCGAGAGCTGCCTTGGGCAAGAG
CAGCTATGGTGTGGCTGCCCCCGTGGACTTCTGCGCAAAACAGAGCCAGCTGCTTTCGCTCGAGGGGCCCCAGCCA
GGCGGAGCGTGAAGGGCCCCGGGAACACCACCCACCACCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT
GGACAGCGAGGAGTGAGGCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGCCCCGAGGGGCT
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCCAGCCCCACACCTATATCTCCGTG
TGCTCCTCGGTGTTACTTCCCTTTTATATGAGGGGACCCAGCGCCGGGGGAGGGAGGAGGGCGTGGGCATGGC
CGAGAGGCTTTTCCAGTGTGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

3779/5332
FIGURE 3300

AGGCCACGTTCCACTACCGGACGCTGCACAGTGACGACGAGGGCACCGTGCTGGACGACAGCCGGGCTCGTGGCA
AGCCCATGGAGCTCATCATTGGCAAGAAGTTCAAGCTGCCTGTGTGGGAGACCATCGTGTGCACCATGCGAGAAG
GGGAGATTGCCAGTTCTCTGTGACATCAAGCATGTGGTCTGTACCCGCTGGTGGCCAAGAGTCTCCGCAACA
TCGCGGTGGGCAAGGACCCCTGGAGGGCCAGCGGCACTGCTGCGGTGTTGCACAGATGCGTGAACACAGCTCCC
TGGGCCATGCTGACCTGGACGCCCTGCAGCAGAACCCCCAGCCCCTCATCTCCACATGGAGATGCTGAAGGTGG
AGAGCCCTGGCACGTACCAGCAGGACCCATGGGCCATGACAGACGAAGAGAAGGCAAAGGCAGTGCCACTTATCC
ACCAGGAGGGCAACCGGTTGTACCGCGAGGGGCATGTGAAGGAGGCTGCTGCCAAGTACTACGATGCCATTGCCT
GCCTCAAGAACCTGCAGATGAAGGAACAGCCTGGGTCCCCTGAATGGATCCAGCTGGACAAGCAGATCACGCCGC
TGCTGCTCAACTACTGCCAGTGCAAGCTGGTGGTCGAGGAGTACTACGAGGTGCTGGACCACCTAGCTCTTCCAT
CCTCAACAAGTACGACGACAACGTCAAGGCCTACTTCAAGCGGGGCAAGGCCACGCGGCCGTGTGGAATGCCCA
GGAGGCCCAGGCTGACTTTGCCAAAGTGCTGGAGCTGGACCCAGCCCTGGCGCCTGTGGTTGAGCCGAGAGCTGCT
GGGCCCTGGAGGCACGGATCCGGCAGAAGGACGAAGAGGACAAAGCCCGTTCCGGGGGATCTTCTCCCATTGAC
AGGAGCACTTGGCCCTGCCTTACCTGCCAAGCCCACTGCTGCAGCTGCCAGCCCCCTGCCCGTGCTGCGTCATG
CTTCTGTGTATATAAAGGCCTTTATTTATCTCTC

3780/5332
FIGURE 3301

GACTCCGGGGCGACCGCCGCGAGTCCGCAGTAGTTCGGGGCCATGGAGGCGGAGCCGCCGCTCTACCCGATGGCGG
GGGCTGCGGGGCGCAGGGCGACGAGGACCTGCTCGGGGTCCCGGACGGGCCCCGAGGCCCGCTGGACGAGCTGG
TGGGCGCGTACCCCACTACAACGAGGAGGAGGAGGAGCGCCGCTACTACCGCCGCAAGCGCCTGGGCGTGCTCA
AGAACGTGCTGGCTGCCAGCGCCGGGGGCATGCTCACCTACGGCGTCTACCTGGGCCTCCTGCAGATGCAGCTGA
TCCTGCACTACGACGAGACCTACCGCGAGGTGAAGTATGGCAACATGGGGCTGCCCGACATCGACAGCAAAATGC
TGATGGGCATCAACGTGACTCCCATCGCCGCCCTGCTCTACACACCTGTGCTCATCAGGTTTTTTTGAACGAAGT
GGATGATGTTTCTCGCTGTGGGCATCTACGCCCTCTTTGTCTCCACCACTACTGGGAGCGCTACTACACGCTTG
TGCCCTCGGCTGTGGCCCTGGGCATGGCCATCGTGCCCTCTTTGGGCTTCCATGGGCAACTACATCACCAGGATGG
CGCAGAAGTACCATGAGTACTCCCACTACAAGGAGCAGGATGGGCAGGGGATGAAGCAGCGGCCCTCCGCGGGGCT
CCCACGCGCCCTATCTCCTGGTCTTCCAAGCCATCTTCTACAGCTTCTTCCATCTGAGCTTCGCTGCGCCAGC
TGCCCATGATTTATTTCTGAACCACTACCTGTATGACCTGAACCACACGCTGTACAATGTGCAGAGCTGCGGCA
CCAACAGCCACGGGATCCTCAGCGGCTTCAACAAGACGGTCTGCGGACGCTCCCGCGAGCGGAAACCTCATTG
TGGTGGAGAGCGTGCTCATGGCAGTGGCTTCTTGCCATGCTGCTGGTGTGGGTTTGTGCGGAGCCGCTTACCG
GCCACGGAGGAGATCGATCTGCGCAGCGTGGGCTGGGGCAACATCTTCCAGCTGCCCTTCAAGCACGTGCGTGA
CTACCGCCTGCGCCACCTCGTGCCCTTTCTTTATCTACAGCGGCTTCGAGGTGCTCTTTGCCTGCACTGGTATCGC
CTTGGGCTATGGCGTGTGCTCGGTGGGGCTGGAGCGGCTGGCTTACCTCCTCGTGGCTTACAGCCTGGGCGCCTC
AGCCGCTCACTCCTGGGCCTGCTGGGCCTGTGGCTGCCACGCCCGGTGCCCTGGTGGCCGGAGCAGGGGTGCA
CCTGTGCTCACCTTCATCCTCTTTTTCTGGGCCCCGTGTCCTCGGGTCTGCAACACAGCTGGATCCTCTATGT
GGCAGCTGCCCTTTGGGGTGTGGGCAGTGCCCTGAAACAAGACTGGACTCAGCACACTCCTGGGAATCTTGACGA
AGACAAGGAGAGACAGGACTTCATCTTACCATCTACCACTGGTGGCAGGCTGTGGCCATCTTACCGTGTACCT
GGGCTCGAGCCTGCACATGAAGGCTAAGCTGGCGGTGCTGCTGGTACGCTGGTGGCGGCCGCGGTCTCCTACCT
GCGGATGGAGCAGAAGCTGCGCCGGGGCGTGGCCCCGCGCCAGCCCCGCATCCCGCGGCCCCAGCACAGGTGCG
CGGTTACCGCTACTTGGAGGAGGACAACCTCGGACGAGAGCGACGCGGAGGGCGAGCATGGGGACGGCGCGGAGGA
GGAGGCGCCGCCCGCAGGGCCAGGCCTGGCCCCGAGCCCCGCTGGACTCGGCCGCCGGCCCTGCCCGTACGAACA
GGCGCAGGGGGGAGACGGGCCGGAGGAGCAGTGAGGGGCCGCTGGTCCCCGGACTCAGCCTCCCTCCTCGCCGG
CCTCAGTTTACCACGTCTGAGGTGCGGGGGGACCCCTCCGAGTCCCGCGCTGTCTTCAAAGGCCCTGTCTCCCC
TCCCCACGTTGGGGACGCCCTCCAGAGCCAGGTACCTCCGGGCTTCCGACGCCCCCTCCAAGGCGGAGTG
GAGCCTTGGGAACCCCTCGGCCAAGCACAGGGGTTGAAAATACAGCTGAAACCCCGCGGGCCCTTAGCACGCGC
CCCAGCGCCGGAGCACGGTCAGGGTCTTCTTGCGACCCGCGCCGCTCCAGATCCCCACAGCTCTCGGCCGCGGAC
CCGGGCCGCGTGTGAGCGCACTTGCACCTCCTATCCCCAGGGTCCGCCGAGAGCCACGATTTTTTACAGAAAAT
GAGCAATAAAGAGATTTTGTACTGTC

3781/5332
FIGURE 3302

[illegible]

3782/5332
FIGURE 3303

CCCGCTGGCCCAATGGCAGCGTCCTACAGTGTAGCCTCCGCCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGT
AGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTGCACGTGCAG
GACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCCG
AGATGGACATGAAGTCAGTGACTGACCGGGCAGCCCGCACCCCTGCTGTGGACTGAGCTCTTCCGAGGCCTGGGCA
TGACCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTGAGAAGGGCCCGCTGAGCCCTCGCT
TCCGTGGGGAGCATGCGCTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCA
TCTGCCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCGGACCACCCGCTATGACA
TCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGGATGCCATCGTCGAGGGCCCCA
ACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGT
GGGAGGCCGAGATCGCCGCAACATCCAGGCTGACTACTTGTATCGGTGACGCCCCACCGGCCCGCAGCCCCCTGC
TGCCCAATAAAACCACTCCGACCCACGG

3783/5332
FIGURE 3304

GCGGCGCCTAGTCCCGGGCTGGCGGGAGTGAGTTCTGAGTCCCGCCCGGCGTGCGCGGAGCGGGGAGCCAGCA
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACCATGGGCTCCATGTTCCGGAGCGAGGAGGTGGCCCTGGTCCAG
CTCTTTCTGCCACAGCGGCTGCCTACACCTGCGTGAGTGGCTGGGCGAGCTGGGCCTCGTGAGTTTCAGAGAC
CTCAACGCCCTCGGTGAGCGCCTTCCAGAGACGCTTTGTGGTTGATGTTTCGGCGCTGTGAGGAGCTGGAGAAGACC
TTCACCTTCCTGCAAGGAGGAGGTGCGGCGGGCTGGGCTGGTCTGCCCGCCGCAAAGGGGAGGCTGCCGGCACCC
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCTGGCCGAGGAGCTGCGGGATGTGCGGGGCAAC
CAGCAGGCCCTGCGGGCCGAGCTGCACAGCTGCAGCTCCACGCCGCCGTGCTACGCCAGGGCCATGAACCTCAG
CTGGCAGCCGCCACACAGATGGGGCCTCAGAGAGGACGCCCTGCTCCAGGCCCCGGGGGGCCGACACAGGAC
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCCTGCTCTGGAGGGCC
TGCCGCGGCTTCCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGCCAGCC
ACGTGGATGACCTTCCTCATCTCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACTGCTTC
CACTGCCACGTCTTCCGTTTCTGCAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC
CAGGAGCTGCAGAGTCCCTCGGGGAGACAGAGCGGTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG
CCGCCAGGGCAGGTGCGAGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACAGTGACGCTGAGCACCACG
CACAAGTGCCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCCCCACACTCATCCGCACC
AACCCTTCACGGCCAGCTTCAGGGCATCGTGGATGCTACGGCGTGGGGCCGCTACCAGGAGGTCAACCCGCT
CCCTACACCATCATACCTTCCCCCTTCTGTTTGTGTGATGTTTCGGGGATGTGGGCCACGGGCTGCTCATGTTT
CTGTTGCGCCCTGGCCATGGTCTTGGCGAGAACCACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT
TTCTTCAGGGGCCGCTACCTGCTCCTGCTTATGGGCTGTCTCCATCTACACCGGCTTCATCTACAACGAGTGC
TTCAGTCGCGCCACCAGCATCTCCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACAGTCTGGCTGGAGTGAT
GCATTCTTGGCCCAGCACACGATGCTTACCCTGGATCCCAACGTACCGGTGTCTTCTTGGGACCCTACCCCTTT
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCACTTGAGCTTCCTCAACTCCTTCAAGATGAAGATGCCGTC
ATCCTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGAGGCAC
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCCTGCTGGGACTCTTCGGTTACCTCGTGTTTCTAGTCATC
TACAAGTGGCTGTGTGCTGGGCTGCCAGGGCCGCTCGGCCCCCAGCATCCTCATCCACTTCATCAACATGTTT
CTCTTCTCCACAGCCCCAGCAACAGGCTGCTCTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGGTCTG
GCCTTGGCCATGGTGCCATCCTGCTGCTTGGCACACCCTGCACCTGCTGCACCGCCACCGCCGCCGCTGCGG
AGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGTGTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG
AGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCCTCCGAGGTGCTCATG
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC
CTGAGCCTGGCCCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGGGCCGG
GAGGTGGGCGTGGCGGCTGTGGTCTGGTCCCCATCTTTGCCGCCCTTTGCCGTGATGACCGTGGCTATCCTGCTG
GTGATGGAGGGACTCTCAGCCTTCTGACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAGTTCTACTCA
GGCACGGGCTACAAGCTGAGTCCCTTCACTTCGCTGCCACAGATGACTAGGGCCCACTGCAGGTCTGCCAGAC
CTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGC

3784/5332
FIGURE 3305

GAGGTCCTGTAATAAAGAGGGATCCGAACAAGCTCAGAAAGAAAATGAATTTCAAGGGGCTGAGGCCATGGTTCT
GGAGAGCGTTATGTTTGCCATTCTCGCAGAGAGGTCACTTGGGCCAAAACCTCTATGGCATCTTTCCCCAAGGCCG
ACTGGAGCAGTTTCATCCCGAGCCGGCGATTAGATACTGAAGAATTAAGTTTGCCAGATATTTCTGCAGAAATCGC
CGAGAAAATGGCTACATTTTCATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTTGGCACAATGGA
AAAGTATCTAAAGGAAGTGCTGAGAATTAAATTTACTGAGGAATCCAGAATTAAGAAAGCTCCACAAATTGCTCAG
TTACAATCTGCCCTTGGAACCTGGAACCTGAGATCATTGCTTGAATCTACTCCATCTCCAGTTGTATTTTGTCA
TAATGACTGTCAAGAAGGTAATATCTTGTGTGCTGGAAGGCCGAGAGAATTCTGAAAAACAGAACTGATGCTCAT
TGATTTTCAATACAGCAGTTACAATTACAGGGGATTGACATTGGAATCACTTCTGTGAGTGGATGTATGATTA
TAGCTATGAAAAATACCCCTTTTTTTCAGAGCAAACATCCGGAAGTATCCCAAGAAACAACAGCTCCATTTTAT
TTCCAGTTACTTGCTGCATTCCAAAATGACTTTGAAAACCTCAGTACTGAAGAAAAATCCATTATAAAGAAAGA
AATGTTGCTTGAAGTTAATAGGTTTGCCCTTGTCATCTCATTTCTCTGGGGACTGTGGTCCATTGTACAAGCCAA
GATTTTCATCTATTGAATTTGGGTACATGGACTACGCCCAAGCAAGGTTTGATGCCTATTTCCACCAGAAGAGGAA
GCTTGGGGTGTGACTGTGGGGAGGACTCCATCCACCTCATCACTGGACTGCATGGGGAGGCAGCAGAGCGGGGTC
CCCTCTGTGCTTCGACTACTGCTCCTGTGGCAGGAGGCTTTGGGTGGCTCACTACTGAACACATGTGTATGATAC
TAAAGACGGTATTAATAATGGAGCGACGTTTATTTTCATCTCTTGTTTACGATTTCACTAGGACTCAGAAACGAGAT
CGGGAAGCAGAAATATAGTGCAATAGTGCAACATCTGAAATCCTTTTAATCTAGAGAAGGCATTTTCATATTTGG
GGGCTAAGGTTTCCAGTCAGATGAGGCAACAGCAAGAGTAAGCAGTGTTACTTGCAGGTACTTTGGTTAATGTT
GATTTAAATTTTTCATGAATGTGCTGGTGAACACTGTGACCAGGCTTTTGTAGATGGCGATGTGTTATAGACGGTG
CTCACTCCCAAGGGACAGCAAGTGAGCAGAGATGTACTGCAAAGTCGCCAGTCACTGCTGCAAGGTGGCCTCTGC
CTGGGGCCTCCAGAAGCTGCTCCTTTACCCTCTTGGTCCCATGGCTGAAGCTGGAGCAGCGGATTGCTCTGGAGC
AGCCAAGGCCGCCAGCGTGTGGAGCAGAGCTCTCCCTCCTGCTGGGCGTGTGTGACACTGATGAGTTTCACTGT
ACTGCATGTGACTTCTCCCTGCCCTTCTCCTGATGGAGTGTGCAGACAGCCATGCGTGGCCACGGGGGCAGTG
TGAGGACCTCCCTGTCTCCCGGCTCCCTCCAGGGGAGCCAGCTGCTTGACCTAGCTCTTTGGGCCTCTCCTGC
CCTCTGCTCTGCCTGGAGTGTGCGATCCTGTGAGTAGGCTGGGCCTCCCTGGGCAGGGTTCTCCAAGGGCCCGG
TTTCCCGGCCCTTACCTTTCTGATGCCCTGACATCATCTTCTGTGGGAGACAGCAGCCTGTATGTGGTGTG
GGGCGTGGATCGAGTGTAGCTGTGAAATCCATATATATGAAATGTCC

3785/5332
FIGURE 3306

TGAAGAAGCCTGCAAAGCCTTTACTTTCAAAGATAAAATTGAGAAATCATTGCAAGCGGCTGGAGCAAAAGAATG
CTTCAAGAAACTCGAAATGGGAACTTAGTACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAATTTGCCCATTA
AAAAAGATAAGGAGCCAGAGGGACCAGCCCAAGCCGCAGTTGCCAGCGGGTGCTTGACTAGACACGCGGCGAGAG
AACACAGACAGAATCCTGTGAGAGGTGCTCATTTCGAGGGGGAGAGCTCGCCCTGCACCTACATAACTCGGCGGT
CAGTGAGGACAAGAACAAATCTGAAGGAGGCCTCTGACATCAAGCTTGAACCAAATACGTTGAATGGCTATAAAA
GCAGTGTGACGGAACCTTGCCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTGTGCTGCAGGAGGAAGAAGTGG
CTCATGAGACTGCACAAAAAGGGGAGGCAAAGTGTCTAAGAGTGACACAGGCATGTCCAAAAAGAAGTCACGAC
AAGGAAAACCTTGTGAAACAGTTTGCAAAAATAGAGGAATCTACTCCAGTGACGATTCTCCTGGAAAAGACGACG
CGGTACCAGATTTGATGGGTCCCCATTCTGACCAGGGTGAGCACAGTGGCACTGTGGGCGTGCCTGTGAGCTACA
CAGACTGTGCTCCTTCACCCGTCGGTTGTTTCAGTTGTGACATCAGATAGCTTCAAAACAAAAGACAGCTTTAGAA
CTGCAAAAAGTAAAAAGAAGAGGCGAATCACAAGGTATGATGCACAGTTAATCCTAGAAAATAACTCTGGGATTC
CCAAATTGACTCTTCGTAGGCGTCATGATAGCAGCAGCAAAACAAATGACCAAGAGAATGATGGAATGAACCTCTT
CCAAAAATAAGCATCAAGTTAAGCAAAGACCATGACAACGATAACAATCTCTATGTAGCAAAGCTTAATAATGGAT
TTAACTCAGGATCAGGCAGTAGTTCTACAAAATTAAAAATCCAGCTAAACGAGATGAGGAAAATAGGGGGTCTT
ATACAGAGGGGCTTCATGAAAATGGGGTGTGCTGCAGTGATCCTCTTCTCTCTTGGAGTCTCGAATGGAGGTGG
ATGACTATAGTCAGTATGAGGAAGAAAGTACAGATGATTCTCTCTCTCTGAGGGCGATGAAGAGGAGGATGACT
ATGATGATGACTTTGAAGACGATTTTATTCCTCTTCTCCAGCTAAGCGCTTGAGGTTAATAGTTGGAAAAGACT
CTATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTTTAAGGCTTAATGCCTAAGCTCTTGGTCTTA
ACTTGACCTGGGATAACTACTTTAAAGAAATAAAAAATTCAGTCAATTATTCCTCAACTGAAAGTTTAGTGGCA
GCACTTCTATTGTCCCTTCACTTATCAGCATACTATTGTAGAAAGGTACAGCATACTGACTCAATTCTTAAGTC
TGATTGTGCAATTTTTATCGTACTTTTTAAATAGCCTTCTTACGTGCAATTCTGAGTTAGAGGTAAAGCCCTG
TTGTAATAAAGGCTCAAGCAAAATTGTACAGTGATAGCAACTTTCCACACAGGACGTTGAAAACAGTAATGTG
GCTACACAGTTTTTTTTAACTGTAAGAGCATCAGCTGGCTCTTTAATATATGACTAAACAATAATTTAAACAAAT
CATAGTAGCAGCATATTAAGGGTTTCTAGTATGCTAATATCACCAGCAATGATCTTTGGCTTTTTGATTTATTTG
CTAGATGTTTCCCCCTTGGAGTTTGTGAGTTTCACACTGTTTGCTGGCCAGGTGTAAGTGTGTTGTTGCTTTGT
TAATATCGCAAACCATTTGGTTGGGAGTCAGATTGGTTTCTT

3786/5332
FIGURE 3307

CGCGGGGGGCGCGACGGCGGGCGGGCGGCCGGTTGGGGGCGGGGGGCTCGGACGCTGCGGGGACTCATTTTTCC
CGTCAGCGGAGGGAGCGAGCGGTGCTGCGGCCCGCGCCGATCTTGGATTTTACTCTCCATTTTCTCTGGAAT
TATTTTTGGTGATTAATTTTCTGGGGGGGACTGGGACGCGGGGGCCGGCGCGCGGCCCGCATCGCAGCGGCCG
GGCAGCGGGCCTGGGACGCGCCCCGAGGAGGAGCGGGGGCGGCGCAGGCGGAGAGAACATTGAAAGTATTCTCTA
AGCTATTTGAAGAGAGTGACTAAATGCACCTGGGTGAGGCTGTCTGTGGGTATGAAGTGGTTGGGAGAATCCAAG
AACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATGACCATCAGCAGAAATCAATCAAAATTACAG
CACACGGGAAGGACACCCTGAAGGCTGGCAAAATGCAGTCGAGAGGAGGTGCAACAGATGTAATGGTAACCTG
GGATTTGAAGGACAGAGTCGCTATGTACCATCCTCTGGAATGTCCGCCAAGGAACCTCTGTGAAAATGATGACCTA
GCAACCAGTTTGGTTCTTGATCCCTATTTAGGTTTTCAAACACACAAAATGAATACTAGCGCCTTTCCTTCGAGG
AGCTCAAGGCATTTTCAAATCTGACAGTTTTTCTCACAAACCCTGTGAGATTTAGGCCTATTAAAGGAAGG
CAGGAAGAACTAAAGGAAGTAATTGAACGTTTTAAGAAAGATGAACACTTGGAGAAAGCCTTCAAATGTTTGACT
TCAGGCGAATGGGCACGGCAGTATTTTCTCAACAAGATAAAATGCAGGAGAAATTATTCAAAGAACATGATTT
ATTTATTTGCGAATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAAT
GGAGCCAAAATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGGTGTATTGCCGAA
CTTTCAGAAATTGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTCTGTACTCCACAAGGAAA
AACTGTGCTCAACTCTGGCTGGGTCTGCTGCGTTTTATAAACCATGATTGCAGACCTAATTGTAAGTTTGTGTCA
ACTGGTCGAGATACAGCATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTTCTTGTTATTATGGA
GATGGGTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAGACGGGGCACTGGTGCTTTTAAA
TCCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGGACTCAGAGAAACAGATAAACGTTTA
AATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAATTCAGACAGTCAATCTGTGAGCTCTAACACTGATGCAGAT
ACCACTCAGGAAAAAACAATGCAAGTAAGTAAGGGAGATTTGATAAGCATATCTTTTAAAAGTATTTTACACA
ATTTGCTTTATAAAGTGTGCTTCAGTAGTTTTAAACTTTTAAATACTCAGAGAGACTGGGACTTGTGAGCTTTGG
CTGCACTTCAAGGCTCTAGACGTGATTTGAGTAGAGGCACAGTCTGTATCCCATCTCTAACTTCAGTACCGTCT
CTAGACTATTTTCTTGAATACCTTGGTAACTGGATATGAGTTCTTCATCATATGTTCCAAGGTCATCATATGTT
TTAAACATTTTCAAGGTGTTAGAGACTGTGATGATGTCGCTAAGTCCTGCAAGAAGACAAAAGGACTGAGTAGAA
TTAAATTAGACTCTATACATTCCAGTGCCTAGCCAGTTTGTAGAAAAGATGATGGACTTGGGGAATTCATAGCT
TCTGGCCTTAAGGCTTCCACCTTTTCAATTGCTTGCTGACCTTTTCAAACGAACCTGACTCAGTTCAGCAGACCA
CCAGTACCAGACTCAGAATTGTGATAGAGGAGCATTTTGAACAGTGCCTGATTGTGACATGCTGTATTGGCTACT
CCAGAAAGTAGGAGTAAAGATGGAAGGAGAAAGAAGCAACCTCTGAGATTCCAGTGGTGTGTGGGGGCAAGATC
TGATGGAAACTGAAAAAGAGAACGAAGACTAAACAAAGAGAAAGGAAAGAGAAGAAACCTAAATGGGCAAAGGA
AAGCACATCCTGTTTGCAGGAGCTTTGAAATATTGGAACCATTCTAATTGCTCCTGTTTTTCTGGGTAACACCAG
TTTTCTGTAGTTGCCACTAAAGCAGTAGACTCTTGAGTCTCACTTGCTCTGAGAGAGACAGAAAGTTAGAAAGTT
TTGACTTGGCGATTCCGAAAGTATGCCTTTGTTGGCATTAAATGTCCAGTGAGACTTCTTGGCACCTTAGAGCC
CTCTGAGATACTGATTATTTTAGGTTCTTCTCCCTACTTTTCAAGATGTTTTTCAAGCCAACTGGGTGCTCTCTC
CACTACAGAGAATCCTGAAGAAAAGGGAAGGTGTTCCCATGATGGTGAATGTCACTGCCATGAATTCCTGAATC
TACCTGCTGCTGGGAGTCAGAGTCCAAGCATAACCCGTGTAGCATAAAAGCAGCGCTGTAGCCCTATTCCAGTCT
TTTTCGTTAATGTCCAGAGTGAACAACAAGAGTTAGTCAATCATTAACTGTTGACTGTTGATTCTCATAATAAAT
GCAGCATAACGACC

3787/5332
FIGURE 3308

GCCTGGGTTGCGCTGCCGGCCACGTCCCCGCGCGGGCCTCAGGCTCCTTCTACTGTCCGAGGGCCACCAGGCC
GCCGGGGGCTGCTGCGCCCGGATGCGTCTGTTACTAGAGTGGAGAGTCTACCTTCGTCTCACATGTGCCACAAA
GGATGGCATGCGCCGGGAGTGCCCCACCACGTGGCTTTCACCCCTGCAAAGCCAGACTTCGCCCAGCGACACAG
TGTC AAGCCACAGCTCTCCAAGGAGGAAGATGGTCCAGGCTGGGAGCATCCCCTTAGCAGCAGCCTCTGATCCC
TTGGCCAAGCAGGAGGGAACCATTAGCAGCCTGAGGAGCTGGCTGGCTGGGAGCCTCGGGGACCGCCAGCCTTG
CTCCCAGCTCACCCACAAGATGTTGGACAGCTCTTGTGCTCATTGGATTTTCTCCTTGTCTTATCTGAAAGCCA
TGCGGCATCCAACGATCCACGCAACTTTGTCCCTAACAAAATGTGGAAGGGATTAGTCAAGAGGAATGCATCTGT
GGAAACAGTTGATAATAAAACGTCTGAGGATGTAACCATGGCAGCAGCTTCTCCTGTCACATTGACCAAAGGGAC
TTCGGCAGCCACCTCAACTCTATGGAAGTCACAACAGAGGACACAAGCAGGACAGATGTGAGTGAACCAGCAAC
TTCAGGAGGTGCAGCTGATGGTGTGACCTCCATTGCTCCCACGGCTGTGGCCTCCAGTACGACTGCGGCCTCCAT
TACGACTGCGGCCTCCAGTATGACTGTGGCCTCCAGTGCTCCCACGACTGCAGCCTCCAGTACAACCTGTGGCCTC
CATTGCTCCCACGACTACAGCCTCCAGTATGACTGCGGCCTCCAGCACTCCCATGACACTTGCACTCCCCGCGCC
CACGTCCACTTCCACAGGGCGGACCCCGTCCACTACCGCCACTGGGCATCCATCTCTCAGCACAGCCCTCGCACA
AGTGCCAAAGAGCAGCGCGTTGCCAAGAACAGCAACCTTGCCACATTGGCCACACGTGCTCAGACTGTAGCGAC
CACAGCAAACACAAGCAGCCCCATGAGCACTCGTCCAAGTCCTTCCAAGCACATGCCAGTGACACCGCGGCAAG
CCCTGTACCCCTATGCGTCCCCAAGCACAAGGTCCCATTAGCCAGGTGTCAGTGGACCAGCCTGTGGTTAACAC
AACAAATAAATCCACACCCATGCCCTCAAACACAACCCAGAGCCCGCCCCACCCCAAGTGGTGACCACCAC
CAAGGCACAAGCCAGGGAGCCAAGTCCAGCCCAGTGCCAGTACCTCACACCAGCCCAATCCCTGAGATGGAGGC
CATGTCCCCCACGACACAGCCAAGCCCCATGCCATATACCCAGAGGGCCGCTGGGCCAGGCACATCCAGGCACC
GGAGCAGGTAGAGACTGAAGCCACACCAGGTACTGATTCCACTGGGCCAACACCCAGGAGCTCAGGGGGCACTAA
GATGCCAGCCACGACTCGTGCCAGCCCAGCACCCAAGGCCAGTACATGGTGGTCACCACTGAGCCCCTCACCCA
GGCCGTGGTAGACAAAATCTCCTTCTGGTGGTGTGTTACTCGGGGTGACCCTTTTCATCACAGTCTTGGTTTT
GTTTGGCCTGCAGGCCTATGAGAGCTACAAGAAGAAGGACTACACCCAGGTGGACTACTTAATCAACGGGATGTA
TGCGGACTCAGAAATGTGAGGGGGCGGGGCCTGGCGGGAGGCCTGGCCCCCTTCTCGTCTTTCTTTTGCCT
TTGAGACCAAACCAAGTGCTTCCAAATTCTTTTGGTGCAATTGAGGAGATATGCCAGATGCTTAAACACATTTAA
TTGCTGTGAGATTAATTCCATGATCACTAAAGAGTTGCTGCTTTTTTCATATTTATTTTTGTAAATGATTCTGTG
CCCAGGAGCAGCTGGGGGTTCCACCTCAGGGTGGGGCGGGCAGGACCCCGTCTCCCAGGTGTGCGGAGCCTGACC
TGAATTAAGTACTGACTGCTCGCC

3788/5332
FIGURE 3309A

[illegible]

3789/5332

FIGURE 3309B

GGGGACAAGCGGACTCGCATCCAGGGCCGTGTCGCCACCTCACTGGCATCCATGCAGTGGAGGAAGTCAGCCTG
GAGGAGTTCTCAGCCACCCATGTGCCCGTGACAATGGTGGCTGCTCCCACATCTGTATTGCCAAGGGTGATGGG
ACACCACGGTGCTCATGCCCAGTCCACCTCGTGCTCCTGCAGAACCTGCTGACCTGTGGAGAGCCGCCACCTGC
TCCCCGGACCAAGTTTGTCATGTGCCACAGGGGAGATCGACTGTATCCCCGGGGCCTGGCGCTGTGACGGCTTTCCC
GAGTGCGATGACCAGAGCGACGAGGAGGGCTGCCCCGTGTGCTCCGCCGCCAGTTCCCTGCGCGGGGGTCAG
TGTGTGGACCTGCGCCTGCGCTGCGACGGCGAGGCAGACTGTGAGGACCGCTCAGACGAGGCGGACTGTGACGCC
ATCTGCCTGCCAACCAGTTCCGGTGTGCGAGCGGCCAGTGTGTCTCATCAAACAGCAGTGCAGCTCCTTCCCC
GACTGTATCGACGGCTCCGACGAGCTCATGTGTGAAATCACCAAGCCGCCCTCAGACGACAGCCGGCCCCACAGC
AGTGCCATCGGGCCCCGTATTGGCATCATCCTCTCTCTTCGTCATGGGTGGTGTCTATTTTGTGTGCCAGCGC
GTGGTGTGCCAGCGCTATGCGGGGGCCAACGGGCCCTTCCCGCACGAGTATGTCAGCGGGACCCCGCACGTGCCC
CTCAATTTTCATAGCCCCGGGCGGTTCCCAGCATGGCCCCCTTCACAGGCATCGCATGCGGAAAGTCCATGATGAGC
TCCGTGAGCCTGATGGGGGGCCGGGGCGGGGTGCCCTCTACGACCGGAACACGTACAGGGGCCTCGTCCAGC
AGCTCGTCCAGCACGAAGGCCACGCTGTACCCGCCGATCCTGAACCCGCCCTCCCCGGCCACGGACCCCTCC
CTGTACAACATGGACATGTTCTACTCTTCAAACATTCCGGCCACTGCGAGACCGTACAGGCCCTACATCATTCGA
GGAATGGCGCCCCCGACGACGCCCTGCAGCACCACGCTGTGTGACAGCGACTACAGCGCCAGCCGCTGGAAGGCC
AGCAAGTACTACCTGGATTGAACTCGGACTCAGACCCCTATCCACCCCCACCCAGCCCCACAGCCAGTACCTG
TCGGCGGAGGACAGCTGCCCCGCCCTCGCCGCCACCGAGAGGAGCTACTTCCATCTCTTCCCGCCCCCTCCGTCC
CCCTGCACGGACTCATCTGACCTCGGCCGGGCCACTCTGGCTTCTCTGTGCCCCCTGTAAATAGTTTAAATATG
AACAAAGAAAAAATATATTTATGATTTAAAAATAAATATAATTGGGATTTTAAAAACATGAGAAATGTGAAC
TGTGATGGGGTGGGCAGGGCTGGGAGAACTTTGTACAGTGGAGAAATATTATAAACTTAATTTTGTAAACAG

CAGATAAGAAAAACAAGCTCAGAGAGATGTGGTGACTTGCTCAAATAGTGACAGAACTTCCTCGGCCATATGGAGG
GGTCATATAATACCCCTTGCTGCTTCAGTTTGAGGAGAGCTGTTTCATATCCATATCCCACTGTATTCTCTGCTAA
TCTGCTAATGCAGTAAATTGGAGGAAAACTGTTACCAGGATAACCTGTAATGGGCAAGGAGCCACAAAGAAGAAA
ACATTTCTTTTAAATTTTAAACTTGGTTTGAAAGACCAGCATGTTTGGAAATTTGATCTTCACTCATCATCCCA
CATAGACACACTTCTAGAAAAGAGAAGATGTAACACTGAAGGAGTTAATGGATGAGGAAGATGTTTACAGGAATG
TAAAGCTCAGAACCAGCAAACCTTATAGAGTTTCTGTTAAAAGCAGAATGTCTCGAAGATTTAGTCTCATTCAATTAT
AGAAGAACCACCTCAAGACATGGATGAAAAGATCAGATACAAGTATCCAAATATATCTTGTGAGTTGCTCACTTC
TGATGTCTCCCAAGATGAATGATAGACTGGGAGAAAGATGAATCCTTGCTAATGAAATTATATAGCTTCCTCCTAAA
CGATTCCCCTTTGAATCCACTACTTGCCAGTTTCTTCAGCAAGGTGCTAAGTATTCTTATCAGCAGAAAACCAG
ACAGATTGTGGATTCTTAAAGAAGAAGCATGATTTTGTAGACCTTATTATAAAGCACATAGGAACTTCTGCTAT
CATGGATTGTGCTCAGGCTCCTGACGTGTATCGAACCTCCACAGCCCAGGCAAGATGTGCTGAATTGGTTAAA
TGAGAGAAAAATATCCAGAGGCTTGTGGAATAGTTCACTCCGACAGAAGAAGATCGACATTCAAATGCATC
ACCAATCACTTTGTGAAATTTGCTCGCTGACGAGACGCCAGATGTTACAAATTGAGAAGCATCAGAGCCCCAGCC
CCTGCTTGCCACTCTAGAAAAGCAAGAATTATAGAGCAGCTTCTATCAAATATTTTCCACAAGGAGAAAAATGA
GTCAGCCATAGTCAGTGCAATCCAGATATTGCTGACTTTACTTGAGACACGACGACCAACATTTGAAGGCCATAT
AGAGATCTGCCCCACCAGGCATGAGCCATTCACTGTTTTCAGTAAACAAGAGTGTCTAGAAGCCATCAGAGGAAG
ACTTGGATCTTTTCATGAACCTCCTGCTGGAGCCACCCAGAACATGTTCTTCAAGTATACATGGAATAACTTTTT
GCATACACAAGTGGAAATTTGTATTGCACTGATTCTTGCAAGTCCTTTTGAAAAACAGAAAATGCCACAATTAC
CGATCAAGACTCCACTGGTGATAATTTGTTATTAACATCTTTTCCAAAAATGTCAATTAATAGAACGAATACT
TGAAGCCTGGGAAATGAATGAGAAGAAACAGGCTGAGGGAGGAAGACGGCATGGTTACATGGGACACCTAACGAG
GATAGCTAACTGTATCGTGACAGACTGACAAGGGCCCCAACAGTGCATTAGTGCAGCAGCTTATCAAAGATCT
TCCCAGCAAGTCAGGGAACGATGGGAGACGTTCTGACAAAGCTCCTTAGGAGAACTAACAAAGAGGAACACGGT
AGATCTAGCCTTTCTGATTATCAGATGCAACAAATGACGTCCAATTTTATTGACCAGTTTGGCTTCAACGATGA
GAAGTTTGAGATCAAGATGACATTGGCAATGTTTCTTTTGATCGAGTATCAGACATCAACTTTACTCTCAATAC
AAATGAAAGTGGAAATATTGCCTTGTTGAAGCATGTTGTAAGGAAAGAATACAACAGTTTGATGATGGTGGCTC
TGATGAGGAAGATATATGGGAGGAAAAGCACATCGCATTACACCAGAATCCCAAAGACGATCCAGCTCGGGGAG
TACAGACAGTGAGGAAAGTACAGACTCTGAAGAAGAAGATGGAGCAAAGCAAGACTTGTGTTGAACCCAGCAGTGC
CAACACGGAGGATAAAAATGGAGGTGGACCTGAGTGAAACACCCCAACTGGTCAGTAACTTTGATGTCCCAATGGA
AACACCCACGGTGCTCCATTGGATTCTGTGGATCTGATGCTGGAGCACAGAGAGCCGATGCCAACAATAAGA
GACGGGCTGGGCTTCTTTTTCAGAGTTACGCTCTCCCTGAGCACAAGAGATCTTAAAGGAGTAAATCTCCAGT
GGAAATGGAACCCGACCTGAACCCATGGACCTCTGACTCCCAAGTGCAGGCTGCCCTGGCAGTGCAGCCAGAAGC
GGCAGGCAGTGTGGCCATGGAAGCCAGCTCTGACGGAGAGGAGGATGCAGAAAGTACAGACAAGGTAACTGAGAC
AGTGATGAATGGCGGCATGAAGGAAACGCTCAGCCTCACTGTAGATGCCAAGACAGAGACTGCGGTCTTCAAAG
TGAGGAAGGGAACTGTCTACCTCTCAAGATGTCTGCTTGTAAGACGCAGAGGAGTGTCCCGAGACTGCAGAGGC
GAAGTGCAGCGGCACCCAGGCTCTCCAGCAGCAGTCCCGAGCAGAGGACTGGCCAACCAAGCGCACCAAGGTGACAC
TTCAGTGAATGGCCCTGTATGACGGGTGACGTCTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGG
GCTCTGGAGGGGTGACGTGGAGCCCACCAAGCTGTCACTGCTGCACTCACTCTGCAAGGGATCAGGACCAGCAAC
CTTTATATTCTAGATTCTAAGACATTGTACAGAGAAATTCAGAAGTGTAATAATTTGACATTGACAAATACCA
AGAAATTTTGCGIATGTTTATATTGTATTGTTCTAAATAATGGGTAGCCTGTGAAATAAGATCTTGCCACCCATG
TAATAATAGTAGTAATACTATAGTTAAAATGGCTGTAAGAATAGTTTTATAAAGTGAATACACAGATCTATTGT
ATTTGAAACATAACTTTGACAATTATTAGTGTGACCAAAGTATTAGGCGGTTTTTCATACATTTTTACCTTGTAC
AAAATTATGAATTCATTTTTCTCCAGGCCGACAAGGAGTTGTAGAATGAAATGCCCTCTAAGTGTTATTTTGG
TTGTTCTAACTTACAAAAGTGATTTTGAATAAGAAATATTTGGTGTTCTTTTTATAACCAGTTTTTGATTGGTAA
TTGTTTTCTGTATTGTTTAAAACGGATCAAAAATGTAAGTCTATTGGTAGAGATTAAGTAAAGTATTTATTGCTA
CCTACAAGTTGATAAATAGATGTTATTCGTAAAGCCATATGTTCTGTTCAAGTCTGTTTGGATTGAAATGATTATT
CATCATAGTGAAACACTGACTACTTTGGAGTAGATATGGCTTGCTGTTTTGGGATTTTTTTTTTTTTTTTGGCTT
TTGTTTTGTTTGTGTTTTTGTGTTTCGTTTGGTAGTTCATCTGCCTTTTAACCCATTACCAAAAATTTACCTTGTT
AACAAAGCATCACCAATGAACATTTTTCAGAGCAATCTGCATATTTAACAGACCTAAAAATAAATCCTATTAGGCAAGT

3791/5332
FIGURE 3310B

CAGTTGAAAATGCTCGTGCTGCTAATGGAATTAGAGTGCGTTCATTTTACAGGCTAGTATTTTAAAAAGTAGAAAT
CAAAATCTGGCACC GAAGCATGCTAATTGTTTACTGTACCTTGTGAGGTTTTCAC TCATAAATTTAAACCAGTGT
ATTTTTTTAGAACTGGTTTGTGTATATATATAGTGATTATGGATACTAATTCAATGTAATTTATAATTTTCTATG
TCAATACAAAAATACATCACAGCCTTCTCAAACAGCTCAAGCAATATATTGTATATTGCCATATCGTCTGGTGAA
AGGGTTAAATTACTTCACCTCTTGCACTTTTAGATGCAAATCAGTTTTTCATTTCTGTAATAGAAAATTATTAC
GTATTTTACATCATTGTGTTTTCTTGACCAGTATTTAAACCAAAAGGATATTCTGAAAAATGGCCAACAATTT
TTT TAGAAGTAGCATCCCAAGCAGCGTGCC TAAACATTACATTGCATATGGAAATAAAAGAATCAAACGTCTAAT
GCCTTATTATTTCTGATTCCTTTTTTCATTTTAAAGTGGTGTGGAGATTCCAGCACTCC CAGGACAGTGGAGTCAG
CAGTAAGCCCTGGGACAGGTGGCAAGGGTGGGTCCCTTGACCTTTGCACGCCTCCTCAGGAACCCCTTTCCCGG
GTGAGCCCTCTCTGAAGAGACTGTCCTTGGGCCTCCTCTGGAAGCAGCACCCCCAGAGGACAGGGCTCCTCCTG
CTTGCCCTCAGGGCTGCCTGACTTGAATGGCGTTGGACCTCGGGGATTACTGGTAGATAATATGCTCTGGTCTCGC
CTGGTGGTGAGTTTGGCCAGCCATGGCCAGGGTTTGGCTCCACTGGTGGCACACGTGGCCTCCGTGGTATGGACC
TGGTGGCTTCTCCATCCCACTGTGGCCTCTGTGGTATGGACCTGGTGGCTTCTCCATCCTACCCAAGGTAACAGT
GTCTTGCTTCATCCCACTGACTGCTGGGAGAGAGCCTCTGGGACTTTTCTTTGGGGCATCATTTTGTGTTGTCTT
TCGTAGCAGGGAAAGGATATGACAATGGGGAGGACAGTTCTTTTGGAGGTGGAGGGGCCAAGCCAAGGACAGGA
GCAAGTGCGCCCTCATTTTGTGTTCTACTTTTAATTTCTGTGTGTTGGCCATACTGA

3792/5332
FIGURE 3311

GGTCAAGGCGAAGCTCGCGGGGGCGACAGCGACGGCGGGGAGCTCCTCGGGGAGTACCCCGGGATCCCAGAGCT
CAGCGCGCTGGAGGACGTGCGCTCCTGCAGGCCCCGAGCCGCCCGCTGCAACGTGCACTTCCTGTCCTCGCT
GCTACCCGCGCACCGCAGCCCCGGGTGTTGCCCTGGGCGCTGGGTCTTGGAAGGAGCCTCCCACCCGGGCGT
CCGCATGATCCCAGTTGAAATCAAGGAAGCAGGTGGTACTACTACAAGTAATAATCCGGAAGAAGCAACTTTGCA
GAATCTTCTTGCTCAGGAATCCTGTTGCAAGTTCCCATCGTCCCAGGAAGTAGAGGATGCCTCCTGCTGTTCTCT
TAAGAAAGATTCCAACCCAATGGTGATATGCCAATTGAAAGGGGCGACACAAATGCTATGTATAGACAATTCTAG
AACAAGAGAAGTAAAAGCACTCCATTTGGTTCTCAGTATCAAGATCAAAATAATTATCTACAGTCAGATGTCCC
TAAACCAATGACTGCTTTAGTAGGGAGATTTTGGCAGCATCAACAAAATTAAATCTCATTACACAACAACCTGA
GGGAGCCTTACCATCGGTAGTCAACGGGTCTGCTTTCCCTCGGGATCAACTCTCCAGGACCACCAAAATAAC
TTTGGCTGGGTACTGTGACTGCTTTGCCAGTGGGGACTTTTGCAACAACCTGCAATTGTAATAATTGTTGCAACAA
CTTGATCATGATATTGAACGGTTTAAAGCCATTAAGGCATGCTTGGTAGAAATCCAGAAGCTTTCCAGCCAAA
AATTGGGAAGGGCCAATTGGGCAATGTCAAGCCCCAGCACAAAGGGTGCAACTGCAGGAGGTCAGGCTGCCT
GAAGAATTACTGCGAGTGCTATGAGGCCAAATTATGTGTTCTTCTATTTGCAAATGCATTGGTTGCAAAAATTA
TGAAGAAAGCCAGAACGAAAGACACTAATGAGCATGCCAAACTACATGCAGACTGGAGGTTTGAAGGCAGCCA
TTACCTGCCACCAACGAAATTTTCAGGACTTCCAAGATTCAAGTCAGCATAGGCGGCCTTCTCATGCATCTCCTG
GGAGGTGGTGGAGGCCACATGCGCCTGCCTGCTTGCTCAGGGAGAAGAGGCCGAGAAAGAACACTGCTCCAAGTG
CCTGGCAGAGCAGATGATCCTGGAGGAATTTGGAAGGTGCTTATCACAGATTCTCCACACTGAGTTTAAATCTAA
GGGATTGAAATGGAGTACAGTATAAAGTGTGAATGCATGTTGATTTTGTCTTAGTCTAGAAATCTCTAGTTTAG
AAAGGATGTTTAGGGGAACATGAGGCTGGCTCTGCAGCAACAACCAGGCTCCCCTGCATCCCTGGGCCCAGGGAG
TTTACTCAGAGCTCTCTGAAGATGTGGCAACCCATGCCCCCTTTCTGAGGAGGTGCATGGCCTGAGCATTGTTT
GTCTGGCCCAGAGGAGAGAGCTTGGGTTCCCATAGTCCTGGGAGAGTGTCTGCAGGGCGGCGGAGGGCAGAGCAG
GCCCTGCGGAGAGCTCACTCTGGTCGACTCTCCTCTCAGAGAAATGTTGCTCTGGAGGCTGCTCTGCATGAAAC
CCTAATGGTTTTCTGTTTGTGTTTTTCAAATTATTTAGAAATAAGTTCTCCGGATGGGCTGTTGTGATACCCTTAA
AATCTCTAGAGAAGTACTGAACACCTAAAGATTTTCTGTAGCGTAGATATTTCCCAGAGGCACGCGAAGTGTCA
GTCTTTTCTAAGGCCCGGGGAGACGCAGGCAATGGGGCCTCGCAGGCCAGGCTTGCAACCAGCATGTCTTGAGTT
AGAGGACTTAAATTTATCCAGTTTCTTCTGTGTTTCTACTTGAATTGTGGAAAAGCTCTATTATCCAATTAAGTT
CTCCATAATTATTGTTGTAATATTATTGTTTGTAAACATGGTTCACATAACTAGCTTGTGGAAACCAGCAG
GTAAATGAATTCTTAAGTTGACGCTTTTGGTCTGTTGTAAAGCAAAGATGAATAAAAAATTTCCAATGTC

3793/5332
FIGURE 3312A

TCAGTGGCGTTTGCCTTGATTCCCGGGGCTGGCTTTTCAGCGTAGCAATTCTGCCGGCGAAGAAGGTGAGCGCAG
TGCTGTGTGGCAGCAGAGGTCTTAGGACGAGGAACAGCGGGACGAGGAAGGGCAGACTGGTGAAATCGCAAAT
GGGCGTCTGTTCGGCACCGGACCCCTGTTTGCAAAGGTCCATGGCTAATGAAACACAGAAGGTTGGTGCCATCC
ATTTTCCTTTTCCCTTCACACCCTATTCCATCCAGGAAGACTTCATGGCAGAGCTGTACCGGGTTTGGAGGCTG
GCAAGATTGGGATATTTGAGAGTCCAACTGGCACTGGGAAGTCCCTTAAGTCTTATTTGTGGGGCCCTCTCTGGC
TCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGCACGACTCCTTGAAACTGGAACCTGGCCCCCTTACATGATG
AGAAAGATGAATCCCTGTGTCTGTCTTCTCCTGCGAAGGGGCTGCAGGCACCCCGAGGCTGTGGAGAACC GG
CCTGGGTTACTCAGTTTGTGCAGAAGAAAGAAGAGAGGGACCTGGTGGACCGACTGAAGGTGGAGCAGGCCAGGA
GGAAGCAGCGAGAAGAAGCCTGCAGCAGCTGCAGCACAGGGTGAGCTCAAGTATGCAGCCAAGCGCCTGAGGC
AGGAAGAAGAAGAAACAGAGAATCTCCTCCGCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCCGAGCGGC
TGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCGAATACGAGAGTGATGAGGAGAAAAAGGTGGCGA
GCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATACTAAGATTTATCACTGTAGTCGGACACACT
CCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTTCGGCTGGTCTCCCTCGGCT
CCCGGCAGAACCCTTTGTGTAATGAAGACGTGAGAAGCCTAGGTTCTGTGCAGCTTATCAACGACCCTGCGTGG
ACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAGCCAAAGAGGAGGAGGCAGGAGAAGC
AGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGATGAGGCCCTGGCAGAGGTGAAGGACA
TGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCCTGTCCCTATTACAGGAGCCGCTTGCCATCCCTGCAG
CCCAGCTGGTGGTGCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGGCAGGCCGCCGGCATCCGGCTGCAGG
ACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACGGGCATGCACAGCGTGGAGGTGACGG
GCTCCAGCTCTGCCAGGCCATTCCAGCTGCTGCAGTACATGGAGCGATACGGGAAGCGTTTGAAGGCCAAGA
ACCTGATGTACCTGAAGCAGATCCTGTATTTGCTGGAGAAATTCGTGGCTGTGCTAGGGGGGAACATTAAGCAAA
ATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATCAACGACTTCTCTTCCAGAGCCAGA
TCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGCTTCA
CTGAACGGTACGGAGCAGTGTTCTCATCCCGGGAGCAGCCCAAACCTGGCTGGGTTTCAGCAATTCCTGCAGAGCC
TGCAGCCCAGGACGACTGAAGCTCTTGCAAGCCCTGCAGACGAGAGTCAGGCCAGCGTCCCCGAACCAGCTTCCC
CACTAATGCACATCGAAGGCTTCCCTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCATCCTGAGCCGCC
AAGGCAGCCTCAGTGAGAGCACCTGAAGTTTTTGTCTCTGAATCCAGCTGTGCACCTTGCCCCAAGTGGTGAAGG
AATGCCGGGCAGTGGTCATTGCGGGGGGGACCATGCAGCCGGTGTCTGACTTCCGGCAGCAGCTGCTGGCCCTGTG
CTGGGGTGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTCACGTGATCCCTCCAGACAACATCTGCCCTTGT
CATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCACCTTCCAGAAAAGAGACCTGCCTCAGATGATATCCA
GGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCGTATTCCAGGTGCATCCAGGCCGTGTGGCCAGGA
GAGAGGCCAGGTGACAGAGGCCCTGCTCTCTGTGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGA
CAACCTAGGCCGGTGTGTGGTGATGGTGGGCATGCCCTTCCCAACATCAGGTCTGCAGAGCTGCAGGAGAAGAT
GGCCTACTTGGATCAAACCTTCCCCAGAGCCCCCGGCCAGGCACCCCCAGGGAAGGCTCTGGTGGAGAACCCTGTG
CATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATTTTGCCAGCATAGTGCTCTGGGA
CCAGCGATACGCCCCGCCCCCTGTCTGGCCAAGCTGCCGGCCTGGATCCGAGCCAGTGTGGAGGTCAAAGCTAC
CTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACCGGGAGAAGTCGGCCTCTTCTGATGGGCAACCACACC
ACCGCCCCGGCGCGTGCCTTCTTTGCTGCTGCTGAGACAGTGTGTTGCTGTTGGCGTGGTCTGCAGGGAT
CCTGTTACAAAGGTGAAACCCAGGAGGAGAGTGTGGAGTCCAGAGCGCTGCCGGGACCCAGGCACAGGCGTTAGC
TCCCGTAGGAGAAAATGCGGGAATCCTGAATGAACAGTGGGTCTGGCTGTCTTGGGGCGTTCCAGGGCAGCTC
CCCTCCTGGAATAGAATCTTTCTTTCCATCCTGCATGGCTGAGAGCCAGGCTTCTGCTTGGAGTCCGCAGGAGG
CTGTGGCAGCAGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTAAGAGGCGAGATGGAGCAGGTCCATCT
GCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTCTGGTCTCAATTTAAATGATCCCG
TGGCCACAGGGCTCCTGCCAGGGGCTTGTACCTTCCCCTCCTCCTTCTGAGTCACTCTCAGTAGAAGGCC
CTGCTCTCTATCCTGCCACAGCCCTGCCTGGATTTGTATCCTTGGCTTCGTGCCAGTTCTCTCAAGTCTATGG
CACCTCCCTCCCTCTCAACCACTTGAGCAAACCTCCAAGACACCTTCTACCCCGACACCAGCAATTATGCCAAGGG
CCATTAGGCTCTCAACATGACTATAGAGACCCCGTATCATATGGAGACCTTTGTTCTGTGGGAAAATAACCTT
CCCACCTGCAACAGCTGCCCTGCTGACTGCGCCTGTCTTCTCCTCTGACCCAGAGAAAGGGGCCGTGGTTCAG

3794/5332
FIGURE 3312B

CTGGGATCTTCTGCCACCATCAGGGACAAACCGGGGGCAGGAGGAAAGTCACTGATGCCAGCTGTTTGCATCCT
GCACAGCTACAGGTCCTTAATTAAAAGTG TACTGTTGGTT

3795/5332
FIGURE 3313A

TACAATACAGTCTGTTCTCCTCCAGCTCCTTCTTTCTGCAACATGGGGAAGAACAACCTCCTTCATCCAAGTCTG
GTTCTTCTCCTCTTGGTCTCCTGCCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCCC
TCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGACTGTAAGT
GCTTCTTGGAGTCTGTGAGGGGAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAATGACGTACTCCACTGT
GTCGCCTTCGCTGTCCCAAAGTCTTTCATCCAATGAGGAGGTAATGTTCTCACTGTCCAAGTGAAAGGACCAACC
CAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATCA
ATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTCTCCATGGATGAAAACCTTTACCCCCCTGAATGAGTTG
ATTCCACTAGTATACATTGAGGATCCCAAAGGAAATCGCATCGCACAATGGCAGAGTTTCCAGTTAGAGGGTGGC
CTCAAGCAATTTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCCTACAAGGTGGTGGTACAGAAGAAATCA
GGTGAAGGACAGAGCACCCTTTCACCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCCA
AAGATAATCACCATCTTGGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCCT
GGACATGTGACTGTGAGCATTTCAGAGAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTACAGGCTTTC
TGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGCTTTCAGCTG
AAGAGGAAGGAGTATGAAATGAACTTCACACTGAGGCCAGATCCAAGAAGAAGGAACAGTGGTGGAAATGACT
GGAAGGCAATGAGCAAACTATTACTCCAATGTACCACGGATGAGCATGGCCTTGTACAGTTCTCTATCAACACC
AGAGGAAATGAAGCAAACTATTACTCCAATGTACCACGGATGAGCATGGCCTTGTACAGTTCTCTATCAACACC
ACCAATGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCACTGG
GTGTGAGAAGAACACGAAGAGGCACATCAGACTGCTTATCTTGTGTTCTCCCCAAGCAAGAGCTTTGTCCACCTT
GAGCCCATGTCTCATGAACTACCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCACC
CTGCTGGGGCTGAAGAAGCTCTCCTTCTATTATCTGATAATGGCAAAGGGAGGCATTGTCCGAAGTGGGACTCAT
GGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTCCATCTCAATCCCTGTGAAGTCAGACATTGCTCCT
GTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAATATGATGTTGAA
AATTGTCTGGCCAACAAGGTGGATTGAGCTTCAGCCCATCAGAAAGTCTCCAGCCTCACACGCCACCTGCGA
GTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAAGCGTGCTGCTCATGAAGCCTGATGCT
GAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCCTTTGAATGAC
CAGGACAATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTACA
AATGAAAAGGATATGTACAGCTTCTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCTGTAACCC
AAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTTATGAGTCAGAT
GTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCCT
GAGACATGGATCTGGGATTGTTGGTGGTAAACTCAGCAGGTGTGGCTGAGGTAGGAGTAACAGTCCCTGACACC
ATCACCGAGTGGAAGGCAGGGCCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCTC
CGAGCCTTCCAGCCCTTCTTGTGGAGCTCACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTCACACTCAAG
GCCACGGTCTTAACTACCTTCCCAAATGCATCCGGGTGAGTGTGACGCTGGAAGCCTCTCCGCTTCTCTAGCT
GTCCAGTGGAAGGAACAAGCGCCTCACTGCATCTGTGCAAACGGGCGGCAAACTGTGTCTGGGCAGTAACC
CCAAAGTCATTAGGAAATGTGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGAG
GTGCCTTCAGTTCTTGAACACGGAAGGAAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGAG
AAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGAAGTTTCTGAAGAATTATCCCTGAAACTGCCA
CCAAATGTGGTAGAAGAACTGCCCCGAGCTTCTGTCTCAGTTTGGGAGACATATTAGGCTCTGCCATGCAAAAC
ACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCTCCTAACATCTATGTA
CTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGGCCATTGGCTATCTCAACACTGGT
TACCAGAGACAGTTGAACTACAAACACTATGATGGCTCCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCAG
GGCAACACCTGGCTCACAGCCTTTGTTCTGAAGACTTTTGGCCAGCTCGAGCCTACATCTTCATCGATGAAGCA
CACATTACCCAAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTCAGGAGCTCTGGGTCACTG
CTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCTCTCCGCTATATCACCATCGCCCTTCTGGAG
ATTCTCTCACAGTCACTCACCTGTGTCCGCAATGCCCTGTTTTGCTTGGAGTCAGCCTGGAAGACAGCACAA
GAAGGGGACCATGGCAGCATGTATATACCAAAGCACTGCTGGCCTATGCTTTTGGCCTGGCAGGTAACCAGGAC
AAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCCT

3796/5332
FIGURE 3313B

CAGAAACCCAAGGCACCAAGTGGGGCATTTTTACGAACCCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTAT
GTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAAG
TGGATCACGAAGCAGCAGAATGCCCAGGGCGGTTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCTG
TCCAAATATGGAGCAGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATTT
TCCAGCAAATTCGAAGTGGACAACAACAACCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGAA
TACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACATCCTTGAAATACAATATTCTCCAGAAAAG
GAAGAGTTCCCTTTGCTTTAGGAGTGCAGACTCTGCCTCAAACCTTGATGAACCCAAAGCCCACACCAGCTTC
CAAATCTCCCTAAGTGTCAAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGTC
TCTGGCTTCATTCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAGC
AGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGAT
GTCCCAGTAAGAGATCTGAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATTGCT
GAGTACAATGCTCCTTGAGCAAAGATCTTGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAGT
CCTGTTCTCAGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGGT
C

3797/5332
FIGURE 3314

CATCAGCCCAGCCTGCAAGGAGGGCGCCACCGGACCTGCACACTCAGGAGCAGACTCAGCTAGATTGGAAGAGAGG
ATGGGAAGACAATGGATGACCTACCTGTGGAGAGAACTACCCATTCCAGAACCTCCTCTCTGCTGAAAGCTGAA
CACTCAATGGGAAGACCTGTTTGAGAGAGGAGCCAGCCACTCCAGGGTCTCCGTTCTGCTAGAAGCTGAACACT
CGTTGGGACACCCTTGCTGTGGAAAGGACATCCTTACTGTGGAATGAGCTACTAACTGCAGGAGCTGAGGAGCT
GCACAGCAAGGTTAAAAGAGCTGTAACACAAACAGGGCTGCAACATGCCCTTGCTCCCCACAGGGAGAGAAGAG
CTCTGGCCCTCGGAGAAGCCCAGACCTGGGAGCTCCTTGAGCCCGGGCTGTGACTCCCTCTTTGGGGCCCTGGTT
GGCGTCACTGCATTTCGCCAGTGCCACTGTTGGAAGCTGCTTGTGATGCGCCTGGTCCAGGGGGAAGCTGTTTGT
GTGTGCCTGGTCCAGCCACCTCATGGAGAGCCTGTGCTGGCACCTGGAGCTGCCAACCTGGGCAGCAGCTTGTG
TGTGTGACTGCACAGTGGCCACGCTTGCTCACACACCCCTAGCACACCCCTCTGCTCCACCCGTCTCAATCTCCC
TTGGATCCGGGATCCAGGTTGGTAGCAAGTGCAGTGGGCAGAAGCAGCCAGTGGGCCAGAGCAAAACTCAGG
CAAAGGTGCCACTAGACTGGCCAGGAAAGCGACACCCTAAAGATCCCATATGCTGATATGTTAAATTCATTCTA
TAAGCACCACACAGAAGTGATAGCTTTTATTTCTTATTTTGTCTAGCCTGGAGACAGAGCTAAGGATTCTTTGAA
CTGCAAAGTCTTTTCCAGTTCTTAGTTTATACAACTCATACTCACCTTCTGCCTAACTAAGCATTGTCTTTTTG
TGCCAAATGAAGAGTAGGACTCCTACGATTGTCTCAGACTCTCTTGCTCAATCCTCCTGCTTTAACCTTTCCCT
ACTTCAAAAACCTCCTGAAGTTTGTCTTCCCCTTCTATAGAATGGAATATATGTCGCAATACTTACTGCAAAGAA
AATTATATATTTTAAAAATAGACTAAAGAGATGTTGTGAGACATCAGACATCAATCAGATGTTGTGAGAACTGAT
TTCTGCATCAGAATATCTCCTTGACTTTACAGCTATCCTTTAATCCTGGCTCAAAGTTCAGAAGAAAGATGATC
CAATATAATACTCCTATTTGGACTTTGAGTCATACACATTCTTCTTCTGAGAAAACGTGCTTCTGCATGAATCC
TCCCTTCATTATTTTTCAGCTCATCTATTATTGAATCTGAAACCCAGGTTAACTGACTGATCACTCTCATCAGTG
GCAGATTTTGGTGTAAACATAGGACACATCACTCCCAATTCAGGTCAAGTCCCAATTATCTTGCCTCTCAATATGA
CATGTTCAATGTTGTATTTCATTCTACTTCATTTAATGTAAAAAGTCTTTTCTGGTGAAGTCAGTCTTTTATTT
TCTCATAAAAATTCACCCCTTTGGGTTTTTCATAGGGTATTCCTATAACCAAACACACTTTACACTTTCTTAGTAC
ATAACCCAATACTTTCTTCTTCCCCACAGTCCTTACATGAAGCCTACTCAGACCGACATCACTGTATCATTTTT
TTGTATTCTGAAGTCCTTCAGCACTTGATTCTTTAAGTTAATCTTGGTATTCTATTGGGAATCATATGGAAT
GTACAATGATATTTATTGAATGAACAGGAAACAGGAAAGACATTGACCAGAAAAAGTGTATTATTCATCAAGTCT
TTAAAGATACAAAAACACGTGTCTTCTGTGGAGCTCTGAGAACAGGACTCCAGCAAAGCACTTTTCAGCCTTGTG
GTCTTCAAGCATTTCAGATCTGTGACATTGGAAAGAAAAAAATTAAGACAGATTTGGGTCTCCATGAGCAGA
GAGTATTCTTTCCCTTAGTTCTGGGTAGCATAGTGCCCAAGGAAACCTAATCAGTACAGTGGGAAACCAATCTA
TTCCAAATCATTACCCATAAGCAATCCTATGGACTCTCTGAGGTTTGACAGAGTCAGCGGCCCTCTCCAATAAAT
GTGTTTTTCTAT

3798/5332
FIGURE 3315

TTCCGGTTCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAACTAGCTCTGGGACCGGG
TCTGCGGCCCGCCCTAGCTGGCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCTGAGCTTTGGCTA
CTCCAGTTTCCACGACACGATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTCTCTGGCTG
TGGCAGTGAGAGAATCCTGGCAGACAGAAGAAAAAAGCTTGGCACTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGA
AAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAGCTTTGAGAGCACTGTGGGCCAGGGTTTCTAG
ACACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAATCA
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCA
TGCTGATCTATAAAGGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTGGTGATGATCT
CCTGCAATCGACACACCCTAGCGGACAATTTTAACCCTGTGTCTGAGGAGCGTGGCAAAGTCCAAGATTGTTTCT
ACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCAGAGATCTCCACCTCAGTGTGGGTTCCATCTTACTTG
TCACGTTTGCATCACTGGTTGCTGTTTATGTTGTTGGGGGGTTCTATACCAGCGACTGGTAGTGGGAGCCAAAG
GAATGGAGCAGTTTCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCT
GCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAAG
AAAGGGATGACCATTTATTACCAATGTAGATTGCACTTTATATGTCCAGCCTCTTCTCAGTCCCCCAAACAAA
GCTACACAGCCAGATTTCTCAAGCAGTCTCAACTCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCA
GTTTGCTTTTGATTTGCATCTTCTCACTAGTAAACTGCCTTCCCTTTGTTCCTTATTTTCTGTTTTTCTCTAG
AGAGGTACAGTTGTAAGTCAGAGTTAATATAATAGGGCCTGTGAAAACAGAGGCTTTTGCATTGTCTCTTGACAT
CAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTGGCCGTTTGTTTTTAAACACATTTTCA
CAAGTTTTTGAGACACTGGATTTCTTTAATTAATAAAAAAATGCCAAGAAACATTATTTATACAGGGTTGATTGC
TTTCATGTTGTTATTCTGTACCCTATAGTAGCCTCCATGAGAATCTGGTATTTCTTGCTGCTTGGAACACTTTG
CAGTGATTACTTGGTTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGACTTGCTTCTCCCA
CCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCCAATTACAGGATTATACGGTACCATCACATCATTTGTGG
AAATTGGGGTGACTGTATAGCTGGGATTGGGCTAAGGACTGTGGTCTTATCTGTCCACATACAGCCAAAATGCCT
ATCCAGAAATCCAGTTCGTTGGAAAGGAAAAATGGTACTCCTGTGCCACAGGGGTTCCAGAAAAGGGAAGTCACT
TTACCTTGCGGTGGTGGGATCCTGATGTCTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTTTTCTTACTCCTG
GTTCCCTACCAGTATTTCTAAACATGTGCACTTTCTCCACAGGCATGTGGTTTTGACCTTTTTTCAATCTTCT
AGAAAGGGAACGGAAGCAGAAGTGGGACATCGAGGGCTCTGCTGTCTCTGCGCTGGGTGTGGAATGCTGCTGCA
CCTGTCCCTTCTGCTGGCTCAGGGAAGTGTCTTCTTGCCACATTTCTGTGGGGAAAGGTTTTTAATCCTCTGAT
GCTTCCATCTTCTGTTTAGGCCATGTGCCCAGAAACCTGGACTGATCTTCTTTAATAGTGAACCCCTGGGCCA
CTGAAGAGTAACATGGCTCCACTGGACACAAAAGAGGGATGGAATCAACAGGCAGGGGGCCTTTTATAAGCCTTA
GGAAAAGAAAATGAAACTATTTTCATCTTTGGACTTTTCAATACTATTGGAGTGATTTTTTCTTTCTAAACAGGG
AAAAAATGTTACAAAAGCATCTTTTTTGTATTGTTTGCATCCCTCCCCACACCCTGGTGTTTTAAATGAA
GAAAAAAAACCATCACCTTTTGTACAAAACCTTAATGATTAAAAAACAACA

3799/5332
FIGURE 3316

GGCTCCCGGAATATGGAGCCCTGGGCGCGGGGGCGGCGTGTGTCAGGTGGTTGCGGAGCTGAATCATATTCTAAGAA
CTCAGCCACTCAGGTATCCACCAATGGTGCTGGGTCTGAACAGAAGATGTCAGATGACAGTGTTTCTGGAGATCA
TGGGGAGTCTGCCAGTCTTGGAACATCAACCCTGCCTATAGTAATCCCTCTCTTTCACAGTCCCCCTGGGGACTC
AGAGGAGTACTTCGCCACTTACTTTAATGAGAAGATCTCCATTCCCTGAGGAGGAGTACTCTTGTTTTAGCTTTTCG
TAAACTCTGGGCTTTCACCGGACCAGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGA
TTTGCAGTCTGGAGCAGTGGCTGGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTTGGGGCTGCTGCT
CCAGCGGCTTGACAGCTAGACTGGGAGTGGTTACTGGGCTGCATCTTGCTGAAGTATGTCACCGTCAGTATCCCAA
GGTCCACGAGTCATCCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCAGACATGCAAGAAGTCATTGGCTC
AGCCATTGCTATCAATCTTCTGTCTGTAGGAAGAATTCCCTCTGTGGGGTGGCGTTCTCATCACCATTCAGATAC
TTTTGTATTTCTCTTCTTGACAAATATGGCTTGCGGAAGCTAGAAGCATTTTTTGGCTTCTCATCACTATTAT
GGCCCTCACATTGGATATGAGTATGTTACAGTGAACCCAGCCAGAGCCAGGTACTCAAGGGCATGTTTCGTACC
ATCTGTTCAGGCTGTGCGACTCCACAGATTGAACAGGCTGTGGGCATCGTGGGAGCTGTCATATGCCACACAA
CATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAGGTAAACCGGAACAATAAGCAGGAAGTTCGAGAAGCCAA
TAAGTACTTTTTTCAATTGAATCCTGCATTGCACTCTTTGTTTCCTTCATCATCAATGTCTTTGTGTCTCAGTCTT
TGCTGAAGCATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAAATACCAGCAGTCCCTCATGCTGG
CCTCTTTCCTAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTGTGTCTGGGATGTTACTTTGG
GCCTGCTGCACTCTACATTTGGGCAGTGGGGATCCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATT
TGGCCAGTTTGTATGGAGGGATTCTGAACCTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTCTAT
TGCCATCATCCCCACTCTGCTTGTGTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAA
TGTTCTACAGAGCTTACAGCTTCCCTTTGCTCTCATACCCATCCTCACATTTACGAGCTTGCGGCCAGTAATGAG
TGACTTTGCCAATGGACTAGGCTGGCGGATTGCAGGAGGAATCTTGGTCCTTATCATCTGTTCCATCAATATGTA
CTTTGTAGTGGTTTATGTCCGGGACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTA
TCTGGGCTTTGTGTTCTACTTGGGTTGGCAATGTTTGATTGCACTGGGCATGTCCTTCCCTGGACTGTGGGCATAC
GTGCCATCTGGGATTGACAGCTCAGCCTGAACCTATCTTCTGAACACCATGGACGCTGACTCACTTGTGTCTAG
ATGACTGACAGCCTGAGAGACTCTATAAGAACATGTTTTTCTAAGCCCTTTTTGTGCCAGGTGTCCCGTTAACGT
CTCTGTAGTTTCAAGAGACGGGATTTACCATGTTGCCAGGCTGGTGTGTAACATGAGCTCAAGTAATCTG
CTGGCCTTGGCCTCCCAAAGTGCTGAGATTATAGGCGTGAGCCACTGCATCCAGCTCACTCCTCATTTCTTTCTA
GCCCCAAAGGTGTTGAGTCAGCAAATCCTGCAGCCTTGTGTGACTTTGAGCATCACTTCCCTTTTACGATTA
AATATATGACCTCTCTGCCTTATTTTAGAAGTTACTACATTTCAATAAACTTTTTAAAAATCC

3800/5332
FIGURE 3317

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG
GCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT
TTGGTGGCGCCGGGAGTGGATTGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC
TTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA
GTCTCCTGACTCCCCCTCAACCTGCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCA
AGACCCTCAACAACAAGTTTGCTCCTTCATCGACAAGGTGCGGTTCCCTAGAGCAGCAGAACAAGGTTCTGGACA
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCAGCAGTACA
TCAACAACCTCAGGAGGCAGCTGGACAACAT

3801/5332
FIGURE 3318

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT
CCCTGGGGTTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTACCGTCAACCAGAGTCTCCTGACTCCCCCTCAACCT
GCAAATCGATCCCACCATCCAGCGGGTGC GGCTGAGGAGCGTGAACAGATCAAGACCCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCTTGGAGCAGCAGAACAAGTTCTGGAAACAAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATTGTTCGGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGCAGCAGACTCTCACAGACGAGATCAACTTCTGAGAGC
CTTGATGATGCAGAGCTGTCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTGTCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGTGAAGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC
TGAGGCTGAGTCTGGTACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGGAGGATGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGTGGTGTGGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCTATGGCAGTGGTCTTGGCGTTGGAGG
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA
GTACACCACCACTCTCTCCAGCAGGAAGAGCTATAAGCACTAAAGTGGCTCTGCTAGCTCTCGGTCCACAG
TCCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCTCAGGTTGCCTTTCTCTCTCTCTCTATACCATCTGAGCACC
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTTACTAAATT
ATTAATTTCTTGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTG
CAGAAAATTGCCAGGGGCTTATTTCAGAACAACTCCACTTACTTTCCACTGGCTCTCAACTCTCTAACTTATA
AGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAGTGACTAGTCCTATGATGTACAAAGCCTGTAT
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGAATTGCTAAATAAA

3802/5332
FIGURE 3319

TCGACAGCTCTCTCGCCAGCCAGTTCTGGAAGGGATAAAAAGGGGGCATCACCGTTCTGGGTAACAGAGCCA
CCTTCTGCGTCCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCTGGTTCTCTTGCTCCACCA
GGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGTCCTTCGGAGCGGGGGCAGTCGTAGCTTCAGCACCGCCTC
TGCCATCACCCCGTCTGTCTCCCGCACCAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGTGGCTT
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGCTGGTGCTGGAGGCGGCTATGG
CTTTGGAGGTGGTGCCGGTAGTGGATTTGGTTTTCGGCGGTGGAGCTGGTGGTGGCTTTGGGCTCGGTGGCGGAGC
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA
CCAGAGTCTCCTGACTCCCCCTCAACCTGCAAATCGACCCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA
GATCAAGACCCTCAACAATAAGTTTGCTCCTTCATCGACAAGGTGCGGTTCTTGAGCAGCAGACAAGGTTCT
GGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCA
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCTGGACTCAGAGCTGAGAAA
CATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGA
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTGACAC
CTCAGTGGTCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCAGTA
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT
GAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT
GGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTACAAG
CAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTTGGAGGTCTTGGCGGCGGCCTCGG
TGGAGGTCTTGCCGGAGGTAGCAGTGGAAAGCTACTACTCCAGCAGCAGTGGGGGTGTGCGGCCTAGGTGGTGGGCT
CAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGCTAAGAACCCTGCTGCAAG
TCACTGCCTTCCAAGTGCAAGCAACCCAGCCCATGGAGATTGCTTCTTAGGCAGTTGCTCAAGCCATGTTTTAT
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCAGGAGAGCCCCATTCCC
AGCCCCCTGGTCTCCCGTGCCGAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCACAGCATGGCCCCCT
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAAATCCCCACCCCAATCCCAAATTTTGT
TTTGGTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATAT

3803/5332
FIGURE 3320

GAAACATGCAGGACCTGGTGGAAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTG
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA
TGAGATCTCTGAGATTGAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGCGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA
AGGAG

3804/5332
FIGURE 3321

GCGAGTGC GCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCC GGGCCAGCCACCATGTCCATCCACTTCAGCTCCC
CGGTATTCACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGGCCGTGCGCTCTGCCTATGGGGGCC
CGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT
CCCTCCAGCGGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATCGACA
AGGTGCGGTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCA
AGAGCAGCCGCCTCCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG
ATGGGGGCCGCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGCTGAAGAAGGATGTGGATGCTGCCTACATGAGCA
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCCTCAATGAGACGGAGT
TGACAGAGCTGCAGTCCCAGATCTCCGACACATCTGTGGTGCTGTCCATGGACAACAGTCGCTCCCTGGACCTGG
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT
ACCAGACCAAGTTTGAGACCCCTCCAGGCCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG
AAGCCGCCCTGCAGCGGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACCTCATGAGCGTGAAGC
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGGTTGGCTGGAGATGGAG
TGGGAGCCGTGAATATCTCTGTGATGAATTCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCCTCG
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCTGGGCTCCTGAAGGCTTATTCATCC
GGACCGCATCCGCCAGTCGCAGGAGTGCCCGCGACTGA

3805/5332
FIGURE 3322

CTCTCTGTCAAGAGCCATTGCCTGAAACTGGAGGAGAACATCAAGACAGCTGAGGAGCAGGGTGAGCTGGCCTTC
CAGGATGCCAAGACCAAGCTGGCCAGCTGGAGGCCGCCCTGCAGCAGGCCAAGCAGGACATGGCGCGGCAGCTG
CGCAAGTACCAGGAGCTGATGAACGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGGTGGAG
GGCGAGGAGGGCAGGATGGACTCGCCCTCAGCCACTGTGGTCAGCGCTGTGCAGTCCAGGTGCAAACCGCCCT
TCCCTCCCTACCCCTTATGTTCCCTGTAGCTGCCTCCAGATCAGGCCTCTCCAAGGCCCTCCCGAAAGAAGA
AGGGCAGCAAAGGCCCGTGATCAAAATCACCGAAATGTCAGAGAAGTACTTCTCGCAGGAGTCGGAGGTCTCAG
AGTAAGGCGGCTGGACCCCGAGGAACCCAGGGCACTCCACTGCAGCAGGAGGGACTTAAGCTAGACTCAAGAAAG
CAGCTTGGAGCCTCTAGGTTGAGAAGAGAGGCAAAACCTGATATTGAACTGAGAGAGGGGTTCAAACTGACTGT
GTTTTGTGGGCTGCCAGGGTGGGAGAGGAGCATCACCAGCTCCTCAGAGCCACTCCGCTCCATATCAGTATCTCA
CAGTCCCATCCTTCCAACCTTCTGGCCAGAGGTTTTCTGATGGGTGAGTCGGAATTAGGGGTCACTTTTGTCTC
CACCTCCTCGCTCCTCTGAGGCTCCTCCTCCAGCATCAGGCTCTGCCAAGGCCCTCTGACTCTTGCCCAATCCT
TGACCTTGACTCCTATCTCAAGCCTTGCTTGTCTCTGCCTCGGAACTGGGACTGGGACTGGCTCATCCACCTAT
GTGCGGGAGCCGAGGAGGACGGCGTGGGCCCTGTCTGTATCTGGAATTCCTGGGAAGGCTGGCTGCTGAAGACC
CTCTTGGCTTTCCCGTGCTCTTTGGGCTCCCCAGAGACCTGACAGTATTAGGGAGTGAAGGGAGGAGGGGCCCTG
GCTATTTGGGACCTAAGCCTAGGCCCCAGAGATCAGCCCGAACACCCGCATCCCTTCTCCTCCCATGGGTCCCT
CCCAGTAGGCAGTAGTCAGAAGCTGGATGGGCTGCCCCCAGCCAGCTCCCAGCAGCTTCTCCGGAAGCTGCTCTTG
CCATAATCAACTCCCTGGGAGTGAAGCCAGATGGCAGCTTGAGATTGGGCAGGAGCATTGATCTTCTTTTAC
CTCCCTGCCATGCTGGGGTCTTACCAGCCTGGATCTGAGCTCTGTGCCCCCAGCCGGGTGTTCCAGCCTGAG
CACCGGGCTTTGGTGCACAGGCCTTGGAGACCCCTGGTCCACCCCTGCCGTGAAGCCCCAGGCCCACTTCCCA
AGAATCTCACTTCTCAGGGCCTCTGTTCTCCTCTCCACTGGGCCAAATAGCCTGGCCCTCCCTCCTTGGCATT
ATGGGGGAGCCAGGAACCCCCACACCTATGGGGTTAGAGCTCCTCCTTTCTTCTCACTCCTTCCCTTCTCTC
CTCCATGCCCACTCCCCCTGCCTCCAGCAGGCCAGGAAGAAGGCACAGTCCAGGCAAGTCTGGGAGCTTCCAAGC
CCTTGAGGTCCAGCTGTGGGGCCCCAATGACAGCCTTACAAGGGTTCTACCAGAGAGGAAAATTCCACATCCAC
CAGAAGACAGGGGTGTTGGCAGGCATACTCCTATCTCCTCCTTGGCTCTCAATGCTGAGGCTTGAGAGGCAT
CCCAGCGGCACCAGCCTCCCAGTGCACAGCTTCCCTCCCTCCTTCACTCTCCTCTCCCTCCCTGCCCTTGCCCT
CACCTCCTCTTCTAGACTGCATTAGATTCACTCATCTCATTGCCAGGACATGTTGGCCAGAGGTCTGGGCCCAT
CCCAGGCCTCAAGGCCCTCCAGGCCTGTGGGGAGCACTGGAGGGTTACTGACTCTCTGGCCATGGGAACTCAGAG
ATTCTCATCCCCAAAGTCCCAAAAGAGGGTGCTGATTGGTGCTTTTCTCAGGCTCTTCAATTGGTTTCCAAGGA
GCAATCCTCAGTGGGGATACAAGACATATAAAGTATATATTATTTTTTCATACTTATGTGGCTTTTAACTTAT
TGCTTCCCTTCTGTCTGTGATGATCAGTCTGTATGTACTATCTGGAAAGATAACATACTCCAGCCACCTCA
CCTGATTGGCTATCTTGGGGCCATGTCCCTTCTTGCTGCCACAGGATGAATAAAGTGTGAGATTGTCTATGG
AGAAAGCTGTGTGTCTGTTTTATCTCCCTCTCAGGACCAGTCAGCCACTGGTCAATCAGGCTGATCATGGAAC
ATTAGGAATTCTCCAATTAAGGGAGAAAAAGTCCAGGGACTTAGTTATATCTTCAGACCAGTGCAGCTGGTACAC
ACAAAGTTCTCCTGTCTCACCATCTGATATGGTTTGGATGCTCGTCCCTCCAAATCTCATGTTGAAATGTAATT
CCCAGTGTGGAGTGGAGCCTGGTGGGAAGTATTTGGATCATGAGAGAGGATCCTTCATGAATGGCTCAGCACC
ATCTCCTTGGTGATGAGTGAATCTCACTCAATTACATAGATATGGTTGTTTAAAGAGTCTGAGACCTCTCCC
CTCTTTCTCGCCATGTGATATGCCTGCTCCCCCTTACCTTCCGCCTTTACTGTAAGCTTCTGAGGCCCTCACC
AGAAGCTGAGCAAAATGTTGGTGCCATGCCAGTACAGCCTGCAGAATTGTGAGCCAAAATAAATGTCTTTCTTTA
TAAATTA

3806/5332
FIGURE 3323

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCGTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC
CGGGGCAGTGGAAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCGAGAC
ACCCGAGGAGTCCGTTCCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT
TGAAGCGTACCTGCCGAGGTGCGACCAGGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG
TGCTCCAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCCTGTCTTTATCCTAGTTCCACACCT
TGGTGTGGGTTACTGGGTGCAGGATGAAGTGTGCTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGCTTCTGCACCGCAGCACAGGCAAGTTCCACTACAAGAAGGAGG
GCACCTACTCCATTGGCACCGTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACTTATGTGCGTGTCT
CTTCTGAGGAACTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG
ATGGGCTGGGGCAGATGTCTTGGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA
AGGTGGGTGAGAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA
TGCCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCTTGCCC
TCTGAGCGTCGCTGGATCTCTGGGAGCTCCTTGATGGTCCCAGACCTTGGCTTTTGGGAATTGCACCTTTGGGC
CTTTGGGCTCTGGAACCTGCTCTGGGTCAATTGGTGAGACTTGAAGGGGCAGCCCCGCTGGCTTCTTGGTTTG
TGGTTGCCAGCCTCAGGTCATCCTTTAATCTTTGCTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC
TGGTGGGGTCCCCCTTCTTCTCCACTGTACAGAAGAGCCACCCTGGGATGGGAATAAAGTTGAGAACATG

3807/5332
FIGURE 3324

GAAACTTGGGGGAGTGACAGAAGAACTTCGGGAGCGCACGCGGGACCAGGGACCAGGCTGAGACTCGGGGCGCC
AGTCCGGGCAGGGGCAGCGGGAGCCGGCCGAGATGCCCTGTATCCAAGCCCAATATGGGACACCAGCACCAGT
CCGGGACCCCGTGACCACCTGGCAAGCGACCCCTGACCCCTGAGTTTCATCAAGCCCACCATGGACCTGGCCAGC
CCCGAGGCAGCCCCCGCTGCCCCACTGCCCTGCCAGCTTCAGCACCTTCATGGACGGCTACACAGGAGAGTTT
GACACCTTCCTCTACCAGCTGCCAGGAACAGTCCAGCCATGCTCCTCAGCCTCCTCCTCGGCCTCCTCCACATCC
TCGTCTCAGCCACCTCCCTGCCTCTGCCTCCTTCAAGTTTCGAGGACTTCAGGTGTACGGCTGCTACCCCGGC
CCCTGAGCGGCCAGTGGATGAGGCCCTGTCTCCAGTGGCTCTGACTACTATGGCAGCCCTGCTCGGCCCGC
TCGCCCTCCACGCCCAGCTTCAGCCGCCCCAGCTCTCTCCCTGGGATGGCTCCTTCGGCCACTTCTCGCCCAGC
CAGACTTACGAAGGCCTGCGGGCATGGACAGAGCAGCTGCCCAAAGCCTCTGGGCCCCCAGCCTCCAGCCTTC
TTTTCTTCAGTCTCCACCGGCCCCAGCCCCAGCCTGGCCCAGAGCCCCCTGAAGTTGTTCCCTTCACAGGCC
ACCCACCAGCTGGGGGAGGGAGAGAGCTATTCCATGCCTACGGCCTTCCAGGTTTGGCACCCACTTCTCCACAC
CTTGAGGGCTCGGGGATACTGGATACCCCGTGACCTCAACCAAGGCCCGGAGCGGGGCCCCAGGTGGAAGTGAA
GGCCGCTGTGCTGTGTGTGGGACAACGCTTCATGCCAGCATTATGGTGTCCGCACATGTGAGGGCTGCAAGGGC
TTCTTCAAGCGCACAGTGCAAAAAACGCCAAGTACATCTGCCTGGCTAACAAGGACTGCCCTGTGGACAAGAGG
CGGCGAAACCGCTGCCAGTTCTGCCGCTTCAGAAAGTGCCTGGCGGTGGGCATGGTGAAGGAAGTTGTCCGAACA
GACAGCCTGAAGGGGCGGCGGGGCCGGCTACCTTCAAACCCAAGCAGCCCCCAGATGCCTCCCTGCCAATCTC
CTCACTTCCCTGGTCCGTGCACACCTGGACTCAGGGCCCAGCACTGCCAACTGGACTACTCCAAGTTCCAGGAG
CTGGTGCTGCCCCACTTTGGGAAGGAAGATGCTGGGGATGTACAGCAGTTCTACGACCTGCTCTCCGGTTCTCTG
GAGGTATCCGCAAGTGGGCGGAGAAGATCCCTGGCTTTGCTGAGCTGTACCGGCTGACCAGGACCTGTTGCTG
GAGTCGGCCTTCCTGGAGCTCTTCATCTCCGCTGGCGTACAGGTCTAAGCCAGGCGAGGGCAAGCTCATCTTC
TGCTCAGGCCTGGTGCTACACCGGCTGCAGTGTGCCCGTGGCTTCGGGGACTGGATTGACAGTATCCTGGCCTTC
TCAAGGTCCCTGCACAGCTTGCTTGTGATGTCCCTGCCTTCGCCTGCCTCTCTGCCCTTGCTCTCATACCGAC
CGGCATGGGCTGCAGGAGCCGCGGGCGGTGGAGGAGCTGCAGAACCGCATCGCCAGCTGCCTGAAGGAGCACGTG
GCAGCTGTGGCGGGCGAGCCCCAGCCAGCCAGCTGCCTGTACGTCTGTTGGGCAAAC TGCCCGAGCTGCGGACC
CTGTGCACCCAGGGCCTGCAGCGCATCTTCTACCTCAAGCTGGAGGACTTGGTGCCCCCTCCACCCATCATTGAC
AAGATCTTCATGGACACGCTGCCCTTCGACCCCTGCCTGGGAACACGTGTGCACATGCGCACTCTCATATGCCA
CCCCATGTGCCTTTAGTCCACGGACCCCCAGAGCACCCCCAAGCCTGGGCTTGAGCTGCAGAATGACTCCACCTT
CTCACCTGCTCCAGGAGGTTTGAGGGAGCTCAAGCCCTTGGGGAGGGGGATGCCTTCATGGGGGTGACCCACG
ATTTGTCTTATCCCCCCCAGCCTGGCCCCGGCCTTTATGTTTTTTGTAAGATAAACCGTTTTTAACACATAGCGC
CGTGCTGTAAATAAGCCCAGTGCTGTGTAAATACAGGAAGAAAGAGCTTGAGGTGGGAGCGGGGCTGGGAGGAA
GGGATGGGCCCCGCCTTCCTGGGCAGCCTTTCAGCCTCCTGCTGGCTCTCTCTTCTTACCCTCCTCCACATGT
ACATAAACTGTCACTCTAGGAAGAAGACAAATGACAGATTCTGACATTTATATTGTGTATTTTCTGGATTTAT
AGTATGTGACTTTTCTGATTAATATATTTAATATATTGAATAAAAAATAGACATGTAGTTG

3808/5332
FIGURE 3325

ATGAGGCTCCTCCGCAGACGCCACATGCCCCCTGCGCCTGGCCATGGTGGGCTGCGCCTTTGTGCTCTTCCTCTTC
CTCCTGCATAGGGATGTGAGCAGCAGAGAGGAGGCCACAGAGAAGCCGTGGCTGAAGTCCCTGGTGAGCCGGAAG
GATCACGTCCTGGACCTCATGCTGGAGGCCATGAACAACCTTAGAGATTCAATGCCCAAGCTCCAAATCAGGGCT
CCAGAAGCCAGCAGACTCTGTTCTCCATAAACAGTCCTGCCTCCCTGGGTTCTATACCCAGCTGAACTGAAG
CCCTTCTGGGAACGGCCACACAGGACCCCAATGCCCTGGGGCAGATGGAAAAGCATTTTCAGAAGAGCAAGTGG
ACCCCCCTGGAGACCCAGGAAAAGGAAGAAGGCTATAAGAAGCACTGTTTCAATGCCTTTGCCAGCGACCGGATC
TCCCTGCAGAGGTCCCTGGGGCCAGACACCCGACCACCTGAGTGTGTGGACCAGAAGTTCCGGCGCTGCCCCCA
CTGGCCACCACCAGCGTGATCATTGTGTTCCACAACGAAGCCTGGTCCACACTGCTGCGAACAGTGTACAGCGTC
CTACACACCACCCCTGCCATCTTGCTCAAGGAGATCATACTGGTGGATGATGCCAGCACAGAGGAGCACCTAAAG
GAGAAGCTGGAGCAGTACGTGAAGCAGCTGCAGGTGGTGGGGTGGTGGCGCAGGAGGAGCGGAAGGGGCTGATC
ACCGCCCGGCTGCTGGGGGCCAGCGTGGCACAGGCGGAGGTGCTCACGTTCTGGATGCCACTGTGAGTGCTTC
CACGGCTGGCTGGAGCCCTCCTGGCTCGAATCGCTGAGGACAAGACAGTGGTGGTGGAGCCAGACATCGTCACC
ATCGACCTTAATACTTTTGAGTTCGCCAAGCCCGTCCAGAGGGGCAGAGTCCATAGCCGAGGCAACTTTGACTGG
AGCCTGACCTTCGGCTGGGAAACACTTCTCCACATGAGAAGCAGAGGCGCAAGGATGAAACCTACCCCATCAAA
TCCCCGACGTTTGCTGGTGGCCTCTTCTCCATCTCCAAGTCTACTTTGAGCACATCGGTACCTATGATAATCAG
ATGGAGATCTGGGGAGGGGAGAACGTGGAAATGTCCTTCCGGGTGTGGCAGTGTGGGGGCCAGCTGGAGATCATC
CCCTGCTCTGTCGTAGGCCATGTGTTCCGGACCAAGAGCCCCACACCTTCCCCAAGGGCACTAGTGTATTGCT
CGCAATCAAGTGCCTGGCAGAGGTCTGGATGGACAGCTACAAGAAGATTTTCTATAGGAGAAATCTGCAGGCA
GCAAGATGGCCCAAGAGAAATCCTTCGGTGACATTTCCGAACGACTGCAGCTGAGGGAACAACCTGCACTGTCAC
AACTTTTCTGGTACCTGCACAATGTCTACCCAGAGATGTTTGTCTCTGACCTGACGCCCACCTTCTATGGTGCC
ATCAAGAACCTCGGCACCAACCAATGCCTGGATGTGGGTGAGAACAACCGCGGGGGAAGCCCCCTCATCATGTAC
TCCTGCCACGGCCTTGGCGCAACCAAGTACTTTGAGTACACAACCTCAGAGGGACCTTCGCCACAACATCGCAAG
CAGCTGTGTCTACATGTACGAAGGGTGCTCTGGGCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCAGGTC
CCCAAGGACGAGGAATGGGAATTGGCCCAGGATCAGCTCATCAGGAACCTCAGGATCTGGTACCTGCCTGACATCC
CAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCCAGTGACCCCATCAGTTGTGGCTCTTTGTCTAGGACCCA
GATCATCCCCAGAGAGAGCCCCCAAGCTCCTCAGGAAACAGGATTGCTGATGTCTGGGAACCTGATCACCAGC
TTCTCTGGAGGCCGTAAAGATGGATTTCTAAACCCACTGGGTGGCAAGGCAGGACCTTCCTAATCCTTGCAACAA
CATTGGGCCCATTTCCTTTCCTTACACCGATGGAAGAGACCATTAGGACATATATTTAGCCTAGCGTTTCCTG
TTCTAGAAATAGAGGCTCCCAAAGTAGGGAAGGCAGCTGGGGGAGGGTTCAGGGCAGCAATGCTGAGTTCAAGAA
AAGTACTTCAGGCTGGGCACAGTGGCTCATGCCTGAAATCCTAGCACTTTGGGAAGACAATGTGGGAGAATGGCT
TGAGCCCAGGAGTTCAAGACCGGCCTGAGCAACATAGTGAGGATCCCATCTCTACGCCCACCCTCCCCCGGCA
AAAAAAAAGCTGGGTATGGTGGCTTATGCCTGTAGTCGCAGTACTCAGAAGGCTGAGGTGGGAGGATTGCTTG
TTCCCCGAGGTTGAAGCTACAGTGAGCCTTGATTGTGTCACTGCACTCCAGCCTGGGCAACAGGTAAGACTCTG
TCTCAAAAAAACAAGAAAGAAAGAAAGTACTTCTACAGCCATGTCCTATTCTTGTATCATCCAAAGCACC
TGCAGAGTCCAGTGAAATGATATATTCTGGCTGGGCACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGC
CAAGGCAGGTGGATCACCTGAGGTGAGAAGTTTGAACAGCCTGGACTACATGGTGAACTCCATCTCTACTAA
AAGTACAAAATTAGCTGGGCATGATGGCACGCACCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATC
ACTCGAACCAGGAGGCAGAGGTTGCAGTGAGCCAAGACAGCACCATTGCACCCAGCCTGAGCAACAAGAGCGA
AACTCCATCTCAGG

3809/5332
FIGURE 3326

CGCGGGGCCAGGGCGGCGGCCCCAGGGAGTTGGCAGGATGGCAGAGGGCAAGGCAGGCGGCGGCGGCGGCTCT
TCGCCAAGCAGGTGCAGAAGAAGTTTAGCAGGGGCCAGGAGAAGGTGCTGCAGAAATTGGGGAAAGCTGTAGAAA
CCAAAGATGAACGATTTGAACAAAGCGCTAGCAACTTCTACCAACAACAGGCAGAAGGCCACAAGCTGTACAAGG
ACCTGAAGAACTTCCTTAGTGCAAGTCAAAAGTGATGCATGAAAGTTCAAAAAGAGTGTCAGAAACCTGCAGGAGA
TCTACAGCAGCGAGTGGGACGGTCATGAGGAGCTGAAGGCCATCGTATGGAATAATGATCTCCTTTGGGAAGACT
ACGAGGAGAACTGGCTGACCAGGCTGTAAGGACCATGGAAATCTATGTTGCCCAGTTCAGTGAAATTAAGGAGA
GAATTGCCAAGCGGGGTCGGAAACTCGTGGACTATGACAGTGCCCGACACCACCTGGAGGCAGTGCGAATGCCA
AGAAGAAAGATGAGGCCAAGACTGCCAAGGCAGAGGAAGAGTTCAACAAAGCCCAGACTGTGTTTGAAGATCTGA
ACCAAGAATACTAGAGGAGCTGCCTATTCTTTATAATAGTCGTATTGGCTGCTATGTGACCATCTTCCAAAACA
TTTCCAACCTTGAGGGATGTCTTCTACAGGGAAATGAGCAAGCTGAACCACAATCTCTACGAGGTGATGAGCAAC
TGGAGAAGCAACATTCCAATAAAGTCTTTGTGGTGAAGGGACTGTCAAGCAGCAGCAGGCGCTCTTTAGTCATT
CTCCCCCAGTTCGAACAGCTACAGTCTCCAGTCTCTTACCTCACCTACTAGTCCCTCTACACTTTCTTGAAGA
GTGAGAGTGAATCTGTCTCAGCAACTGAAGATCTGGCACCTGATGCAGCCCAAGGGGAAGACAATTCTGAGATCA
AGGAGCTCTTAGAAGAGGAGGAAATAGAGAAGGAAGGATCTGAAGCAAGCTCCTCTGAGGAAGATGAGCCTCTAC
CAGCCTGCAATGGCCCCGCCAGGCCAGCCCTCTCCTACCACTGAAAGGGCCAAGTCCCAGGAGGAAGTTCTCC
CCAGCTCCACAACCTCCATCACCAGGCGGAGCCCTGAGCCCTTCAGGGCAGCCTTCATCATCTGCCACAGAAGTAG
TCCTCCGAACCCGCACCGCAAGTGAAGGATCTGAACAACCAAGAAGAGAGCCTCTATCCAGAGGACCTCAGCAC
CCCCTAGTAGGCCTCCTCCACCCAGAGCCACTGCAAGCCCCAGGCCCTCCTCAGGGAACATACCTTCCAGCCCTA
CAGCCTCTGGAGGGGGTTACCCACCAGCCCTAGGGCCTCCTTGGGGACTGGGACTGCAAGTCCTAGGACCTCCC
TAGAGGTCTCTCCTAATCCAGAACCACCAGAGAAGCCAGTAAGAACTCCTGAGGCCAAAGAAAATGAAAACATCC
ACAATCAGAACCCTGAAGAACTTTGTACTTCCCCCACCTTAATGACATCTCAGGTTGCTTCAGAGCCTGGAGAGG
CAAAGAAGATGGAAGACAAGGAAAAGGATAATAAGCTTATCTCAGCTAACTCCTCGGAGGGCCAAGACCAGCTTC
AAGTCTCCATGGTACCAGAAAACAACCTCACAGCACCTGAACCTCAAGAAGAGGTATCCACAAGTGAAGATC
CACAACCTCTGAAGAGAACTACCAAGACTCCTCCTGCCCAAACCTCGCCAGAGAAGCTCTTCAACCAGAGGGTA
TAGGTCAGAGGGATATAAGAGCCAGCATCCATCCCTGGGTTCTCAGTAGGAATGCTGGTGCTGTCTAAAGACCTG
GCATTAATGGAGGCGGAGGAGCAGCCTTACGGGAGGGATGGAGGGAGGCAGGCTGGGGAGAAGAGAACATTAGAC
TCAGGGAATATTTAATCTGGTTTTAGCATTATTAGAATAAGACTTTATACATTAATAAGTGGAGCTTTAATC
ACTATAAAAAGCAAAGTATCTATAGACACAGACACTTGCCTATACAGAGACATAACCACACACACTCAGAGGAT
AGTGAACAAATCTGTCTTTGACTTACGACCCATTTTGCAAGACTTAAAGCCGGAAGAACACATTTTCAGATTGTT
AAATAAAGTCTGATTCTGACT

3810/5332
FIGURE 3327

GCCGGAGAGCCGGGTCGCCCACATTGCGCGCAGCCACCTCGGCCGTGGCAGGAACCGAAACCCGGAGCGGCCGAA
GCTCAGCGCTCCGCTGGGGCAGAGGGTCGCGGCGGCTGGGAACGCGCTCCCCGACGCACCGGCCGCCCCCAGCG
CAGCGCGCTCCGCGGGGTGCTGATCTGCCTCTTCTCCAAGAACTCAACCACTAGTGACAATGACCAGCCTCCTG
ACTACTCCTTCTCCAAGAGAAGAACTGATGACCACCCCAATTTTACAGCCCACTGAGGCCCTGTCCCCAGAAGAT
GGAGCCAGCACAGCACTCATTGCAGTTGTTATCACCGTTGTCTTCTCACCCCTGCTCTCGGTCGTGATCTTGATC
TTCTTTTACCTGTACAAGAACAAGGCAGCTACGTACCTATGAACCTACAGAAGGTGAGCCCAGTGCCATCGTC
CAGATGGAGAGTGACTTGGCCAAGGGCAGCGAGAAAGAGGAATATTTTATCTAATGACTCCCAGGCCCAAGGAG
CTTATTCCTGGCTCCATCGCTAACACGTGACTGCTTATTATGGGAAAGTTTTCTCTGAAGCCAGGGAGAAGCAT
TGATTGATGTGGGCAAATCCAAGCTCCAGCCAGGTCGCAGTCCCAAATGCCGACATCACTGACTCCAGGGACCAG
GGACATGGAGAAAGCTGTTTATGATATCTTTAACCAGGCCCTCTTACTAGAGCTGGTGTTTGTGACTGGCCAACA
AGATGTGGCTATGCCAGGGGACATCTGAGTATGTGCCAGTCATCTTTTTTACAGGTTGAAGGGAGAGAAAAGA
TTTTGAGTTAAGGTCATTGGCTGCTCTACTCTGTCCCCTACCTGGTCACCTAGTGATAGCCCCAGTGAGATACT
GTCCATACAAGGTCTTCCAGAGGCTGGATACCACAGTAAAAGGCCAGGCCAGGAGGGGTAGGAGACTATGGAGA
TCTTACCTCCTGATAAATGTGCTACACCCCTAATCTGAGCCCTTCTTTCCGTGTTCCCCAACCAACCTCATGCT
TACGTGATTTTATTCAAATTAATAATTTTATTGCTACAG

3811/5332
FIGURE 3328

GACTTGCTCCGGTTTGCAGAGCTAGGAGGTGGCAGGCTGTGCGCTCAAACCTCAGGCTGTCTAACTCCACATTCTG
TGGGGTGAGAGGATGGGTGATGGGGTGTCTTTTCTGGAGGAGGGAGGTGCTGTGAGCCTAGCGAGATGGAGGTAC
AGTGGGTGTGGGCCTGGAGCGCTGGGCCCAGGCAGGGGCTTCTGATTAGGAAGCCCTGGGGCACCAGTTCAGGTT
CTCCCAGAGAGTAGTGTGATGGGATCCAGTAACCTGTGCCCTCCAGATGACTTCTGTAGGTGTGTTTAGTGACAT
GCTCAACGGGTGCGGGAAGGATGGGCTTGTGCCAAGGGCCAAGCCCAGAGATGTTTCAGATTTTTCCCTTTATGC
CCCTGCAACCAAGCCCTGCTGCTCCAGGACATATAAGAGACGAAGGCTGAGGGCTCCAGCACTACCCGGCCTGGG
CCCTGTCACTTCTCTGATAGCTCCAGCTCGCTCTCTGCAGCCATGATTGCCAGACAGCAGTGTGTCCGAGGCGG
GCCCCGGGGCTTCAGCTGTGGCTCGGCCATTGTAGGCGGTGGCAAGAGAGGTGCCTTCAGCTCAGTCTCCATGTC
TGGAGGTGCTGGCCGATGCTCTTCTGGGGGATTGGCAGCAGAAGCCTCTACAACCTCAGGGGGAACAAAAGCAT
CTCCATGAGTGTGGCTGGGTACGACAAGGTGTCTGCTTTGGGGGTGCTGGAGGCTTGGCACTGGTGGCTTTGG
TGCCGCGGGCTTCGGAGCTGGTTTCGGCACTGGTGGCTTTGGTGGTGGATTGGGGGCTCCTTCAGTGCCTAAGGG
TGGCCCTGGCTTCCCCGCTCTGCCCCGCTGGGGGAATTCAGGAGGTACCATCAACCAGAGCTTGCTCACCCCCCT
CCACGTGGAGATTGACCCTGAGATCCAGAAAAGTCCGGACGGAAGAGCGCAACAGATCAAGCTCCTCAACAACAA
GTTTGCCTCCTTCATCGACAAGGTGCAGTTCTTAGAGCAACAGAATAAGGTCCTGGAGACCAATGGAACCTGCT
CCAGCAGCAGACGACCACCTCCAGCAAAAACCTTGAGCCCCCTCTTTGAGACCTACCTCAGTGTCTTGAGGAA
GCAGCTAGATACTTGGGCAATGACAAAGGGCGCCTGCAGTCTGAGCTGAAGACCATGCAGGACAGCGTGGAGGA
CTTCAAGACTAAGTATGAAGAGGAGATCAACAAACGCACAGCAGCCGAGAATGACTTTGTGGTCTTAAAGAAGGA
CGTGGATGCTGCCTACCTGAACAAGGTGGAGTTGGAGGCCAAGGTGGACAGTCTTAATGACGAGATCAACTTCCT
GAAGGTCCTCTATGGATGCGGAGCTGTCCCAGATGCAGACCCATGTGACGACACGTCCGTGGTCTTTCCATGG
ACAACAACCGCAACCTGGACCTGGACAGCATTATTGCCGAGGTCCGTGCCAGTACGAGGAGATTGCCAGAGGA
GCAAGGCTGAGGCTGAAGCCCTGTACCAGACCAAGGTCCAGCAGCTCCAGATCTCGGTTGACCAACATGGTGACA
ACCTGAAGAACACCAAGAGTGAAATTGCAGAGCTCAACAGGATGATCCAGAGGCTGCGGGCAGAGATCGAGAACA
TCAAGAAGCAGTGCCAGACTCTTCAGGTATCCGTGGCTGATGCAGAGCAGCGAGGTGAGAATGCCCTTAAAGATG
CCCACAGCAAGCGCTAGAGCTGGAGGCTGCCCTGCAGCAGGCCAAGGAGGAGCTGGCACGAATGCTGCGTGAGT
ACCAGGAGCTCATGAGTGTGAAGCTGGCCTTGGACATCGAGATCGCCACCTACCGCAAACCTGCTGGAGGGCGAGG
AGTACAGAATGTCTGGAGAATGCCAGAGTGCCGTGAGCATCTCTGTGGTCAGCGGTAGCACCAGCACTGGAGGCA
TCAGCGGAGGATTAGGAAGTGGCTCCGGGTTTGGCCTGAGTAGTGGCTTTGGCTCCGGCTCTGGAAGTGGCTTTG
GGTTTGGTGGCAGTGTCTCTGGCAGTTCCAGCAGCAAGATCATCTCTACCACCACCCTGAACAAGAGACGATAGA
GGAGACGAGGTCCCTGCAGCTCACTGTGTCCAGCTGGGCCAGCACTGGTGTCTCTGTGCTTCTTCACTTCACC
TCCATCCTCTGTCTCTGGGGCTCATCTTACTAGTATCCCTCCACTATCCCATGGGCTCTCTGCCCCAGGATG
ATCTTCTGTGCTGGGACAGGGACTCTGCCTCTTGGAGTTTGGTAGCTACTTCTTGATTGGGCTGGTGACCCAC
CTGGAATGGGAAGGATGTCAGCTGACCTCTCACCTCCCATGGACAGAGAAGAAAATGACCAGGAGTGTCTATCTCC
AGAATTATTGGGGTCACATATGTCCCTTCCAGTCCAATGCCATCTCCCACTAGATCCTGTATTATCCATCTACA
TCAGAACCAACTACTTCTCCAACACCCGGCAGCACTTGGCCCTGCAAGCTTAGGATGAGAACCACCTTAGTGTCC
CATTCTACTCCTCTCATTCCCTCTTATCCATCTGCAGGTGAATCTTCAATAAAATGCTTTTGTCTTC

3812/5332
FIGURE 3329

CTCTCATCCTGCCCTCCGGCCCCCTCTGCAGCTATGAGGTCCTCCGTCTCTCGGCAAACATACTCCACAAAAGGGG
GCTTCAGCTCCAACTCTGCCAGCGGAGGGAGTGGGTCCCAGGCCCGCACCAGCTTCAGCTCAGTGACGGTGTCTC
GGAGCAGTGGCAGTGGTGGCGGGGCCACTGTGGCCCCGGCAGGTGGCTTTGGCAGCCGAAGCCTCTATAACT
TGGGGGGCCACAAGAGTATCTCTGTCACTGTGGCCGGAGGGGCCCTTGTCTGGGGCGGGCTCTGGGGGGCTTTGGCT
TTGGCAGCAGGGCATTATGGGACAGGGGGCTGGCAGGCAGACGTTTGGGCCTGCTTGTCTCCTGGGGGGATCC
AGGAGGTCACTGTCAACCAGAGCCTGCTGACCCCCCTCCATGTGGAGATTGACCCGAGATCCAGCGAGTGCGCA
CTCAGGAGCGGGAGCAGATCAAGACCCTCAACAACAAGTTCGCCTCCTTCATCGACAAGGTGCGGTTCTGGAGC
AACAGAATAAGGTGCTGGAGACCAAGTGGGCAGTGTGCAGGAGCAGGGCCAGAAGTTGGGTGTCACCAGGAACA
ACCTGGAGCCCCCTCTTTGAGGCCTACCTGGGTAGCATGCGGAGCACGCTGGACAGACTTCAGAGCGAGCGGGGA
GGCTGGACTCAGAGCTCAGGAACGTGCAGGACCTTGTGGAGGACTTCAAGAACAAGTACGAGGATGAAATCAACA
AGCACACTGCTGCAGAGAACGAGTTTGTGGTGTCTCAAGAAGGATGTGGATGCAGCATAACATGGGCCGGATGGATC
TGCATGGCAAAGTGGGCACCTTGACCCAGGAGATTGACTTCCTGCAGCAACTCTATGAAATGGAGCTGAGCCAAG
TGCAGACCCACGTGTCTAACACCAATGTGGTGTCTGTCCATGGACAACAACCGCAACCTGGACCTGGACAGCATCA
TCGCCGAGGTCAAGGCCCAGTATGAGCTGATTGCCAGAGGAGCCGGGCTGAGGCCGAGGCCTGGTACCAGACCA
AGTATGAGGAGCTGCAGGTGACTGCTGGGAAGCATGGGGACAACCTGCGGGACACCAAGAACGAGATTGCTGAGC
TCACCCGCACTATCCAGAGGCTGCAGGGGGAGGCTGATGCAGCCAAGAAGCAGTGTGAGCAGCTGCAGACGGCCA
TTGCGGAAGCGGAGCAGCGTGGGGAGCTGGCACTCAAGGATGCTCAGAAGAAGCTTGGGGATCTGGATGTGGCCC
TGCACCAGGCCAAGGAGGACCTGACACGGCTGCTGCGTGACTACCAGGAGCTGATGAATGTCAAGCTGGCCCTGG
ACGTGGAGATTGCCACCTACCGCAAGCTTCTGGAGAGCGAGGAGAGCAGGATGTCTGGAGAATGGTCCCAGTGCA
GTCAGCATTTGGAGTATTACTCCCCACTTCCTGCTCCACCCCTGGCCAGGCCCCAGAAGCTCTGCTCAGTTTATGC
AACNTGTACNTGTCNTAAAGCATGCTCTCNTCCATTTCGAGCCCCCTGGAGACAGGTTTCAGAGGGTCCTAGTTCTGG
GETTCTCTATCCATTTCCCATAGCTCTGCTGCTTGATTTTGTCTGATTCCCCACTGATCTCTGGGTCTCCCCCA
GCCCTCTCTGGCATGGCCGCCCTGACTAATCCAGACCCTTTGCTTTGCAGCTGTGACTGGCAACTCCACCACTGT
GTGCGGAGGTGGCGCAGCCAGCTTTGGAGGTGGCATCTCCCTGGGTGGGAGTGGGGGGGCCACCAAGGGTGGATT
CAGCACAAATGTGGGCTATAGCACCGTCAAGGGAGGGCCAGTCTCTGCGGGCACCTCCATCCTGCGGAAGACCAC
TACGGTCAAGACGTCCAGCCAGAGGTATTAGCTGCTGAGCCCTGCAAGGGCCCCCTGCAATCCTGTCCCTGCCCTC
CTACCCCACTCTGCTGTCTTTCCAGTCACTTCTCAGGAGCAGGAACAGCCAGGGGACCTCAGACCCAGGGTA
TTTTCATAC

3813/5332
FIGURE 3330

GCTCCTTCTAGGATCTCCGCCTGGTTTCGGCCCCGCCTGCCTCCACTCCTGCCTCTACCATGTCCATCAGGGTGACC
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCGGTTCC
CGCATCAGCTCCTCGAGCTTCTCCCGAGTGGGCAGCAGCAACTTTCGCGGTGGCCTGGGCGGCGGCTATGGTGGG
GCCAGCGCATGGGAGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGGAC
CCCAACATCCAGGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATA
GACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACG
GCTCGAAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT
GAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATGAAGAGGAG
ATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACATG
GACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAGCCGGGCTGAGGCTGAGAGCATG
TACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGCGGGATGACCTGCGGCGCACAAAGACTGAG
ATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTG
GAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGCGGAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGATG
CAGAACATGAGTATTCTATACGAAGACCACCAGCGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCTCACA
AGCCCCGGCCTCAGCTACAGCCTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGCTCCTTCAGCCGCACCAGC
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTCCTG
CCCAAGTGAACAGCTGCGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCCGC
TATGCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCACCTGGGGAGTTTAC
TACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTTTGGTCCAAAATAA
AACCTCAGCTAGCTCTGCCAA

3814/5332
FIGURE 3331

GTCTGTCGCAAAGCCTGAGTCCTGTCTCTTTCTCTCTCCCCGGACAGCATGAGCTTCACCACTCGCTCCACCTTCT
CCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAGCG
TCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGGGGCGGCATGGGGT
CCGGGGGCTGGCCACCGGGATAGCCGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGC
AAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACCGAGAACCGGAGGCTGGAGA
GCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCAGGTCAGAGACTGGAGCCATTACTTCAAGATCATCGAGG
ACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGTCTTG
CTGCTGATGACTTTAGAGTCAAGTATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCATGGGC
TCCGCAAGGTCATTGATGACACCAATATCACACGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAGGAGC
TGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCG
TGGAGGTAGATGCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGAGCTGG
CTCGGAAGAACCGAGAGGAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGGTCACCACAC
AGTCTGCTGAGGTTGGAGCTGCTGAGACGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATCGACC
TGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGGCCGCTACGCCCTACAGA
TGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGCCAGG
CCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTGCTGG
AAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGGACAGCAGCAACTCCATGCAAACCATCCAAAAGACCACCA
CCCGCCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGGCATTAAGCCAGCAGAA
GCAGGGTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTTCAGAGTTTATTGGATGTC

3815/5332
FIGURE 3332

AGATAAGAGCTGGACGGAGGCTAAAGCGGCAGCCCCAGCTTCGCGCCCCGCCAGTCCCTTTCCCCTGCTGGGGA
TCCCCCTCTTCCCCGCCACCCCTTACCCGCATGCAGCCAGCGCCCTATGCTAGCCCTCCCCCTCCCCCCTG
CTGGAGCGGGGCGCCGGGGGAGGGGGAATCGGCTGCGGGTCCTTGGTGTTTCCAGCACCCAGTTTCCCT
TCAAGCCGGGTCGCGATGTACGACTGTATGGAAACGTTTGCCCCGGGTCCGCGACGGCTGTACGGGGCGGCCGGG
CCCGGGGCCGGCTTGCTGCGCAGAGCCACCGCGGCTCCTGTTTCGCCGGACTTGAATCTTTTGCCTGGCCGCAA
CCCGCCAGCCTGCAATCGGTGGAGACACAGAGCACCAGCTCAGAGGAGATGGTGCCAGCTCGCCCTCGCCCCCT
CCGCTCCTCGGGTCTACAAGCCATGCTTCGTGTGCAATGACAAGTCTCTGGCTACCCTATGGGGTCAGCTCT
TGTGAAGGCTGCAAGGGCTTCTTTGCGCGAAGCATCCAGAAGAACATGGTGACACGTGTACCGCGACAAAAAC
TGTATCATCAACAAGGTGACCAGGAATCGCTGCCAGTACTGCCGGCTACAGAAGTGCTTCGAAGTGGGCATGTCC
AAGGAAGCTGTGCGAAATGACCGGAACAAGAAGAAGAAAGAGGTGAAGGAAGAAGGGTCACCTGACAGCTATGAG
CTGAGCCCTCAGTTAGAAGAGCTCATCACCAAGGTGAGCAAGCCCATCAGGAGACTTTCCCCTCGCTCTGCCAG
CTGGGCAAGTATACCACGAATCCAGTGACAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTCAGT
GAGCTGGCTACCAAGTGATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGCATT
GCTGACCAGATCACTCTGCTCAAAGCTGCCTGCCTAGATATCCTGATGCTGCGTATCTGCACAAGGTACACCCCA
GAGCAGGACACCATGACCTTCTCCGACGGGCTGACCTGAACCGGACCCAGATGCACAATGCCGGCTTCGGGCCC
CTCACAGACCTTGCTTTTGCCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGGGCTGCTC
AGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTGACAAGCTGCAGGAGCCA
CTGCTGGAAGCCCTGAGGCTGTACGCGCGCGCGCGGCCAGCCAGCCCTACATGTTCCCAAGGATGCTAATG
AAAATCACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAAGGGCCATTACTCTGAAGATGGAGATCCAGGC
CCGATGCCTCCCTTAATCCGAGAGATGCTGGAGAACCCTGAAATGTTTGAGGATGACTCCTCGCAGCCGGTCCC
CACCCCAATGCCTCTAGCGAGGATGAGGTTCTGGGGGCCAGGGCAAAGGGGGCCTGAAGTCCCCAGCCCTGACCA
GGGCCCCTGACCTCCCCGCTGTGGGGGTTGGGGCTTCAGGCAGCAGACTGACCATCTCCAGACCGCCAGTGACT
GGGGGAGGACCTGCTCTGCCCTCTCCCCACCCCTTCCAATGAGCTCCTTGTTTTTGCCAAAGTTTCTAGGGGTGC
CTCTGTGTTTCATCCCTTCTCTGATCTAACCGGCTCCCTCGCCAGTCCCGGGGGCCTGCCCTGCTCCCACCAGGAG
AGAGGGCAAAGGGATGAGCCTGGGTTTGGACTCTAAAATCTCAGCACTGCCCCATGGGTCTTAGACTTCCCAGGG
CAAGAGGAAGACCTGCCATTCCACAGCCCCCTTCTCTGCCAGGTGCTTGGCTCTCTGAGAGCAAACAGGAACAC
TAGAGACCAAAAAGGGGACAAAGGAGAAGGGCTGAGCCACCTTCTTGCTCCTACCCTTGGTGCTAATGCTGTG
TGATGCACCTGCAGGGTGTGTGCTAGCCTCTGTGCCCGTCTTGTGCCAGGTCAAGGTGGGGGCAGGCTGGGCC
CTGCATTTCTGGGGCAGGAACAGAGGGTGAAAGGGACAGATAGATGCAGGTCCATTCTGCACCTCTTGGCTCGGG
TGCAGAGTTCACCTGTGCCCTCCGTTATAAGTCCCTCCCCAGCCCTGTCATGTGCCTTGGGCTCCTCCTGCC
TCCATCTCAGCCATTGGGGCAGGGACCTCCTACACTACAGAGGGGCCAGGGGATCCCTCTCTCCTAGTGCCTT
CCACCTTTTACTCCCCAGAGCAGCTTGGCCCAGGGAGGGGGGATGCTGCTTAGCTGATCCCGCCCTGACCCAGAG
GAAGCCTCTATTTATTTATTAGCTTTTGTTTACACCGTGGAATTGACCCCTTCTCCAGGGGTCTTGGGTGGGG
AGCCCAGGGCCCCGTGACCCCTCCTTTCTTCTCCAATCCCCAGTTTGATTTAGCTGCCAAATAAGATTCCCA
TTGGCTCCCTGTGTTCTTGGGGGGTCAGGGTGTGTCCCTCCCTCTGTTTACATCTCCCCTCTACCCCGCT
GTATCGCATATTGCTGAGTTTTCTATTTTGCAAAATAAAGTGATGGAACTC

3816/5332
FIGURE 3333

GCTTGGGGACGCACGGAGAGGTGCAGCTGGGCCGTCCAGCATCAAACACTAGCCTCCACACGTGGAAAAGACCCT
GACTCCACAGTAGACTAGTCTTATGGGAGTCCTGGCTCTTGGGCCAGGCTGCATTAGGAAAATGGAAACCAGAC
TGTCTTCAAATTCTTCTGCCTAGCCTTAGCCATTAGAGAGAGGTCTGCTAAAGATGGACTGCAAATGCGCTTGA
TGAAGGAGATGTCATTCCACTGAAGTCCTCATTCTGCTGAGCTACCTGTGCACCCTGCCTCCGGCTCTCCTG
AGCAGAGAGATCCTGATGGCTGACTCAGAAGCACTCCCCTCCCTTGCTGGGGACCCAGTGGCTGTGGAAGCCTTG
CTCCGGGCCGTGTTTGGGGTTGTTGTGGATGAGGCCATTAGAAAGGAACCAAGTGTCTCCAGAAGGTCTGTGAG
TGAAGGAGCCTGAGGAGCTGAAGCAGCTGCTGGATTGGAGCTGCGGAGCCAGGGCGAGTCACAGAAGCAGATC
CTGGAGCGGTGTGCGGCTGTGATTGCTACAGTGTCAAGACTGGTCACCCTCGGTTCTTCAACCAGCTCTTCTCT
GGGTTGGATCCCCATGCTCTGGCCGGGCGCATTATCACTGAGAGCCTCAACACCAGCCAGTACACATATGAAATC
GCCCCCGTGTGTTGTGCTCATGGAAGAGGAGGTGCTGAGGAACTGCGGGCCCTGGTGGGCTGGAGCTCTGGGGAC
GGAATCTTCTGCCCTGGTGGCTCCATCTCCAACATGTATGCTGTAAATCTGGCCCGCTATCAGCGCTACCCGGAT
TGCAAGCAGAGGGGCTCCGCACACTGCCGCCCTGGCCCTATTACATCGAAGGAGTGTCACTACTCCATCCAG
AAGGGAGCTGCGTTTCTGGGACTTGGCACCGACAGTGTCCGAGTGGTCAAGGCTGATGAGAGAGGGAAAATGGTC
CCCGAGGATCTGGAGAGGCAGATTGGTATGGCCGAGGCTGAGGGTGTGTGCCGTTCTGGTCACTGCCACCTCT
GGCACCACTGTGCTAGGGGCCCTTGACCCCTGGAGGCAATTGCTGATGTGTGCCAGCGTCATGGGCTATGGCTG
CATGTGGATGCTGCTGGGGTGGGAGCGTCCTGCTGTACAGACACACAGGCATCTCCTGGATGGGATCCAGAGG
GCTGACTCTGTGGCTGGAATCCCAACAAGCTCCTCGCAGCAGGCCCTGCAATGCTCTGCACTTCTTCTCCAGGAT
ACCTCGAACCTGCTCAAGCGCTGCCATGGGTCCCAGGCCAGCTACCTTTCCAGCAGGACAAGTTCTACGATGTG
GCTCTGGACACGGGAGACAAGGTGGTGCAGTGTGGCCGCCGTGTGGACTGTCTGAAGCTGTGGCTCATGTGGAAG
GCACAGGGCGATCAAGGGCTGGAGCGGCGCATCGACCAGGCCCTTTGTCCTTGCCCGGTACCTGGTGGAGGAAATG
AAGAAGCGGGAAGGGTTTGAGCTAGTCATGGAGCCTGAGTTTGTCAATGTGTGTTCTGGTTTCGTACCCCCAGC
CTGCGAGGGAAGCAGGAGAGTCCAGATTACCACGAAAGGCTGTCAAAGGTGGCCCCCGTGTCTAAGGAGCGCATG
GTGAAGGAGGGCTCCATGATGATTGGCTACCAGCCCCACGGGACCCGGGGCAACTTCTTCCGTGTGGTTGTGGCC
AACTCTGCACTGACCTGTGCTGATATGGACTTCCTCCTCAACGAGCTGGAGCGGCTAGGCCAGGACCTGTGAGCC
TTCTCTGTCTTGCTGCCGGCCTTGATAACCCCTCACCCGCAGAGTCACTGCATTCCCTCCCAGCCTTTGAGGC
CGGGTGCAGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACTTGAGGTCAGGAGT
TCGAGACCAGCCTGGCCAATAAGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCATGGTGGCCT
GTGCCTGTAAACCCAGCTACTCAGGAGGTTGGGGCAGAATTGCTTGAACCCAGGGGGCAGAGGTTGCAGTGAGCC
GAGATTGCACCCCTGCACTCCAGGCTGGGCAACAGTACGAGACTCTGTTCCAAAAAATAAAAAAGAACAGCCT
TTTTAGGCCACAGTGACCTGCGCAATGTTTATATGCTTTGACCTACTAACTTTCTCCTAACTAAATATTTGATTT
TAGGAGAGTGTTTAAATAAATTACAGTATGTCTATATGATGAAATGTTATTTTGCCATTAAATTTTGTTTACAA
AGATAATTTTATTGACATAAAAAATACTTTAATGTAATTTATGTTGAAAAAGCTGAATACAAGTCTTTATATAG
AGTAATATTTGAGCTGTGTTCAAAAAATACATAGGAAAAGACTGATAAAATGAAATATGGCAAAATGTTAATAGTT
TTCCCTGGAATAGGATAATAGGCAATTTTAAACAGACTCCTTTAAAAAACAAACAAACAAAAAACATAGAC
TTCTTTATATCTTTGAGCTCCCTCCCTTTTATTATGTAATGAATATGTGTGCTTTTGAATAGGAAA

3817/5332
FIGURE 3334

AGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCTGATCCAGAGACAACGGCCCCAATGGGATGGAGCCCCAAAG
GTGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCAGAGTCCCTTCTCCGTG
GCATCTACGCCTATGGTTTAGAGAAGCCGTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTATC
ACGTGATTGCTCAAGCCCCAATCTGGGGCTGGGAAAAATGGCCACATTTGCCATATTGATTCTGCAGCAGATTGAAT
TAGATCTAAAAGCCACCCAGGCCTTGCTCCTAGCACCCACTCAAGAATTGGCTCAGCAGATACAGAAGGTGGTCA
TGGCACTAGGAGACTACATGGGTGCCTCCTGTCATGCCTGTATCAGGGGCACCAACATGCGTGCTGAGGTGCAGA
AACTGCAGACGAAGCTCCTCACATCATTGTGGGTACCCCTGGCCATGTGTTTGATATGCTTAACGGGAGATACCT
GTCTCCCAAATACATCAAGATGTTTGTACTGGACGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGAT
CTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCTGCGATGCCTTCTGATGTGCT
TGAGGTGACCAAGAAGTTCATGAGGGACCTCATTCCGATTCTTGTACGAAGGAAGTGTGACCTTGGAGGGTAT
CCGCCAATTCTACATCAATTTGGAACGAGAGGAGTGGAAAGCTGGACACACTATGTGACTTGTATGAAACCCTGAC
CATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAG
ATTTCACTGTCTTCACCATTTCGTGGAGATATGGACCAAAACGAACAAGACGTGATCTTGAGGGAGTTTCGTTATG
GCTCTAGCAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAACAGGTTTCTTTAGTCACCAAC
TATGACCTTCCCACCAACAGGGAAACCATATCCATAGAATCGGTGAGGTGGACGGTTTGGCCGTAAAGGTGTG
GCTATTAACGTGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATCGAGATCTTCTACAACCTCCTCATTGAG
GAAATGCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCTATCTCG
GGGGGCTGAGGAGCAGCAGGAGTGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCAATTTTTTCTTTGAAT
AAATGTCATTTTTGAGGCAAAA

3818/5332
FIGURE 3335

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT
CAAGCAATCACTATGTC AACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAACTTATT
GGAAAAGCTAAAGAGGCACCATTGTACCCGTTGGAATAGCAGGTTTGCAGCAATTGTTGCATATGGATTATAC
AAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCAAAACCTAAGCCTTAGAAGAAG
AGATGCTGTCTTGGTCTTGTGGACGAGCTTGCTTTAGTTAGACGTCTCATTATTGAAGTTACTATTATTGTTGG
AAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGGCTTGAT
TTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGAAGTCAAGTTAACTTAAACAG
TCAACTAAACGCACCTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTAAAGATGAAGTGAAGTTCTAAAGAAGA
TAACAGGCCAATCCTGAAGGTACTCCCAGTTTGCTGCAGAATCTCACATATTTTGGATGTTGTATAAGAGTCCTA
TTTGCCCCAGTTAATTCAACTTTTGTCTGCCGTCTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCCAAAAAG
TGCATGGAATATAACTTGTAAAGCTTCCCACAATTGACAATATATGTGCATGTGTTAAGCCAAATCCAGAAAGC
TTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACAACTGTAAACATGAGAATAACTTAAGGATTCTA
GTTTAGTTTTTTGTAATTGCAAATTATATTTTGTCTGCTGATATATTAGAATAATTTTAAATGTCATCTTGAAA
TAGAAATATGTATTTAAGCACTCATGCAAAGGTAAATGAACACTTTTTAAATGTGTGTTGCTTATTTTTTCCAT
AAGAATTGTAAACATTGAAGTGAACAAATTACCTATAATGGATTTGATTAATGACTAATGAGCAAGCGGGTTTGG
CCAGACAGTATACCCAACTTTTATATAGTATACAGAAGGCTATCACACTTGTGAAATTCTCTGTCTAATCCGA
ATTTGCATTCCATGGTGATAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGTC

3819/5332
FIGURE 3336

GCAGCTGCGCTGCGACTGCTCTGGAAGGAGAGGACGGGGGCACAAACCCTGACCATGACCCCCCACAGGCTGCTGC
CACCGCTGCTGCTGCTGCTAGCTCTGCTGCTGCTGCCAGCCAGGAGGCGCCTTGCGCGGGTGGCCAGGCTGCG
GGCAAGGGGTGCAGGCGGGTTGTCCAGGGGGCTGCGTGAGGAGGAGGATGGGGGGTCCGCCAGCCGAGGGCTGCG
CGGAAGCTGAGGGCTGTCTCAGGAGGGAGGGGCAGGAGTGCGGGGTCTACACCCCTAACTGCGCCCCAGGACTGC
AGTGCCATCCGCCCAAGGACGACGAGGCGCCTTTGCGGGCGCTGCTGCTCGGCCGAGGCCGCTGCCTTCCGGCCC
GCGCGCCTGCTGTTGCAGAGGAGAATCCTAAGGAGAGTAAACCCCAAGCAGGCACTGCCCCGCCACAGGATGTGA
ACCGCAGAGACCAACAGAGGAATCCAGGCACCTCTACCACGCCCTCCCAGCCCAATTCTGCGGGTGTCCAAGACA
CTGAGATGGGCCCATGCCGTAGACATCTGGACTCAGTGCTGCAGCAACTCCAGACTGAGGTCTACCGAGGGGCTC
AAACACTCTACGTGCCCAATTGTGACCATCGAGGCTTCTACCGGAAGCGGCAGTGCCGCTCCTCCCAGGGGCAGC
GCCGAGGTCCCTGCTGGTGTGTGGATCGGATGGGCAAGTCCCTGCCAGGGTCTCCAGATGGCAATGGAAGCTCCT
CCTGCCCCACTGGGAGTAGCGGCTAAAGCTGGGGGATAGAGGGGCTGCAGGGCCACTGGAAGGAACATGGAGCTG
TCATCACTCAACAAAAAACCGAGGCCCTCAATCCACCTTCAGGCCCCGCCCATGGGCCCCCTACCGCTGGTTGG
AAAGAGTGTTGGTGTGGCTGGGGTGCAATAAAGCTGTGCTTGGGGTC

3820/5332
FIGURE 3337A

GCTGGCCGCTCTGCGCACCCCTCTCTCCCTCGGCTCTTTCTAGGAAAGCTGAGCCTCATAGCTTCCGGGAGAAGG
TTTTCCGGAAGAAACCTCCAGTCTGTGCAGTATGTAAGGTGACCATCGATGGGACAGGCGTTTCGTGCAGAGTCT
GCAAGGTGGCGACGCACAGAAAATGTGAAGCAAAGGTGACTTCAGCCTGTGAGGCTTGCCTCCCGTGGAGTTGC
GGCGAAACACGGCCCCAGTCAGGCGCATAGAGCACCTGGGATCCACCAAATCTCTGAACCACTCAAAGCAGCGCA
GCACTCTGCCCAGGAGCTTCAGCCTGGACCCGCTCATGAGCGGCGCTGGGACTTAGACCTCACCTACGTGACGG
AGCGCATCTTGGCCGCCGCTTCCCCGCGCGGCCGATGAACAGCGGACCGGGGCCACCTGCGCGAGCTGGCCC
ATGTGCTGCAATCCAAGCACCGGGACAAGTACCTGCTCTTCAACCTTTTCAAGAGAAAAGGCATGACCTGACCCGCT
TAAACCCCAAGGTTCAAGACTTCGGCTGGCCTGAGCTGCATGCTCCACCCCTGGACAAGCTGTGCTCCATCTGCA
AAGCCATGGAGACATGGCTCAGTGCTGACCCACAGCACGTGGTCTGTAATACTGCAAGGGAACAAGGGCAAGC
TTGGGGTCTATCGTTTCTGCTACATGCACTACAGCAAGATCTCTGCAGGGGCGGACCAGGCACTGGCCACTCTTA
CCATGCGGAAATTTCTGCGAGGACAAGGTGGCCACAGAATGCAGCCCTCCAGCGTCGATATATCAGCTACTTTCA
GTGGGCTGCTATCTGGCTCCATCAGAATGAACAGCAGCCCTCTCTTCTGCACTATGTGCTCATCCCCATGCTGC
CAGCCTTTGAACCTGGCACAGGCTTCCAGCCCTTCTTAAAATCTACCAGTCCATGCAGCTTGCTACACATCTG
GAGTCTATCACATTGCAGGCCCTGGTCCCCAGCAGCTTTGCATCAGCCTGGAGCCAGCCCTCCTCTCAAAGGCG
ATGTATGGTAACATGTTATCACAAGGTGGCCGGGGCACAGACCGGACCCTCGTGTTCGAGTCCAGTTCCACA
CCTGCACCATCCACGGACCACAGCTCACTTTCCCAAGGACCAGCTTGACGAGGCTGGACTGATGAGAGGTTCC
CCTTCCAAGCCTCCGTGGAGTTTGTCTTCTCTCCAGCCCCGAGAAGATCAAAGGCAGCACTCCACGGAACGACC
CCTCGGTCTCTGTGCACTACAACACCACTGAGCCAGCCGTGCGCTGGGACTCCTATGAGAACTTCAACCAGCACC
ACGAGGACAGTGTGGATGGCTCCTTGACCCACACCCGGGGTCCCTGGATGGCAGTCTTATGCCCAGGTGCAGC
GGCCTCCCCGGCAGACCCCCCGGCACCCTCTCCAGAGCCTCCACCACCCCCCATGCTCTCTGTGACGAGCGACT
CAGGCCATTCTCCACGCTGACCACAGAGCCGGCTGTGAGTCCCCTGGCCGGCCGCCCTTACAGCTGCTGAAC
GGCAGGAGCTGGATCGCTCCTTAGGAGGCTGCGGAGTGGCCAGTGGGGGCGGGGAGCTGGGCGGAGACGGCCA
TCCTAGATGACGAAGAGCAGCCCACTGTGGGCGGAGGCCCCACCTCGGAGTGTATCCAGGCCATAGCCCTGGCC
TCAGCCGCCACTGCTCCTGCCGCCAGGGCTACCGGGAGCCTGCGGGGTTCCAATGGGGGCTACTACCGGCCAG
AGGGAACCTTGAGAGGAGGCGACTGGCCTACGGGGGTATGAGGGATCCCCCAGGGCTACGCCGAGGCCTCGA
TGGAGAAGAGGCGCCTCTGCCGATCGCTGTGAGAGGGGTATACCCCTACCCACCTGAGATGGGGAAACCAGCCA
CTGGGGACTTTGGCTACCGCGCCCCAGGCTACCGGGAGGTGGTCACTCTGGAGGACCTGGGGTGCCTGCCCTAT
ACCCATGCCCAGCCTGCGAGGAGAAGCTGGCGCTGCCCTACAGCAGCCTTGTATGGACTGCGGCTGGAGAGGGAGG
CTGGAGAAGGGTGGGCAAGTGAGGCTGGCAAGCCTCTCTGCAACCCAGTGGGCGCTGGGCACCCGCTGCCCTCTGC
TCTTGCTGCCCTGTGGGCATCACCATGCCCCGATGCCCTGACTACAGCTGCCCTGAAGCCACCCAAAGGCAGGCGAGG
AAGGGCACGAGGGCTGCTCCTACACCATGTGCCCCGAAGGCAGGTATGGGCATCCAGGTTACCTGCCCTGGTGA
CATACAGCTATGGAGGAGCAGTTCCAGTTACTGCCCAGCATATGGCCGTGTGCCTCATAGCTGTGGCTCTCCAG
GAGAGGGCAGAGGGTATCCAGCCCTGGTGGCCACTCCCCACGGGCTGGCTCCATTTCCCCGGGCAGCCCCCCT
ATCCACAATCTAGGAAGCTGAGCTACGAGATCCCTACGGAGGAGGGAGGGGACAGGTACCCATTGCCTGGGCACC
TGGCCTCAGCAGGACCTTTGGCATCTGCAGAGTGGTGGAGCCGGTGTCTGGAGGGAGGGCCCCAGTGGGCACA
GCACACTGCCCTCGGTCTCCCCGAGATGCCCCATGCAGTGCTTCGTGAGAGTTGTCTGGTCCCTCCACGCCCCCTGC
ACACCAGCAGTCCAGTCCAGGGCAAGGAAAGCACCCGGCGACAGGACACCAGGTCCCCACCTCAGCGCCCACTC
AGAGACTGAGTCTTGGCGAGGCCTTGCCCCCTGTTTCCAGGCAGGCACCGGAAAGGCCCTGAGCTGCCGTGCG
GAAGTGGGCTGAGCCTCTGGCCCCCTAGCCCCAGTCTCTCCGACCTTCCCTCCCAGCTCGCCCACTGAGCTGCCCTC
AGGAAAGGAGTCCAGGGGGCCACTCAGATGGCGCCAGTCTCTGGAGCCCTGTGCCACCACTTCTTGGCCCTCC
GCCACGCCCCCTGGCAAGGCCCTCGAGGCCCCCGACAGCCAGATGGGTCTCCCTCACTCTGTGCTGCCCTCCC
AGATGCCCTGGCTTGTGGCCAGCCAGAGCCGCTCAGAGCTACCTACACCTGCTTTCCCCCTGGCTGCCCTCCT
ATGACACCAATGGCCTTAGCCAGCCCCCACTTCTGAGAAACGCCACCTGCCCGGGCCGGGGCAACACGAGGAC
CCTGGGGCCCAGAGCAGGCATCATCGCCAGCCAGAGGCATCAGTCACCATGTACCTTCGCACCTCTGCTCTCAG
ATAATGTCCCCCAAACCCAGAGCCTCCTACACAAGAGAGCCAAAGCAATGTCAAGTTTGTCCAGGATACATCCA
AGTTCTGGTACAAGCCACACCTGTCCCGTGACCAAGCCATTGCCCTGCTGAAGGACAAGGACCTGGGGCCTTCC
TGATCAGGGACAGTCAATTCAATCCAAGGAGCTTATGGGTGGCCCTCAAGGTGGCCACACCGCCACCCAGTGCC
AGCCCTGGAAAGGGGACCCCGTGGAAACAGCTGGTCCGCCATTCTCTCATCGAGACTGGGCCCAAAGGGGTGAAGA

3821/5332
FIGURE 3337B

TCAAGGGCTGCCCCAGTGAGCCCTACTTTGGCAGCCTGTCCGCCTTGGTCTCCCAGCACTCCATCTCCCCATCT
CCCTGCCCTGCTGCCTGCGATTCCCAGCAAAGATCCTCTGGAAGAGACCCAGAGGCTCCAGTGCCCACCAACA
TGAGCACAGCGGCAGACCTCCTGCGTCAGGGTGCTGCCTGCAGCGTGCTCTACTTGACCTCAGTGAGACAGAGT
CACTGACGGGCCCCAAGCTGTGGCCCGGGCCAGCTCTGCAGCTCTGAGCTGTAGCCCCGCCCCGACACCAGCTG
TTGTCCACTTCAAGGTGTCAGCCCAGGGCATTACACTGACGGACAACCAAAGGAAGCTCTTCTTTTCGCCGCCATT
ATCCAGTGAACAGCATCACCTTCTCCAGCACTGACCCTCAAGACCGGAGATGGACCAACCCAGACGGGACCACCT
CCAAGATCTTTGGTTTTCGTGGCCAAGAAGCCGGGAAGCCCCTGGGAGAATGTGTGTACCTCTTTGCAGAGCTTG
ACCCAGATCAGCCTGCTGGCGCCATTGTACCTTCATCACCAAAGTTCTACTGGGCCAGAGAAAATGAAGGAAGG
CCACAAGCTCAGAGCCACATCAACACTGCCCCCTCCCAGCACCCACAGCCCTCACATCCCCTGGCCTGGACC
CAGGAGACCCAGGAGAAAGCACCCCTCCCTTAGGAATGAGGAGTGGGCATCAGGCCTGGGACACTGCTCTCCTTCC
CCGCCCCCAGCCTGCTAAGTTAAGTGGACAGGCCCCACAAGATGACCTTGCAATGTGAGCAGATGGCAGAGATGGGT
GTGTGAGGGGTGAGGAGGCATCAGCAGTTGAGCCCCGAAGGAGATCAGGCAGCCCCACCTGCAGGAGAACGTCAG
CCCTCCAGGGGATCAGCCCTGCCAGTTCCACCCAGCTGCAGGTGCCAGCACGGCAGGGATGGGAGAGGGGTGGG
GAGCGAGTCACTGCCTCCTCTGAGCAGAGATTCAGAGTAGGATCACATGAATAGGGGAAAAAAGAGAGTCTATTT
TTGTCTAATAATAAAGAATTTCTATAAACTTT

3822/5332
FIGURE 3338

TCTAATCTTGGACAATATGGTATCCAATACTGAATGAAAACCTTCAGAGATGGTAGGAGGAGGAGGAGCAGGTGGT
CAATGACTACAGTAAAAACCACTGGGAGTGCAGAGTATTTGTCAAAGAACCTTCAGCATTACAATGAACTTTAAAG
ATCAGATTTATTTGGAGAAAACAAAAACCCACAACCCAAAGGATGGGATTTTACATCAAGACATCTCCAGGTA
ATAAGTCTACAGATTACAAATCATTTTCATAGAAGATATTTTGTACAAATTTACATGTATTCAGGAGCGGGAC
ATTAATCAATCCCTGTTTCTATTTTAATAGGGGGACAAGGTAGGGGAGAGGGAAAAACAGTTTTGGATATAACT
ATTTGGAAGGAGAGTAGACATGAAGAGGGCAAACCCTAGCTTTTTCATTATCTACAATCAATAGTTTTGTTTTCTT
TTTTAAAAAAGAAAGAAAAACCTTTCAATCTTCAATACTCTTTAAAAGCCCACTTCTTAGCTACTGGCCAATCC
ACACCAATTATTTAAATTCCTTGGTACACACCTTTGTCCACTGGGTAAATTATATTTCATTATGCCCACTGCTGC
AGCAGCATAAACCAACACCCCTGCATGGCTGAACAGGGCCTAATCTAGGACTGATGGGAGAAGGGCTTGCAAAC
CAAGATCAAGGTGTTTCTCCGCTAATACTGTCTACCAAGCTGATCCCTACAAAAATGCATATAAAAGCAGGCAAG
TTTAGCTACTGTGTTGCAAGAGAAAACAGGACCTTGTTAAATAGTTCTCTCCATTACCATTTATTCTCTCAAGGG
AAGCTTAAAAAACAACAACAAAAACAACACATTGGTCTGGCCACCTCATGAATCCAACAAGCATTAGTGTGGCAT
TTCAGTGGAGAAGGAACTTGGGGGGAAAAATCCCATCAAGGTTGTAAGAAAGGCTCCCAATTTAACTGTCCCTG
TCCCTATTTATCCATCATCCAAGACCATCCATTATTCTAGAGCACTCTGATCAATAAAAGGGGTCCAAGCATCAG
GAGCAGGCAAGGAGAACCAAAAGACATCAAGAAACCGATTGCTTGAGAAAAGCAGCGATTCTTCCTTTTCAGAGT
TCTCCATGGCTGAGAAAATGCCCAAGACATCATGTATGTGACTTAGATACTGCTTTTGGGAGGTTAAGAGTAGC
ATGAAGAACTTAAGATGATGATAAGAGTCTAAATTTTTAGTTTCAAGGTTTCAATAGAAATGTTGGATATATTCAA
ACTTTCAAAAAGGACAGTGTTTAGAAAGGGTAAACTAGGACACAGAAAACACTGGGAATTACCACGACCCCCAA
GTGCTTCCGGCTCCAGGAAATAACCATTATGTGTTTGCTGGAGGTCACACAATTTCCCTATTACCTGGTGCA
AAATGACTCATCACTTCCCAAAAGCTTCTTTTCAAACACGATTTTCCCATTTATTTTGGTCCAATGCAGTCCCA
TTCTTTATGGCCTATAGTCTCACTCCCAACTACCCCCCTGGGGGGTT

3823/5332
FIGURE 3339

TGCAGCGTCAGCTGGATGAGCCAAAACCTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGGCGAAGTGAAGAAA
CTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAACTGGGACCTCCACCACATCTAGCAGAAATG
CACGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAACCTT
CTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGCTTGGGTGAAGC
GAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAGTCCCCTACAAGTGGTGGGGGAAAAG
TAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAAGATGAAAAATAAGTAGATGGGATGAATGCCCCAA
AAGGCCAAACTGGGAACTCTAGCCGTGGTCCAGGCGACGGAGGGAAACAGAGACCACTGGAAGGAGTCAGATAGGA
AAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAAGT
TCAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCGAAT
AGACCTCTACATCCTGTGCTTTTCTCCTAGTTTCTCTCCACCCTGGAACATTTCGAGAGCAAATCAAACCTCTAT
CCAGACAAGACAAAAT

3824/5332
FIGURE 3340

AATCTAGCCCGGAACCGAGTTGCGGGAGTGCGGTCTGTGCCGTTCCGGCCAGGAGTTTGGCGACTGCAGACGTC
CTGCGAACCGGCAAGATGTGCTCTCTGGGGTTGTTCCCTCCTCCACCGCCTCGGGGTCAAGTCACCCTATATGAG
CACAATAACGAGCTGGTGACGGGCAGTAGCTATGAGAGCCCGCCCCGACTTCCGGGGCCAGTGGATCAATCTT
CCTGTCTACAACCTGACAAAGGATCCCTAAAGACCCCTGGAAGGCTGGACCATGGCACAAGAAGTGCCTTCATC
CATCACCGGGAGCAAGTGTGGAAGAGATGCATCAACATTTGGCGTGATGTGGGCCTTTTGGGGTGCTAAATGAA
ATTGCAAACCTCAGAAGAAGAGGTGTTGAGTGGGTGAAGACGGCATCCGGCTGGGCCCTGGCACTCTGTGATGG
GCCTCTTCCCTCCATGGGTCCCTGTTCCCCCATCTGTCTCTCAGGAGCGAAGATCTGATCGCTGAATTTGCCCAA
GTCACAAATTGGTCCAGCTGCTGCTTGGCTGTCTTTGCATGGCACCCCCACACCAACAAGTTTGCAGTGGCCCTG
CTAGATGACTCAGTCCGTGTGTATAATGCCAGCAGCACCATAGTCCCTCCCTGAAGCACCGGCTGCAGCGAAAT
GTGGCGTCTCTGGCCTGGAAGCCCTTAGTGCCTCTGTCTTGGCTGTGGCCTGCCAGAGCTGCATTCTTATCTGG
ACCCTGGACCTACCTCCTTGTCTACCCGACCTCTTCTGGCTGTGCCCAAGTGTGTCTCACCTGGGCATACA
CCTGTTACCAGCTTGGCCTGGGCCCCAGTGGGGGCGGCTGCTCTCAGCTTCACCCGTGGATGCTGCTATCCGG
GTATGGGATGTCTCAACAGAGACCTGTGTCCCCCTTCCCTGGTTCCGAGGAGGTGGGGTGACCAACCTGCTCTGG
TCCCCAGACGGCAGCAAAATCCTGGCTACCACTCCTTCAGCTGTCTTTCGAGTCTGGGAGGCCAGATGTGGACT
TGTGAGAGGTGGCCTACTCTATCAGGGCGCTGTGAGACTGGCTGCTGGAGCCCAGATGGCAGCCGACTGCTGTTT
ACTGTATTGGGAGAGCCACTGATTTACTCCCTGTCTTTTCCAGAACGTTGTGGTGAGGGAAAGGGGTGCGTTGGA
GGTGCAAAGTCAGCAACGATTGTGGCAGATCTGTCTGAGACAACAATACAGACACCAGATGGTGAGGAGAGGCTT
GGGGGAGAGGCTCACTCCATGGTCTGGGACCCAGTGGGGAACGCTCTGGCTGTGCTTATGAAAGGAAAGCCAAGG
GTACAGGATGGTAAACCAGTCATCCTCCTTTTTTCGCACTCGAAACAGCCCTGTGTTGAGCTCCTTCCCTGTGGC
ATTATCCAGGGGGAGCCAGGAGCCAGCCCCAGCTCATCACTTTCATCCTTCCTTCAACAAAGGGGGCCCTGCTC
AGTGTGGGCTGGTCCACAGGCCGAATTGCCACATCCCGCTGTACTTTGTCAATGCCAGTTTCCACGTTTTAGC
CCAGTGCTTGGGCGGGCCAGGAACCCCTGCTGGGGGTGGAGGCTCTATTATGACCTGCCCCCTCTTTACTGAG
ACATCCCCAACCTCTGCCCCTTGGGACCCTCTCCAGGGCCACCACCTGTTCTGCCCCACTCCCCACATTCCCAC
CTCTAAGAATAAATAAGTTTTCCTTTTGTTCCTCA

3825/5332
FIGURE 3341

CTCCCTGCAGGGAGCTGCTTATGGGACACCAATTCTCTGCGCGGCCTCTTAACGCTGCTGCTGCCGCCGCCACCCC
TGTATACCCGGCACC GCATGCTCGGTCCAGAGTCCGTCCCGCCCCAAAACGATCCCGCAGCAAACATCATGGCAC
CGCCCCGAATCGGGACGCACAATGGCACCTTCCACTGCGACGAGGCACTGGCATGCGCACTGCTTCGCCTCCTGC
CGGAGTACCGGGATGCAGAGATTGTGCGGACCCGGGATCCCGAAAACTCGCTTCCTGTGACATCGTGGTGGACG
TGGGGGGCGAGTACGACCCTCGGAGACACCGATATGACCATCACCAGAGGTCTTTCACAGAGACCATGAGCTCCC
TGTCCCTTGGGAAGCCGTGGCAGACCAAGCTGAGCAGTGCGGGACTCATCTATCTGCACTTCGGGCACAAGCTGC
TGGCCCACTTGCTGGGCACTAGTGAAGAGGACAGCATGGTGGGCACCCTCTATGACAAGATGTATGAGAACTTTG
TGGAGGAGGTGGATGCTGTGGACAATGGGATCTCCAGTGGGCAGAGGGGGAGCCTCGATATGCACTGACCACTA
CCCTGAGTGCACGAGTTGCTCGACTTAATCCTACCTGGAACCAACCCGACCAAGACACTGAGGCAGGGTTCAAGC
GTGCAATGGATCTGGTTCAAGAGGAGTTTCTGCAGAGATTAGATTTCTACCAACACAGCTGGCTGCCAGCCCGGG
CCTTGGTGGAAAGAGGCCCTTGCCAGCGATTCCAGGTGGACCCAAGTGGAGAGATTGTGGAAGTGGCGAAAGGTG
CATGTCCCTGGAAGGAGCATCTCTACCACCTGGAATCTGGGCTGTCCCCTCCAGTGGCCATCTTCTTTGTTATCT
ACACTGACCAGGCTGGACAGTGGCGAATACAGTGTGTGCCCAAGGAGCCCCACTCATTCCAAAGCCGGCTGCCCC
TGCCAGAGCCATGGCGGGGTCTTCGGGACGAGGCCCTGGACAGGTGAGTGGGATCCCTGGCTGCATCTTCGTCC
ATGCAAGCGGCTTCACTGGCGGTACCACACCCGAGAGGGTGCCTTGAGCATGGCCCGTGCCACCTTGGCCAGC
GCTCATACCTCCACAAATCTCCTAGTCTAATAAAACCTTCCATCTC

3826/5332
FIGURE 3342

AGTCGGCCTTCCCAACATGGCGCAGTCTATTAACATCACGGAGCTGAATCTGCCGCAGCTAGAAATGCTCAAGAA
CCAGCTGGACCAGGAAGTGGAGTTCTTGTCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGTATGTGGA
AGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCCCTGACGAGTTCTAT
GTATGTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGGAAGTGGGTACTATGTAGAGAAGAC
AGCTGAGGATGCCAAGGACTTCTTCAAGAGGAAGATAGATTTTCTAACCAAGCAGATGGAGAAAATCCAACCAGC
TCTTCAGGAGAAGCACGCCATGAAACAGGCCGTCATGGAAATGATGAGTCAGAAGATTCAGCAGCTCACAGCCCT
GGGGGCAGCTCAGGCTACTGCTAAGGCCTGAGAGTTTTTGCAGAAATGGGGCAGAGGGACACCCTTTGGGCGTGG
CTTCCTGGTGATGGGAAGGGTCTTGTGTTTTAATGCCAATAAATGTGCCAGCTGGGCA

3827/5332
FIGURE 3343A

ACGGACGCCCTCTTCCCCGCCCTCCTTGCGCGCAGCCTTCTGGGATGTATAGTCCTAGATCCGAGCACGCAGCGG
CAAAAGGGCGCAGAAGAACCACAAAACCCAGAAAGCCCTCGCGCCCACTCTTCTCCCTCCCCTCCAGAAGTCGGAG
TGCTGTTTTTGTGTTGGTGAAAGGTGAGGGGAACAGCTGATCCGTCTGTTGGGAGGACAGATATCTCAAGGCCA
GGATGGAAGAATCACCCTAAGCCGGGCACCATCCCGTGGTGGAGTCAACTTTCTCAATGTAGCCCGGACCTACA
TCCCCAACACCAAGGTGGAATGTCACTACACCCCTCCCCCAGGCACCATGCCAGTGCCAGTGACTGGATTGGCA
TCTTCAAGGTGGAGGCTGCCTGTGTTCGGGATTACCACACATTTGTGTGGTCTTCCGTGCCTGAAAGTACAACTG
ATGGTTCCCCCATTACACCAAGTGTCCAGTTCCAAGCCAGCTACCTGCCCAAACCAGGAGCTCAGCTCTACCAGT
TCCGATATGTGAACCGCCAGGGCCAGGTGTGTGGGCAGAGCCCCCTTCCAGTTCCGAGAGCCAAGGCCCATGG
ATGAACTGGTGACCCTGGAGGAGGCTGATGGGGGCTCTGACATCCTGCTGGTTGTCCCCAAGGCAACTGTGTAC
AGAACCAGCTCGATGAGAGCCAGCAAGAACGGAATGACCTGATGCAGCTGAAGCTACAGCTGGAGGGACAGGTGA
CAGAGCTGAGGAGCCGAGTGCAGGAGCTCGAGAGGGCTCTGGCAACTGCCAGGCAGGAGCACACGGAGCTGATGG
AACAGTACAAGGGGATTTCCCGGTCCCATGGGGAGATCACAGAAGAGAGGGACATCCTGAGCCGGCAACAGGGAG
ACCATGTGGCACGCATCCTGGAGCTAGAGGATGACATCCAGACCATCAGTGAGAAAGTGCTGACGAAGGAAGTGG
AGCTGGACAGGCTTAGAGACACAGTGAAGGCCCTGACTCGGGAACAAGAGAAGCTCCTTGGGCAACTGAAAGAAG
TACAAGCAGACAAGGAGCAAAGTGAGGCTGAGCTCCAAGTGGCACAACAGGAGAACCATCACTTAAATTTGGACC
TGAAGGAGGCGAAGAGCTGGCAAGAGGAGCAGAGTGCTCAGGCTCAGCGACTGAAAGACAAGGTGGCCCATGA
AGGACACCCCTAGGCCAGGCCAGCAGCGGGTGGCCGAGCTGGAGCCCTTGAAGGAGCAGCTTCGAGGGGCCAGG
AGCTTGCAGCCTCAAGCCAGCAGAAAGCCACCCCTTCTTGGGGAGGAGTTGGCCAGTGACAGCAGCCAGGGACC
GCACCATAGCCGAACCTACACCGCAGCCGCTTGAAGTGGCTGAAGTTAACGGCAGGCTGGCTGAGCTCGGTTTGC
ACTTGAAGGAAGAAAAATGCCAATGGAGCAAGGAGCGGGCAGGGCTGCTGCAGAGTGTTGGAGGCAGAGAAGGACA
AGATCCTGAAGCTGAGTGACAGAGATACTTCGATTGGAGAAGGCAGTTTCAAGGAGGAGAGGACCCAAAACCAAGTGT
TCAAGACTGAGCTGGCCCGGGAGAAGGATTCTAGCCTGGTACAGTTGTGAGAAAGTAAGCGGGAGCTGACAGAGC
TGCGGTGAGCCCTGCGTGTGTCTCAGAAGGAAAAGGAGCAGTTACAGGAGGAGAAACAGGAATTGCTAGAGTACA
TGAGAAAGCTAGAGGCCCGCTTGAGAAGGTGGCAGATGAGAAGTGAATGAGGATGCCACCACAGAGGATGAGG
AGGCCGCTGTGGGGCTGAGCTGCCGGCAGCTCTGACAGACTCAGAGGACGAGTCCCAGAAAGACATGAGGCTCC
CACCCCTATGGCCTTTGTGAGCGTGGAGACCCAGGCTCCTCTCCTGCTGGGCCTCGAGAGGCTTCTCCCTTGTG
TCATCAGCCAGCCGGCTCCCATTTCTCCTCACCTCTCTGGGCCAGCTGAGGACAGTAGCTCTGACTCGGAGGCTG
AAGATGAGAAGTCAGTCTGATGGCAGCTGTGCAGAGTGGGGGTGAGGAGGCCAACTTACTGCTTCTGAACTGG
GCAGTGCCTTCTATGACATGGCCAGGTGAGTTCAACCAGCAAGGCCAGGAGGGAGGTGGGAGGAGGTGAGAGGGA
AAGGGCATCTGTGTGGACAGTCACCAGGCCCTGCTCCCAACCCCTGCCCTTCTTGGCCTCAGCCAAGAAAAGGAG
ATACAGGTATGGTTAACAAGGAAAATGACTCACTGCTCCAAATCCCAGATGCCTTCAGGTAATCCCTACCCCTAT
CTTATCAATGCACTCAGAGGTCCTGCCTTTAACTGGCTTCTATGTTGTTCTAGCACCATCTTCTGCAGAGCCCAA
ATTGCCCTGCTTCCCCTCTCTCCTGCCTCTACCCCTTCCCCAACCCAGGTTAGGTACCTAGGGTCTCCGGGGA
GGAAGGGAGGTGACCATGGCCCCCAGGGATAGGAGCAGAGAGAAGACTGGGATCCAGCATCCATCTGGCTACAAC
TGAAATGCTTTCCCTCTTCCCTGACTTCCCTGGGTAACCCCTTAGGGAAGGGAACCTATAGAGGTGGGGGTTTCAG
GTATCAGATTGTCCCCTTCTGCCTTCCCTTTTATTCCAGGTTCAAGGGGGCAGGCACAGGGAAGAGAGATTGA
TCATCTAGTCCCGTTTTTGCCTGGATGTGAGATGGGCTCAGGGCAGGAGGGGGTGATGCTGTATCCTTCTCGG
CTGGAGCAGGAAGATGAAGGACGATGTCAGACTCATTTTACGCTCATTAGGCAGCAGACGGAGATGGAGGGAGG
AGAGCAGGAGGCTGGGGGATGGGCTCTGCACTGCAGAGACCAGCAGGGACTAAAGAAGAGAGGACATGGGGAAC
GGAAAAATAAGCCTTCCAGGATTGTGGGGAGAAAGACGCTGTGGGAGAGGCCAGGATGCTGCATTAGGCACAGGA
TAACCTGGGAACCCAGGCACATGGGTCCCTGCTCTCCGAAGTCTGCAAGTCAAGAAGGGAACAGAGCACGCCGACC
CTCTCCCTTTCCCTCTGTCTCTTAGTGGCTTTACAGTGGGTACCCTGTGAGAAACCAGCACTGGGGGCCCTG
CCACCCCCACATGGAAGGAGTGTCTATCTGTAAGGAGCGCTTTCCTGCTGAGAGTGACAAGGATGCCCTGGAGG
ACCACATGGATGGACACTTCTTTTTCAGCACCCAGGACCCCTTACCTTTGAGTGATCTTACTCCCTCGTACATG
CACAAATACACACTCATGCACACACACACTCACACACATGCATACACTTAGGTTTCATGCCCATTTTCTATCACA
CTGGGCTCCATGATATTCTGTTCCCTAAGAACTGCTTCTGTGTGCCCTGTTTTTCATCCCAAGATTTCTCACTTCA
TCCTCTCCTACCTGGCTCTTTTGTCCAGGGAGGGGTCTGTTCCGGAAGCAGTGGCTGAATTTATCCCTGAAAG
TGGTTTTGGAGGAACCGGGATGGAGGAGGCCTTCCCTGTGGGAATAGAATCGTCCACTCCTAGCCCTGGTTGCT

3828/5332
FIGURE 3343B

TCTGATACACAGCCACTGCACACACACACTCACACTCACACTCCCTTGTCTGATGCCCCAAAGCCAATTCCTGGG
GCACCCTACCCTCTCTTATTTGGAGTTTCCGTTGGTTTACCTGAGTTTCTCTGGGGTCTGCACAGAGGCAGCAG
CATGGACATCATGGCCTCTCAGGTCCCTTTTGGTTCTCAGTTTCATTGGTTCCTCTTCTGTTCCCCCATTGACT
TCTGTGCCCCACCCTAGCCTTTTCCATAACCTTAGGTATTCAGTTTGGAGGGGTTTTTGTATTTTGAGGATTC
CTGTATTCTGTATCCTCTCCTCGCATCTCCTCACATGGAAAGAAATAATGTATTGTGCCTTCTGTGAGGAATGG
GGGGAACAAGTGGTCCCAGGTATCCCCATTTCCAAGGCCCCCTCCCTCTCCAGGTCCCCCACAGCAATAAAAG
CTTCCCCCTGATATCCATCCCTTTGTAGTTTGAACAAATATATTTATATGATATGT

3829/5332
FIGURE 3344

ATGACATGCCCTCGCAATGTA^{ACT}CCGAACTCGTACGCGGAGCCCTTGGCTGCGCCCGGCGGAGGAGAGCGCTAT
AGCCGGAGCGCAGGCATGTATATGCAGTCTGGGAGTGA^{CTT}CAATTGCGGGGTGATGAGGGGCTGCGGGCTCGCG
CCCTCGCTCTCCAAGAGGGACGAGGGCAGCAGCCCCAGCCTCGCCCTCAACACCTATCCGTCCTACCTCTCGCAG
CTGGACTCCTGGGGCGACCCCAAAGCCGCCTATCGCCTGGAACAACCTGTTGGCAGGCCGCTGTCCTCCTGCTCC
TACCCACCTAGTGTCAAGGAGGAGAATGTCTGCTGCATGTACAGCGCAGAGAAGCGGGCGAAAAGTGGCCCCGAG
GCAGCTCTCTACTCCCACCCCTTGCCGGAGTCTGCTTGGGGAGCACGAGGTACCCGTGCCCAGCTACTACCGC
GCCAGCCCGAGCTACTCCGCGCTGGACAAGACGCCCCACTGTTCTGGGGCCAACGACTTCGAAGCCCTTTTCGAG
CAGCGGGCCAGTCTCAACCCGCGCGCCGAACATCTGGAATCGCCTCAGCTGGGGGGCAAAGTGAGTTTCCCTGAG
ACCCCAAGTCCGACAGCCAGACCCCAAGCCCAATGAAATCAAGACGGAGCAGAGCCTGGCGGGCCCTAAAGGG
AGCCCTCGGAGAGCGAAAAGGAGAGGGCCAAAGCTGCCGACTCCAGCCAGACACCTCGGATAACGAAGCGAAA
GAGGAGATAAAGGCAGAAAAACACCACAGGAAATTGGCTGACAGCAAAGAGCGGAAGGAAGAAGAGGTGCCCTAT
ACTAAACACCAGACGCTGGAATTGGAGAAAGAATTTCTGTTCAATATGTATTTGACGCGAGAGCGCCGCTGGAG
ATTAGCAAGACCATTAACTTACAGACAGACAAGTCAAAATCTGGTTTCAAAATCGCAGAATGAACTCAAGAAA
ATGAACCGAGAGAATCGGATCCGGGAACGACCTCCAATTTTAATTTACCTTGAGAGCGCGGCCTCTCCTCCTCC
CTTCCCGCTCCTTCTCTCCCCGCCCTCCTCCCTTTGTGCCTGGTGATATATTTTTTTTTTCTCCTGAGTATA
AATGCAATGCGACTGCAAAAAAGGCAAAGACCTCAGACTCTCCTTCCAAGGGACCTGTGGTTCGTGCTGCGAAGA
TGCTTCCACTTAAAGCATGAGAAATGGGGTGCCGGGATGTGGGTGTGGTGTGTCCTCATAGATGGGGGTGGG
AGTGTGGCTGGTGTGTGTGTCAAGCCCTCACTCACCCACGCACTCACACACAGCATTCTGTTCTCCATGCAAAGT
TAAGATCGAATCCATCCGCTTGTAGGGGAAAAAAGGAAAAAATTAACCAGAGAGGGTCTGTAATCTCGCAGAG
CACAGGCAGAATCGTTCCTTCTTCTGCTGCAATTTCTCCTTAGACTAATAGACGTTTTTGAAAGTTCGGCTAGTGT
TCGTGTGTTTGTGCTAGCACCAGAGCCTCCACCAAACCTCTCCATGTCTTTACCTCCCAGTCGCTCTAAGAAT
CTGCTTGAAGTCTCGTATTTGTACTGCTTTCTGCTTTTCTCCACCCCTCCTAGCACCCCAATCCCCATCTA
GTAACATCTCAGAAATTTATCCAGAGGAACAAAAAATTAATAATAGAACATAGCAAAGCAAAGACAGAATGCC
CCCCCCCCAAATATTGTCTGCTCCTGTCTGGGAGTTGTGTTATTTAAAGATATTCTGTATGTTGTATCTTTTG
CATGTAGCTTCCTTAATGGAGAAAAAAAACCTAATAAATTTCCAGAATCAT

3830/5332
FIGURE 3345

TTTTGTCTGTCCTGGATTGGAGCCGTCCTATAACCATCTAGTTCGAGTACAACTGGAGACAGAAATAAATAT
TAAAGAAATCATAGACCGACCAGGTAAAGGCAAAGGGATGAATTCCTACTTCACTAACCCCTTCCTTATCCTGCCA
CCTCGCCGGGGGCCAGGACGTCTCCCCAACGTCGCCCTCAATTCCACCGCCTATGATCCAGTGAGGCATTTCTC
GACCTATGGAGCGGCCGTTGCCCAGAACCGGATCTACTCGACTCCCTTTTATTTCGCCACAGGAGAATGTCGTGTT
CAGTTCCAGCCGGGGGCCGTATGACTATGGATCTAATTCCTTTTACCAGGAGAAAGACATGCTCTCAAACCTGCAG
ACAAAACACCTTAGGACATAACACACAGACCTCAATCGCTCAGGATTTTAGTTCTGAGCAGGGCAGGACTGCGCC
CCAGGACCAGAAAGCCAGTATCCAGATTTACCCCTGGATGCAGCGAATGAATTCGCACAGTGGGGTCGGCTACGG
AGCGGACCGGAGGCGCGGCCGCGCAGATCTACTCGCGGTACCAGACCCTGGAACCTGGAGAAGGAATTTCACTTCAA
TCGCTACCTAACGCGCGCGCCGGCGCATCGAGATCGCCAACGCGCTTTGCCTGACCGAGCGACAGATCAAAATCTG
GTTCCAGAACC GCCGATGAAGTGGAAAAAGAATCTAATCTCACATCCACTCTCTCGGGGGGCGGCGGAGGGGC
CACCGCCGACAGCCTGGGCGGAAAAGAGGAAAAGCGGGAAGAGACAGAAGAGGAGAAGCAGAAAGAGTGACCAGG
ACTGTCCCTGCCACCCCTCTCTCCCTTTCTCCCTCGCTCCCCACCAACTCTCCCTAATCACACACTCTGTATTT
ATCACTGGCACAATTGATGTGTTTTGATTCCCTAAAACAAAATTAGGGAGTCAAACGTGGACCTGAAAGTCAGCT
CTGGACCCCTCCCTCACCGCACAACTCTCTTTACCACGCGCCTCCTCCTCCTCGCTCCCTTGCTAGCTCGTTC
TCGGCTTGCTCTACAGGCCCTTTTCCCCGTCCAGGCCTTGGGGGCTCGGACCCTGAACTCAGACTCTACAGATTGC
CCTCCAAGTGAGGACTTGGCTCCCCCACTCCTTCGACGCCCCACCCCCGCCCCCGTGCAGAGAGCCGGCTCCT
GGGCTGCTGGGGCTCTGCTCCAGGGCCTCAGGGCCCGGCTGGCAGCCGGGGAGGGCCGGAGGCCCAAGGAGG
GCGGCGCTTGGCCCCACACCAACCCCCAGGGCCTCCCCGCAGTCCCTGCCTAGCCCCTCTGCCCCAGCAAATGCC
CAGCCCAGGCAAATTGTATTTAAAGAATCCTGGGGGTCAATTATGGCATTTTACAAACTGTGACCGTTTCTGTGTG
AAGATTTTTAGCTGTATTTGTGGTCTCTGTATTTATATTTATGTTTAGCACCGTCAGTGTTCCATCCAAATTCA
AAAAAGGAAAAAAGAGGGAAAATTACAAAAAGAGAGAAAAAAGTGAATGACGTTTGTGTTAGCCAGTAGGAGA
AAATAAATAAATAAATAA

3831/5332
FIGURE 3346

GGAGAAAGGGGGGCTGTGGCGTGGGGGCTGAGGAGGGGCTAAGGCGGGAGGGGCGCCTCATCCCTTCACCCCTCC
CTTTTCGCCATGTGGGGGCCCTGAGCGCCGCCCCAGAAGAGGTCGAGGGAATGTTGTGGGCTGGGGCACACCAGC
ACGGCAGAACTGGAGAAAGCGAGAGACGTCGCCAGGGACCCAGGGACCTCTCCCTCCAGTTCCCCGGGGCCCGCC
CGGCCCTGATGGCCACTCACGCTATAGCGCCCACTCTGTCCTGGGCCATCCCGCGCCAGCAGTGTAGCCCCCAGC
CCGGGCGCCTGAATGCTCTCCCTCCGGATCGCTGCTCGGGTCCCCACTTTGGCGACCGTGCCCCCGAGTCTGTCT
TCCCCGGGGCCTGCTCTGTATCAGGCGCCTGCGCCTTCAAGGGTACCCGGCCCGCCTGCCCTCCCCAAGAGCCGA
GTTTGCGCTCCTCCCGGAATCGTTTGAGAGAAGGACAAACTTTTGGCAGGATGGAAATCTAGATGAGCCTGTCCG
GAGCAGAACACCCCTGATTAGCCAGGCCACC GCCATCCACATCTGCTCGGCAAAGAAGGAAGGCAGCTTGTTC
AGACCTTGGTGAGCAGCTGCAGACTGCCTGCCTAGAACAGCCTCCTTACTCCAGCCTGGCAGGGAAGGAAGGAAC
CTGACTTGCTTCGCAGGATCTGGAAGCTCAGCCGGCAGAGCTGAGAGCCGCAGTTGCATCCTGGAGCCTGATGCT
AGAAGCAGCTTCCGTCTTTGGGTTCTTGCTGCCTCGGCCTCTGCTCTGTTTCAGTTTGCTGTTGTGTTTTCTCCC
CCATGTGGGGGTGGTGGGGTACAGGGAAATAAAATGCTTTCTCCAGGCCCTAATCCTTCCCCATGCCTGCATC
AGGCTCAAAGCTGCTGACAGTCATGAAGTGCACCTTCCAGCCCTGCCATAAGCTACTCAAAGCAAATTCAAATT
CTCTTCTGGCCAGGAGGAAGGGCAGATGCTCCCTCCTTCTCAAGCCTCCCTGGCTCATTGATCCATTTTGAGGG
CATTTGGGGGTCAAAGTTGAGACCAGATTGCTTCAGTTTGATAAAATTAGCATTCTTATCACACCAAGGCCAC
ACCTGTTCTCTGGCCTCACAAACCACTGAGGATGTAAAGGTTTGTTGAGGTGGAGGAACAGAAGTGAAATGAGCA
ATCTGCTCCATTTAGAAGTCAGTCGCTTCGGCTGTTTATTCCACTAATATTTATCTAGTACCTATTCTGTGCCAA
GCATTGTCTCTACCTCAGTTTGCCACAAATATGAAAAAATAAATTCTTGGAAGTGTGAGGCTTCAATGTGTTG
TGGACCAATATACAAATAAACCAATGGAAAAG

3832/5332
FIGURE 3347

AACGGGATGGGGAGCTGGACCAGCAGATTATGAGCTTACAGAAAGCCTGGCCTACATTTTACTCTTTTTGGATTT
CTTCCTCATCAAGAGACTGCTGCAGTGCCTGTCTGTGACAGCGGCATGGACATATGCCCCAGGCTTTCCTGCTG
GGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCCTG
GAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTCGGAGCCTGTGGGCATCATCTACAATCCC
GTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAAGGAAGTACTCTTCCTG
GGCATGAACCCTGGACCTTTTGGCATGGCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGG
TTGGGCATTGTGGGGCCTGTGCTGACCCCTCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCCA
CAGTCAGAAGTGAGTGGTGCCCGATTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCAT
CACTGTTTTGTCCACAATCTATGCCCTCTGCTTTTCCCTGGCTCCCAGCGGGCGCAACCTTACTCCTGCTGAGCTG
CCTGCCAAGCAGCGAGAACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCAGCTGCTGGGGGTG
CGGCTGGTGGTGGGAGTTGGGCGACTGGCAGAGCAGCGGGCACGACGGGCTCTGGCAGGCCTGATGCCAGAGGTC
CAGGTGGAAGGGCTCCTGCATCCCTCTCCCCGTAACCCACAGGCCAACAAAGGGCTGGGAGGCAGTGGCCAAGGAA
AGATTGAATGAGCTGGGGCTGCTGCCACTGCTGTTGAAATGAGTGGCCCTTGGGGCCTTGCTGGGACACATTCAA
GACCTCGAAGTCATTCTTGGCCAAGCAGATGACAACACATCTCCTGGACTGGAGCAAAAGGTCCTTCTGTGCACC
CTGGTCGCTGGGAAACGTATTCTTTGATCTGTTGAACTGCTTCCAACCTGCCATGGCAGTTTTGACACTACTCC
TGTTTGCCCTCCTGATTCTGCTTTCTTTACCTTTTAAACATTGCCCTTTTCAGGGGACCCCACTTTGTAGGGAAT
CTGCAGAAAGGTGTGCTTTTGCATTGCAGACTGCTCTACCTCAGTGTTTCTTGGGAGACTTTATTGAGCTGAGA
GTGCCCTAGACAGTAACTTCTAAGGTCACGTTTACTATTTCAGAGGAAATATCTTGCCAGGATACCTACCCATCC
TTATAGAACAGTTACCTTTAGCTGACCCCTTTCTCACAGGGACCAAGACAAAGCATGGGACATGAAATTAAGAG
TGAACCTTCTATGGGAGGCTGCAGCTGGATCAGAGGAAAAATCCAGTGACAGAGTGCAAGTCAGAAGACCTGG
CTTTTCATCCCAGCTTTGAAACTTGGAACTTTTTGATGACAAATTAATAAACCTCTCTATGCCTCAGGC

3833/5332
FIGURE 3348

TGACCCTAACAGTCGATTCAAGGCCAAGTGGTCAGTTTGTTCAGCCTTTTTTAAGGGATTCTTTTTATTTTTAGG
AATTCCAAACAGAGTTAACCTAACTGTCATTGCCAAAAGATCAGTCTTAACTTTCTTAGCACCTGTACCTGTT
TAATGTGATCAGCTATCAGTGAGGAAAAAAAAAAAAATCTATTTAGGTCTTGGAAATGGTTCCTGTACCTAGAGTA
TCCATATTGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAACCTTGCTCTTTTGCCAGGCTGGAG
TGCAGTGGCGTGATCTTGGCTCACTGCAACCTCCGCTCCCGGGTTCAAGCAGTTCTCTGCCTCAGCCTCCTGAG
CAGCTGGGATTATAGGCGCTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTCACCATCT
TGGCCGTGCTGGTCTTGAACCTCTGACCTTGTGATCCGCTGCCTCGGCCACTCAAAGTGCTGGGATTGCAGGCG
TGAGCCAGCACCCGGCCACAGTATCTTTATTACAGCTCACTGCAGCCTCAATCTCCTGGGCTCAAATGATCCTCC
TGCCTCAGCCTCCCAAGCAGCTGGGACTACAGGCGCACACCACGGTGTCTGGCTAATTTTTATTATTTAAAAAATG
TTTTGTAGAGACAGTCTCCCTGTGTGCCCCAGGCTGGTCTCCAACCTCGTGAGCTCAAGTGATCCACGTGCCCTCAG
CCTCCCAAAGTGCTGGGATTACAAGCATAAGCCACCGCACCCGGCCCTAGTGAACATTTTACTGTATGTGTGA
TAAATCATCTTTTGTGTTTCTGTGTATGTGGGGACTTCTACACTGGCTGCTGTGAAGAGGTATGGAAGAAAGG
AGAGGCTTTCTGCCTAGAAATCTTTGAGAACACCTGAAAAGACAGTTTAAATCATGTCACAACACTCTTAAGGCT
CAAGTCAGTGTTCTGGTTTCCGGTAGCTTTAGGATTGGATTCTAAACGAGGGCTGGTGGTGAGTTTGGTGTGTGT
CTCGTGTACCCCTCACCCCTCACCTCCTCAGTTTAGGATAAGAGACATAATGATTTCTACCAGAATCCAAAGTAA
ATCCAAAGGGGGAGAAAAGACATAACTGTTTTTCTTCTACCTTTTTTTTGTAAAGAGTTACATCTCTCACAGG
AGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTTTCATCCCTCTCCCTGAATAGAAAAGCAGG
GGTCACCATTTGTATCCTTACCCTTGAGGTGTTTTTGAAGATGCTGTAACCTCTGAAGTTGAGCTGAGGCAGAAA
GGTTGAAAAATGCAGCCCTCTGGGTATTGTGGGGAGGGATGTGATGTAGTAAGAGGGTGTGTGTGGTGCTAGG
ATTCCACGCCACCAACTTGCAGCTTTATAAGAGCGCTACCAAGAACCACCTGGGGAAAAGGTTCTTATTTCAT
TGTTTCTGTTGGAATGTGATCTTGCTTTCTGGATTTTAGGAATTCAGGTTACTCAGTATAAAACTCTGAGAAATC
AGTGTGACTTAGTCTTACCTCCTAAGATAAAGTGAATATTTCTTTACAAAATAATTCATGTCTTAATGTTAA
AGATGTAATTTTATTTTCAAACATCTATAACATGACTTTTCAAGAGCAGTTCAATTTTCCAAGATTCTCATT
ATACTAGATAAATAATAGGCCCTCAGTTAATACCCTTCAGTTATTGAATTAATCTAGTTTGTGGAATGAGGTGTA
TCCTGCCAACTTCCCTCTGCTCCCAAGTACACTCTGAGAGGTAATGCTCTGGGAAATGGAACAAGAATCGAGT
GGATGCTGACTCTGTGTGCCACCTCCTCAACTGATTGATAATGGTTGACCTTGGGCAAGTCACTTCTTTCAATG
CCTCAGTTCCCCATCTGTCAAATGGGGTTAATAATACTGACCTACCTCACAGGGGTGTTGTTGTGAGGCATTGTA
AATCAAAGTTAATAGAATACTTCAGGGTCTCTGTGGAGGATGCTTGGAGCCAGAGTTTAAAGCTGACACACAGG
CTTTGGTCTCACTGAGCTGTCTCCAAGACTGGAACCTTAGTGACTCGGCCAAATTTTCTGCCCCCACCCTC
ATCAAAGCTGCTAGTTTCAGATGTTGACAGTGTTCATGAATGTTGGAATCTTACTAGTCCAGACTTACTTAGGA
TGTTGTTGGGGAAGGCACCTTGGGATTTTCTGTGTCTTGCAATTCACAGAGGGAGGCCATTTAGATTCAAGAGCAT
TGGATTAGGGAATCGTGAGGCAGGGATGCTACTGCGTATTTCTCTCTGCAGGTTGGGGATTAAAGTTCCTTTCCC
CATGGGTTTGAAGCAGACTCAGACTGTCTCAGGATCAAAGCAACCCTCAATGGTTTTGATTATGTATTGCTTA
CCACTCCCCAACCAATCCCAGGACAGCTGGGTCACTGTACCCCTTTGTGGTATCTGTACCTGGGCCTCTCCTTCC
TCATAGGGACCAGCTGATTGAATAAATGTGACCACCTTATTTCCACCCCCACCCCAAAAGCTACATTGGAATT
ATTTTCTCCTAGAAATGTGTATAACACTCAGAATTGGGCATTGATCCTTAAAGCTTCATCCCATTACCGTATTCA
ACACTCTGTATCTCTTAGTGTCTGCAGTCTGAACCTAACCTTGACCTTTTTTCCCTCTGGTTTGAGAAAACCTTG
GACACTATTTCTACTTGGCCAGGTGTGGGCTCAAGAGCCTTACTCTTTCCATCTCAGTTTAGGGGCGCAGCCAGC
TCTCTTTCCCAATAGGGCTCTTTCTGCTTTCCCTCTCCTTGGCCCTAGATTGTAAATCCATGAAAAAGCACAAGG
TCTGGCTCCTTGCAGTACATCTGTTTCTGTGTTTTGTGGACTCTGCTCTCACTGTTCACCCAGCACTAGC
AGTACCAGATGGTTCTGTGGAGTCTGGGGAATGGAGAGAGCACAGTCTGACTCCCTGCCAAGTAGCCAGGAGTT
GACTTGCCCATGGTCCGCTGGCTTTCCACCCTTCTACAGGATGGGATCTAAGAGACTCAAGAGCTGGGTTTC
TTTCAGCACTCTGTACTGTCCCAATAGCAAACAAATCACTTTGTAGCCAGATTTCTGAATGGAAATGAGAAATT
GAATTCTCCATGGACTTTTAGGTTTATGGGGAGTTTGTAGCTGTGTTTCTTGGTTTTATTTAGCCAAACATGTC
TGCTTTTGATTTTTTTTTTAAAGTATAAGTGGTCTATATATATGTTACCTTTTAAATGTAAATGTTTAAAAAGT
AAGCATTTATGTGTTTCCATAACTGACATCTGATGCAGACCTCATTCTCTCCCCCTCTTCTACCTCCTCTTTTC
CCCCCTTTTCACTCTTGTATTGGTTCTAATAAATGGTTGCTTTTC

3834/5332
FIGURE 3349

GGAGCACCCATTTTAAACCTGGAGAGAAACCATGATGTTTTCTTCTTCAAATAACAATCTAGTTTTTTTTTCCCCCA
GTACTAAAATTGTATTGTCTTTTCAGACAATATAATTTTTATTTAAATTTGGAACATACTATCTTCATGCTTTCTA
AGCTAAATCTTCATTTAGATTTCACTCCTCAGTAGATCCCAGAGAAGAAGCTATATAGGATCCAGATTCAAATTT
AACAGTGTCTTCTACTTTTTTAGTTATGTTTTCTATCAACTCCTGCTGCCTTTCAAATACGGATATTTTTCAGG
AGACTCTTCTACTTGTCCACTGACTGTATTTTTTCCTTTTTGTATCCGTAGCCCTGGTTAAATGGCTGACATCCTT
CCGTGGATGATTCTTGGAGGTAGTCTCAGAATTCCAAAGTGATTGTCTGTCTTCTTCTTGTCTTGATCCTAATGC
AGACATTCACCTCTATTATTTATTTATTTTTTTAGACAGAGTCTCGCTCTGTCACCAGGCTGGAGTGCAGTGGC
ACAATCTTGGCTTACTGTACCCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCTCGAGTAGCTGGG
ACTACAGGTGTGTGCCACCATGCCAGCTAATTTTTGTATTTTTTGGTAGAGATGGGGTTTTACCATGTTTGCCAG
GATGGTCTCGATTTTCTGACCTTGATCTGCCACCTTGGCCTCCCAAAGTGCTGGAATTACAGGCAATGAGCCA
CCGTGCCTGGCCACCTCTATTAAATTTTTGTGGACAAAAATAAAATTGTCATTATTTGTTTGCTCTCATGGAGCA
CTTTCAGTAATACAATTTTTTTTTAAATTCAGTTGCCCTCTTTGTTGCTCTGTCTCTGTAATACCTGACTTTGC
TAAAGACTTGAGGGGTGGTTTTAGAGGAGGGTCAGGTGATGGGAAGGCAGGATGAGAAAAGCCCTGGACTTGCA
GTTTGAGAAGGCTTCCAACCACATCTTCACTCAGACTCTTGGAATTCCTGTCCCCAAAACAAGCTTCTGTTTTTT
GCTCACAATGCTATATTTCTAAATTTTTCTGAATTACTGAGAAGCAGTCATTAGCTTTGTTAAGTTTGGTTTGG
GGACATTGTTGGTATCAAAAATCGAAGTCTTATTCATTTGATGTAGGCCATGAATCATCAATAACTGGTTGCTGG
AAAGCTTGACTACCATCCACTGGGGTGCTATTTTGAGAAGGATTTTTGGGTATCTTTATAGTCTGCAATTAGTTG
ATGATTGCTTTCTAGTTTATCAACTGCATTTATATTTGCTTTTCTGTTTATGGAAAATCCTTTATTTGCTGGGGT
TTTTTGTTTGGTTTGGTTTGGTTTTTCCCACTTACAGCAAGTAAAAGTGGTCTGAGGTATCCTTGTTTTTCTTCGCG
GTTTGCCATGTGTGAAAGTAGATTTCTGTCTATTGATATATTCTCATTATAGACAGAATAGTGGAGAACAGTGT
GCCATGGACAAAATCCAGTTTTGGTCCACTCTGGGGAGCATTGGACCTGTGGTGCTTCTAACAATTAAGTCT
AGATGGTCTTTGACTGTCCCCAGCCATACTGCATACTACTTTGTGCATTCTACTTTGTGTCTTAATGAAAGAT
TGGTTCTGTCCCTGTAACCTTAGGCATTTATTATTCTTAACTCTTCATTCTGTCTGTAGCCACCCAGCAGTCCA
TTTTCCCTATGTTTCAGGCCAAACCACAGGGCATTGGGGAAGGTTTTTGGGATTTCTTATTGAGATTTTGTGAA
TCTGTAGTTTACCCAGCTTTCTAAGGTACAGTGAGGGGTTGGAGGGATCTGTGTTTGGCCCGGGGAGCAATTG
TCTCTACCTTAAGGTTTCAAGTTTGGAGGGCATAAAATACTACTTTGCAATGTGATGAGAACACCGTTAGATCTGAA
ATGTGGAAATGGTTTCTCACAATTTAAAGGAAAAACCCACTTTGCACCCATGATCCCATCATTTTGGTTGAGATT
TTAGAAT

3835/5332
FIGURE 3350

GGAAGAGCCGAGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACA
TGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAATC
CTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCCTGTCTCCTCCCCCAGGAGCTCCCCATGGCA
ATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACC GTTGGGT
CCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGGAC
CAGCAGTGATAGTAGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACC AAAAGC
ACCACAAGTACCACAAGCATGGCAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAATAC
AGGCCCTGGACCCCTTCCCTCAAGTCTCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCATGTTGTACTGGGG
GAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTAGG
GGAAATGGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGGTTAGATCATATAGCTAATGAATTAGG
CAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAATGTGATTTTTTA
CTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTATCTTTTTTGTA
TGTTGGCATACTTGGGGAATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGTTGCACTAACTGCAAGG
TTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTAGCCC
AATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGG

3836/5332
FIGURE 3351

TTTAACTGTGCTATGGAGTAGAAGCAGGAGGTTTTCAACCTAGTCACAGAGCAGCACCTACCCCTCCTCCTTTC
CACACCTGCAAACCTCTTTTACTTGGGCTGAATATTTAGTGTAATTACATCTCAGCTTTGAGGGCTCCTGTGGCAA
ATTCCCGGATTAAAAGGTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCT
GCTTGACACAAGTTTCCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTC
TGGGATAGGCCCAGAAGTTCCTGATGACCGGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCA
ATGCCATCTTCGAGTGGTCCAGTGTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAAC
TCTGCTAGACCTGCAAAACAACAAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGC
ATTGATTCTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTACACCTTTGGTGAAAGTTGGAACGACT
TTATCTGTCCAAGAATCAGCTGAAGGAATTGCCAGAAAAAATGCCAAAACCTTTCAGGAGCTGCGTGCCCATGA
GAATGAGATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAAGTGGGCACCAA
TCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGA
TACCAATATCACCAGCATTCTCAAGGTCTTCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAG
CAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGC
TGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGT
ACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATC
AAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGT
CCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAA
GTAAATTCTCAAGAAAGCCCTCATTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAA
GCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCA
GTTTAAGTAATTGCCTACAATAAAAAGAAATTTGCCTGCCATTTTCAGAAATCATCTTTGAAGCTTTCTGTTGA
TGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTA
GTAAAGCTTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAG
CTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAAATCCCCATCATTACTGGTAAAGCCTCATTTG
AATGTGTGAATTCAATACAGGCTATG

3837/5332
FIGURE 3352

GTGGATTCTTGTCCATAGTGCATCTGCTTTAAGAATTAACGAAAGCAGTGTCAAGACAGTAAGGATTCAAACCAT
TTGCCAAAAATGAGTCTAAGTGCATTTACTCTCTTCCTGGCATTGATTGGTGGTACCAGTGGCCAGTACTATGAT
TATGATTTTCCCTATCAATTTATGGGCAATCATCACCAAAGTGTGCACCAGAATGTAAGTGCCTGAAAGCTAC
CCAAGTGCCATGTACTGTGATGAGCTGAAATTGAAAAGTGTACCAATGGTGCCTCCTGGAATCAAGTATCTTTAC
CTTAGGAATAACCAGATTGACCATATTGATGAAAAGGCCCTTGAGAATGTAAGTGTCTGCAGTGGCTCATTCTA
GATCACAACCTTCTAGAAAAGTCCAAGATAAAAGGGAGAGTTTTCTCTAAATTGAAACAAGTGAAGAAGCTGCAT
ATAAACCACAACAACCTGACAGAGTCTGTGGGCCCACTTCCCAAATCTCTGGAGGATCTGCAGCTTACTCATAAC
AAGATCACAAAGCTGGGCTCTTTTGAAGGATTGGTAAACCTGACCTTCATCCATCTCCAGCACAAATCGGCTGAAA
GAGGATGCTGTTTCAGCTGCTTTTAAAGGTCTTAAATCACTCGAATACCTTGACTTGAGCTTCAATCAGATAGCC
AGACTGCCTTCTGGTCTCCCTGTCTCTCTTCTAACTCTCTACTTAGACAACAATAAGATCAGCAACATCCCTGAT
GAGTATTTCAAGCGTTTTAATGCATTGCAGTATCTGCGTTTATCTCACAACGAAGTGGCTGATAGTGAATACCT
GGAAATCTTTCAATGTGTCTATCCCTGGTTGAGCTGGATCTGTCTATAACAAGCTTAAAAACATACCAACTGTC
AATGAAAACCTTGAAAAGTATTACCTGGAGGTCAATCAACTTGAGAAGTTTGACATAAAGAGCTTCTGCAAGATC
CTGGGGCCATTATCCTACTCCAAGATCAAGCATTGCGTTTGGATGGCAATCGCATCTCAGAAACCAGTCTTCCA
CCGGATATGTATGAATGTCTACGTGTTGCTAACGAAGTCACTCTTAATTAATATCTGTATCCTGGAACAATATTT
TATGGTTATGTTTTCTGTGTGTCTAGTTTTCATAGTATCCATATTTTATTACTGTTTATTACTTCCATGAATTTT
AAAATCTGAGGGAAATGTTTTGTAAACATTTATTTTTTTTAAAGAAAAGATGAAAGGCAGGCCTATTTTCATCACA
AGAACACACACATATACACGAATAGACATCAAAGTCAATGCTTTATTTGTAAATTTAGTGTTTTTTTATTTCTAC
TGTCAAATGATGTGCAAAACCTTTTACTGGTTGCATGGAAATCAGCCAAGTTTTATAATCCTTAAATCTTAATGT
TCCTCAAAGCTTGGATTAAATACATATGGATGTTACTCTCTTGACCAAATTATCTTGATACATTCAAATTTGTC
TGGTTAAAAAATAGGTGGTAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACTTAAAGAAG
TATTTTTAGAATAAGAATTTGCATACTTACCTAGTGAAACTTTTCTAGAATTATTTTTCACTCTAAGTCAATGTAT
GTTTCTCTTGATTATTTGCATGTTATGTTTAATAAGCTACTAGCAAAATAAAACATAGCAAATGGC

3838/5332
FIGURE 3353

GCAGAACAAAGAATACTCCACTTTTGATAGATGGGGTTACCAGGATTACGGCTACATGGCCTGAGGCAAGGTCAC
AACATGAGTGACAGAATGTGTCTGGGAAGCCAGGCATCCTCTGGGGTGTATTTGGGGCGCTCAACAAGGCTTGAT
CGAGCTTTGGGGGTAGATCTAGCTATTCCATGGGGATTCTTTTCAGAATTGCTGTTTTCGGTAACTAATTCCATG
ACCAGGTCCATGGCATTGGATGACATTGCGCTACACTGTTGCTCACCCGGGTCACCCGTCCTCACAGGTTGGATG
GCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGGGCATGGACGTCGTGAAGAAAAATAGAATCTTTTCGGCTCTAAG
AGTGGGAGGACATCCAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGCTAATCTGTGGCCCAGGGTGCTGGC
ATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTGGCCCGGCTTGGGCTGTCAGCCAAGGTGCCTGAAACGATAC
GTGTGCCCACTCCACTGTCACAGTGTGCTGAGGAAGGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCAC
ATTGCTTCCTAATACCCACCCTTCCTCACGACCTCATTCTGGGCATCTTTGTGGACATGATGTCACCCACCCT
TGTCAAGCATTGCCTGTGATTGCCCAGCCAGATTCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCAT
CCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAGTCAGTTTTGCAAAGGACTCTAATACCTGTTTAATATTG
TCTTCCTAATTGGGATAATTTAATTAACAAGATTGACTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTG
GTGTGACCTGAGTTGGTGACACAGGCCACAGACCCAGAGCTTGGCTTTTGAAACACAACCTCAGGGCTTTTGTGA
AGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTGTGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGAGGAGGG
CCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAACCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTG
TTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCCGGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTG
TGTTAAAGAAATTCAATCTACTCATGATGTGTTATGCATAAAACATTTCTGGAACATGGATTTGTGTTACCTTA
AATGTGAAAATAAATCCTATTTTCTATGG

GACGACGACAGGCATTCCCCGCGCCCTCCAGCCCTCGCCGCCCTCGCCACCCTCCCGGCCCGCCGCGCTCCGGTA
 CACACAGGATCCCTGCTGGGCACCAACAGCTCCACCATCGGGCTGGCCTGGGGACTAGGCGTCTGTTCCTGATG
 CATGTGTGTGGCACCAACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTGTTGACATCTTTGAACTACCCGGG
 GCCGCCCGCAAGGGGTCTGGCGCCGACTGGTGAAGGGCCCCGACCCTTCAGCCAGCTTTCCGCATCGAGGAT
 GCCAACCTGATCCCCCTGTGCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTC
 CTCCTTCTGGCATCCCTGAGGCAGATGAAGAAGACCCGGGGCAGCTGCTGGCCCTGGAGCGGAAAGACCCTCT
 GGCCAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAG
 CACGTGGTGTCTGTGGAAGAAGCTCTCCTGGCAACCGGCCAGTGGAGAGCATCACCTGTTTGTGTCAGGAAGAC
 AGGGCCCAGCTGTACATCGACTGTGAAAAGATGGAGAATGCTGAGTTGGACGTCCCCATCCAAAGCGTCTTCACG
 AGAGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGGCGTCAATGACAATTTCCAGGGGGTGTGTCAG
 AATGTGAGGTTTGTCTTTGGAACCAACACCAGAAGACATCCTCAGGAACAAAGGCTGCTCCAGCTCTACCAGTGT
 CTCCTCACCTTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAACTACATTGGCCACAAGACA
 AAGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATGGTCTGGAACCTCAGGGGCTGCGC
 ACCATTGTGACCACGCTGCAGGACAGCATCCGCAAAGTGACTGAAGAGAAACAAAGAGTTGGCCAATGAGCTGAGG
 CGGCCTCCCCATGCTATCACAACGGAGTTCACTACAGAAATAACGAGGAATGGACTGTTGATAGCTGCACTGAG
 TGTCACTGTGAGAACTCAGTTACCATCTGCAAAAAGGTGTCCTGCCCCATCATGCCCTGCTCCAATGCCACAGTT
 CCTGATGAGGAATGCTGTCTCGCTGTTGGCCAGCGACTCTGCGGACGATGGCTGGTCTCCATGGTCCGAGTGG
 ACCTCTGTTTCTACGAGCTGTGGCAATGGAATTCAGCAGCGCGCCGCTCCTGCGATAGCCTCAACAACCGATGT
 GAGGGCTCCTTCGGTCCAGACAGGACCTGCCACATTCAGGAGTGTGACAAGAGATTTAAACAGGATGGTGGCTGG
 AGCCACTGGTCCCCGTGGTCACTTGTCTGTGACATCTGGTGTGATGGTGTGATCACAAGGATCCGGCTCTGCAAC
 TCTCCAGCCCCCAGATGAACGGGAAACCTGTGAAGGCGAAGCGCGGAGACCAAAAGCCTGCAAGAAAGACGCC
 TGCCCCATCAATGGAGGCTGGGGTCTTGGTCAACCATGGGACATCTGTTCTGTCACTGTGGAGGAGGGGTACAG
 AAACGTAGTCGTCTCTGCAACAACCCACACCCCACTTTGGAGGCAAGGACTGCGTTGGTGATGTAACAGAAAAC
 CAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCGTGTCCAATCCCTGCTTTGCCGGCGTGAAGTGTACT
 AGCTACCCCTGATGGCAGCTGGAAATGTGGTGTCTGTCCCCCTGGTTACAGTGGAATGGCATCCAGTGCACAGAT
 GTTGATGAGTGCAAGAAGTGCCTGATGCCTGCTTCAACCACAATGGAGAGCACCGGTGTGAGAACACGGACCCC
 GGCTACAACCTGCCTGCCCTGCCCCCACGCTTCACCGGCTCACAGCCCTTCGGCCAGGGTGTGGAACATGCCACG
 GCCAACAAACAGGTGTGCAAGCCCCGTAACCCCTGCACGGATGGGACCCACGACTGCAACAAGAACGCCAAGTGC
 AACTACCTGGGCCACTATAGCGACCCCATGTACCGCTGCGAGTGCAAGCCTGGCTACGCTGGCAATGGCATCATC
 TCGGGGGAGGACACAGACCTGGATGGCTGGCCCAATGAGAACCTGGTGTGCGTGGCCAATGCGACTTACCACTGC
 AAAAAGGATAATTGCCCAACCTTCCCAACTCAGGGCAGGAAGACTATGACAAGGATGGAATTGGTGTGCTGT
 GATGATGACGATGACAATGATAAAATTCCAGATGACAGGACAACTGTCCATTCCATTACAACCCAGCTCAGTAT
 GACTATGACAGAGATGATGTGGGAGACCGCTGTGACAACCTGTCCTACAACCACAACCCAGATCAGGCAGACACA
 GACAACAATGGGGAAGGAGACGCCTGTGCTGCAGACATTGATGGAGACGGTATCCTCAATGAACGGGACAACCTGC
 CAGTACGTCTACAATGTGGACCAGAGAGACACTGATATGGATGGGGTTGGAGATCAGTGTGACAATTGCCCTTG
 GAACACAATCCGGATCAGCTGGACTCTGACTCAGACCGCATTGGAGATACCTGTGACAACAATCAGGATATTGAT
 GAAGATGGCCACCAGAACAATCTGGACAACCTGTCCCTATGTGCCCAATGCCAACAGGCTGACCATGACAAAGAT
 GGCAAGGGAGATGCCTGTGACCACGATGATGACAACGATGGCATTCTGATGACAAGGACAACCTGCAGACTCGTG
 CCCAATCCCGACCAGAAGGACTCTGACGGCGATGGTGCAGGTGATGCCTGCAAAGATGATTTTGACCATGACAGT
 GTGCCAGACATCGATGACATCTGTCTGAGAATGTTGACATCAGTGAGACCGATTTCGCCGATTCCAGATGATT
 CCTCTGGACCCCAAAGGGACATCCCAAAATGACCTAACTGGGTTGTACGCCATCAGGGTAAAGAACTCGTCCAG
 ACTGTCAACTGTGATCCTGGACTCGCTGTAGGTTATGATGAGTTTAATGCTGTGGACTTCAGTGGCACCTTCTTC
 ATCAACACCGAAAGGGACGATGACTATGCTGGATTGTCTTTGGCTACCAGTCCAGCAGCCGCTTTTATGTTGTG
 ATGTGGAAGCAAGTACCCAGTCTACTGGGACACCAACCCACGAGGGCTCAGGGTAACTCGGCGCTTTCTGTG
 AAAGTTGTAACCTCCACCACAGGCGCTGGCGACACCTGCGGAACGCCCTGTGGCCACACAGGAAACACCCCTGGC
 CAGGTGCGCACCTGTGGCATGACCCTCGTCACATAGGCTGGAAAGATTTACCGCCTACAGATGGCGTCTCAGC
 CACAGGCCAAAAGACGGGTTTTATTAGAGTGGTGTATGATGAAGGGAAGAAAATCATGGCTGACTCAGGACCCATC
 TATGATAAAAACCTATGCTGGTGGTAGACTAGGGTTGTTTGTCTTCTCTCAAGAAATGGTGTCTTCTCTGACCTG

3840/5332
FIGURE 3354B

AAATACGAATGTAGAGATCCCTAAATCATCAAATTGTTGATTGAAAGACTGATCATAAACCAATGCTGGTATTGCA
CCTTCTGGAACATATGGGCTTGAGAAAACCCCAGGATCACTTCTCCTTGGCTTCTTCTTTCTGTGCTTGCATC
AGTGTGGACTCCTAGAACGTGCGACCTGCCTCAAGAAAATGCAGTTTTCAAAAACAGACTCAGCATTACAGCCTCC
AATGAATAAGACATCTTCCAAGCATATAAACAAATTGCTTTGGTTTCCTTTTGAAAAAGCATCTACTTGCTTCAGT
TGGGAAGGTGCCCATTCACCTCTGCCTTTGTACAGAGCAGGGTGCTATTGTGAGGCCATCTCTGAGCAGTGGAC
TCAAAGCATTTTCAGGCATGTCAGAGAAGGGAGGACTCACTAGAATTAGCAAACAAAACCACCTGACATCCTC
CTTCAGGAACACGGGGAGCAGAGGCCAAAGCACTAAGGGGAGGGCGCATACCCGAGACGATTGTATGAAGAAAAT
ATGGAGGAACGTGTACATGTTCCGTACTAAGTCATTTTCAGGGGATTGAAAGACTATTGCTGGATTTCATGATGC
TGACTGGCGTTAGCTGATTAACCCATGTAAATAGGCACTTAAATAGAAGCAGGAAAGGGAGACAAAGACTGGCTT
CTGGACTTCCCTCCCTGATCCCCACCCCTTACTCATCACCTGCAGTGGCCAGAATTAGGGAATCAGAATCAAACCAG
TGTAAGGCAGTGTGGCTGCCATTGCCTGGTCACATTGAAATTGGTGGCTTCATTCTAGATGTAGCTTGTGCAGA
TGATGCAGGAAAATAGGAAAACCTACCATCTCAGTGAGCACCAGCTGCCCTCCCAAAGGAGGGGCAGCCGTGTTA
TATTTTTATGGTTACAATTGGCACAATAATTATTATCAACCTAACTAAAACATTCCCTTTTCTCTTTTTTCTGAATT
ATCATGGAGTTTTCTAATTCTCTCTTTTGGAAATGTAGATTTTTTTTAAATGCTTTACGATGTAAAATATTTATTT
TTTACTTATTCTGGAAGATCTGGCTGAAGGATTATTCATGGAACAGGAAGAAGCGTAAAGACTATCCATGTCATC
TTTGTTGAGAGTCTTCGTGACTGTAAGATTGTAAATACAGATTATTTATTAACCTCTGTTCTGCCTGGAAATTTAG
GCTTCATACGGAAGTGTGTTGAGAGCAAGTAGTTGACATTTATCAGCAAATCTCTTGCAAGAACAGCACAAGGAA
AATCAGTCTAATAAGCTGCTCTGCCCCCTTGTGCTCAGAGTGGATGTTATGGGATTCTTTTTTCTCTGTTTTATC
TTTTCAAGTGGAATTAGTTGGTTATCCATTTGCAAATGTTTTAAATTGCAAAGAAAGCCATGAGGTCTTCAATAC
TGTTTTACCCCATCCCTTGTGCATATTTCCAGGGAGAAGGAAAGCATATACACTTTTTTCTTTCATTTTTCCAAA
AGAGAAAAAATGACAAAAGGTGAAACTTACATACAAATATTACCTCATTTGTTGTGTGACTGAGTAAAGAATTT
TTGGATCAAGCGGAAAGAGTTAAGTGTCTAACAACTTAAAGCTACTGTAGTACCTAAAAAGTCAGTGTGTAC
ATAGCATAAAAACCTCTGCAGAGAAGTATTCCCAATAAGGAAATAGCATTGAAATGTTAAATACAATTTCTGAAAG
TTATGTTTTTTTTCTATCATCTGGTATACCATTGCTTTATTTTTATAAATTATTTTCTCATTGCCATTGGAATAG
ATATCTCAGATTGTGTAGATATGCTATTTAAATAATTTATCAGGAAATACTGCCTGTAGAGTTAGTATTTCTATT
TTTATATAATGTTTGCACACTGAATTGAAGAATTGTTGGTTTTTTCTTTTTTTGTTTTGTTTTTTTTTTTTTTT
TTTTTTGCTTTTGACCTCCCATTTTACTATTTGCCAATACCTTTTTCTAGGAATGTGCTTTTTTTTTGTACACAT
TTTTATCCATTTTACATTCTAAAGCAGTGTAAAGTTGTATATTACTGTTTCTTATGTACAAGGAACAACAATAAAT
CATATGGAATTTATATTT

3841/5332
FIGURE 3355

TGGGGGCGTCTCCTTCGTCCCCGCCCGGCTGTCAAGCTGTGTTCTAGCGGCCGAGGGACCGAGGGGGGCTAAGA
AAGGGGGCGCCAGCCATGCAGAGGCCAAAAGGCGCTGCGGAACGGGGTCCCCGTCGCCAGTGCTGAGGCAGGAG
GTCGGAGCCACAAGTGAGGGGCTGGGAAGCAGGACCCAGCACGGGCGTCTTGCCAGGCGGCCGGGCGCAGGGCCA
GGCTGCTGGGGACGCTCAGGGCTTTCCACCCAAGCCATGGGCGCTGTGCGGCACTCGGGGGTCCCCTCGTGGCTC
CGGCCACTCGGCGTGGGCATTACGTTGGCTTCACATCGCCATCCAGCCTCGAAGCCAACAGGACTGAAAAATAGC
TTCGGCCAAACGTTCTCTCCCCGCTAAGGAGAGGGGTGAGTGCCTCAGCCCGAGGGGACTGGAGAGGGATGCC
TAGCCCTCGAGGGGCGGAGGACCCGCGGTTGAAGGAGGCAGCGGGAGCGGAGAGCGCCCTCCTTGACCATCGAAT
GCCTCCTTCTGTGTTTCCATTCTGTGAGTGGGCTGGGCCACGCTGACCACCCTGGAGGAGGGACGGACGACGC
TCGGCGGGCTCTGACCGTGCCGCTTCTTGTGGCTGCTGACTGGGATCCAGGAGGGAGTGGGCATGGGGCGCAGC
CGCGCTCCTCCTCCTCCCCGCTCCCGGGCGCCGGGTTGGCGATGTGGAGACGTGAGGGGACCCGTCGGCTGCT
CCGGCTTCTCCAGGACTCCGCCAGGCGCCGCGCGTCCCTCCTCACC CGAGGAGGAGAGGCTCCGCGCGGGGCT
CCGAGGCGGGCGGCGCGGAGCCGAGTCCAGCCTCGCCATGGGACATAACGGGAGCTGGATCTCTCCAAATG
CCAGCGAGCCGCACAACGCGTCCGGCGCCGAGGCTGCGGGTGTGAACCGCAGCGCGCTCGGGGAGTTCGGCGAGG
CGCAGCTGTACCGCCAGTTCACCACCACCGTGCAGGTGCTCATCTTCATAGGCTCGCTGCTCGGAAACTTCATGG
TGTTATGGTCAACTTGCCGCACAACCGTGTTCAAATCTGTACCAACAGGTTCAATAAAAACCTGGCCTGCTCGG
GGATTTGTGCCAGCCTGGTCTGTGTGCCCTTCGACATCATCTCAGCACCAGTCTCTACTGTTGCTGGTGGATCT
ACACCATGCTCTTCTGCAAGGTCGTCAAATTTTTGCACAAAGTATTCTGCTCTGTGACCATCTCAGCTTCCCTG
CTATTGCTTTGGACAGGTACTACTCAGTCTCTATCCACTGGAGAGGAAAATATCTGATGCCAAGTCCCGTGAAC
TGGTGATGTACATCTGGGCCATGCAGTGGTGGCCAGTGTCCCTGTGTTGTCAGTAACCAATGTGGCTGACATCT
ATGCCACGTCCACCTGCACGGAAGTCTGGAGCAACTCCTTGGGCCACCTGGTGTACGTTCTGGTGTATAACATCA
CCACGGTCATTGTGCCTGTGGTGGTGGTGTTCCTCTTCTTGATACGTATCCGACGGGCCCTGAGTGCCAGCCAGA
AGAAGAAGGTCATCATAGCAGCGCTCCGGACCCACAGAACACCATCTCTATTCCCTATGCCTCCCAGCGGGAGG
CCGAGCTGCACGCCACCTGCTCTCCATGGTGATGGTCTTCATCTTGTTAGCGTGCCCTATGCCACCCTGGTGC
TCTACCAGACTGTGCTCAATGTCCCTGACACTTCCGTCTTCTTGCTGCTCACTGCTGTTTGGCTGCCCAAAGTCT
CCCTGCTGGCAAACCCCTGTTCTCTTTCTTACTGTGAACAAATCTGTCCGCAAGTGCTTGATAGGGACCCTGGTGC
AACTACACCACCGGTACAGTCGCCGTAATGTGGTCAGTACAGGGAGTGGCATGGCTGAGGCCAGCCTGGAACCCA
GCATACGCTCGGGTAGCCAGCTCCTGGAGATGTTCCACATTGGGCAGCAGCAGATCTTTAAGCCACAGAGGATG
AGGAAGAGAGTGAGGCCAAGTACATTGGCTCAGCTGACTTCCAGGCCAAGGAGATATTTAGCACCTGCCTGGAGG
GAGAGCAGGGGCCACAGTTTGCGCCCTCTGCCCCACCCCTGAGCACAGTGGACTCTGTATCCCAGGTGGCACC GG
CAGCCCCTGTGGAACCTGAAACATTCCCTGATAAGTATTCCCTGCAGTTTGGCTTTGGGCCTTTTGAGTTGCCTC
CTCAGTGGCTCTCAGAGACCCGAAACAGCAAGAAGCGGCTGCTTCCCCCTTGGGCAACACCCAGAGAGCTGA
TCCAGACAAAGGTGCCAAGGTAGGCAGGGTGGAGCGGAAGATGAGCAGAAACAATAAAGTGAGCATTTTTCCAA
AGGTGGATTCTTAGCAAGGATTGTAAATCTTGAAGCAACGGGGAGCTTCATATTCCCACCAGAGTGTGGGAA
TGCTGTGGCCATGTGATTGTATGATCTCCTTGCAACTCAGTGTGAGTTGATTCTCCTCAATATGGGCCAGATGCTT
TTGAATGATAGGGAATCTACATAAAATCCAGTGTCTCTTTATTGAGGGAGTATATGTATCCATCTCAGTGATC
CATGTCCTTAGTGAAGTCCACATTATTCTCTGTGGGGACAAGAGCTGGGCAGTTTGAATGGGTCTTGAGGTGGG
TACCCCATGTGCATTTCTGAGGATGCCTCACTTCCCTGGGCTCTGCAGAGAACACACAGAGAGAAGACTTTCAG
AGCTCACAGGAGCAGGGAGCAGGAGCACTCTAAGGGAATTC

3842/5332
FIGURE 3356A

GGTCAAAGAGCCCCCTGAAATCAATTAGTTTTGTACCCTCAAGGCCTAACTGGTGAAGAAGTATATGTAAAGT
GGATTTGAGGGTTAAATGCCACCTACCTATCCAGATGTAGTTCTGAAATAGAGTTAAAAAATGCCAAAGGTCT
ATCAAATGAAAGTGTCAATTTGTTAAAAATCTCGCCTAGAAGAACTGGCCAAGAAACACTGTGGGGAGGTGATGAT
CTTTGAACTGGCTTACCACGTGCAGTCATTTCTCAGCGAGCATAACAAGCCCCCTCCCAAGTCTTTTCATGAAGA
AATGCTGGAAAGGCGGGCTCAGGAGGAGCAGCAGAGGCTGTTGGAGGCCAAGCGGAAAGAAGAGCAGGAGCAACG
TGAAATCCTGCATGAGATTAGAGAAAGGAAAGAAGAGATAAAAGAAGAGAAAAAAGGAAAGAAATGGCTAAGCA
GGAACGTTTGGAAATTGCTAGTTTGTCAAACCAAGATCATACCTCTAAGAAGGACCCAGGAGGACACAGAACGGC
TGCCATTCTACATGGAGGCTCTCCTGACTTTGTAGGAAATGGTAAACATCGGGCAAACCTCCTCAGGAAGGTCTAG
GCGAGAACGTCAGTATTCTGTATGTAATAGTGAAGATTCTCCTGGCTCTTGTGAAATTCTGTATTTCAATATGGG
GAGTCTGTATCAGCTCATGGTGCACAAAGGAAATGTATTGGCAGTGATGAACAACCTTGGAATTTAGTCTACAA
TGCTTTGGAAACAGCCACTGGTGGCTTTGTCTTGTGTATGAGTGGGTCCTCAGTGGCAGAAAAAATGGGTCC
ATTCCTTACCAGTCAAGAAAAAGAGAAGATTGATAAGTGCAAAAGCAGATTCAAGGAACAGAAACAGAATTCAA
CTCACTGGTAAATTTAGCCATCCAAATGTAGTACGCTACCTTGCAATGAATCTCAAAGAGCAAGACGACTCCAT
CGTGGTGGACATTTTAGTGGAGCACATTAGTGGGGTCTCTCTTGTGTCACACCTGAGCCACTCAGGCCCCATCCC
TGTGCATCAGCTTCGCAGGTACACAGCTCAGCTCCTGTGAGGCCTTGATTATCTGCACAGCAATTCTGTGGTGCA
TAAGGTCCTGAGTGCATCTAATGTCTTGGTGGATGCAGAAGGCACCGTCAAGATTACGGACTATAGCATTCTAA
GCGCCTCGCAGACATTTGCAAGGAGGATGTGTTTGAGCAAACCCGAGTTGTTTTAGTGACAATGCTCTGCCTTA
TAAACGGGGAAGAAAGGAGATGTTGGCGTCTTGGCCTTCTGCTGCTGTCCCTCAGCCAAGGACAGGAATGTGG
AGAGTACCCTGTGACCATCCCTAGTGACTTACCAGCTGACTTTCAAGATTTCTAAAGAAATGTGTGTGCTTGGGA
TGACAAGGAAAGATGGAGTCCCCAGCAGTTGTTGAAACACAGCTTTATAAATCCCCAGCCAAAAATGCCTCTAGT
GGAACAAAGTCCTGAAGATTCTGAAGGACAAGATTATGTTGAGACTGTTATTCTAGCAACCGGTACCCAGTGC
TGCTTTCTTTAGTGAGACACAGAGACAGTTTTCCCGATACTTCATTGAGTTTGAAGAATTACAACCTTCTTGGTAA
AGGAGCTTTTGGAGCTGTATCAAGGTGCAGAAACAAGTTGGACGGCTGCTGCTACGCAGTGAAGCGCATCCCCAT
CAACCCGGCCAGCCGGCAGTTCGCGCAGGATCAAGGGCGAAGTGACACTGCTGTACGGCTGCACCATGAGAAT
TGTGCGCTACTACAACGCTGGATCGAGCGGCACGAGCGGCGGGGACCGGGGACCGCCCCCGGACTCCGG
GCCCCGCGCAAGGATGACCGAGCTGCACGCGGGCAGCCGGCGAGCGACACAGACGGCCTGGACAGCGTAGAGGC
CGCCGCGCGCCACCCATCTCAGCAGCTCGGTGGAGTGGAGCACTTCGGGCGAGCGCTCGGCCAGTGCCCCGTTT
CCCCGCCACCGGCCGGGCTCCAGCGATGACGAGGACGACGACGAGGACGAGCAGCGGTGGCGTCTTCTCCAGTC
CTTCTGCTGCTTCAGATTCTGAAAGTGATATTATCTTTGACAATGAAGATGAGAACAGTAAAGTCAGAAATCA
GGATGAAGATTGCAATGAAAGAATGGCTGCCATGAAAGTGAGCCATCAGTGACGACTGAGGCTGTGCACTACCT
ATACATCCAGATGGAGTACTGTGAGAAGAGCACTTTACGAGACACCATTGACCAGGGACTGTATCGAGACACCGT
CAGACTCTGGAGGCTTTTTCGAGAGATTCTGGATGGATTAGCTTATATCCATGAGAAAGGAATGATTACCGGGA
TTTGAAGCCTGTCAACATTTTTTGGATTCTGATGACCATGTGAAAATAGGTGATTTGGTTTGGCGACAGACCA
TCTAGCCTTTTCTGCTGACAGCAACAAGACGATCAGACAGGAGACTTGATTAAGTCAGACCCTTCAGGTCACCT
AAGTGGGATGTTGGCACTGCTCTATGTAAGCCAGAGGTCAGGAAGCAACCAATCTGCATACAACAGAA
AGTGGATCTCTTACGCTGGGAATTATCTTCTTTGAGATGTCTTATCACCCCATGGTCACGGCTTCAGAAAGGAT
CTTTGTTCTCAACCAACTCAGAGATCCCACTTTCGCTAAGTTTCCAGAAGACTTTGACGATGGAGAGCATGCAAA
GCAGAAATCAGTCATCTCCTGGCTGTTGAACCACGATCCAGCAAAACGGCCACAGCCACAGAACTGCTCAAGAG
TGAGCTGCTGCCCCCAGGATGGAGGAGTCAGAGCTGCATGAAGTGTGTCACCACACGCTGACCAACGTGGA
TGGAAGGCCTACCGACCATGATGGCCAGATCTTCTCGCAGCGCATCTCCCTGCCATCGATTACACCTATGA
CAGCGACATACTGAAGGGCAACTTCTCAATCCGTACAGCCAAGATGCAGCAGCATGTGTGTGAAACCATCATCCG
CATCTTTAAAGACATGGAGCTGTTAGTTGTGTACTCCACTACTGCTTCCCCGAAACAGACAAATATATGAGCA
CAACGAAGCTGCCCTATTATGGACCACAGCGGGATGCTGGTGTGCTTCTTTTGGACCTGCGGATCCCTTTTGC
AAGATATGTGGCAAGAAATAATATATTGAATTTAAACGATACTGCATAGAACGTGTGTTAGGCGCGCAAGTT
AGATCGATTTTATCCCAAAGAACTTCTGGAGTGTGCATTTGATATTGTCACTTCTACCACCAACAGCTTTCTGCC
CACTGCTGAAATTATCTACACTATCTATGAAATCATCCAAGAGTTTCCAGCACTTCAGGAAAGAAATTACAGTAT
TTATTTGAACCATAACCATGTTATTGAAAGCAATACTCTTACACTGTGGGATCCAGAAAGATAAACTCAGTCAAGT
CTACATTATTCTGTATGATGCTGTGACAGAGAAGCTGACGAGGAGAGAAGTGGAAGCTAAATTTTGTAACTGTG

3843/5332
FIGURE 3356B

TTTGTCTTCTAATAGTCTGTGTCGACTCTACAAGTTTATTGAACAGAAGGGAGATTTGCAAGATCTTATGCCAAC
AATAAATTCATTAATAAAACAGAAAACAGGTATTGCACAGTTGGTGAAGTATGGCTTAAAAGACCTAGAGGAGGT
TGTTGGACTGTTGAAGAACTCGGCATCAAGTTACAGGTCTTGATCAATTTGGGCTTGGTTTACAAGGTGCAGCA
GCACAAATGGAATCATCTTCCAGTTTGTGGCTTTTCATCAAACGAAGGCAAAGGGCTGTACCTGAAATCCTCGCAGC
TGGAGGCAGATATGACCTGCTGATTCCCCAGTTTAGAGGGCCACAAGCTCTGGGGCCAGTTCCCACTGCCATTGG
GGTCAGCATAGCTATAGACAAGATATCTGCTGCTGTCTCAACATGGAGGAATCTGTTACAATAAGCTCTTGTGA
CCTCCTGGTTGTAAGTGTGGCCAGATGTCTATGTCCAGGGCCATCAACCTAACCCAGAAACTCTGGACAGCAGG
CATCACAGCAGAAATCATGTACGACTGGTCACAGTCCCAAGAGGAATTACAAGAGTACTGCAGACATCATGAAAT
CACCTATGTGGCCCTTGTCTCGGATAAAGAAGGAAGCCATGTCAAGGTTAAGTCTTTCGAGAAGGAAAGGCAGAC
AGAGAAGCGTGTGCTGGAGACTGAACTTGTGGACCATGTACTGCAGAACTGAGGACTAAAGTCACTGATGAAAG
GAATGGCAGAGAAGCTTCCGATAATCTTGCAAGTGCAGAAATCTGAAGGGGTCATTTTCTAATGCTTCAGGTTTGT
TGAAATCCATGGAGCAACAGTGGTTCCTTGTGAGTGTGCTAGCCCCGGAGAAGCTGTCAGCCAGCACTAGGAG
GCGCTATGAAACTCAGGTACAACTCGACTTCAGACCTCCCTTGCCAACTTACATCAGAAAAGCAGTGAAATTGA
AATTCTGGCTGTGGATCTACCCAAAGAAACAATATTACAGTTTTTATCATTAGAGTGGGATGCTGATGAACAGGC
ATTTAACACAACCTGTGAAGCAGCTGCTGTACGCCTGCCAAAGCAAAGATACCTCAAATTAGTCTGTGATGAAAT
TTATAACATCAAAGTAGAAAAAAGGTGTCTGTGCTATTTCTGTACAGCTATAGAGATGACTACTACAGAATCTT
ATTTTAACCCTAAAGAACTGTCGTTAACCTCATTCAAACAGACAGAGGCTTATACTGGAATAATGGAATGTTGTA
CATTATCATAATTTAAAAATTAAATTCTAAGAAGAGGCTGGGTGCAGTGGCTCACACCTTTAATCCCAGCACTTT
GGGAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAGCAAGACCCCATCT
CTATAAAACTAAAAAAATTAGTTGGGCATGGTGGCACATGCCTGTAGTCCCAGCTACTCCAGAGGCTGAGATGG
ATCATCTGAGCCTCAGGAGGTTGAGGCTGCAGTGAAGTGTGACTGCGCCACTGCACTCCAGTCTGGGACAACAGA
GCAAGACCCTGTCTTAAAAAAGAAAAAATTTTTTCTAAGAAGCTGTCTACAAAGTTGAGCTTTG
TTAGTTTTTCATGTGTAATATATTATAAATTTATCTTTGGGATATAATAAATGCTTTCATAT

3844/5332
FIGURE 3357

TCGAGCCAGCGTCGCCGCGATGGTGTGTGGAGAGCGAGCAGTTCCTGACGGAGCTGACCAGACTTTTCCAGAA
GTGCCGGACGTCGGGCAGCGTCTATATCACCTTGAAGAGTATGACGGTCGAACCAAACCCATTCCAAAGAAGGG
TACTGTGGAGGGCTTTGAGCCCGCAGACAACAAGTGTCTGTGAAGAGCTACCGATGGGAAGAAGAAGATCAGCAC
TGTGGTGAGCTCCAAGGAAGTGAATAAGTTTCAGATGGCTTATTCAAACCTCCTTAGAGCTAACATGGATGGGCT
GAAGAAGAGAGACAAAAAGAACAACAACTAAGAAGACCAAAGCAGCAGCAGCAGCAGCAGCAGCACCTGCCGC
AGCAGCAACAGCACCAACAACAGCAGCAACAACAGCAGCAACAGCAGCACAGTAAAGGGCATAACATTCCTGCTT
TCACCAATTAACCACTGAATTGCTATTTTTTCCTTTGGCCAGATAGCTAGGTTTCTGGTTCCCCACAGTAGGT
GTTTTCACATAAGATTAGGGTCCTTTTGGAAGAATAGTTGCAGTGTTTATAGGATAGTTGTGGTAAGAATCTAG
TTTATTTTGCAATTGGCTAATTGGTCTGTGCTGCATGGTTATATACTCCTGGATTATAGATTAAAGTCTCTGTA
GACATCTCTGTGAAGAGCAAGCTATCATTAAACATGTCTGTTTATC

3845/5332
FIGURE 3358

GGAAACATTCTATGTATGTGAGACACACCTATGCCAGGGCAAAGACTCCAAGCTCAAGTTTTTCTCTTGCCTTC
TAGTCACAAGAACATGGCTTTGGAGTGTGACACTGGCCTAGGAATCCATGACTCCCAAAGGACGGGGCTAGGGGT
AGAGGAGGTTTCAGGCAAAGCCCTTAGATTTTGGAGACATCAGGCAGATGTCTCCAAAAATGATTGTGATCAAGAA
TCTGAATTATAAGATTACAGTCTGCTCCCAACCCAGTGCTGCCAACTGTACAGCTGCGCCTCCACGAAGGGGC
ATATGCCAGGCTCGTCTGACCCCTGGAATGAGGATGTAGGAAGCAGGCAGAGCTCGGGTTCAGCCCTCACAATGGG
ACTGAAGCAGGAGAGAAGGCTGGGCAGAAGGGCTGTGGGAAGTAGGGCTTGTCTCCATGGATGACGTCCAGAAG
GATGTCAGGAGGAGGAATATCACAGGAGTTATAGACATTGGAGGGAACAGAGACTGGCACAGGACCTCTTCATTG
CAGGAAGATGGTAGTGTAGGCAGGTAACATTGAGCTCTTTTCAAAAAAGGAGAGCTCTTCTTCAAGATAAGGAAG
TGGTAGTTATGGTGGTAACCCCGGCTATCAGTCCGGATGGTTGCCACCCCTCCTGCTGTAGGATGGAAGCAGCC
ATGGAGTGGGAGGGAGGCGCAATAAGACACCCCTCCACAGAGCTTGGCATCATGGGAAGCTGGTTCTACCTCTTC
CTGGCTCCTTTGTTTAAAGGCCTGGCTGGGAGCCTTCCTTTTGGGTGTCTTTCTCTTCTCCAACCAACAGAAAAG
ACTGCTCTTCAAAGGTGGAGGGTCTTCATGAAACACAGCTGCCAGGAGCCCAGGCACAGGGCTGGGGGCTGGAA
AAAGGAGGGGCACACAGGAGGAGGGAGGAGCTGGTAGGGAGATGCTGGCTTTACCTAAGGTCTCGAAACAAGGAGG
GCAGAATAGGCAGAGGCCTCTCCGTCCCAGGCCCATTTTTGACAGATGGCGGGACGGAATGCAATAGACCAGCC
TGCAAGAAAGACATGTGTTTTGATGACAGGCAGTGTGGCCGGGTGGAACAAGCACAGGCCTTGGAATCCAATGGA
CTGAATCAGAACCCTAGGCCTGCCATCTGTCAGCCGGGTGACCTGGGTCAATTTTAGCCTCTAAAAGCCTCAGTC
TCCTTATCTGCAAAATGAGGCTTGTGATACCTGTTTTGAAGGGTTGCTGAGAAAATTAAAGATAAGGGTATCCAA
AATAGTCTACGGCCATACCACCCTGAACGTGCCTAATCTCGTAAGCTAAGCAGGGTCAGGCCTGGTTAGTACCTG
GATGGGGAGAGTATGGAAAACATACCTGCCCGCAGTTGGAGTTGGACTCTGTCTTAACAGTAGCGTGGCACACAG
AAGGCACTCAGTAAATACTTGTTGAATAAATGAAGTAGCGATTTGGTGTG

3846/5332
FIGURE 3359A

GT TAGTGGTCTGGAGAGCACTACAAGCCCTCACAGGCCCCAGGAAGCTGCTTTTCCTTTCCCCAGACCTTGAGCT
GAACAGCTCGAGCTCCCAACAACACTCTGAGGCCTGCACCCAGAGGCAGTGCCAGGAGAGCGCTGTCCGGCCTCG
GAGAATGGTGGAGCCCCCTGGAGGACAGAAGGCAAGAGAAGCTTCTTCTGTGGCCCCCTGAGAAGAGCTATGCAAA
GCTGGTGTTCATGTCCACCTCCTCGGGCAGCCTATGGAACCTGCATGCCATCCATTCCATGTGTGCGCATGGAACA
GGACCAGATCCGCTCCCATACAGCTTCGGGGCTCTGTGCCAGCGGACAGCAGCCAACCAAGCTGCTGCCCCAGCTG
GTCCCTGGGCAACTATCTGGCTGTGCTCTCCAACCGCTCCTCTGCCTGGACACTACCAAGCTGACGCAGCCCCG
CACACTGGCCCTGCTTCGGACCTGTGCCCTCTACTACCACAGTGGCGCCTTGGTGGCCTCTTGTCTGGGACCTGG
GCAGAACAAAGTCCCAACGCTGTGCCCAGGTTCCCAACCAAGTGTCTCCAGAGTAGTGCCATCTACCAACTCCTGCA
CTTTCTGCTTGACAGGGACTTCTGAGTCCCCAGACCACTGACTACCAGGTGCCTTCCCTCAAGTACAGCCTGCT
CTTCCTGCCACCCCAAAGGGTGTCTCCCTCATGGACATCTACCTGGACCGGCTGGCCACCCCTGGGGGCTTGC
TGACAACATACACTCTGTCACTGGCATGGACCTGGGCCCTCAAGCAGGAGCTGCTGAGGCACTTCTGGTCCAGGA
CACGGTGTACCCCTTGTCTGGCTGTGGTCTCTTCTCGGCATGGCCCTGTACCTGCGCTCACTCTTCTCTCA
GCTCATGGTGTGTCTGGGGGTGCTGGGCTCACTGTGGTGGCCTTCTTCTTACCAGGTGGCCTTCCGCACTGGC
CTACTTCCCCTTCGTCAATCTGGCAGCCCTCCTCCTGCTGAGCAGCGTCTGCGCCAACCACAGCTCATCTTCTT
CGACCTGTGGCGCCTTAGCAAGAGCCAGCTGCCGTGGGGGGGCTGGCGCAGCGCTGGGCCGCACCATGCAACCA
CTTCGGCTACCTGCTGTGTGCTTCCGGCCTCACCACGAGCGCGCCTTCTATGCCAGCTACCTGAGCCGCTGCC
GGCCGTTGCTGCTCGCCCTCTTCATGGGCACGGCTGTGTGGTGCACCTGGCGCTCACGCTGGTCTGGCTGCC
CGCCTCCGCGTGTCTCCACGAGCGCTACCTGGCGCGCGGCTGTGCGCGCCGGGCGCGGGCCGGTGGGAGGGCAG
CGCGCCCCGGGGCTACTGCTGGCGCTGCACCGCGGCTCCGCGGCTGCGGAGGGCGGGCGGCTGGCACCTCGCG
TCTGCTCTTCCAGCGCTGTGCTGCCCTGCGGCGTCAAGTTCCGCTACATCTGGATCTGCTGGTTCGACGCACT
GGCGGCAGGGGGCGCCTACATCGCCGGAGTCAAGCCCCGCTGCGGCTGCCACGCTGCCGCGCCCGGGCGGCA
GGTCTTCCGGCCCAGCCACCCCTTCGAGCGCTTCGACGCGGAGTATCGCCAGCTGTTCTGTTTCGAGCAGCTGCC
GCAGGGCGAGGGCGGCCACATGCCCGTGGTTTTGGTGTGGGGCGTCTGCTGTGGACACTGGCGACCCTCTGGA
CCCTCGTAGCAACAGCAGCCTGGTGGGGACCTGCCTTCTCGGCCAGCGGCCCTGAGGCCAGCGCTGGCTGCT
GGCACTCTGTACCGGGCCCGGAATCAGAGCTTCTTCGACACCCTGCAGGAAGGCTGGCCCACGCTGTGTTTCGT
GGAGACCCTCCAGCGCTGGATGGAGAGCCCCAGCTGCGCCCGCTGGGGCTGACCTCTGCTGCGGCCACTCGGA
CTTCCCTGGGCCCCCAGTTTTTCTGCACTGCCTGAAAATGATGGCTCTGGAGCAAGGCCCCGATGGCACCCA
GGACCTGGGACTCCGCTTTGATGCCCATGGCAGCCTGGCCGCCCTGGTCTTACAATTCCAGACCAACTTCCGGAA
CAGTCCGGACTACAACCAGACCCAGCTCTTCTACAATGAGGTAGCCACTGGCTGGCAGCGGAGCTGGGCATGGC
ACCTCCAGGCCTCCGCGTGGTTGGTTCACTAGCCGTCTAGAGCTGTATAGCCTGCAGCACAGCCTGAGCACTGA
GCCTGCTGTGGTGTGGGCTGGCTTTGGCGCTGGCCTTGCCACACTGCTCCTGGGCACCTGGAATGTTCCCT
CAGCCTATTCTCCGTGGCAGCTGTGGCAGGCACCGTGTGCTCACTGTAGGACTCCTGGTTCTCCTCGAGTGGCA
GCTCAACACTGCCGAGGCCCTGTTTCTCTGCTCAGTGGCCTCTCAGTAGACTTCACTGTCAACTACTGCA
CTCCTATCACCTGTGCCACACCCCTGACCGCTGAGCCGTGTGGCCTTCTCTGCGCCAGACCAGCTGCGCCAC
AGCCGTGGGGGCTGCAGCCCTGTTTGGCGCAGGCGTGTCTATGCTGCCACAGTGTGCTCTATCGCAAGCT
GGGCATCATCTCATGATGGTCAAATGCGTCAGTTGTGGCTTGGCCAGCTTCTTCTTCCAATCTCTGCTGTTT
CTTCGGGGCAGAGAAGAACTGTGGGCAGATCCTCTGGCCCTGTGCCACCTGCCATGGGATGCTGGTACTGGGGA
CCCTGGTGGGGAGAAGGCAGGCCGCCACGACCAGGGTCAGTGGGAGGGATGCCCGGGTCTGCTCAGAGCAATA
TGAGCTACAGCCCTGGCACGGCGTCGGAGCCCCAGCTTTGACACCAGCACAGCCACCAGCAAGCTGTCCACCG
GCCCTCAGTACTCTCTGAGGATCTGCAGCTCCATGATGGTCCGTGCTGTTCCCGGCCCCACCAGCCCTGCCTC
CCCAAGGGAGCTGCTGCTGGACCAACAGGCACTTTCAGCCAGTGCCCTGCCCTGCAGACCTCCTCCCCCTATAA
GCAGGCTGGCCCCAGCCCCAAAACCCGGGCCAGGCAGGACTCCCAAGGGGAGGAGGCTGAGCCCTGCCAGCCTC
ACCAGAAGCCCCAGCCACTCTCCTAAGGCCAAGGCTGCAGATCCTCCTGATGGCTTCTGTTCTCAGCCAGCAC
CCTGGAGGGCTCAGCGTCTCTGATGAGACCTGCCTAAGCACCTCTGAGCCAGTGCCCGTGTACCAGATTCCGT
GGGTGTGTCCCGATGACCTGGATGACACTGGGAGCCAGTCTTGGAGCGAGGCCAGCTCAATGGGAAGCGGGA
CACCTGTGGCTGGCGCTGAGGGAGACAGTGTATGACCATCATTTGCCCGCTTCCATCACAGCAGCTGTCTCTG
GAAGGGCCGAGGGGGCAGGGGATGGCAGCCCTGTGGTGTGCCAATAGCCAGCCAGACCTGCCAGATGTTTG
GCTGCGCAGGCCCAGCACTCACACGTCAGGCTATAGCAGCTGAGGGGGACCCGGGGAGGCTGGACAGGGCGCGGA

3847/5332
FIGURE 3359B

ACCCTGTCATGGATGACAAGGCAAGGGCAGCAATAGGCTGGAGCCCCGAAGGTATTTCTCCAGATCCACAGGGAGA
GGTCTCACCCCTCCAGCTGTGGATGTTAAACCCTGCCAGATGTCCCAGCCTTGATCTGTCTGCTCCTACTCCTCAC
ATCTGGAGGATTCCAGCAGGAGGGGTTTTGGAGGGGACCTGCTTGCGACCTGCTGAGGGCTTGTCTGCTCCCACA
GCACCATCTAAGACCCCTCCTCTAGAAGTGGGGAAGGCCAGATGTGTAGCTTCGGGTATCAGAGGAGGCTGACCT
GGCCCCATCCCAAGTTACAAGAACTTCAGTGAGACTAAGGGACCCCATCCTAGGGATCTTGTTCAGGGTTCCTT
ACTGACCAGAGGAGCCCGCAGCAATCTCCACAGCCTCCTGGGTCTCACCCCTTTCATGGGCTCTTCATCAGGACA
CTTCCCTCTCTTTTGGGAGCTTCTCTGGGCAGAATTGGGCTGGGACCTCTCTCCCCAACTGCCCTGCTCTCCTCA
TACTCACCGTTTGACCAGAAATTCTCCAAATCCAGCCATAGATGGCTGCTGGGTGTGCAGCAGGAGAAGGAGGA
TGGTCAGCCTTGGAGCATCTCTCAATTACGGGACAGTCCCTCTTTGGAAGCAGGCTCCTGTGCTTTCCTGTGTTA
ATAAACAGTAATAATCCTTTCCATCTCTGC

10/531147

3848/5332
FIGURE 3360

ACAAATTGCATCACCTCCTCCTCTGCCAGACCTGGGGGCTCCAACACCTTTTCGCTAGGTCTGGCTCTGGCCTC
TGAGCGAACCTTCCGTACAGTATGGCGGCTCCCGAAGCCCCGCCCTGGACAGAGTTTTCCGTACAACATGGCTG
TCTACAGAGTGCGATTCCACCCACTTCCGCCTAGCTACCGGAAGTTTCTATTTGAAACCCAGGCGGCCGACTTA
GCCGGTGGCAGCAGATTGCTGCAGGGAATCTTTTAAACGAGAGCGAGAAGGACTGCGGGCAGGACCGGCGGGCT
CCTGGGGTTTCAGCCGTGCCGCTCGTTACGATGACCAAGTGTGGTTAAGACAGTGTATAGCCTGCAGCCCCCTCT
GCGCTGAGCGGGCGCCAGCCGGCAGACACACAACTCGGGCCACTTCTAAGAGTCTCTTACCTGTTAGGTCCAAA
GAAGTCGATGTTTTCCAAACAGCTTCATTTCAGGAGGTCCAGAGAATGATGTTACAAAATCACCAACTGAGACGA
GAGAATGGGCAAATGAAAGCTACTGACACTGCCACCAGAAGGAATGTCAGAAAAGGCTACAAACCACTGAGTAAG
CAAAAATCAGAGGAAGAGCTCAAGGACAAGAACCAGCTGTTAGAAGCCGTCAACAAGCAGTTGCACCAGAAGTTG
ACTGAACTCAGGGAGAGCTGAAGGACCTGACCCAGAAGGTAGAGCTGCTGGAGAAGTTTCGGGACAACCTGTTTG
GCAATTTTGGAGAGCAAGGGCCTTGATCCAGCTTTAGGCAGTGAGACCCTGGCATCACGACAAGAATCCACTACT
GATCACATGGACTCTATGTTGCTGTTAGAACTTTGCAAGAGGAGCTGAAGCTTTTTAACGAAACAGCCAAAAAG
CAGATGGAGGAGTTACAGGCCTTAAAGGTAAAGCTGGAGATGAAAGAGGAAAGAGTCCGATTCTAGAACAGCAA
ACCTTATGTAACAATCAAGTAAATGATTTAACAACAGCCCTTAAGGAAATGGAGCAGCTATTAGAAATGTAAGAA
GAAGCAAGTGGCCAGATGGCTCCCTCTTGGGCATAAAATCTCAGAGGAAGCTACTTAGGACATCATCTTGCCCAT
GATCTTCTGGGACTCACCATCTCCAGAATGAAAACAATTTCTACAGTAGACTTAAGGACAGTTTATGCTGAAATG
GCAATTCCTCATTTAAGCAAGTTTTCCCAACCTTCAGGTTGGTCAGCCCTCCTGAGCCTCACAGGTGGATAATTG
AGGCCTACAAGAGAGGGGAGCCTAGGAGCTTGGATTGACCTTCTAGTCAACCACCTGACTTCAGCACACCATTAC
AATCGGGAGACTAAACCAACAACCAGAGGATCTAAAATGTCACATTTCAGATTTTCAGGAAGAAAATCTTCATTAC
AGTGGAGCACAAATGTTCCATACAAGACATCATTGAGGAGCCATGCTGTCCCCTTCTAACCTGAAACACATTCTT
TCCCATCCTGGTTGGGCTTCTGTACCTCCTTATTAATTTATGAACCTGAAGTTGCTTGAAGTGTTTTGGGCTTAA
TAAATGGGGTGAAGTATAGGTAGCAGTAACACCTACATGAAACAATACACCTTGATCTTTTAACTAAATTAC
TTTTCTTTTTTAAGTCTACTTTTAAATAAATACTTCTGTAAATATTCTGACTGTAACATTGAGGAATGAAATA
GCCTTTTAACCTA

3849/5332
FIGURE 3361

TTTCCGCAGTTAGGGGCTGCTATTTCAACGCAGGGAGATAAAAAGAAAAAACACTTGCTCTTCTACCCCGCTAA
AAACACTCATCCTAGGGAGCACGCCAGCATTTCAGCGTTTCGGGGCAGGGCCACTCGGCCTGCGGCCGTTGCACT
GGCTGGAAGCTGGCAGGCGATCACGGTTGATTGGCTCGGGTGCGGTCCAAGGGCAGCAACGCCTTCGGCGGGCCG
CCTAGGGTGATTGGCTGCTGCAGCCACCCCCCTAGCCGGTTTGGTGGGCGGCGAAGCCTGGATTGGTGGAGCTAA
GAGCTGGCTCAGTTTCAGCGCTGGCTCTTCGTGCATGGCAGAGATGGCGACTGCGACTCGGCTGCTGGGGTGGCG
TGTGGCGAGCTGGAGGCTGCGGCCGCCGCTTGCCGGCTTCGTTTCCAGCGGGCCCACTCGCTTTTGCCCGTGGA
CGATGCAATCAATGGGCTAAGCGAGGAGCAGAGGCGAGCTTCGTGACACCATGGCTAAGTTCCTTCAGGAGCACCT
GGCCCCAAGGCCAGGAGATCGATCGCAGCAATGAGTTCAAGAACCTGCGAGAATTTTGGAGCAGCTGGGGAA
CCTGGGCGTATTGGGCATCACAGCCCCGTTCAGTATGGCGGCTCCGGCCTGGGCTACCTGGAGCATGTGCTGGT
GATGGAGGAGATATCCCAGCTTCCGGAGCAGTGGGGCTCAGTTACGGTGCCCACTCCAACCTCTGCATCAACCA
GCTTGACGCAATGGGAATGAGGCCAGAAAGAGAAGTATCTCCGAAGCTGATCAGTGGTGAGTACATCGGAGC
CCTGGCCATGAGTGAGCCCAATGCAGGCTCTGATGTTGTCTCTATGAAGCTCAAAGCGGAAAAGAAAGGAAATCA
CTACATCCTGAATGGCAACAAGTTCTGGATCACTAATGGCCCTGATGCTGACGTCCTGATTGTCTATGCCAAGAC
AGATCTGGCTGCTGTGCCAGCTTCTCGGGGCATCACAGCCTTCATTGTGGAGAAGGGTATGCCTGGCTTTAGCAC
CTCTAAGAAGCTGGACAAGCTGGGGATGAGGGGCTTAACACCTGTGAGCTAATCTTTGAAGACTGCAAGATTCC
TGCTGCCAACATCCTGGGCCATGAGAATAAGGGTGTCTACGTGCTGATGAGTGGGCTGGACCTGGAGCGGCTGGT
GCTGGCCGGGGGCTCTTGGGCTCATGCAAGCGGTCTGGACCACACCATTCCCTACCTGCACGTGAGGGAAGC
CTTTGGCCAGAAGATCGGCCACTTCCAGTTGATGCAGGGGAAGATGGCTGACATGTACACCCGCTCATGGCGTG
TCGGCAGTATGTCTACAATGTCGCCAAGGCCTGCGATGAGGGCCATTGCACTGCTAAGGACTGTGCAGGTGTGAT
TCTTTACTCAGCTGAGTGTGCCACACAGGTAGCCCTGGACGGCATTGAGTGTTTTGGTGGCAATGGCTACATCAA
TGACTTTCCCATGGGCCGCTTTCTTCGAGATGCCAAGCTGTATGAGATAGGGGCTGGGACCAGCGAGGTGAGGCG
GCTGGTCATCGGCAGAGCCTTCAATGCAGACTTTCAGTCTCCTGAGACCCTTCGCCCCCTTTTCTGACCTAG
TGGCCTTTCTTGGGAAGTAGAGATGTGGCGGCTTTCCACCCCTGCCACAGCAGGCCCTCCTGCCAGCTGCTCT
TGTCAGCCCTCTGGCCTCTGGATGAGGTTGAGTTCTCCACAACAGCTCCCAAGCATCATGGCCCTCGCAGCCGGG
CCTGTGCCACGGCTAGTGTGTGTGATTTAAATGGACTCAGCAGGAAGCATATTGTCTGGGGATTGTTGGGACA
GGTTTTGGTGACTCTGTGCCCTTGCTCTCTAACTTCTGAGCCACCTCCCAGGGTAGGCACCTGGGGGCATGCAG
GTGCCACCTCCCAGGGTAGGCACCTGGGGGCATGCAGGTACCCACCTCTTTCTCTTGGGTGAGGCTCTGGCAAG
GAGATCTCTCTGCTCAAGCACAGCAGAATCATGGCCCCCTCTCCATGAATTGGAACCTGGTACAGGTTAAGTATCC
CTAATCCTGAAATCTGAAACACTTGTGGTTCCAAGCATTTTGGATAAGGCAAATTCACTTTCAGTCTCTTTTCT
GGGGGAAAAAATAATAAACCTAGCCTAGCCAGGCGTGGTG

3850/5332
FIGURE 3362A

TTTCTCGAGAACCTACTGTGTGCATATCCCGGGCTTAGTGAAGTCCTAGGCGGGCTCTGGCACCACCAGGTGCCC
AAGACACAGCTCCTTCCCGCACCTAACAGGGACTTCCCATCTCTCTGTGCCCTTAGCCTGCTGTGCCACCCA
CCCCACTGACCCCGGAGCGTGTCTCGGGCTTGGGAGGGCACGTCTGTGGGGGTGAGAGACGGAGCCACAGCATTT
GGTGACTAGGGGGAAGCCAGGTTGGAAGTACTCCATGACACACACTCGGAGAAAGTCCCTTCCCATGCTGAGTTC
GGGCCTCACTGGCCGCCGAGAGCCCTGCAGATGGAAGACAGCAACATGGAGCAGGGGGTTGAGGGTGTGGAGCC
AGGCATGCCCCGAGAGCCCAGGTACCTCACAGGGCGCCGCAAGAATTACCCACTTCGTAAGCGCCCATTGGTTCC
TGAGAAGCCCCAAGGCCTGCAAAGTGCTGCTGACTCGCCTGGAGAATGTGGCCGGTCCCCGGAGTGCAGATGAGGC
TGATGAGCTACCGCCTGACCTGCCCAAGCCCCCAGCCCGGCCCATCCAGTGAAGACCCCTGGCCTTGCCAGCC
CCGCAAGCGGCGCCTGGCCTCCCTCAATGCTGAAGCTCTCAATAACCTGCTGCTGGAGCGAGAGGACACCAGCAG
CCTGGCAGGCACCCGCGCAGTCGAGCAGGGGATCCCCACCGCAGCCGTGACCGTGATCGTGCTACTGGGGGCTG
GTCTCTCTCAAGAAGCGGCCCGGCTGGGGGACCTTGGAGGAGGAAGTCGGGACCTGTCTCCAGAGCCAGCACC
CGATGAAGGTCCCCGCGAGATGGAGACCCAGCTCCCAAGAGACTGGCTAGCCTGAACGCAGCTGCTTTCCTAAA
ACTGAGCCAGGAGCGGGAGCTACCCCTGCGGCTGCCTCGTGCCCATGCAGAAGTAGATGGGCGCTCCACTGAGCC
CCCAGCACCCAAGGCCCGGAGGCCAAAGTGGCCCAAGGTCAATGGCAAGAATATCCCAAGGCTTGGCAGGGGGC
CAGCTCTGGGGAGGCTGCAGGCCACCTGGCTGGCAAGGCTGCCTGATGAACCATGGCCATCTGCAACTCCTTG
TGGGCCATCCGTCCAGCCATCTCATCAGCCCTGAGCAAGGCTCTGGAGAGCCCTTTGGGGCTGCGCCCTCACCT
GCCCCTGCTGATGGGTGGACAGGCGGCTCTGAAGCCGGAGCCTGGGCGCCAGGCGAGGAGTCACCTGCCCCTAA
GCAGGAATGCATCAGCCCTCTTTCCCCACACCTCAGCTGTGCGCGCTGCCGATGCCTGGCAACCCCGCCGACTA
CAATGGCCTGTGTGTTGGGCCTGAGCTCACTGCACTAGGCAGCTTCTACCTGTACTGTGGCCAAGAGGGGCTGCA
GTGTGGGGCTACTCGCCCTGCCCCATGCTTCTGAGGGCAAGCTGTCCCCAGTGGCTGCACCTCACGAGGAGGG
GCTCCTCTTAGCTCCGAGCTCAGTGCCCTCAGGCACCCCTTTCCAGCACCCCTCCCTGGGGCTCCTCTCGCTACTG
CTCTAGCGAGGACACTGGAGTGAATGGCTACAGCATCTGCGGAGTGTGGCCCTGTCTGTTACCCACGCTGGCAC
TACCTGTGGCGGCTGCCCATACAAAATGCCCTTTTGACAGAGGCTGCAGATCCCTGGGCCAGTTGGAATTTCTCT
CCCGGAAGCTGGCCACCCAGCCTCACCCGCCACCCACTCCTGGGGTGCCTGTACCCAGTGTGCCACCTGCAGC
AGAGCCCGTCCCCCATCTTCAGACACCCACCTCGGAGCCCCAGACAGTAGCCCGTGCGTGCCCTCAGAGCGCCAA
ACCTCCCAGCGGTTCTAAGTCAGGTCTGCGCACAGGCTCCAGCTGCAGGCACACTGCAAGGAGCAAGGCTGCCCG
CAGGCCTAGCCACCCCAAGCAGCCACGTGTCCAGCGCCACGCCCTCGCCGCGCCGCTCGCCGCCGCACTAATGG
CTGGGTACCTGTTGGGGCTGCGTGTGAGAAGGCTGTGTATGTCTTGGATGAGCCGGAGCCAGCCATCCGAAAGAG
CTACCAGCGGTTAGAGCGGCATGGGGAGACAATCCGAGTCCGGGACACCGTCTTCTCAAATCAGGCCCACGAAA
GACCTCCACACCTTATGTGGCCAAGATCTCTGCCCTCTGGGAGAACCCCGAGTCAGGAGAGCTGATGATGAGCCT
CCTGTGGTATTACAGACCTGAGCACTTACAGGGAGGCCGAGTCCCAGCATGCACGAGCCCTTGAGAATGAAGT
GTTTGCATCGGACATCAGGACCAGAACAGTGTGGCCTGCATTGAGGAGAAGTGCTATGTGCTGACTTTTGCCGA
GTACTGCAGGTTCTGTGCCATGGCCAAGCGCCGAGGTGAAGGCCTCCCCAGCCGAAAGACAGCACTGGTTCCCCC
CTCTGCAGACTATTCCACCCACCCACCCGACAGTGCCAGAGGACACGGACCCCTGAGCTGGTGTCTCTTTGCCG
CCATGTCTATGACTTCCGCCACGGGCGCATCTTAAGAACCCCCAGTAGCCTCCTCATGCCATGCTGGGGCTAC
CCATGGGCAAGTGGGGCTCGGGGTAGGGGGCACTGCTTGAAGCACAGCACTTGGTTAGGGGGCCACAGAGGCCTA
AGTTTGTGTCCTGTGGTTTCTTGGGGGGGAGGGCAGGGGCCCTGTGGGTTCTGGGCTCCAGGGGAGGGAGCT
GGGGAGGCCAGGGTATAAGAAAAGCATCAGAACTCTCAGCTTGGCCCAAGGTACCTTCTGTGGTTCCCCTGGGTG
GAGATTTCCGAAAAGTAGTCTTCTGAGGCTGGGCCAAGCCTGAGGGAAATGGGGCCCTAGGAGGGTGGGGGCG
GGAAGGAGGGGCAAGGTCTTTCAGGAACAGACCCAAACAGGCCCTTCTGTAGCCTCCCCCTTGCCCTCAAAGGGG
GAGTGGGGGCCAGCTTTACCTCACCCACTGTGACCCGCCGCTTCCCCCTCAGCCTGGGACCAGGCTTTCCTAGAT
CCCAGCACAGCTCTGAGCTTGTTCCTTTGAGGCATAGAGAGCCAGAGTCTGGCTTCCAGAGCATTGACTTCTCT
TCCTAGACTTGAGGCCTTTTCTCTGGCTTTCTCTCTTTGCCCTGCAGTAGCAACTGGTGCTGGGACAAGTTGACC
CACCTCTCACAGTCATGGGTGTGGCCACTTGTGGGAGTCTCCTGTCCACCTCCCAGAGACGGCCACCCAGCGGG
TCTGGCTTCCCAGAAAAGTTAACTGATGATTGTGGGGTTTGTATATCTGGGAGGGAAGATGGGTGCTGGGAGAGG
GTTGGGGGAGGGGGCAAGGAAAATTGCTACCTGATTTGTTGAAGATTTTCTCTTGCCTTACACATGGAGGTT
CCAGGAAACCTCTTGAGAACTTACACGTGATTCTTCAAGCCACACCCACCTGAAATCAAACCAAAGGAGTGCT
GTGGCTCCCTTGCCCTGCCACCCCTTCCCTAGTCTTTTGTAGATTGCACTAATTTACATCCTAGCAAGAATCAA

3851/5332
FIGURE 3362B

CAC TGTATCAGTCCACGGACCTGCTGAGCTGCAGCCACTTGCTCTAGGAGCTAAGGACTTGCA TTTTCAGTTTGT
TCCTGTTGCCCAGAGGCCCTGTTCTCACCTCATGCTGCTCCCCAGAGTAGACTAACAGGCTCAGTCCCCTGTTGT
CCTTGTGGAGACTAGGCCTTGGCCCTGGCCCTGAGACTCTGTGAGGGGGCTGGAGCAGCCTGGTTATTTCTATC
TGTACCAAAGAGGAGTATGGTGGGAGAGGGAGTGGAGTGCAGTGTGGCTTGGGCCTGGTGCTGGGAACCTGCTAG
CTGAGCACTTCCACAAGGGCATACCCTGGGGGCAGGGGCTGGGGCTGAGAACTGCAGCCCTGGGTCTTCCCTTA
GGGAGGAAGGGCAGATGAACCCAGCAGGCTTAGGAGGTGGCACTGGGTGAGGACAGCTGGGCAGGGGCTGCAGAG
GGAGGTGGAAATGAACCCTGAGGGCTCCCCAACTTGCCATGCCCTGTCCCTTAGTAGATGAGTTGCTCCTGATT
GGTCATTGGGTTTGGGTGAGGCCTGGAGGCTTCAGAGGTGAATTTATGCTTGGGAAGCCTGATCCCAAACCTGAA
GGGAAGGGACTTGGATCTCCTTATATTGAATAAGCTGTTTGGAGGAAGGTGTCTGTCTGGGAGGATGGGGCAGTA
AATGAGGTTGGCAGAGTGGCAGTGGGGGCTCTGCAGAGCCAGCCTTGGAGCCTGCTCATTCTGGGCCCTTGCTGC
CAAGGAGCCCAGCCTCACCTAGCAGGAAAGGAGATGAAGGCCCTCCTCCCAGGAGGTAGGGTCTTGGCTGCCCCG
AACTTAAATGCTTTTGAATCTCTTAGATGTGGAAATATTTTTTCGAACCTGAAAATGCAGCTGGTAGAATTTCA
ATGGAAGCATAATCCATGTAAATATATTTTAGTTGATATTTTGTAATGCACCTTTTGTGTGTGTTGATCCTG
GTTTCCCAGATCTGTATTTTCA GTTTTACAAGGGAGGAAGGACCTTTCCTCACCTCCCTTTTGACAGAGATTAGA
AGTACTTCTTTAAGAAAAAATAAATTTGAGAAATTGTATTGATTAG

3852/5332
FIGURE 3363

TCCGGCCCGGGTCCCTCGCCGCGCCGCGCCGCGCCGCGCCGCTTCGGCGCCGCGAGCCGGGAGCCGGCCACCCCT
ACACGCGCCAGGGCTGTCCCCTGCCCTCCCCTCCCCAACTACCCCCGGTCCCAGACCCTCCTCCCGCCCCAGCC
CGAGCCCGCCTTCCAGGCCGCGCTCGGATCGGCCGGGCCCCGCGCAGGCCCCCACCCTTGAGCACCATGTTCCCC
CGCCCGCTGACCCCGCTGGCGGGCCCCAAATGGCGCCGAGCCCTGGGCGGGCGCTGAGGCGGGCCCTCTGGGC
AGGGCCCGGGCGGGGCTGGGTGGGCGGCCCTGCTGCTGCCGTCCATGCTGATGTTTGCGGTGATCGTGCCCTCC
AGCGGGCTGCTGCTCATGATCGAGCGGGCATCCTGGCCGAGATGAAGCCCCTGCCCTGCACCCGCGCGGCCG
GAGGGCACAGCCTGGCGCGGGAAGCCCCAAGCCTGGGGGCTGTCCCTCAGGGCTGGGGACGCGGACTTGCAA
GTGCGGCAGGACGTCCGGAACAGGACCCTGCGGGCGGTGTGCGGACAGCCAGGCATGCCCCGGGACCCTGGGAC
TTGCCGTGGGGCAGCGGCGCACCCCTGCTGCGCCACATCCTCGTAAGTGACCGTTACCGCTTCTCTACTGCTAC
GTCCCCAAGGTGGCCTGCTCTAACTGGAAGCGGGTGATGAAGTGCTGGCAGGCGTCCTGGACAGCGTGAGCGTC
CGCCTCAAGATGGACCACCGCAGTGACCTGGTGTTCCTGGCGGACCTGCGGCCTGAGGAGATTGCTACCGCCTG
CAGCTACTTTAAGTTCTGTTTGTGCGGGAGCCCTTGGAACGCGCTCCTCTCTGCTACCGCAACAAGTTTGGC
GAGATCCGAGAGTACCAGCAACGCTATGGGGCTGAGATAGTGAGGCGGTACAGGGCTGGAGCGGGGCCAGCCCT
GCAGGCGACGATGTACATTCCCCGAGTTCTTGAGATACCTGGTGGATGAGGACCCTGAGCGCATGAATGAGCAT
TGGATGCCCGTGTACCACCTGTGCCAGCCTTGCGCGTGCACTATGACTTTGTGGGCTCCTATGAGAGGCTGGAG
GCTGATGCAATCAGGTGCTGGAGTGGGTACGGGCACCACCTCACGTCCGATTTCCAGCTCGCCAGGCCTGGTAC
CGGCCAGCCAGCCCCGAAAGCCTGCATTACCATTGTGCACTGCCCCCGGGCCCTGCTGCAGGATGTGCTGCCT
AAGTATATCCTGGACTTCTCCCTCTTTGCCTACCCACTGCCCTAATGTCACCAAGGAGGCGTGTGAGCAGTGAACA
TGGGTGTGGGGCCAGCAGCTGGTGGGGACTGGTTTCAACGCCAGCTTCTGTGCTTCTGCCTGTCATTGCGAGAA
ACTCTGGCTCTGGGGCTTGGGGCTTCTCAGGATCCTGGATGGCAGAGACTGCCCTCAGAAGTTCCTTGTCAGGG
TGGGCACCCACAGTGACTCAGAGGACAGGGCTAGGCAGGAGACCTGCTGCTCCTCATTGGGGGGATCTCTGGGG
GGCAGACACCAGTTTGCCAATGAAGCAACACATCTGATCTAAAGACTGGCTCCAGACCCGGGCTGCCAGGATTA
TGCAGTCCACTTGGTCTACCTTAATTTAACCTGTGGCCAACTCAGAGATGGTACCAGCCAGGGGCAAGCATGAC
CAGAGCCAGGGACCCTGTGGCTCTGATCCCCATTTATCCACCCATGTGCCTCAGGACTAGAGTGAGCAATCAT
ACCTTATAAATGACTTTTGTGCCTTTCTGCTCCAGTCTCAAAATTCCTACACCTGCCAGTTCTTTACATTTTC
CAAGGAAAGGAAAACGGAAGCAGGGTTCTTGCTGGTAGCTCCAGGACCCAGCTCTGCAGGCACCCAAAGACCC
CTGTGCCAGCCTCTTCCTTGAGTTCTCGGAACCTCCTCCCTAATTCCTTCCCTTCCCTTCCCCACAAGGCCTTTGAG
GTTGTGACTGTGGCTGGTATATCTGGCTGCCATTTTTCTGATGCATTTATTTAAATTTGTACTTTTTGATAGAA
CCCTTGTAAGGGCTTTGTTTTCTAATAGCTGACTTTTTAATAAAGCAGTTTTATATAT

3853/5332
FIGURE 3364

GGGGACTCCGCCCCCTCCCGATTTCCTCCGGGCTACAGGCGACAGAGCTGAGCCAAGCGTTTACTGGGCAGCTGTT
ACGCTCAGATTCCAAATGAAATGTTTGAGAGCGCTGACTCTACAGCCACAAGATCTGGCCAGGATCTCTGGGCT
GAAATTTGTTCTGTCTGCGCAAATCCTGAACAAGAAGATGGTGCCAACAATGCATTCTCAGACTCCTTTGTGGAT
TCTTGCCCTGAAGGTGAAGGCCAGAGGGAGGTGGCTGACTTTGCTGTCCAGCCAGCTGTAAAGCCTTGGGCTCCC
TTGCAGGATTGAGAAGTGATTTAGCATCTCTAGAGAAGAAGCTAAGAAGAATCAAAGGTTTAAATCAGGAAGTG
ACTTCCAAGGACATGCTTCGAACTCTGGCCCAAGCCAAGAAGGAATGCTGGGATCGGTTCCCTCCAGGAGAAGTTA
GCTTCAGAGTTCTTTGTGGATGGACTTGATTCTGATGAGAGCACCTTGGAACATTTCAAGAGGTGGCTCCAGCCA
GATAAAGTAGCCGTCAGCACAGAGGAGGTCCAGTATCTGATTCCCTCCAGAGTCACAGGTTGAGAAGCCAGTGGCC
GAGGACGAGCCAGCAGCCGGGGACAAGCCAGCAGCAGCAGAACAGTAAATTACACACACACACACACACACACAC
ACGCGGAGCAGCTGTCTCGGGTCCAGAGCGAGCAGCGTG
GAGCTCAGTGACAGCAGCAGGGAGAAATCCACTGAAGGAAAAAACCCAAATTTCCACTCCACAAAGAAAAACAGCT
GCAAGCCCCCAGGGACTTACCTGGGGCTGGCATGTGTGACTGTCTCGGATGAAGTGACTGACCCAGTGCACACTG
GATCAAAATGCTGCTTTCTCTGTGTCTCACAGCTTGGCTGAGCTCTGTCTCTGCAGGTTAGAAGTCTGCTAAAG
ATCAAATGTGAAAGTACTTGGAGAACTGAGGCCTCTTATGTGTAATGTGTAAGTTAAGTGAGCCATATATTTTC
TTGCCCTCTTECGGACATTCATGCTTGTGTCCCAAGCATTCCTTGGTGAATTGTCACGTGAGTGGGGCCAGTAAG
AGTGAAGTCTGCTCCTTGAATCCAAGCCCCATCTGGGGCTTCTCTAACAAATCTGTAGTAAGTATACGGACTCCA
GGGAGAGAGGCTGGGCTTCTTTCTCTCATTTGTTCTTGTGGAACAAATGGGCAAAAGAAGTGTGAAATGTGGG
TGTTTATGTCTGTGTATATGTATTTTTTACTTCATGCATGGCTTCTCCTCCAACCTCCTCCTGCACCTAAAAAGG
GCCAGGTTCCAAATTAGACTTGTAATATGGTGTTAGTGTGACACTACTCCTGGATAGTTCCAAACATCTTCC
TTGTGGCAGGTTTCTGGCTGAGCCCCGAGCTTCCCTCCCTGTTTATTGTGTTTCATGATCAGTATGTGTTTCCATA
TAAACTTTTCTCAACGGAA

3854/5332
FIGURE 3365

ATGTGGCTGGACCGCCGCGGATGGCTCAGGGTTCTTGGACATTGGCGCTACGACCTTAGGCGCCCTAGCTTTACC
AGGACTTGGAGTGGCGATAAGGGCCCAATGGCAGAAACAGTGTCTACCCAGGTTGGGACAGAGGGCGGGCTGAGG
GCTTCGCATCAGCAAAACGGTGACGCTGGTGGCGACGCGAAGGTTGAGCTGTCCCCGGGCCCCCGAAGCCGGCT
GGCCGGGAAGTGGAGCCGGCCCCAGTAGGCGGGGAGCATCCCTCGGCTGCAGCCCCAGGCCCGGGCAAGCATAAG
AAGCGGCGGGGCGCAACCAGGGAGCGTGTCTGTCGCGCCCCCGAAGAAGCGGCGGACCGGGGTGAGCTTCGGAGAT
GAGCACTTTGCAGAAACAGTTATTACTTCGAGGGCGGGCTGCGTAAGGTGCGGCCCTATTACTTTGACTTCCGG
ACCTACTGCAAAGGTCGCTGGGTGGGCCACAGCTTGCTGCACGTCTTCAGTACCGAGTTCCGAGCTCAGCCCCTG
GCCTACTATGAGGCCGCGGTCCGGGCGGGCCGCTGCAACTCAACGAGAAGCCGGTGCAGGACCTCAACATCGTG
CTCAAGGACAATGATTTCTTGCGGAACACAGTGCACAGGCATGAGCCACCAGTCACAGCAGAGCCCATTGCGCTG
CTAGCTGAGAACGAAGATGTGGTGGTTGTAGACAAGCCTTCCTCCATTCCCGTTCACCCCTGTGGCCGCTTCCGA
CACAACACAGTTATCTTCATCCTAGGCAAGGAGCACCAACTCAAGGAGCTACACCCCTTGCAATCGGCTTGACCGC
CTTACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTCTGAGAGAATTCACGAGCAGGTTCTGGGACCGG
CAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCACTGAGGAAGTGACCTGTAAAGAACCCATC
TTAGTGGTGTCTTACAAAGTAGGGGTGTGCCGTGTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCAGAGG
CTAAGCTACAATGGCCAGTCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTGAGTCCAC
CTTCAGTTCTTGGGCCATCCCATTCTCAACGACCCCATCTACAACCTAGTTGCCTGGGGTCCTTCTCGAGGCCGG
GGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGGTAGCAGAGCACCAGGCCAAACAGAGCCTG
GATGTGCTAGATCTCTGTGAGGGTGACCTGTCCCCAGGACTCACAGACTCTACGGCCCCCTCCTCAGAGTTGGGC
AAGGACGACCTGGAAGAGTTGGCTGCAGCTGCCCAGAAGATGGAGGAAGTAGCTGAGGCAGCCCCCTCAGGAGTTG
GACACAATAGCCTTGGCATCAGAGAAGGCAGTTGAAACAGATGTCATGAATCAAGAGACAGACCCACTCTGTGCA
GAGTGCCGGCTGGTGCAGAGATCCCTTGCCCCAAGACCTTGIGATGTTCCCTACATGCCCTACGCTATAAAGGG
CCAGGCTTTGAGTACTTTTCACCAATGCCTGCCTGGGCACAGGATGACTGGCAAAAGGACTTGA

3855/5332
FIGURE 3366

TAAGGAGAGTGC GGCGCTTCCCGAGGCGTGCAGCTGGGAACTGCAACTCATCTGGGTTGTGCGCAGAAGGCTGGG
GCAAGCGAGTAGAGAAGTGGAGCGTAAGCCAGGGGCGTTGGGGGCCGTGCGGGTCGGGCGCGTGCCACGCCCCGCG
GGGTGAAGTCGGAGCGCGGGGCGCTGCTGGAGAGAGGAGCGCTGCGGACCGAGTAATGCAATGCAGATGCAGCTT
GAAGCAAATGCAGATACTTCAGTGGAGAAGAAAGCTTTGGCCACAACCCATTTACGGTTAGAGCAGTGTGGC
ATAAATGCCAACGATGTGAAGAAATTGGAAGAAGCTGGATTCCATACTGTGGAGGCTGTTGCCTATGCGCCAAAG
AAGGAGCTAATAAATATTAAGGGAATTAGTGAAGCCAAAGCTGATAAAATTCTGGCTGAGGCAGCTAAATTAGTT
CCAATGGGTTTTCACTGCAACTGAATTCCACCAAAGGCGGTGAGAGATCATAACAGATTACTACTGGCTCCAAA
GAGCTTGACAACTACTTCAAGGTGGAATTGAGACTGGATCTATCACAGAAATGTTTGGAGAATTCCGAACTGGG
AAGACCCAGATCTGTCATACGCTAGCTGTACCTGCCAGCTTCCCATTGACCGGGGTGGAGGTGAAGGAAAGGCC
ATGTACATTGACACTGAGGGTACCTTTAGGCCAGAACGGCTGCTGGCAGTGGCTGAGAGGTATGGTCTCTCTGGC
AGTGATGTCCTGGATAATGTAGCATATGCTCGAGCGTTCAACACAGACCACCAGACCCAGCTCCTTTATCAAGCA
TCAGCCATGATGGTAGAATCTAGGTATGCACTGCTTATTGTAGACAGTGCCACCGCCCTTTACAGAACAGACTAC
TCGGGTGAGGTGAGCTTTAGCCAGGCAGATGCACTTGGCCAGGTTTCTGCGGATGCTTCTGCGACTCGCTGAT
GAGTTTGGTGTAGCAGTGGTAATCACTAATCAGGTGGTAGCTCAAGTGGATGGAGCAGCGATGTTTGCTGCTGAT
CCCAAAAAACCTATTGGAGGAAATATCATCGCCCATGCATCAACAACCAGATTGTATCTGAGGAAAGGAAGAGGG
GAAACCAGAATCTGCAAAATCTACGACTCTCCCTGTCTTCTGAAGCTGAAGCTATGTTGCCATTAATGCAGAT
GGAGTGGGAGATGCCAAAGACTGAATCATTGGGTTTTTCTCTGTATAAAACCTTAAGTGTGCAGCCTAATGAG
AGTGCAGTGTCTCCCTGGGGTTCTCTACAGGCTCTTCTGTGTGACTGCCAGGATAAAGCTTCCGGGAAAACAG
CTATTATATCAGCTTTTTCTGATGGTATAAACAGGAGACAGGTGAGTAGTCACAACTGATCTAAAATGTTTATTC
CTTCTGTAGTGTATTAAATCTCTGTGTGTTTTCTTTGGTTTTGGAGGAGGGGTATGAAGTATCTTTGACATGGTGC
CTTAGGAATGACTTGGGTTTAAACAAGCTGTCTACTGGACAATCTTATGTTTCCAAGAGAACTAAAGCTGGAGAGA
CCTGACCCCTTCTCTCACTTCTAAATTAATGGTAAATAAAATGCCTCAGCTATGTAGCAAAGG

3856/5332
FIGURE 3367

GACGTCACGGTCACTGACAGCGTGAGCCCGCGCGGCTGCTGCCATGGTGGCTGGCGGCCGGGTAAAGGTCTGAG
TGGATCTCCTGCCAGGCCAGAGCGCCTTCGGGGGCCGCGCGGAAGGCCAGGAGTTTGCAGCCAGGGCGCCGGGT
TTGTGGTCTGCAGTGTCTGTGAGGCTGAGGTGCAGCATGCTAGACTGGGAGCCCTGGGTGGTGCCCGTGCCGGGC
TGGGACTGTTGCTGGGTACCGCCGCCGGCCTTGGATTCCCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCC
AGCGTCATGGCCGCAGCCAGAGCCTGCCAACTCCCTGGACTATACGCAGACTTCAGATCCCGGACGCCACGTGA
TGCTCCTGCGGGCTGTCCAGGTGGGGCTGGAGATGCCTCAGTGCTGCCAGCCTTCCACGGGAAGGACAGGAGA
AGGTGCTGGACCGCCTGGACTTTGTGCTGACCAGCCTTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCA
GCCTGCGAGGGCTTGCGGGGGAGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGC
GGCGAAGGTTTCCGTTTGTCCGGGAGAGGAGTGACTCCACTGGCTCCAGCTCTGTCTACTTCACGGCCTCCTCGG
GAGCCACGTTTACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAATGCGGAGTCTGACAATGAGCGGGACT
CTGACAAAGAAAGTGAGGACGGGGAAGATGAAGTGAGCTGTGAGACTGTGAAGATGGGGAGAAAGGATTCTCTTG
ACTTGAGGAAGAGGCAGCTTCAGGTGCCTCCAGTGCCCTGGAGGCTGGAGGTTCTCAGGCTTGAGGATGTGC
TGCCCTCCTGCAGCAGGCCGACGAGCTGCACAGGGGTGATGAGCAAGGCAAGCGGGAGGGCTTCCAGCTGCTGC
TCAACAACAAGCTGGTGTATGGAAGCCGGCAGGACTTTCTCTGGCGCTGGCCCGAGCCTACAGTGACATGTGTG
AGCTCACTGAGGAGGTGAGCGAGAAGAAGTCATATGCCCTAGATGAAAAGAAGAAGCAGAGGCTGCTCTGGAGA
AGGGGGATGAGAGTGCTGACTGTCACCTGTGGTATGCGGTGCTTTGTGGTCAGCTGGCTGAGCATGAGAGCATCC
AGAGGCGCATCCAGAGTGGCTTTAGCTTCAAGGAGCATGTGGACAAAGCCATTGCTCTCCAGCCAGAAAACCCCA
TGGCTCACTTTCTTCTTGGCAGGTGGTGCTATCAGGTCTCTCACCTGAGCTGGCTAGAAAAAAAACCTGCTACAG
CCTTGCTTGAAAGCCCTCTCAGTGCCACTGTGGAAGATGCCCTCCAGAGCTTCCTAAAGGCTGAAGAACTACAGC
CAGGATTTTCCAAAGCAGGAAGGGTATATATTTCCAAGTGCTACAGAGAACTAGGGAAAAACCTCTGAAGCTAGAT
GGTGGATGAAGTTGGCCCTGGAGCTGCCAGATGTCACGAAGGAGGATTTGGCTATCCAGAAGGACCTGGAAGAAC
TGGAAGTCATTTTACGAGACTAAACACGTTTCACTGGCCTTCATGACTTGATGCCACTATTTAAGGTGGGGGGGC
GGGGAGGCTTTTTTTCCTTAGACCTTGCTGAGATCAGGAAACCACACAAATCTGTCTCCTGGGTCTGACTGCTACC
CACTACCACTCCCCATTAGTTAATTTATTCTAACCTCTAACCTAATCTAGAATTGGGGCAGTACTCATGGCTTCC
GTTTCTGTTGTTCTCTCCCTTGAGTAATCTCTTAAAAAATCAAGATTACACCTGCCCCAGGATTACACATGGG
TAGAGCCTGCAAGACCTGAGACCTTCCAATTGCTGGTGAGGTGGATGAACTTCAAAGCTATAGGAACAAAGCACA
TAACCTTGTCACTTTAACTTTTTCACTGACTAATAGGACTCAGTACATATAGTCTTAAGATCATACCTTACCTAC
CAAGGTAAAAAGAGGGATCAGAGTGGCCACAGACATTGCTTTCTTATCACCTATCATGTGAATTCTACCTGTAT
TCCTGGGCTGGACCACTTGATAACTTCCAGTGTCTGGCAGCTTTTGGAAATGACAGCAGTGGTATGGGGTTTATG
ATGCTATAAAACAATGTCTGAAAAGTTGCCTAGAATATATTTTGTACAACTTGAATAAACCAAAATTTGATGT
T

3857/5332
FIGURE 3368

TCCCAGCTGCGCGTCGCGAGTCCCGACGCGAGAAGGGCTGGAGTCGGCGTCCAGCCTAGAGCCCCCGGTGGGAGCC
AGGCCGGGACGCGTGCACCATGCCCTACCTGCTCATCAGCACCCAGATCCGCATGGAGGTGGGCCCCACTATGGT
GGGCGATGAACAGTCGGATCCAGAGCTGATGCAGCATCTGGGGGCTTCAAAGAGAAGAGCCTTGGGAAACAACCTT
TTATGAATACTACGTCGATGACCCCTCCCCGCATAGTCCTGGACAAGCTGGAACGCAGGGGCTTCCGTGTGCTGAG
CATGACGGGGGTGGGCCAGACGCTGGTGTGGTGTCTGCACAAGGAGTGACCTTCTCATGCTGATTTCAGACGGG
GCACCCCTGTGGAGGGGCTGCTGTGGGCCCTGACCTCCAAGCTCCTGCCTCACCGTCTGCCTTGCTCCTCTCTTC
CCAAATCATCACCGCCATGGGCCCAGCCCCAAAGGGCAGTGAATGGCCTTCTCTGAAACCCTGCGTCAAGCAGTG
GGAGAGGGCAGTGCCCGGTGCCCTGGTGTCTCCAGCTGCCCTCCTGCTTCGGGCCTGGGCCGAGGGCCTTGTGTA
GGCCATGTTCTCGGGCAGCTGCCCCGGGCCGGAGCTGGGCACTCCAGCGGCCCTGGCGCGTGGCTCCTGCATAG
CTAGCCCAAGCCAATAAAGGGCTGTGATGAGTGGCTGC

3858/5332
FIGURE 3369

ATCCGTCAGGCCGGAACCATGGCAGTGACCAAGGAGCTCTTACAGATGGACCTGTACGCGCTGCTAGGCATTGAG
GAGAAGGCAGCGGACAAAGAGGTAAAGAAGGCGTATAGGCAGAAGGCCCTCTCCTGCCACCCAGACAAAAATCCA
GATAATCCCAGAGCAGCTGAACTCTTCCACCAGCTTTCTCAGGCCTTGGAGGTGCTGACCGATGCTGCAGCCAGG
GCTGCATATGACAAGGTCAGGAAAGCCAAGAAGCAAGCAGCAGAGAGGACCCAGAACTTGATGAGAAAAGGAAG
AAAGTGAAGCTTGACCTGGAGGCCCGGGAGCGGCAGGCCAGGCCAGGAGAGTGAGGAGGAAGAGGAGAGCCGG
AGCACCAGGACACTAGAGCAAGAGATCGAACGCCTGAGAGAAGAGGGTTCCCGGCAGCTGGAGGAACAGCAGAGG
CTCATCCGGGAGCAGATACGCCAGGAGCGTGACCAGAGGTTGAGAGGAAAGGCAGAAAATACTGAAGGCCAAGGA
ACCCCAAACCTAAAGCTAAAATGGAAGTGCAAGAAGGAGGATGAGTCAAAAGGTGGCTACTCCAAAGACGTCCTC
CTACGGCTTTTGCAGAAGTATGGTGAGGTTCTCAACCTGGTGCTTTCCAGTAAGAAGCCAGGCACTGCTGTGGTG
GAGTTTGCAACCGTCAAGGCAGCGGAGCTGGCTGTCCAGAAATGAAGTTGGCCTGGTGATAACCCCTCTGAAGATT
TCCTGGTTGGAGGGACAGCCCCAGGATGCCGTGGGCCGAGCCACTCAGGACTGTCAAAGGGCTCAGTGCTGTCA
GAGAGGGACTACGAGAGCCTCGTCATGATGCGCATGCGCCAGGCGGCCGAGCGGCAACAGCTGATCGCACGGATG
CAGCAGGAAGACCAGGAGGGGCCCTACGTAGCCCCAGCTCCAGCCATCCACCCCTCAGCCCTTTTCTTCAACG
TCACCAATAAATTTTTTTTTTTTTTTT

3859/5332
FIGURE 3370

AGGAGAGCGTCCGGATTCCCTGCTCTAGGTCGCGGCGGGACAGTGCCAGTGGGCGTGTGGGGCGGGGCAGGGCAG
GGAAGGGAAGGGCGGAGCTGGGGTGAGGGTCCAAGGGGCCAGGACTTGGCCGGCGTGATCTCAGCTCTGCAGAC
CCTGCGGTGCTGGGAGCCACCATGGAGAGTAGGTGCTACGGCTGCGCTGTCAAGTTCACCCTCTTCAAGAAGGAG
TACGGCTGTAAGAAATTGTGGCAGGGCCTTCTGTTCAAGCTGCCTAAGCTTCAGTGCAGCAGTGCCTCGGACTGGG
AACACCCAACAGAAAGTCTGCAAGCAATGCCATGAGGTCTTGACCAGAGGGTCTTCTGCCAATGCCTCCAAGTGG
TCACCACCTCAGAACTATAAGAAGCGTGTGGCAGCCTTGGAAGCCAAGCAAAAGCCCAGCACTTCCCAGAGCCAG
GGACTGACACGACAAGACCAGATGATTGCTGAGCGCCTAGCACGACTCCGCCAGGAGAACAAGCCCAAGTTAGTC
CCCTCACAGGCAGAGATAGAGGCACGGCTGGCTGCCCTAAAGGATGAACGTCAGGGTTCCATCCCTTCCACCCAG
GAAATGGAGGCACGACTTGCAGCGTTGCAGGGCAGAGTTCTACCTTCTCAAACCCCCAGCCGGCACATCACACA
CCGGACACCAGGACCCAAGCCCAGCAGACACAGGATCTGCTAACGCAGCTGGCAGCTGAGGTGGCTATCGATGAA
AGCTGGAAAGGAGGAGGCCCCAGCTGCCTCTCTCCAGAATGATCTCAACCAGGGTGGCCAGGGAGCACTAATTCC
AAGAGGCAGGCCAACTGGTCCTTGGAGGAGGAGAAGAGCAGACTGCTGGCTGAGGCAGCACTTGAGTTGCGGGAG
GAGAACACGAGGCAGGAACGGATTCTGGCCCTGGCCAAGCGACTAGCCATGCTGCGGGGACAGGACCCCCGAGAGA
GTGACCCTCCAGGACTATCGCCTCCCAGACAGTGATGACGACGAGGATGAGGAGACAGCCATCCAAAGAGTCCTG
CAGCAGCTCACTGAAGAAGCTTCCCTGGATGAGGCAAGTGGCTTTAACATCCCTGCAGAGCAGGCTTCTCGACCC
TGGACGCAACCCCGCGGGGCAGAGCCTGAGGCCCAGGATGTGGACCCAGGCCTGAGGCTGAGGAAGAGGAGCTC
CCCTGGTGCTGCATCTGCAATGAGGATGCCACCCTACGCTGCGCTGGCTGCGATGGGGACCTTCTGTGCCCCG
TGCTTCCGAGAGGGCCATGATGCCTTTGAGCTTAAAGAGCACCAGACATCTGCCTACTCTCCTCCACGTGCAGGC
CAAGAGCACTGAAGACACCCTGGTCCTCCCGGAAGGGCAGTCCACAGGCAGCGGCACCCATTTCTGGGCCCAGC
CACAGGACGTCCGATGGGAGAGCTTGTCTGGCTCTACTGATGATGGATAGGCCCTTCTGAGCCTTGGTGTCCC
TGGAATGAGGAAAGATTCTCCATTGAGAGAATGACTGGGAGGGAAGAAGTCGGGGCCCTCCTATTAGAAGCCCA
GACTGGAAGTGAGAGGCATGATGGGGAGAGACCAGACTGAATCTACGGGTGAGCCCTGTAACCTGGCTCTAGGGC
ACAGGCCCTCCCTGGCACTTAGTGGGTCTAATAAAGTATGTTGATTATTGG

3860/5332
FIGURE 3371

CGGCCGAGCCCCAGCTCTCCGAGCACCGGGTCGGAAGCCGCGACCCGAGCCGCGCAGGAAGCTGGGACCGGAACC
TCGGCGGACCCCGCCCCACCCAACCTCACCTGCGCAGGTACCAGCACCCCTCGGAACCCAGAGGCCCGCGCTCTGA
AGGTGACCCCCCTGGGGAGGAAGGCGATGCCCCCTGCGAGGACGATGGCCCGCGCCCGCTCGCCCCGGCCGGCA
TCCCTGCCGTGCGCTTGTGGCTTCTGTGCACGCTCGGCCTCCAGGGCACCCAGGCCGGGCCACCGCCCGCGCCCC
CTGGGCTGCCCCGGGAGCCGACTGCCTGAACAGCTTTACCGCCGGGGTGCCTGGCTTCGTGCTGGACACCAACG
CCTCGGTCAGCAACGGAGCTACCTTCTGGAGTCCCCACCGTGCGCCGGGGTGGGACTGCGTGCGCGCTGCT
GCACCACCCAGAAGTGAACCTTGGCGCTAGTGGAGCTGCAGCCCGACCGCGGGGAGGACGCCATCGCCGCTGCT
TCCTCATCAACTGCCTCTACGAGCAGAACTTCGTGTGCAAGTTGCGGCCAGGGAGGGCTTCATCAACTACCTCA
CGAGGGAAGTGTACCGCTCCTACCGCCAGTGCGGACCCAGGGCTTTGGAGGGTCTGGGATCCCCAAGGCCTGGG
CAGGCATAGACTTGAAGGTACAACCCAGGAACCCCTGGTGTGAAGGATGTGGAAAACACAGATTGGCGCTAC
TGCGGGGTGACACGGATGTGAGGGTAGAGAGGAAAGACCCAAACCAGGTGGAAGTGTGGGGACTCAAGGAAGGCA
CCTACCTGTTCCAGCTGACAGTACTAGCTCAGACCACCCAGAGGACACGGCCAACGTACAGTCACTGTGCTGT
CCACCAAGCAGACAGAAGACTACTGCCTCGCATCCAACAAGGTGGGTGCTGCCGGGGCTCTTTCCACGCTGGT
ACTATGACCCACCGAGCAGATCTGCAAGAGTTTCGTTTATGGAGGCTGCTTGGGCAACAAGAACAACCTACCTC
GGGAAGAAGAGTGCATTCTAGCCTGTCGGGGTGTGCAAGGCCCTCCATGGAAGGCGCCATCCAGTGTGCTCTG
GCACCTGTGAGCCACCCAGTTCGCTGCAGCAATGGCTGCTGCATCGACAGTTTCCTGGAGTGTGACGACACCC
CCAAGTGCCTCCGACGAGGCTGCCTGTGAAAAATACACGAGTGGCTTTGACGAGCTCCAGCGCATCC
ATTTCCCCAGTGACAAAGGGCACTGCGTGGACCTGCCAGACACAGGACTCTGCAAGGAGAGCATCCCGCGCTGGT
ACTACAACCCCTTCAGCGAACACTGCGCCCCGCTTTACCTATGGTGGTTGTTACGGCAACAAGAACAACCTTTGAGG
AAGAGCAGCAGTGCCTCGAGTCTTGTGCGGGCATCTCCAAGAAGGATGTGTTTGGCCTGAGGCGGGAAATCCCCA
TTCCCAGCACAGGCTCTGTGGAGATGGCTGTGCGAGTGTTCCTGGTCATCTGCATTGTGGTGGTGGTAGCCATCT
TGGGTTACTGCTTCTTCAAGAACCAGAGAAAGGACTTCCACGGACACCACCACCCACCCACCCACCCCTGCCA
GCTCCACTGTCTCCACTACCGAGGACACGGAGCACCTGGTCTATAACCACACCACGCGGGCCCCCTCTGAGCCTGGG
TCTACCGGCTCTCACCTGGCCCTGCTTCTGCTTGCCAAGGCAGAGGCCCTGGGCTGGGAAAAAAGCTTTGGAACCA
GACTCTTGCCCTGTTTCCAGGCCCACTGTGCCTCAGAGACCAGGGCTCCAGCCCCCTCTTGAGAAGTCTCAGCTA
AGCTCACGTCTGAGAAAGCTCAAAGGTTTGAAGGAGCAGAAAACCCCTGGGCCAGAAGTACCAGACTAGATGG
ACCTGCCTGCATAGGAGTTTGGAGGAAGTTGGAGTTTGTTCCTCTGTTCAAAGCTGCCTGTCCCTACCCCATG
GTGCTAGGAAGAGGAGTGGGGTGGTGTGACACCCTGGAGGCCCAACCCCTGTCTCCGAGCTCCTCTTCCATGC
TGTGCGCCAGGGCTGGGAGGAAGGACTTCCCTGTGTAGTTTGTGCTGTAAAGAGTTGCTTTTTGTTTATTTAAT
GCTGTGGCATGGGTGAAGAGGAGGGGAAGAGGCCTGTTTGGCCTCTCTATCCTCTCTTCTCTTCCCCAAGATT
GAGCTCTCTGCCCTTGATCAGCCCCACCCCTGGCCTAGACCAGCAGACAGAGCCAGGAGAAGCTCAGCTGCATTCC
GCAGCCCCCACCCTAAGGTTCTCCAACATCACAGCCCAGCCGCCCCACTGGGTAATAAAAGTGGTTTGTGGA

3861/5332
FIGURE 3372

AGCCTGGACCCATTTCAGTCAGAGGCAGCCAGCGGGACCTGCTTCACCGAGCGCAGCGAAGCCGAGACCCGGGCTG
GCCCCCTCTGCTGCCCCCGGAGCGGGGCCATGCCGCGCGGGAGCTGAGCGAGGCCGAGCCGCCCCCGCTCCGGGGCC
CCGACCCCTCCCCCGCGGCGGCGTAGCGCGCCCCAGAGCTGGGCATCAAGTGCGTGCTGGTGGGCGACGGCGCC
GTGGGCAAGAGCAGCCTCATCGTCAGCTACACCTGCAATGGGTACCCCGCGCGCTACCGGCCACTGCGCTGGAC
ACCTTCTCTGTGCAAGTCCTGGTGGATGGAGCTCCGGTGCGCATTGAGCTCTGGGACACAGCGGGACAGGAGGAT
TTTGACCGACTTCGTTCCCTTTGCTACCCGGATACCGATGTCTTCCTGGCGTGCTTCAGCGTGCTGACGCCAGC
TCCTTTCAAACATCACAGAGAAATGGCTGCCCCGAGATCCGCACGCACAACCCCCAGGCGCCTGTGCTGCTGGTG
GGCAGCCAGGCCGACCTGAGGGACGATGTCAACGTACTAATTGAGCTGGACAGGGGGGCGGGAGGGCCCCGTG
CCCCAACCCAGGCTCAGGGTCTGGCCGAGAAGATCCGAGCCTGCTGCTACCTTGAGTGCTCAGCCTTGACGCAG
AAGAACTTGAAGGAAGTATTTGACTCGGCTATTCTCAGTGCCATTGAGCACAAAGCCCGGCTGGAGAAGAACTG
AATGCCAAAGGTGTGCGCACCCCTCTCCCGCTGCCGCTGGAAGAAGTTCTTCTGCTTCGTTTCAGCAGCTATGGCT
GCATAGCAAGTAGTAGGCAGGAGGCCAAAGACTTCTGAGACCTGGGGCACCCGGGCCTTTGCGGCAGCTACTGGC
AGGGCCTGGCCACCTCATAGGACTCAGTTCCCTTCTGAACACTCGGGGGACATGGGCCTCTAACTGCCCACTCTG
ATAIGCCTGGGTGAGCCTAGGAGGGAAGGCTCTGATTGGATTCTCCAGTCAAAGCTCACAGAAAAAACCTGG
CACTTTGATTTTCATGGGATGGTCCTAACAGGGTCAGTCACCTCCGAGCAGTTTGGGAACCCAGTTTCTTGTCCT
GGGCCCTCAGGTCAGCCTGGCTGAATTAGGACCCTTCCTTG

3862/5332
FIGURE 3373

GCTGAGCTGCCGGGGCGAGGTTGGGATCACCTGGCACC GGCTGAAGGGAGCCTGTGATTTTTTTGTAGCGGGGGC
GGGGAGTAAGGTGCAAGACTGCGCCAGATTCAAGGACGAGGGCTGCCCGATTATCTCGCTGCATAAGGCAAGAGC
AAGAGGATCCTCAGGATTTTAAAGAGGAGGCGACGGCTGCAGGTTCCAGGATCTGTCAGAGGCTGGGGAGTTAC
AGCTTCCATTCTGGGGCGACGGGGACCCCGGGGGGTAGCCCTTTTGTAAATCCCCAGGCCCGGACAAAGAGCCC
AGAGGCCGGGCACCAATGGCGTCCATCCTGGATGAGTACGAGAACTCGCTGTCCCGCTCGGCCGTCTTGACGCCCCG
GCTGCCCTAGCGTGGGCATCCCCACTCGGGGTATGTGAATGCCAGCTGGAGAAGGAAGTGCCCATCTTCACAA
AGCAGCGCATTGACTTCACCCCTTCCGAGCGCATTACCAGTCTTGTGCTCTCCAGCAATCAGCTGTGCATGAGCC
TGGGCAAGGATACACTGCTCCGCATTGACTTGGGCAAGGCAATGAGCCCAACCACGTGGAGCTGGGACGTAAGG
ATGACGCAAAAGTTACAAGATGTTCCCTGACCATACTGGCTCTCACCTGCTGATTGCCCTGAGCAGCACGGAGG
TCCTCTACGTGAACCGAAATGGACAGAAGGTACGGCCACTAGCACGCTGGAAGGGGCAGCTGGTGGAGAGTGTGG
GTTGGAACAAGGCACTGGGCACGGAGAGCAGCACAGGCCCATCTGGTTCGGGACTGCCCAAGGCCACATCTTTG
AAGCAGAGCTCTCAGCCAGCGAAGGTGGGCTTTTCGGCCCTGCTCCGGATCTCTACTTCCGCCCATGTACGTGC
TAAATGAAGAAGGGGTCCAGCACCTGTGTGCTCCCTGAGGCCGAGCGGGGCCCTGATGGGCGTAGCTTTGTTA
TTGCCACCACTCGGCAGCGCCTCTTCCAGTTCATAGGCCGAGCAGCAGAGGGGGCTGAGGCCAGGGTTTCTCAG
GGCTCTTTGCAGCTTACACGGACCACCCACCCCATTCGGTGAGTTTCCAGCAACCTGGGCTACAGTGAGTTGG
CCTTCTACACCCCCAAGCTGCGCTCCGCACCCCGGGCCTTCGCCTGGATGATGGGGGATGGTGTGTTGTATGGGG
CATTGGACTGTGGGCGCCCTGACTCTCTGCTGAGCGAGGAGCGAGTCTGGGAGTACCCAGAGGGGGTAGGGCCTG
GGGCCAGCCCCACCCCTAGCCATCGTCTTGACCCAGTTCCACTTCTGCTGCTACTGGCAGACCGGGTGGAGGCAG
TGTGCACACTGACCGGGCAGGTGGTGTGCGGGATCACTTCCTGGAGAAATTTGGGCCGCTGAAGCACATGGTGA
AGGACTCCTCCACAGGCCAGCTGTGGGCCTACACTGAGCGGGCTGTCTTCCGCTACCACGTGCAACGGGAGGCCC
GAGATGTCTGGCGCACCTATCTGGACATGAACCGCTTCGATCTGGCCAAAGAGTATTGTGAGAGCGGGCCCGACT
GCCTGGACACGGTCTTGCGCCGGGAGGCCGATTTCTGCTTTTCGCCAGCGTCGCTACCTGGAGAGCGCACGCTGCT
ATGCCCTGACCCAGAGCTACTTTGAGGAGATTGCCCTCAAGTTCTGAGAGGCCCGACAGGAGGAGGCTCTGGCTG
AGTTCCTGCAGCGAAAACCTGGCCAGTTTGAAGCCAGCCGAACGTACCCAGGCCACACTGCTGACCACCTGGCTGA
CAGAGCTCTACCTGAGCCGGCTTGGGGCTCTGCAGGGCGACCCAGAGGCCCTGACTCTCTACCGAGAAGTCAGAA
ATCTGACCCAATTCCACCCCTGCCCTTAGCACCTCTTCTGTCCCTGTCATTCCCCACACACGTCTCTGTTACCT
CGAGAGAGAGAGAGAGAGAGACCTTTCTTCCGTCTGTTCACTCTGCGGCCCTCTGGAATCCCAGCTCTTCTCTCT
CAGAAGAAGCCTTCTCTTCTCTGCTGTAGGTTGTCCCAGAAGTGAGAAGGCAGCCTTCGAAGTCTGGGCATT
GGGTGAGAAAGTGATGCTAGTTGGGGCATGCTTTTGTGCACACTCTCTGGGGCTCCAGTGTGAAGGGTGCCCTGG
GGCTGAGGGCCTTGTGGAGGATGGTCGGTGGTGGTATGGAGGTGGAGAGCATTAACTGTCTGCACTGC

3863/5332
FIGURE 3374

CAGGCCAGGTGTGTGCGTCCGTCCGTCTTTCCGTGCCCCACGCCGGAGACCAGCCCCGGAGGCCGCTTGGGCCTAT
CCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCCCTACGCCGTC
CGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGTGTGGAGGCC
CGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGGAGACACCTT
CCATCGGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCACCTTGGGGCGT
GGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGTGCTTGGTGG
CTACGATAACCAAGGAGGTACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGCCTATGTGGC
CACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGCCTGCCGGGG
CTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCAGGCGCAGGA
CGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCAGGCTCTGGC
GCTGGTGTGAAGGGGCTGAGCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTCCAGTGCACA
AGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCTCAGTCCCTG
CCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCACCATGTTGG
TGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGGAACCTGACC
AGATTCCCCCAGTGCTGCTGCTAACCCACACCAACCCAGGCCTCCACCTCCCAGGGAGTCTCCAAGAGCCTCG
ATCCTCTGCTCACTCAGCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAGGCTGGATGA
GGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCGGCCAGCCCTTCTCCTCCACCAAGTTCC
CCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACTTGTTGTTT
TCTTGTCCCTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTCTATTCTGG
GAAGCTCATCACTACAGGCCCTGGCAACCTTCCAGTCTGTCCATACTGTTACCCATAAACTATCTCTTT

3864/5332
FIGURE 3375A

CCGCGGAGGGAGCGAGCTAGGAGCGTCCACGCCAACGCAGTCACCGTCCCACGGCCTCAGAGAGCGAACCGCGG
CTCCACCGTCGGCGGGGCGACCCCCCTCCGGACCCCGCCGACCCCGCCCCCTCCGCCGCCGTCGCGGCG
GCGGGGCCAGGCGGCCGAGCCGTGCAGTCGGAGGTCTTGTGCATGAAGACAGATTTGTTCTATGGCCTCGGAG
TTGGGTGCCAGGGATGATGGAGGCTGCACTGAGCTGGCAAAGCCCCCTCTATCTTCAGTACTTGGAGAGGGCCCTC
CGGTTGGACCATTTCCTGCGACAAACGTGAGCTATCTTCAATAGGAATATTTCTAGTGATGACAGTGAAGATGGA
CTGGATGACAGTAATCCATTATTGCCCCAGTCTGGGGATCCCTTAATACAAGTTAAGGAAGAACCCTCCAAATTC
TTGCTTGGTGAACTTCCTGGAGCAGGCAGTTCTGGAATGTTAAACACATATTCTCTGAATGGAGTTCTACAGTCA
GAATCAAAATGTGATAAGGGGAATTTATATAATTTCTCTAAGCTGAAGAAAAGCAGAAAGTGGCTAAAGAGCATT
CTGCTAAGTGATGAATCCAGCGAGGCTGATTCTCAGAGTGAAGACGATGATGAAGAAGAACTCAATCTCAGCAGA
GAAGAACTTCACAACATGCTTCGACTACACAAATATAAGAACTTCACCAAAATAAGTATAGTAAAGACAAGGAG
TTGCAGCAATATCAGTACTACAGTGCAGGCCTGCTCTCCACATATGACCCTTTCTATGAGCAACAACGGCACCTA
CTTGGACCCAAGAAAAGAAATTTAAGGAGGAAAAGAACTTAAAGCTAAGTTGAAAAAAGTGAAGAAAAAAGA
CGAAGAGATGAAGAACTTTCCTCTGAAGAATCCCCCTCGTCGCCATCACCACCAGACCAAAGTCTTTGCCAAGTTT
TCTCACGATGCACCTCCCCCTGGCACTAAGAAAAGCACTTATCCATTGAGCAGCTGAATGCTCGTCGCAGGAAA
GTATGGCTCAGCATTGTGAAAAAGGAATAACCAAGGCAATAAGCAGAAAGCTTCAGCTCGTAACCTGTTTCTC
ACCAATAGCCGAAAGCTTGCTCACCAGTGCATGAAGGAGGTGCGTCGAGCTGCCTTGAGGCCCAGAAGAACTGT
AAGGAAACCTTGCTCGTCCCGCCGCTCACCAGGAGATGCTTCTGTACTGGAAGAAATATGAGAAAGTAGAG
AAGGAGCACCGCAAGAGAGCAGAGAAGGAAGCTTTGGAGCAGCGGAAGTTGGATGAGGAAATGCGGGAGGCCAAG
AGGCACAGCGAAAACCTCAACTTCTTAATTACCCAGACAGAGTTGTATGCCCATTTTCATGAGTCGCAACGAGAT
ATGGGTTCATGATGGTATCCAGGAAGAAATCCTAAGGAACTGGAAGACAGTTCTACCCAGAGACAAATCGATATA
GGTGGAGGAGTGGTAGTTAACATCACACAGGAGGATTATGATAGTAACCATTTTAAAGCCCAGGCCCTGAAGAAT
GCTGAAAATGCTTACCATATTACCAAGCTCGGACAAGGTCATTTGATGAAGATGCAAAAGAAAGTCGAGCAGCT
GCCCTACGGGCAGCAACAAGTCTGGCACTGGGTTTGGGGAGAGTTATAGCCTGGCTAACCCATCTATCCGGGCT
GGTGAGGATATTCCACAGCCCAATTTTAAATGGCAAATTGAAAGGTTATCAACTGAAAGGCATGAATTGGTTG
GCCAATCTATATGAACAGGGTATTAATGGCATTCTTGCTGATGAAATGGGCCTTGGTAAACAGTACAGAGCATT
GCCCTTCTGGCCCATCTGGCTGAGAGAGAGAACTTTGGGGACCTTTCTTAATAATTTACCTGCGTCTACACTT
AACAATTGGCACCAGGAGTTTACTAGATTTGTTTCTAAATTTAAGGTGCTACCATATTGGGGAAATCCTCATGAT
AGAAAAGTCATCAGAAGGTTCTGGAGTCAGAAGACCCTCTACACTCAGGATGCCCCCTTCCATGTGGTTATTACC
AGCTATCAGCTGGTGGTGCAGGATGTAAAGTATTTCCAGCGGGTCAAGTGGCAATACATGGTACTGGATGAGGCT
CAGGCGCTCAAGAGTAGTTCAGTGTTCTGTTGAAGATCCTCTTACAGTTCCAGTGTGCGAATCGGCTTTTGCTA
ACCGGGACCCCAATTGAGAACACCATGGCAGAGCTTTGGGCTCTGCTGCATTTCATTATGCCAACATTATTTGAT
TCACATGAGGAATTTAATGAATGGTTTCCAGGACATTGAGAGCCATGCCGAAAACAAATCTGCTATTGATGAG
AATCAACTTTCTCGCTTACACATGATTTTGAAGCCATTTATGCTGAGGAGAATCAAGAAAGATGTGGAATGAA
TTATCTGACAAGATTGAGATTTAATGTATTGCCAACTGACCAGCCGACAGAAGCTGCTATATCAGGCACTAAAG
AACAAAATTTCCATTGAGGATTTATTGCAGTCTTCTATGGGCTTACCCAACAAGCACAGAACACCACAGCAGC
CTCATGAATCTGGTCATGCAGTTTAGGAAGGTGTGTAATCACCAGGAGTTATTGAAACGGCAAGAAACTTGGTCT
CCATTTTCATATTTCCCTAAAGCCATACCAATTTCAAAGTTTATCTACCGTCATGGACAGATCAGGGTCTTCAAT
CATTCACGAGACAGGTGGTTAAGGGTTCTTCTCCATTGTCACCAGACTATATCCAACGGTCTCTCTTTACAGA
AAAGGTATTAATGAAGAAAGCTGTTTCTTCTTCTGCTTTTATTGATATATCTCCAGCAGAAATGGCAAACCTT
ATGCTTCAGGGACTTTTGGCCAGATGGTTAGCTCTTTTCTGTCTCTGAAAGCCTCTACAGGCTCCATCAGCTA
CGCTCCTGGGGAGCGCCAGAAGGGGAGAGCCACCAGAGATACCTGAGGAACAAGGATTTCTTCTTGGGGTTAAT
TTTCCACTCTCCTTTCCAAACCTTTGCAGCTGCCCTTTGTTAAAGTCTCTTGTCTTTCAGCAGCCACTGTAAAGCA
GTGAGTGGCTACTCAGACCAGGTTGTCCATCAGCGGAGATCAGCTACCTCCTCGCTGCGTGCCTGCTCACT
GAGCTGCCATCTTTTTTGTGTGTGGCCAGTCCACGAGTTACCGCAGTGCCATTGGATTCTTACTGCAATGACCGA
AGTGCAGAATATGAAAGGCGAGTTCTGAAGGAAGGAGGAGTCTGGCAGCCAAGCAGTGTTTGTGTAATGGGGCC
CCTGAACTGGCTGCAGACTGGCTAAATAGACGATCAGATTCTTCCAGAGCCAGCTGGAGGTCTGTGGAGCATC
AGACCTCAGAATGGCTGGTCTTTTCATCAGGATTCCAGGCAAGGAGAGCCTCATCACTGACAGTGGAAAGCTGTAT
GCCCTTGATGTCCTGCTGACTCGGCTCAAGTCTCAAGGGCATAGGGTCTTATCTACTCCAGATGACCAGGATG

3865/5332
FIGURE 3375B

ATAGACCTACTGGAGGAATACATGGTTTACAGGAAGCATACCTACATGAGGCTTGATGGCTCATCCAAGATCTCG
GAGAGGCGAGACATGGTTGCTGATTTTCAGAACAGGTAATGACATCTTTGTGTTCTGTTAAGCACACGAGCTGG
AGGACTGGGTATCAATCTCACTGCTGCAGACACAGTGATTTTCTATGATAGCGACTGGAACCCCACTGTGGACCA
GCAGGCCATGGACAGGGCCCACCGCTTAGGGCAGACAAAGCAGGTTACTGTGTACCGGCTCATCTGTAAAGGCAC
CATTGAAGAACGCATTCTGCAAAGAGCCAAGGAGAAGAGTGAGATTTCAGCGGATGGTGATTTTCAGGTGGGAACCTT
CAAACCAGATACCTTGAAACCCAAAGAGGTGGTTAGTCTTCTTCTAGACGACGAAGAGTTGGAGAAGAACTGAG
GCTGCGGCAGGAAGAGAAAACGGCAACAGGAGGAAAACCAACCGAGTGAAAGAGCGCAAGCGGAAGCGGGAAAAGTA
TGCAGAGAAGAAGAAAAAAGAAGATGAATTGGATGGGAAAAAGGAGAAAAGAGGGTGTGAACCTGGTGATCCCATT
TGTTCCCTCGGCTGATAACTCCAACCTCTCTGCTGACGGAGATGACTCCTTCATTAGCGTGGACTCAGCCATGCC
AAGCCCTTTTCAGTGAGATCTCCATCAGCAGTGAGCTGCACACTGGCTCCATTCCCCTGGACGAGAGCAGCAGTGA
CATGCTGGTCATTGTGGATGACCCAGCCTCCTCAGCCCCCTCAGTCTCGAGCTACCAACTCTCCCGCATCCATAAC
AGGCTCCGTCTCAGATACCGTGAATGGAATTTCCATTTCAGGAAATGCCAGCTGCAGGACGTGGTCACTCAGCCCG
AAGCCGAGGCCGCCCAAGGTTTCAGGAAGCACAGCCAAAGGAGCAGGGAAGGGCCGGAGCCGAAAGTCCACGGC
AGGCAGTGCTGCTGCAATGGCAGGAGCCAAAGCCGGGGCTGCAGCGGCCTCTGCAGCTGCCTATGCCGCATACGG
GTACAACGTGTCTAAAGGAATCTCCGCCAGCAGTCTCTGCAGACATCCCTTGTTCCGGCTGCTGGCCTTGCTGA
CTTTGGACCTTCAAGCGCCTCTTCTCCTTTGAGTTCCCTTTGAGCAAGGGAATAATGTTCTGGGAATCCCAA
GAACCTCCACATGACCAGCAGCCTAGCCCCAGACTCTCTGGTCCGGAACAGGGCAAAGGCACCAACCCCTCTGG
AGGACGGTAACCATCTGGGCCCTCCGACTTCCTTCAACCAAACAGGGCTAGAGTCTTGACCTGCCAGTGGTCTT
TGGATGGCTTGCCCCGTGCAGCATCTTGATCCTGAGTCAGAAGTGGAATGTCCAGCAGGGGAAGGACAGGCAG
GTGGATGGTGTGAGCACTTTTATCATCTGTGTCTCATCAGGAGCATCTGGGGTGCTGTAGGAGGAAGGCCACAG
GGCATGGATCAGCCCCACTGCATCTCAAGTGAAGTGTATAGCCAAGTCTTAAACCTCTCACGGGCAAGCCTGAC
ACAGACCCCTTTAGATGCTCAGGCATACTGTTTCATCCCGATTCCACTCTTCGGCTCTGACACGTCCCTTGCA
AAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGTGATTTCTCATAGGGCTAG
TAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCAGAGTGTATCAT
TGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCTATCCACAGG
CAGTTGTGTTCCAGCAATTCTTCCATCCTGCATGGTTTACACCAAGAGAACCTTCAGATCCTACCAGCAACCG
TAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAGAGAGACCAGGAGCCACCTCAATCAGCAGGACAGCCTC
ACTGCCCTCTTGCAGAGTCCCCTTTGCCATCCTGAATGCACAGTCTCCCTGCTCATGCCCTTCAGTCCCCTGC
TTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGGCGGAGAGAG
GGGGCAGGCTCGGCACCGGCCCTCCAGCCCGGCCAGCTGAGCTTGCTGCCCTCCAGTAGAGACAGAGGGGCAG
TGTTTGCATGGGAGGTGTTTCTGCCTGTCCTGCCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGGCGGGCAAGC
CTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAACTTTTTTGGAGTAGGGG
GTATAGGGGAATCATTTAATTTAAATCATTAGATTCCCCTGCTCAAACCCAGATTCCGTGTACAGATGCTATT
TAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTTTGAATGTGCTATTTTTATAACTGAACTGTACATATGTA
TAAAGAGAGACACATCTTCTTTTACTAACTGGATAAAAAATCTTAAATAAAATGGAGTGAGATAATTTTATGT

3866/5332
FIGURE 3376

CTTCTTCATCCTTTTATATGTTCTTTGCTTCCTACTTCCCTGTCTTCCAACATACTGTTCACTTACTCTGGCAG
TCTTTCTGCTTTTCATTAAGCCTCAAAATCTCCTCTGTTCTACTTGGCACCACAAGCTATGTCCTATATATGTAT
TTCTGACTTGGCAGGATAGTTTCAGGGGTCTGGCAGTTTTTATTTACCTTCATTATTAAATGGGCCTCTGGGATGT
TGCTCTTTCAGGAGCTTTTTGGTAATCAATACTTCTCTCAGAAGTATGAGACCATCCTCTGCACTCTGCTCTGTC
ATCAAAGGCTGTCTGGGTGGAGATAACCTTTTTGAAAGGTGGCCTTGGTGAGAGGTATGGAGCCAAGTCTTCTAGG
TTGCTTGCCACATCACTCTATCTCTGGCCTCTGATTCTCAACTTTGTACCTGTGTGGCTCCTCTTGTAGTGCA
ATGTTGACTGTTGAAAAAGCAGCAGTATGCTTACAGTTTGCTTAGTTTGGGGACACCGTTACCACCAGAATGGC
TGCTCTGACAATATGCCTAGGGACTTTCTCATGGCTTTTATTTAATAAGGAGGCTGGGCACCCTATAAAGCCTCA
TGCATTACACCTTTGCAGCATGGTTTATGCCTCACCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGC
CCGGCTAATTTTTTGTATTTTTAGTGGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCT
CAATTCTCCACCTCAGCCTCCCAAGTAGCTGGGATTACAGACGTGTGCCACCATACTGGGTAATTTTTGCATT
TTTAGTGGAGAGGGAGTTTCACCATGTTGGCCAGGTTGGTCTTGAACCTCTGACCTCAGGTGATCCTCCTGCCTC
GGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCTCAGCCGCAAATTTCTTTATGAATTTTACACTT
GGCAAATGTTAATGACGGAAGCCATAGTCTGCTCCTAATACATGTCCAAAGCATTGACTGTTGTGTCTATTAGCTG
CCTGGTTACATTAGCTCCCTGGCTTCTTGTTTAGACCACTGCTAATCCCTTAAAAACAAGAGGTCTGGCACTAGT
AGCACAACTAAGGTGGCATTACAGATCTTTGAGCGAGCCACAGCAACTTTCTGCCAAGTCAGCTTAGTTTAGA
CTTCAGTGAATCAGGCTATTGCTATCCTAATGTATGTCTCTATGAGTGTATTTAGCCACACATCTGCCCTTGTT
GACTTTCTGACTCATTGCTTGCTTGCTTGTTCCTTGCTTTGGAAACTATTGAAGATTGCTAAAAATACCACT
GCAAAGTGATGGAAAAGGGTGGAGAACAGGGGAGTAGCCAGGCTGGATGGCTCAAATATAAATGAATGAGGAATT
CTTTATGAAGTATCAGTCAGATTTTATGATTAAGTGATGTAATATAGGAATTATGTAAAAGGGAAGATGTCTGA
TACTGATCTATTAGAGAGGTACTTTAGAGGCTTCTTGATTGGCATAAAGTTCCTAAGGTTATAGATTTCCCCC
TTTTGGCTGTATAGCAAAGTGTTTTAATCCACGGTTGTGCCTTATTGTTCCATTAAATGTATCTTCGATCCAT
CAATAAATACTTGTGGTTGAAAC

3867/5332
FIGURE 3377

GAGCTGTGCTTGGGGCGGGGCCTGGCGTGTATTGAAAAGGAAGGCGCCGGCTGCGGGAAGATGGCGGCTCAGCCG
CTGCGGCATCGCTCACGTTGTGCAACGCCGCCCGGGGGGACTTTTGTGGTGGCACTGAGAGGGCGATTGACCAA
GCTTCTTTTACGACCTCCATGGAGTGGGATACGCAGGTGGTGAAGGGGTCTCGCCGCTCGGCCCCGAGGGCTG
GGGGCTGAGGAGCCAGCCGCCGGCCCGCAGCTGCCGTCTTGGCTGCAGCCTGAGAGGTGCGCTGTGTTCCAGTG
GCACAGTGTACGCAGTGTCTGCCGACTCGGTGCACCTCGCCTGGGACCTGTGCGGGTCCCTCGGGGGCCGTGGTC
TTCTCCAGAGTTACAAATAACGTCGTTTTGGAAGCGCCCTTCCTAGTTGGCATTGAAGGTTCACTCAAAGGCAGT
ACTTACAACCTTTTATTCTGTGGTTCTTGTGGGATTCCCGTTGGTTTCCATCTGTATTCTACCCATGCTGCCCTG
GCTGCCTTGAGAGGTCACCTTCTGCCTTCCAGTGACAAAATGGTGTGCTATCTCTAAAAACAAAAGCCATAGTA
AATGCATCAGAGATGGATATTCAAAATGTTCTCTATCAGAAAAGATTGCAGAGCTGAAAGAGAAGATAGTGCTA
ACGCACAATCGCTTAAAATCACTAATGAAGATTCTGAGTGAAGTGACTCCTGACCAGTCCAAGCCAGAAAACTGA

TCCTGTACCAAAGCTTGAGTGTGAGGTTTCAAGGCTTTATTGCTGTCTTCAACAACAGGTGCTGCTTAGTCATTTCT
TGAAAAAGATTGGCTTCAAGAATGGAGGGGAAATGCAGTTTCTATTTACCTTAGGCTGATTTTCCAAATTATTT
GTGAAGCTGTTTTTAGAAGATGAGAGACTAAGGATTCTTCTCTTTTATAGCTATTTGCCTTAAGAACTTACTTTA
GATTCTTATTGAATTCATAATACTTATCTCTGAAAATGTCTTTGACTGTAAATTTAGGAATTAAGATGCAGAGTC
CCATGTGTCCTCTGATCTAAAGTTGCATGGTTGGTCTGAAAATAGAGTTGGGCTTAATGTTGACTTCTATTACTC
CTGCATGGAGCAGTTGTTATGAATACTAATACATCACTTTTAACTTCTGTAAAATACAGATCATAATATTCTAT
AGGTAATGTTTAAATAAATTGCCTGAATAATA

3868/5332
FIGURE 3378

GGGATTTGAACCGCGCTGACGAAGTTTGGTGATCCATCTTCCGAGTATCGCCGGGATTTCGAATCGCGATGATCA
TCCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGTCTCCGGG
CCAACCTGAGGGCAACCAAGTTGTTAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGAAATGAGA
ATCAGGATGAAAGTCAAACCTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAAGAAGCTG
AGAGACAGCCACTTGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCTGACTCACAGC
AGAATCATTAGAGATAAAAAATAAGTAATCCCACTGAATTCCAGAATCATGAAAAGCAGGAAAGCCAGGATCTCA
GAGCTACTGCAAAAGTTCTTCTCCACCAGACGAGCACCAGAAGCTGAGAATGCTGTTTCTCAGGTAACAGAG
ATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAATAAAAGAA
CTGCAATCACTACTCCAAACTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGATCAATATA
TTGAGAGAAAAAAGAAACATTTTGAAGAACACAATTCATGAATGAAGTGAAGCAGCAGCCCATCAATAAGGGAG
GGGTGAGGACTCCAGTACCTCCAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCGCAAG
GCCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGTCACTCAAGCGCTCTGCTATCTCTGCAG
CTAAAACGGGTGTGAGGTTTTCAGCTGCTACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCAGCCA
GAAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAGA
CCATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAGTTGACAACTGAGGCAACGCAGACTCCAGTCTCCA
ATAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCTCAACTATGAACCACACAAAGGAAAGCTAA
AACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAACCTTCTACAAGAAAACCTT
ACAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAAGCAA
AGGTTTTGGGAATGCGAAGGGGCCCTCATTTTGGCTGAAGATTAATAATTTTTTAACATCTTGTAATATTCTCTGT
ATTCTCAACTTTTTCTTTTGTAAATTTTTTTTTTTTGTGTCATCCCCACTTTAGTCACGAGATCTTTTTCTG
CTAACTGTTTCATAGTCTGTGTAGTGTCCATGGGTTCTTCATGTGCTATGATCTCTGAAAAGACGTTATCACCTTA
AAGCTCAAATTCCTTGGGATGGTTTTTACTTAAGTCCATTAAACAATTCAGGTTTCTAACGAGACCCATCCTAAAA
TTCTGTTTCTAGATTTTAAATGTCAAGTTCCCAAGTTCCCCCTGCTGGTTCTAATATTAAACAGAACTGCAGTCTT
CTGCTAGCCAATAGCATTACCTGATGGCAGCTAGTTATGCAAGCTTCAGGAGAATTTGAACAATAACAAGAATA
GGGTAAGCTGGGATAGAAAGGCCACCTCTTCACTCTCTATAGAATATAGTAACCTTTATGAAACGGGGCCATATA
GTTTGGTTATGACATCAATATTTTACCTAGGTGAAATTGTTTAGGCTTATGTACCTTCGTTCAAATATCCTCATG
TAATTGCCATCTGTCACTCACTATATTACAAAAATAAACTCTACAACCTATTCTAACATTGCTTACTTAAAAG
CTACATAGCCCTATCGAAATGCGAGGATTAATGCTTTAATGCTTTTAGAGACAGGGTCTCACTGTGTTGCCAGG
CTGGTCTCAAACCTCCACCAAAATGTACTTCTTATTCAATTTTATGGAAAAGACTAGGCTTTGCTTAGTATCATGTCC
ATGTTTCTTCACCTCAGTGGAGCTTCTGAGTTTTATACTGCTCAAGATCGTCATAAATAAAATTTTTTCTCATT
GTC

3869/5332
FIGURE 3379

GGTGTGTCCCGGGTGTGGGGAGGCGACAGAGCCCTGGCACTTGAGGGTTGAGGGGGCCTCCCCAGCGCGGCGAAC
CGTCTAGCCTCCGGAGGCCAGGCCGTGAGTGCGGGAGGTATACGCCAAGGCGGAAGAATTTTGCCACTCACTACC
TGTGTGACCTCGGGTAAATTAGCCTTGGAACGTCAGTTTCTTCGTCTCTATAATTGAAATAATAATAGTACCTCT
CTCAGGATTGTTGTGAGCCGTCAGTGAAACACTTAGAGCAGTTTCTGGCACATGGTAGAATTGGGCTATTTGCTG
AAGCTTCTTGGTGGCCCTTGCTAGCCCAGGAAGAACTTACATTTTGATTTTTTTGTACCATGCTTTGGTTCAC
AAATTGCTGCGTGGTACTTATTTTCTCAGAAAATTCTCTAAGCCAACCTCTGCCTTGTATCCATTTTGGGTATT
CGCTTTCAGAGTATTCCAGTAGTCTTCAGAAACCAAGTGGCTTCTCCTGGCAAAGCCTCCTCACAGAGGAAGACT
GAAGGGGATTTGCAAGGAGATCACCAGAAAGAAGTTGCTTTGGATATAACTTCTTCTGAGGAGAAGCCTGATGTT
AGTTTCGATAAAGCAATTAGAGATGAAGCAATATACCATTTTAGGCTTTTGAAGGATGAAATTGTGGATCATTGG
AGAGGACCGGAAGGCCACCCTCTGCATGAGGTCTTGCTGGAACAAGCCAAGGTTGTCTGGCAATTCGGGGGAAA
GAAGATTTGGATAAGTGGACAGTGACTTCTGATAAGACGATTGGAGGCAGAAGTGAAGTGTTCGAAAAATGGGC
AAGAATAACCAAAGTGCACCTGCTATATGGAACCTCTGAGCTCTGAGGCGCCTCAGGACGGGGAGTCTACCCGAAGT
GGGTACTGTGCAATGATATCCAGGATTCCAAGGGGTGCTTTGAGAGGAAGATGTCTTACGATTGGTCCCAGTTC
AATACTCTGTATCTCCGTGTACGTGGGGATGGTCGGCCTTGGATGGTGAATATCAAGGAGGACACAGATTTCTTC
CAGAGGACGAATCAGATGTATAGTTACTTCATGTTTACCCGCGGGGGACCCTACTGGCAGGAGGTCAAGATTCCCT
TTTTCCAAATTTTCTTCTCTAATCGAGGAAGAATCCGGGATGTTTCAGCATGAGCTTCCGCTTGATAAGATCTCT
TCTATAGGATTACCTTGGCTGATAAAGTGGATGGTCCATTCTTCTGGAGATAGATTTTATTGGCGTGTCTTACT
GATCCAGCTCATACAGAAGAATTTGCCTATGAAAATTCTCCAGAGCTTAACCCAAGGCTTTTAAATAAAGATCA
TATGGTAGTTTTGTTTTACTAATCTAAGGTACTAGCATCTACAATGATATAGACAAAATAAAATATTTCTTTAA
TGGCATCCAA

ACGCGAGCGCGCATGCGCGGTTCGCTTTGTGTGGTTCGAGCAGCGCGCGCGCGCGGCAGTTGGCGGTCCCCTG
GCAGGCGGGCAAGAGGGGAGTCCGGGCGGCGCGCGCGTGGGAGCGGGGGGACCACCATGGTAAAGAAGCGGAAA
GGCCGCGTCTGATCGACTCGGACACAGAGGACAGCGGCAGCGACGAGAACCTGGATCAGGAGCTCTTGTCCCTG
GCAAAGCGAAAGCGCAGTGACTCTGAGGAGAAGGAGCCGCCTGTGAGTCAGCCTGCAGCCTCGTCAGACTCGGAG
ACGTCTGACAGTGACGATGAGTGGACATTTGGGAGCAATAAAAATAAGAAGAAAGGAAAAGCCAGAAAAATAGAG
AAGAAAGGAACCTGGAAGAAACAGGCCAACAAAACCTGCCTCCTCAGGCAGTTCAGACAAAGACAGTTCAGCTGAG
AGCTCAGCCCCCTGAGGAAGGTGAAGTGTGACACTCTGACAGCAACAGCTCCTCTTCCAGTTCAGATTTCAGACTCT
TCCTCAGAAGATGAAGAGTTCCATGATGGCTATGGAGAAGACCTCATGGGAGATGAGGAAGACAGGGCCCGTCTG
GAACAGATGACAGAGAAAAGAGAGAGAGCAAGAACTGTTCAATCGCATAGAGAAGAGGGAGGTGTTGAAAAGAAG
TTTGAAATCAAGAAAAAACTAAAAACAGCCAAAAAGAAAAGAAAAGAAAAGAAAAGCAAGAAGAGGAG
CAAGAAAAGAAAAAACTGACACAGATTCAAGAATCTCAGGTAACATCCCACAACAAGGAACGGCGTTCCAAGCGG
GATGAGAACTAGACAAGAAATCTCAAGCCATGGAGGAGCTAAAAGCAGAGCGAGAAAAACGAAAGAACAGAACA
GCTGAGCTCCTTGCCAAAAAACAGCCATTAAAAACCAGTGAGGTCTACTCTGATGATGAAGAGGAGGAAGAGGAT
GACAAATCCAGTGAAAAGTCAGACCGCTCATCACGAACATCATCGTCTGATGAAGAAGAGGAGAAAAGAAGAGATC
CTTCCCAAATCCCAACCAGTTTCTTTACCTGAAGAATTGAATCGGGTTCGATTATCACGGCATAAGCTAGAACGC
TGGTGTACATGCCCTTCTTTGCTAAAACTGTACAGGATGTTTTGTGCGGATTGGCATCGGAAACCACAACAGC
AAACCAAGTTTACCGGGTCGCTGAGATTACGGGTGTTGTGGAAGCTGCCAAAGTTTACCAACTAGGTGGCACCAGA
ACAAACAAGGGGTGCAACTACGGCATGGCAATGGCAACAGCGTGTTCGGTTTAGAGTTTGTCTCAAACCAAGAA
TTCACCGAAAGTGATTTATGAAGTGGAAAGAAGCAGTGTCTCTGCTGGCATGCAGTTGCCCTACTCTAGATGAA
ATCAATAAAAAGGAATTATCTATTAAAGAAGCTCTTAATTATAAATCAATGATCAGGACATTGAAGAGATTGTA
AAAGAGAAAAGAAAGGTTTCAGAAAAGCTCCACCCAACCTACGCTATGAAGAAGACTCAGCTACTGAAGGAAAAGGCC
ATGGCTGAGGACCTGGGGGATCAGGACAAGGCCAAACAAATCCAAGATCAACTGAATGAGCTGGAGGAACGGGCA
GAGGCCCTGGACCGCCAGCGGACCAAGAACATATCCGCTATCAGTTACATCAACCAGCGGAACCGGGAGTGGAAC
ATTGTAGAGTCTGAGAAGGCCCTTGTGGCTGAAAGTCACAACATGAAAAACCAACAGATGGATCCCTTTACTCGG
CGGCAGTGCAAGCCTACCATCGTTTCTAATTCCAGAGACCCAGCTGTTCAAGCTGCCATCTTGGCCCAGCTGAAT
GCAAAATACGGTCTTGAGTGTTACCAGATGCTCCAAAGGAAATGAGCAAGGGTCAAGGCAAAGATAAAGATTTG
AATTCTAAGTCAGCCAGTGACCTCTCAGAAGATCTGTTCAAAGTACAGATTTTGTATGTGAAGATTGACTTACAA
GTTCCAGCTCAGAGTCAAAGGCTTTAGCCATCACCTCCAAGGCTCCGCCAGCCAAGGATGGGGCTCCAAGGAGA
TCTCTGAAGTGAAGACTACAAAAACGACGAGGGCTTATTGAGCACACCCAGCCTGCTGCTTCTGACCTGC
ATGCCCATCGCAGCGTCCACCTTTCTCCTTTCTTTGATTAGCCTCTTTGGGCTGGAGCAGCTGTTGAACT
GGGAAGAGACTCTAAACTGCCAGTCATCTGTAATATAAACCATTGCTGTATAGACCTCCTTTGTCTGCACACCA
TCTCCACACGCTCCCTCCCCAGGGCCCCACCCAGTGTGGGCTGGGCTCTCTTGGGCTTTATCCATGTCTT
TAGATTTGTGTTTGCTTTTGTTTTTTTAACC CGCAGTTCATG GCCACTCTGCACGCATT CAGTATTACCATG
GAGCTGGGAATCTTGCTGGAGCCCCCTGGGGCAATAGCAGCAGCACCAGGCGGTCTCCTCTACAGACTGCCTTGGC
CCACCCATTGAACATTCGGGCACGTGACCTTGTGGGGGGAGCGGGGATTGGGCACCTGCGATCCTCTTTCTCTCT
TCATCTTTCTCTTCTGCCCTTCTTTTTTGAAGAAGGGGTTTCAAAAACAGTTTGTAGTTTCCAAAAGGTGTACATT
GTGGGGGGGGGGGCTCTAATTTGAGAGCGAGAGTGTGTATGTGTGTGTGTGTAAGTGTGTGGATTTTTTTATCATT
TTTTTAAATGCAGTACTCTTTGTATCAGTCTGTCATGGGTCTATAGCTGTTTCAGATTTTTTTTTCAGCTGTACTT
GAGCATCTGAAACTGCAAGAAAGAACTCATTAAATGTGATTCTTCTTACTAAACAGGCCTGACTGCTGTAGCTG
TGTAAGTTCCTTCCCATTCACCTACTCTTCCCATCCTTTCCCAACTTTGGAGAAAACCTCCCAGTTTAGCCCCCTG
ACCTGCAGGCTGTGTCTGCGCAGGTGTGGGAGGGAAGCCCATGGCCAGGTACCAGGGAGGGCAGTGAATGCTTGT
CTCTTCCCATGGGTACAGGCCACAGCTTCTTGGCTGAACGTAGAACTTCTTTTCTCACCAGTATACCAGCCTC
TTCTTGGTGATTCTGTTTTGCTGCTTTGGCAAGAAGTACATTTGTTTTTAAGAGAAATTTCTGAATATGAATGT
GGAGAGCAAAACAAAAAGATTAGGTTACGCGGGTGCAGTAGCTACGCCTGTAATCCCAGCACTTTGGGAGG
CCTAGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACCAATCTGACTAACACGGTGAACCCCATCTCTACTA
AAACTACAAAACCTTAGCCGGGCATGGTGGTGCCTGTAATCCCAGCTACTCGGGGGCTGAGACAGGAGAAT
CCCTTGAACCTGGGAGGCGGAGGTTGTGGTGAGCCAAGATCGTGCCACTGCACTCCAGTCTGGGTGACAGAGTGA
GACTCCGCTCAAAAAGATTAGGTTGCAAAATGTTTCAAGCATGTGCAGTTTTGTGTGTGTGTATACATATATAT

3871/5332
FIGURE 3380B

GGTCAGCATATATATTGTGCAGCTAGGGCGAAGCCAGCAGAGGTGTGTGTATGTCTTTATGAAATGTTTGAAAAG
AGATAAACTGACTGCTTGATAATCACTCTCAGGTGTAAAGCTCCAAGTGTAATAAAAGTGGCATTAAACAAATC
TTTCAGAACAAAGTACAGCTGACTATATATAACCAAGAGCTAAGCTAAAGGAACAGCTGAGAGCTCCGATCTCCAC
GAGAGACTAATCTAAAAGCTCTGCTTTGTACTTCCTCACCTGCTTTTCGTACAAGGAAGGGGGACGATGGGAAAT
CATGGACTTGTAAGTTGTATTTAAACATAAAAAATGAACTTGGTAACTTCTGGGTTTAGTAGAGCCTCAGTGTGCG
TTTAACTTAGTTTACTTTTTTTTTTATTTTAAAGCAGCAATGGATGGTTTTAAAGGAGTATTATGATTGTAAAT
TGCTAAATATGACTGTAACACAGCTTTGTGGTAGCTGTGACACAGTTCCTTGGGCAAAGGAGTGGTGATGGACT
CGTTAAATCATATATACTTGAATAGTCCATTGACCGAACTCTTTATAGACTATTGTGTAAATGTGGAATCACA
GACTGTTAACATTGCCTGGACTTCAGCAGAGTCCTGGAGCTGCTGGGACCTCTCCTATCATGATGAACTTGGACT
TTTTTTTTTGATTTCTGGTTTTAAAAACATAAAATTATAGAATCCAGATAATTCGCTGGAGTCATTCTGATCCA
CCATGTAGATCTGTATTTAGTATCATTGGATTGGAGAAGTGTGATTACATTATGGCTGTGTAATAAAATTTT
TATTAAACTGC

3872/5332
FIGURE 3381A

GCGATCTCTGCGGGCAAGATGGCGGCGCCAGACAGGCCTGGAGCACGGATGAATAAGAGGGAACCCACACG
GAGAGACTGCTGGAGAGAGTCTACTGGGGAGGCAGCTGGAGCAGCAAGATGCTGTGAGACCGAAGCCAGGGGA
GTCCGAGGTGGACCTGCTGCACTTCCAGAGTCAGTTTCTCGCAGCTGGTGCAGCCCCAGCAGTGCAGTTGGTGAA
GAAAGGAAATAGGGGCGGTGGTGATGCCAACTCAGACCGGCCTCCGCTCCAGGACCATCGGGATGTGGTGATGTT
GGACAATCTCCAGATTTGCCCCAGCTTTGGTCCCTTCTCCTCCAAAGAGAGCCAGGCCAGCCCTGGCCACTG
CCTGCCTGAGGATGAGGACCCAGAAGAGAGGCTGAGGAGGCATGATCAGCACATCACTGCTGTCTTGACTAAGAT
TATTGAACGAGATACAAGTTCAAGTGGCCGTGAATCTGCCTGTGCCAGTGGTGTGCTTTCCCTGCTGTGTTCTT
TCGCTCGCGGGACACACAGGGGAAATCAGCAACATCTGGTAAGAGAAGCATCTTTGCCAGGAAATTGCGGCAAG
GAGGATAGCTGAAGCCAAGGGCCCATCAGTTGGGGAAGTTGTGCCAACGTGGGCCCACCAGAGGGTGCCGTGAC
CTGTGAGACACCCACTCCTAGGAACCAGGGCTGCCAGCTTCTGGGAGCAGCCACAGCTTTCAGGGACCCAATCT
GGTCACAGGGAAGGGGCTCAGGGATCAAGAAGCTGAGCAGGAAGCCCAGACTATCCATGAAGAGAACATAGCAAG
ACTGCAGGCCATGGCTCCTGAGGAGATCCTGCAGGAACAGCAGCGGTTGCTGGCCCAGCTTGACCCAGCTTGGT
TGCTTTCTTGAGATCTCAGCCACACGCAAGAGCAAACAGGAGAGACAGCCTCTGAGGAGCAGAGGCCAGGAGG
ACCCCTGCTAATGTACCAAGGAGGAACCCCTCATGTAGCTTTTGCCAGTGAGCCCAGGAAGAGAGACAAGCT
GGAGCCAGAAGCCCCAGCTCTGGCATTGCCCGTGACCCCTCAGAAAGAATGGCTGCACATGGACACTGTGCGAGCT
GGAGAAGCTCCACTGGACCCAGGACTTGCCCCCTGTCCGGCGGCAGCAGACACAGGAGAGGATGCAGGCTCGATT
CAGTCTTCAGGGAGAACTACTGGCCCCGTGACGTGGACCTGCCCCACCCACCTGGGTCTGCACCACCATGGAGAGGA
GGCAGAGAGAGCGGGGTATTCCCTACAGGAGCTGTTCCACCTGACCCGCAGCCAGGTTTCCAGCAGAGAGCACT
GGCACTGCATGTGTTAGCCCAGGTCATCAGCAGGGCCCAGGCTGGTGAGTTTGGGGACCGGCTAGCAGGCAGTGT
CTTAAGCCTCCTTTGGATGCTGGTTTCTCTTCTTCTACTGCGCTTCTCCTTGGATGACAGAGTGAGTGGGGTCTAT
TGCAACCGCCATCCGTGCTCTTCGGGCTCTGCTGGTGCTCCTGGAGATGAGGAGCTCCTCGACAGCACCTTCTC
TTGGTACCATGGAGCTTTGACGTTCCCTCTGATGCCCAGCCAGGAGGACAAGGAGGATGAGGACGAGGATGAAGA
ATGCCCAGCAGGAAAAGCAAAAAGGAAAAGCCCTGAAGAAGAAAGCCGGCCTCCACCTGACCTGGCCCCGACATGA
TGTCATCAAGGGGCTCCTGGCTACCAGCCTGCTGCCTCGGCTGCGCTACGTGCTGGAGGTGACATACCCAGGACC
TGCGGTGGTCCCTTGACATCCTGGCTGTGCTCATCCGCTTGCCCCGGCATTCCCTGGAATCAGCCACAAGGGTCTCT
GGAGTGCCCTCGGCTGATAGAGACTATAGTTCGAGAGTTCTTGCCACCAGTTGGTCTCCTGTGGGGGCGAGGGCC
TACCCCTAGTCTATACAAAGTACCCTGTGCTACTGCCATGAACTACTTCGTGTCTTGGCCTCAGCTGGGAGGAA
TATTGCTGCCCGGCTGTTGAGCAGCTTTGATCTCCGGAGCCGCTGTGCCGCATCATAGCTGAGGCTCCCCAAGA
ACTGGCCTTGCCCCCAGAGGAAGCTGAGATGCTGAGCACCAGGCCCCCTCCGTCTGTGGGCTGTGGCTGCCTCCTA
TGGCCAGGGCGGTTACCTTTACAGGGAGCTCTACCCAGTGCTGATGCGGGCCTTGCCAGGTGGTGCCGCGGAGCT
CAGCACCCACCCACCTCAACCCCTGTCCATGCAGCGGATAGCCTCACTGCTCACTCTCCTCACCAGCTAACCCT
GGCAGCCGGCAGTACCCCTGCTGAAACCATCAGTGATTCTGCTGAGGCCAGCCTCTCGGCCACCCCTTCTTAGT
CACTTGGACACAGGTGCTGCGGCTCCAGCCTCTTGTGAGCCGTGTCTAAGGCAGACCTTGAAGTTGCTGTCCAG
ACCTGAGATGTGGAGAGCCGTGGGCCCAGTGCCCGTTGCCTGCCTGTTGTTTCTGGGAGCCTACTACCAGGCCTG
GAGCCAGCAACCAAGCTCATGCCCCGAGGATTGGCTCCAGGACATGCAGCGCCTGTGAGAGGAGCTGCTGCTGCC
ACTGTGAGTCAGCCCACACTGGGCAGCCTGTGGGATTCCCTTAGGCACTGCTCCCTTCTGCAACCCGCTGTC
CTGTGTGCCAGCCCTTGAAGCTCCCCCAGCCTCGTGTCACTGGGCTGCTCGGGAGGCTGCCCCCGTCTCAGTCT
GGCTGGCTCAGCCTCACCCCTCCCATTCCTCACTGCCCTCCTCTCTTCTTAATACCCTGGCCCAGATCCACAA
GGGGCTGTGTGGCCAGCTGGCTGCCATATTGGCTGCCCCGGGACTCCAGAATTACTTCTCCAGTGTGTGGCTCC
TGGGGCTGCCCCACACCTCACACCTTTCTCTGCATGGGCCCTGCGCCATGAGTACCACCTGCAGTACCTGGCACT
CGCTCTGGCCCAGAAAGCGGCAGCGCTGCAGCCACTGCCAGCCACCCATGCTGCCCTCTATCATGGTATGGCCTT
GGCCCTGCTGAGCCGGCTGTGCCCCGAAGTGAGTACCTACCCATGAGCTGCTGCTGAGCTGTGTATTCCGGCT
GGAGTTCTTCCCGAAAGAACATCAGGGGGTCCAGAGGCAGCCGACTTCTTGACCAGCTGTGCTTAGGAAGCAG
CAGGGTCCCTCGGTGTGGGCAAGGACTCTGCTGGCTCAGGCCTGCCAGGACCTCCCCAGCATCCGCAACTGCTA
CCTGACTCATTGCTCGCCAGCCGAGCCAGTCTGCTGGCCTCCCAGGCTCTGCACCGAGGGGAGCTACAGCGAGT
CCCAACCCTGCTACTGCCATGCCCTACGGAGCCGCTGCTGCCACCGACTGGCCCTTCTGCCACTGATTGCCT
CTACCACCGGGCTTACAGACACCCCTCGGGACTCTCTCCACAGACACCATGGGCACAGCCATGCGGGTCTGTGA
GTGGGTGCTAGTTTTGGAGAGCTGGCGCCCCCAGGCTCTTGGGCTGTGCCCTGCTGCCCGCTGGCACGGCT

3873/5332
FIGURE 3381B

CATGTGTGTGTTCTGGTGGACAGTGAGCTGTTCCGGGAGTCCCCAGTACAGCATCTGGTGGCAGCCCTCCTCGC
CCAGCTCTGTGAGCCTCAAGTCTTGCCAAACCTCAACCTGGACTGCCGACTCCCTGGCCTGACGTCTTTCCCTGA
CCTCTATGCCAACTTCTGGATCATTGAGGCTGTCTCTTTGGGGACCACCTCTTGGGGCCCTGGTCTCCT
GCCCCGCAGCGTCGGTTTCAGTGTACCTTGCGCCTTGCCCTCTTTGGGGAACACGTGGGAGCCTTGCGAGCTCT
GAGCCTGCCTCTGACCCAGGTACTTTCTCAGCCCAGCAGGACCTGCAAGGGTACCCTGCACTGGGCTCGGGGGC
AGTCTGAGCCTTGAGGAGCTTTGGAAGACCTCAGCTTCCTCATCTTACCTCTTGGGGGCTTTGAGGGGATTAAG
AGAATCAATGAAAAGGGCTTAACATGGGCTGGGTGTGGTGGCTCACGCCTGTAATTCCATCACTCTGGGAAGCTG
AGGTGGGTGGATCACTTAAGGTCAGGAGTTGAGACCAGCCTGGGCAACATAGTGAAACCCATTCTACTAAAA
ATACAAAACCTTAGCTGGGCGTGGTTGCGGGTGCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGC
TTGAACCCCGGAAGCGGAGGCTACAGTGAGCCGAGATCGCGCCACTGCACCCAGCCAGTGACAGAGCAAGACC
CTGTCTCAAAAAAGAAAAAGGAAAGGGTTAACCTGGTGTCTGGCATATAGTGGGTATTCATTACTATTAATAA
GGCATAGCTCCTTGCTTATCAGTGTACAATCTAGATAAGAAGAGATTTACTGAAAACCTACATAGTTGTGAATT
ATTCAGATGCTAGGTGGTATCAGGATTCAGAGAAGGGGAAAGATCAAATTGGGCTTTGTGGAAGAAGTGGGGATTG
ACCCAGGCACTGTAGGTTGGGTAGAATTTGAATTGGTGAGGAGGTAGAAAGGCAGGAGATTCCTAACAGAATAAC
ATAAGCAAAAGGAGCATGACAAAGGGCAGAAGGAGGGAGGAGAGATTTCTGTTGGGAACCTTAAGGCTGGTCTTGA
ATTCTAATTTCTGTGTATCCGCTGCCTCAGCCTCCCAAGTGCTGAGATTACAGGCGTGGCCCACTACACATGG
CCAATTTATGCTTTTTAATGGCTGCTTCTCAGTTCCCAGTTTTCCCAACATCTGCTCTGTAGTCTTTAACCTT
GATCCTTGCTGTAGAGGACAGATGTTTGTCTAGGACCTGATCTCTGCCCTCATGATTTGGTTTCATGTGATCGT
TATCCACACACCTTATGTATGTATATACATTCTACCCTCCCCCTCAGCACGTCATTTCCCCTGTACAGTTGCC
TGTTGCCCTGGAGTGTTACACAGTGCCCTCCTGAAGACAACCTGGCCCTCCTTCAGCTCTACTTCCGGACCCTGGT
TACTGGTGGCTCCGCCCACGTTGGTGCCCCGTGCTCTATGCTGTGGCTGTGGCTCATGTCAATAGCTTCATCTT
CTCTCAGGACCCACAGAGCTCAGTAAGTTACATCTCCATCTTCAGAGGAAGGAAGGGAGCTAGCAATTGAGCTGC
CTCTGGGCCAGCTGGGGAAGAGGTAAGTGTCAAGCAAGGCCAGTGGTGGGTACCAGCCCTCGGCTCAGTGCCACC
TCTCCCTGTTCTGCTTCTAGGATGAGGTCAAAGCTGCCCGCAGGAGTATGCTGCAGAAAACATGGCTGCTGGCAG
ATGAGGGTCTCCGGCAGCACCTCCTGCACCTATAAGCTTCCCAATTCCACGCTCCCAGAGGGCTTTGAGCTCTATT
CTCAGTTGCCCCCTCTGCGTCAGCACTACCTCCAGAGACTGACTTCAACAGTGCTCCAAATGGGGTATCAGAGA
CCTAGGATAGTTGATATAGATGGAAAGATGGGTACGTTGTCTGTATCCAGCCTTTCAACAGATGTCTGGCCAGA
CGAAGAACATTGTGTCCTAATGGTAGGCAGGAGACCAAGGAGCAGAAGGCTTGCCCTTCTGGGAGCAGGTTGTTT
GAGCTGTTTTAGAGCAGTGAGCCCTACCATTACATCCTGATATCTGGGGCTTCTGAAGGTCTGTACTGGGAGTGA
AGAGTGGCTTAGCTATTTACCCGCTCTTTGGGGACAGGGCAAACATAATGCATCCCTTCTTACCTAACTCCCAAC
CCCTGCCCTGGGCTGAGGCATATGAATGCTATAGTTGTGCATTAATAAATGTTTTTTATCTCCTGG

3874/5332
FIGURE 3382A

CCCCGCCCTCCTCCCTCCTCGCTCGCGGGCCGGGCCCGGCATGGTGCGGCGTCCGCCCGCATGCGGCTGAGGCGG
AGCATGGGGCGGCCGGGGCTCCCGCCGCTGCCGCTGCCGCCGCCACCGCGGCTCGGGCTGCTGCTGGCGGCTCTG
GCTTCTCTGCTGCTCCCGGAGTCCGCCGCCGCGAGGTCTGAAGCTCATGGGAGCCCCGGTGAAGCTGACAGTGTCT
CAGGGGCGAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGGATGGAGGAGCCTGACATCCAGTGGGTGAAGGATGGG
GCTGTGGTCCAGAACTTGGACCAGTTGTACATCCAGTCAGCGAGCAGCACTGGATCGGCTTCCCTCAGCCTGAAG
TCAGTGGAGCGCTCTGACGCCGGCCGGTACTGGTGCCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCAGCCA
GTGTGGCTCACGGTAGAAGGTGTGCCA'TTTTTCACAGTGGAGGCCAAAAGATCTGGCAGTGCCACCCAATGCCCTT
TTCCAAGTGTCTTGTGAGGCTGTGGGTCCCCCTGAACCTGTTACCAATTGTCTGGTGGAGAGGAACACGAAGATC
GGGGGACCCGCTCCCTCTCCATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCTGTGAAGCT
CACAACCTAAAAGGCTTGGCCTCTTCTCGCACAGCCACTGTTACCTTCAAGCACTGCCTGCAGCCCCCTTCAAC
ATCACCGTGACAAAGCTTTCCAGCAGCAACGCTAGTGTGGCCTGGATGCCAGGTGCTGATGGCCGAGCTCTGCTA
CAGTCTGTACAGTTACAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCTGGCTGTTGTGGTCCCTGTGCCCCC
TTTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGGTGCGCTGTGCCAATGCCTTGGGG
CCCTCTCCCTATGCTGACTGGGTGCCCTTTAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCAAAACCTCCAT
GCCATCCGCACAGATTCAGGCCTCATCTTGGAGTGGGAAGAAGTGATCCCCGAGGCCCTTTGGAAGGCCCTTG
GGACCTTACAACTGTCTTGGGTCAAGACAATGGAACCCAGGATGAGCTGACAGTGGAGGGGACCAGGGCCAAT
TTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCGTCTCCAATGCAGTTGGCTGTGGACCCTGG
AGTCAGCCACTGGTGGTCTCTTCTCATGACCGTGACGGCCAGCAGGGCCCTCCTCACAGCCGCACATCCTGGGTA
CCTGTGGTCTTTGGTGTGCTAACGGCCCTGGTGACGGCTGCTGCCCTGGCCCTCATCTGCTTCGAAAGAGACGG
AAAGAGACGCGGTTTGGGCAAGCCTTTGACAGTGTCTATGGCCCGGGGAGAGCCAGCCGTTCACTTCCGGGCAGCC
CGGTCTTCAATCGAGAAAGGCCCGAGCGCATCGAGGCCACATTGGACAGCTTGGGCATCAGCGATGAATAAAG
GAAAACTGGAGGATGTGCTCATCCCAGAGCAGCAGTTACCCCTGGGCCGGATGTTGGGCAAAGGAGAGTTTGGT
TCAGTGGGGAGGCCAGCTGAAGCAAGAGGATGGCTCCTTTGTGAAAGTGGCTGTGAAGATGCTGAAAGCTGAC
ATCATTGCCTCAAGCGACATTGAAGAGTTCTCAGGGAAGCAGCTTGATGAAGGAGTTTGACCATCCACACGTG
GCCAACTTGTGGGGTAAGCCTCCGGAGCAGGGCTAAAGGCCGTCTCCCATCCCCATGGTCATCTTGCCCTTC
ATGAAGCATGGGGACCTGCATGCCTTCTGCTCGCCTCCCGGATTGGGGAGAACCCCTTTAACCTACCCCTCCAG
ACCCTGATCCGGTTCATGGTGACATTGCCTGCGGCATGGAGTACCTGAGCTCTCGGAACTTCATCCACCGAGAC
CTGGCTGCTCGGAATTGCATGCTGGCAGAGGACATGACAGTGTGTGGCTGACTTCGGACTCTCCCGAAGATC
TACAGTGGGACTACTATCGTCAAGGCTGTGCCTCCAACTGCCTGTCAAGTGGCTGGCCCTGGAGAGCCTGGCC
GACAACCTGTATACTGTGCAGAGTGACGTGTGGGCGTTCCGGGTGACCATGTGGGAGATCATGACACGTGGGCAG
ACGCCATATGCTGGCATCGAAAACGCTGAGATTTAACTACCTCATTGGCGGGAACCGCCTGAAACAGCCTCCG
GAGTGTATGGAGGACGTGTATGATCTCATGTACAGTGTGGAGTGTGACCCCAAGCAGCGCCCGAGCTTTACT
TGTCTGCGAATGGAACCTGGAGAACATCTTGGGCCAGCTGTCTGTGCTATCTGCCAGCCAGGACCCCTTATACATC
AACATCGAGAGAGCTGAGGAGCCCACTGCGGGAGGCAGCCTGGAGCTACCTGGCAGGGATCAGCCCTACAGTGGG
GCTGGGGATGGCAGTGGCATGGGGGCAGTGGGTGGCACTCCAGTGACTGTGGTACATACTACCCCCGGAGGG
CTGGCTGAGCAGCCAGGGCAGGCAGAGCACCAGCCAGAGTCCCTCAATGAGACACAGAGGCTTTTGCTGCTG
CAGCAAGGGCTACTGCCACACAGTAGCTGTTAGCCACAGGCAGAGGGCATCGGGGCCATTTGGCCGGCTCTGGT
GGCCACTGAGCTGGCTGACTAAGCCCCGTCTGACCCAGCCAGACAGCAAGGTGTGGAGGCTCCTGTGGTAGTC
CTCCCAAGCTGTGCTGGGAAGCCCGGACTGACCAAATACCCAATCCCAGTTCTTCTGCAACCACTCTGTGGCC
AGCCTGGCATCAGTTTAGGCCCTTGGCTTGATGGAAGTGGGCCAGTCCCTGGTTGTCTGAACCCAGGCAGCTGGCAG
GAGTGGGGTGGTTATGTTTCCATGGTTACCATGGGTGTGGATGGCAGTGTGGGAGGGCAGGTCCAGCTCTGTGG
GCCCTACCTCCTGCTGAGCTGCCCTGCTGCTTAAGTGCATGCATTGAGCTGCCTCCAGCCTGGTGGCCAGCT
ATTACCACACTTGGGGTTTAAATATCCAGGTGTGCCCTCCAAGTCACAAAGAGATGTCTTGTAAATATCCCTT
TTAGGTGAGGGTTGGTAAGGGGTGGTATCTCAGGTCTGAATCTTACCATCTTTCTGATTCCGCACCCCTGCCTA
CGCCAGGAGAAGTTGAGGGGAGCATGCTTCCCTGCAGCTGACCGGGTCACACAAAGGCATGCTGGAGTACCCAGC
CTATCAGGTGCCCTCTTCCAAAGGCAGCGTGCCGAGCCAGCAAGAGGAAGGGGTGCTGTGAGGCTTGCCAGGA
GCAAGTGAAGCCGGAGAGGAGTTAGGAACCTTCTCCATACCCACAATCTGAGCACGCTACCAAATCTCAAAAT
ATCCTAAGACTAACAAGGCAGCTGTGTCTGAGCCCAACCTTCTAAACGGTGACCTTTAGTGCCAACCTTCCCTT

3875/5332
FIGURE 3382B

CTAACTGGACAGCCTCTTCTGTCCCAAGTCTCCAGAGAGAAATCAGGCCTGATGAGGGGGAATTCCTGGAACCTG
GACCCAGCCTTGGTGGGGGAGCCTCTGGAATGCATGGGGCGGGTCCTAGCTGTTAGGGACATTTCCAAGCTGTT
AGTTGCTGTTTAAATAGAAATAAAATTGAAGACTAAAGACCTA

3876/5332
FIGURE 3383

ATGAATAAACTGACAAAAATCCTTGCTTCAGAAATTTGTCATTGCCATCTCAACCAAACTGGCATTAGCAAT
GTAAAAATCCAAAACATCTTATTGATGCTCACTTCGAGAAGCAGTTGCAGAAGCCCAGACACCAGGAAGGTGAG
ATCTCTGACACAGAAAAAGAGAACTACAAGACTACAGAGCAGTGCAAGATTGATCAGAAAGCTGTGGACTCACAA
ATTGTACGAAAAATCAAAGCTATTCCTCAGCTCCAGGGCTACCTGCGATCTGTGTTTGCCCTGACGAATGGAATT
TATCCTCACAAATTGGTGTTTTAA

3877/5332
FIGURE 3384A

ATCTCCAAGGTAGCATCCAATGCCAAGGTGGCTGCATCCAGGAAACCACGTACCCTGTTGCCTTCAACATCCAAT
TCCAAAATGGCATCCTCCTCTGGCACTGCAACAAATCGCCCTGGGAAGAATCTGAAGGCGTTTGTCCAGCAAAA
CGGCCAATTGCGGCTCGACCTCTCCTGGTGGTGTGTTACACAGTTTGTGATGAGTAAAGTTGGAGCCTTGCAG
CAGAAGATACCTGGAGTTAGCACACCCCAAACCCTGGCAGGGACACAGAAGTTCAGTATCAGACCTTCTCCAGTA
ATGGTCGTCACACCTGTGGTTTCTTCTGAGCCAGTTCAGGTGTGCAGCCCTGTGACTGCTGCTGTCACTACTACC
ACCCCTCAAGTGTTTTTAGAAAATACTACTGCTGTGACACCTATGACTGCTATTTCTGACGTGGAACTAAAGAA
ACTACTTATTCTTCTGGTGCCACCACTACAGGGGTTGTTGAGGTCTCTGAACTAATACCAGCACCTCTGTAACA
TCTACCCAGTCTACAGCCACTGTGAACCTTACCAAAACCCTGGGATAACTACCCCTGTGGCTTCAGTTGCTTTT
CCTAAGTCTTTGGTAGCATCTCCTTCAACCATAACTCTTCTGTTGCTTCCACTGCTTCCACCTCCTTAGTCGTG
GTGACTGCAGCTGCATCTTCTCCATGGTGACCACCAACTTCATCTCTGGGCTCTGTTTCTATTATACTCTCA
GGAATTAATGGGAGTCCACCAGTGAGCCAGAGACCAGAAATGCTGCTCAAATTCCAGTGGCTACTCCACAGGTC
TCTCCTAACACAGTGAAACGTGCTGGACCTCGATTGTTGTTGATTCCAGTGCAGCAGGGTTCTCCTACTCTTAGA
CCTGTCTCAAACACACAACCTTCAGGGACATCGGATGGTCTTGACGCTGTAGGAGTCCAAGTGGAAATGAACCTA
TTCAGGCACCTAATGGGCAGATTGTCCAGCTTCTACCTTTCATCAGCTTCGAGGCTCTAATACCCAGCCCCAAC
TTACAGCCTGTCTATGTTTCGGAACCCAGGCTCTGTGATGGGAATCCGGTTACCTGCTCCTTCCAAACCCTCTGAG
ACTCCGCCATCTTCCACTTCGTCCTCTGCTTTCTCTGTCAATCCTGTAATTCAAGCTGTTGGGTCTTCTTCA
GCAGTGAATGTTATCACTCAGGCACCATCATTGCTTTCTCTGAGCTAGTTTTGTGTCTCAGGCTGGTACATTG
ACCCTGAGGATTCTCCTCCTGAACCACAAAGCTTTGCAAGTAAACAGGCTCTGAAACCAAAATACTTATAGC
TCAGGAGGACAGCCTGTTGGTACAGCCAGTCTTATTCTCTCCAGTCTGGTAGTTTTGCCTTGTACAGCTCCCA
GGACAAAAGCCTGTTTCTAGCTCCATTCTTCAGCATGTTGCTTCCCTTCAGATGAAGAGAGAATCTCAGAATCCA
GACCAGAAAGATGAAAACAACTCAATAAAAAGAGAGCAAGAAACGAAGAAGGTTCTACAGTCAAGAGAGGCT
GTAGACCTGAGGCTAATGTAATAAAACAAACTCAGGAGCTGCTACCTCAGAAGAACTCTGAATGATTCTTG
GAAGATAGGGGTGATCATTGATGAAGAATGCCTTCCAGAAGAAGGTTGTGCAACTGTCAAACCATCTGAGCAT
TCTGTATCACTGGGTACATACAGATCAAGATTATAAAGATGTTAATGAAGAATATGGGGCTAGGAATCGTAAG
AGTTCCAAAGAAAAGTGGCTGTTCTGGAAGTTAGGACCATTTCTGAAAAGCCAGTAATAAGACAGTCCAAAAT
TTAAGTAAAGTACAGCATCAAAAACCTTGGTGATGTGAAGGTGGAACAGCAGAAAGGATTGACAATCCAGAAGAA
AACTCAAGTGAATTTCCAGTCACTTTAAGGAAGAAAGTAAATTTGAATTGTCAGGAAGCAAAGTTATGGAGCAG
CAATCTAATCTACAGCCAGAGGCCAAAGAGAAGGAATGTGGAGACTCTCTGGAGAAAGACAGGGAAAGATGGAGA
AAACATCTGAAGGGCCCCCTTAACCAGGAAATGTGTTGGAGCTTCACAGGAATGTAAGAAAGAGGCAGACGAGCAG
TTAATTAAGAAACAAAGACATGTGAGGAAATTCAGATGTGTTTCAGCAAGAACAAGGCATCTCTGACTTACTT
GGAAAAAGTGAATTAAGATGCCAGAGTTTTGAAAACCTGAATGTGATTCTTGGAGTAGGATTCTAATCCT
TCAGCCTTCTCCATTGTTCTAGGAGAGCTGCAAAAAGCAGCAGAGGGAATGGACATTTTCAGGGTCACTTACTG
CTACCTGGAGAACAGATACAACCAAGCAAGAGAAGAAGGGTGGGAGAAGCAGTGTGACTTCACTGTTTTGGAT
TTGGAAGAAGATGATGAAGATGATAATGAGAAAACCTGATGATTCTATTGATGAATTTGTGGATGTTGTTTCTGAC
TACCAGAGTGAGGAGGTTGATGATGTAGAAAAGATAACTGTGTAGAATACATTGAGGATGATGAGGAGCACGTG
GACATTGAGACTGTAGAAGAGCTCTCAGAGGAAATTAATGTTGCTCACCTGAAGACCACAGCGGCCACACACAG
TCATTCAAACAGCCGCTCCTGTACTCACATCTCTGCAGATGAAAAAGCAGCTGAAAGGAGTCGAAAGGCTCCACCA
ATTCCTCTAAAACCTGAAGCCTGATTACTGGAGTGACAACTACAGAAAGAAGCAGAAGCGTTTGCTTATTATCGC
CGGACACACACTGCCAATGAGCGGCGGCGGCGTGGTGAAATGAGGGATCTCTTTGAGAAATTAAGATCACATTG
GGATTACTTCACTTCTCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGTGAATTCAGGGACTAACA
GATCAGGCAGACAAATTGATAGGACAGAAAAATCTCCTGACTCGAAAACGGAATATTCTGATACGGAAAGTATCG
TCTCTTTCAGGTAAGACAGAAGAAGTGGTCTGAAGAAGCTAGAGTATATTTATGCAAAACAGCAAGCACTAGAG
GCACAAAAAAGAAAAAAGAAGATGGGATCAGATGAGTTTGACATATCTCCAGAATTAGCAAAACAGCAGGAAGGA
TCTTCTGCATCATCTGTAGATCTTGGACAGATGTTATAAATAACAGGAGGGGGAAACCTTTGATTCTTTCCAGA
AAAAAGACCAGGCCACAGAAAATACCTCACCTTGAACACTCCACACACCTCTGCCAACCTTGTGATGACTCCG
CAAGGGCAATTGCTCACCTAAAAGGTCCCTATTCTCAGGACCAGTGGTAGCTGTTTCTCCTGATCTCTTAGAA
CTGATCTTAAGCCTCAAGTTGCCGGTAGTGCTGTGGCTCTACCAGAAAATGACGACTTATTATGATGCCACGA
ATTGTTAATGTGACATCATTGGCCACAGAGGGAGGTTTGGTAGATATGGGTGGCAGCAAAATATCCTCATGAAGTT

3878/5332
FIGURE 3384B

CCTGATAGCAAGCCATCTGACCATCTGAAAGACACCGTCAGGAATGAAGATAATTCCTTAGAGGATAAGGGTAGA
ATCTCTTCCAGAGGAAACAGAGATGGCAGAGTGACGTTGGGTCCAACGCAGGTTTTCTGGCAACAAAGATTCT
GGTTATCCACAAATAGTTGACGTTTCCAATATGCAGAAAGCACAAGAGTTCTTACCTAAAAAGATTCTGGTGAT
ATGAGAGGGATTTCAGTATAAATGGAAAGAGAGTGAATCAAGAGGGGAGAGAGTGAAGTCAAAGGATTCTTCATTT
CATAAATTAAAGATGAAAGATCTCAAGGACTCAAGCATAGAGATGGAAGTGAAGGAAAGTAACATCAGCTATAGAG
GAAGCAGCTCTTGATTCCAGTGAAGTCTGACTAACATGGAAGATGAGGATGATACTGATGAGACACTGACTTCA
CTGCTCAATGAAATTGCCTTTCTTAATCAACAATAAATGATGACTCTGTTGGCCTGGCTGAAGTACCCAGCTCT
ATGGATACAGAGTTCCAGGGGATGCTCGGCGGGCTTTATTAGTAAGGTTCCCTGGAAGCAGAGCAACTTTC
CAGGTTGAGCACTTGGGAAGTGGTTTGAAAGAGTTGCCTGATGTTCAAGGGGAGAGTGACTCTATCAGTCCCCTC
CTCTTGCACTTGGAAAGACGATGACTTTTCTGAGAATGAAAAACAAGTTCGAGAACCAGCCTCTGAGCCAGATGTC
CTTAAGATTGTTATTGACTCTGAAATAAAGGATTCCCTCCTTTCCAACAAGAAAGCTATTGATGGAGGAAGAAT
ACTTCTGGCCTCCCTGCAGAGCCCGAAAGTGTGCTCACCCTACACATGAAGACTGGCTTGGAGAAGC
AGCAACAGCACAGACACTTTGTGGAGGCCTATGCCAAAGTTGGCCCTCTAGGTTTAAAGTAGCTAATCCTTCC
AGTGATGCAGATGGTCAGAGTCTCAAGGTGATGCCTTGTTTGGCACCTATAGCTGCCAAAGTTGGGTCAGTTGGA
CACAAATGAAGTAAACAGGGAATGACCAGGAAGGCCGGGAAAGCAAGGTGATGCCTACATTGGCACCTGTTGTG
GCTAAATTGGGCAACTCGGGGGCCTCACCAGTTCTGCAGGGAAATGAAGTACTTGTCTTAAGCAGAAGCCAG
GCTGTGAGGGGAAATAGATCTCACCTCCTTTCTCTGCAGGCATCTGTTTGTGTTGTCTTAGAACTTGGATCCTT
GACTTCAATGATGCAGTGGATAATGATGGGAGAAAGGGGTAGGGTGTGACCCTGGTATAAGAAGTACTCTGAA
ATTCTGATCATGTTAAAATGTGTTACCTCACTTGTGGTGTGGTCCCCTCATCTCTCTAAGAAGATGTGATCC
ATTACTGAACATGAGGTGCCCTCTTACCCAAGGAATTTATAACATGACTCTGGCTCCACAGTGGTTTCTAGTTC
TTCCCCCACAAGCGAAAGAGCTGTTTGAAGTCTTGGAGTTGCTGTAGACTGAAGTGTAGCTTGTAGCTGTTGAAT
TAAGTCCAAATCTAAGGAATGCGATGGACTTGTGCAAAGGGATCCAGAAGAGACACTTTTTAGTTGATGTTTCA
AGAATAGGGAGAGAGAGGATGGGTACCATGGAATACCAAGTGAAGGACTTGTGTCAATTCAGTAAAATTTCTT
TTTTCATATCCTAAGTAGCTCCCATTCCCTCACCTTTTCAATCAGAAATTAACAAATTCAAGCCTTCAGTAAAGTA
GGGATGCTTTTAACTTTTATTATTAATTATTTTGGAGATCTTAAAAAATAGTAGTTCTCCCTTATTATTTTGTG
GGCATTGAAAAGCTCATTTCACAGTACCAGAGATTTTTACTGGGAGTATATATTTTGGAGGTAGGCATAGAGGGA
GCCCTACCCCTTCCACAAATTACGTTACTCAAGAGACAGCTAAAAATAAATGCATTATCTCCCCAGACCAGAGAC
AGTGGCCAAAATAAAAAATCATGGGGCTGGAAATTTCCCAAATCAAACCAGCCTCCTGGTGCTTGAAGTTTCAT
TCACTATTACCTGCACAGGATGTAAAGAAAAGTCACAGTAGGCCTCTTACCAGGGAAATAAGGCAGTATTTGA
ATCACAAGATATATTTTTTATCTGCAACCATGGATCCAATGATCTGTAGAGCTTTTTCACTCATTAACTGTCAGG
ATATGAAGGACTGACAGTCTGTAAAGATATTTATATTTTGTATAGTTGTTTTCATAGATTTCTCAAAGCTGAA
GTTTTCAACCTAGAAGATGAGATTTGTATTGAGTATAGAAATGATGTTTCTATCTAGTTTGTAAATAATCATGG
TGCATTGAGGGGTCTCTTGAAACTCCTAGGGGGTCAAGAATCACTATTCTGAAACTGTATAGACTGGGATTTA
GCTGCTGCATTTTGCCTTTCTTAAATAATTATATTTTGGAAATGAACCCCTGTTCTGTCTTCATTGACAGGATTT
GCTTGTTGTTGTTAAACACTAACACAAGAGCTTCCAGTGCCCTGGGCGGTGCCTAGGTGATGCTATTCTTCTATA
TCTCCTGTCTTTTATCCCAAATCCCCTCAGCATATCTTCAGACCTAGGTTGTAAGACCAACTTTGGATTGGA
TCTAGCCAGTGAATTATTTATTTCCATGGTTGGTTCCCTTTCTGTTAACTCTGGTAATCAACAGATTGAAAACGGT
GGAAGAACTTCTGAAAATTGCAAGTGGGAGCAAATCTTGTGGTTTGTGCTGCTTGCCTTTCTAGATCTGCTCA
TCAGCACTTAACCTTCCCTCCTCTAAAGGTTACTAAAGAAGCCTGAAGTAGGTAAAGAGTGCTCCTCAGCTTCTT
ATCCTTCCACTCTTTACCCAGCAGATTTCAATCAATGCCTTAGCCAAGGAGTCCAGCACCTGTCTCCCCTGCTAA
TAATTGCTCTTAGAGATGCTAGTACTTTAATCCAGGTATAGCAGTTTCCCGTTATTTCTTGCTTGCTGCTCCCC
TACATTTCTCCTGATTTCCCAAGACTCTCTTTGTGGCTTTTGAGGGTCAGCCAAGGAGCAGGCAAGTGAGTGAA
CAATCCTCAGGAAAAGAAGGACCATTTTAGCTTAACACTTCCCTTTTTTTTTTTTTTTTTTTTTTAAAGAAGATATAG
GTAAACAGGTAATGATTCTTGATTGGAGATACCATTGACTCTTGATGAGAGTTGTACGAAGATGGAAGTGAAGG
ATGATTCCAGGCGTTTTAGGGGGAAGGCTGCAGATACCATTCTAACCCCAAGATACTGTGTTCTCAAGACCTCT
TAGAACTAGGTGTTGTGAGGGATAATTTAGGAGGGCTTAGTCTTCAGAACAATCCTGCAGTCTTGACAGAAATC
TAAATCTCCAAAACCTCCTACCCTTTAACCTTACCCTAGGGGGAAGTATCTATGAATATTACATGTGTGATTA
TGAAAGGTGAAGTTGAGTGAGAGGAGTTGAGGAACGTGGAAGACAGTGAGCTCTCACCTAACACTATAAGAAGC

3879/5332
FIGURE 3384C

ATGATCTCAATAGACCAATAATTCACCTTTTTATACATCTGTAAATAAATGGAATGTTTTAAGAATATAATTAT
GTCAGATTTAGCATTTTCTTTTATATATTAAATATATATATCTTTCCTTTTCTGCTTTCGAAAAGTGACTATTTT
TTTAGAAATCTAAGAACAGAAGTTTGGTGATTGAAAGGTAGAATATATAAACCTGAAATAAAGCAGTTAAACAA
TTAAAGCAG

3880/5332
FIGURE 3385

GACGCAGCCATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATTCCTGGCCGCTGCAAGGGAG
CTCTGCGTGCTCTTGCTGTGCCCTACCTGGACAAACCCCAACTCCGCTCCACTTCTACCGGGACTGGGTCTGC
CCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCACTGGCCGGCCCTCCAGAAGTGGTCCCTCCCTATTTC
AGAGCCACAGTGGGCTCCACAGAGGTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGAGGGGAT
CGCTTCATGATGCCAGCTGAGCGCCGCTGCCCTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGGCCAGCAC
CCTGGAGTCCTCTATGTGCAGAAGCAGTGCTCCAACCTGCCAGCGAGCTGCCCCAGCTGCTGCCTGATCTGGAA
TCCCATGTGCCCTGGGCCCTCCGAAGCCCTGGGAAAGATGCCCGATGCTGTGAACCTTCTGGCTGGGGGAGGCGGCT
GCAGTGACTTCTTTGCACAAGGACCACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTCCTGTTC
CATCCGCCAGCGACCGGCCCTTCATCCCTATGAGCTGTACACGCCGCAACCTACCAGCTAACTGAAGAGGGC
ACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGTCCAGGACCTGCCTGCTACGGTTCGTGTC
CTGCAGG|CCCATCGCTTACCCTCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTCTGGCTGCCACG
GCCTGCAGCCACAGGCTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTTCATCTC
AGGATCCACAGGCAGCTCAAGAATGTATGGAAGTGAAGTCTTTGACCAGGACCTGGTGACCGGAGATGACCTC
GTGTTGTCACTACTGTTTGATGCGGGGACTCTGCGGGCTGGGGAGTTCCGGCGCGAGAGCTTCTCACTGAGCCCT
CAGGGTGAGGGGCGCTTGAAGTTGAATTTGCGCTGCAGAGTCTGGCTGACCGTGCGAGTGGCTCGTCAGCAAT
GGCGTTCTGGTGGCCCGGAGCTCTCCTGCTTGACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCCCTCAGAG
CACAGAGTTCAGCTTGTTGCTTGGGTCTGTGAGGGTCCGAGGAGGCTCTGTGGGCACTGGCACCTTCCGC
TTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCTGCAGGATGCCCCGAGGAGCAACTAAAGGCG
CCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTTGCTTCCCCACGTCCAGGAGCCCTGATGAGAGTG
GAGCTGAAAAAAGAAGCAGGACTGAGGGAGCTGGCCGTGCGACTGGGCTTCGGGCCCTGTGCAGAGGAGCAGGCC
TTCCTGAGCAGGAGGAAGCAGGTGGTGGCCGCGGCCCTTGAGGCAGGCCCTGCAGCTGGACGGAGACCTGCAGGAG
GATGAGATCCAGTGCTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGGCAGCTG
GCTGGCCTGAAGGAGCTGGGCCTCTTGATTGCGTCTCTACATCACCGGGGCTCGGGCTCCACCTGGGCCTTG
GCCAACCTTTATGAGGACCCAGAGTGGTCTCAGAAGGACCTGGCAGGGCCCACTGAGTTGCTGAAGACCCAGGTG
ACCAAGAACAAGCTGGGTGTGCTGGCCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGTGCCCGC
TTGGGCTACCCAAGCTGCTTACCAACCTGTGGGCCCTCATCAACGAGGCGCTGCTGCATGATGAGCCCCATGAT
CACAAGCTCTCAGATCAACGGGAGGCCCTGAGTCAATGCCAGAACCCTCTGCCATCTACTGTGCCCTCAACACC
AAAGGGCAGAGCCTGACCACTTTTGAATTTGGGGAGTGGTGCGAGTTCTCTCCCTACGAGGTGGCTTCCCCAAG
TACGGGGCCTTCATCCCTCTGAGCTCTTTGGCTCCGAGTTCTTTATGGGGCAGCTGATGAAGAGGCTTCCCTGAG
TCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCTCCAGGACAGCTTATACTGGGCC
TCAGAGCCCAGCCAGTTCTGGGACCGCTGGGTGAGGAACAGGCCAACCTGGACAAGGAGCAGGTCCCCCTTCTG
AAGATAGAAGAACCACCTCAACAGCCGGCAGGATAGCTGAGTTTTTACCGATCTTCTGACGTGGCGTCCACTG
GCCCAGGCCACATAATTTCTGCGTGGCCTCCATTCCACAAAGACTACTTTCAGCATCCTCACTTCTCCACA
TGGAAGCTACCACTCTGGATGGGCTCCCCAACCAAGCTGACACCTCGGAGCCCCACCTGTGCTGCTGGATGTT
GGCTACCTCATCAATACCAGCTGCCCTGCCCTCCTGCAGCCACTCGGGACGTGGACCTCATCTGTGATTGGAC
TACAACCTCCACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCGGTTCTGCCAGGAGCAGGGGATCCCGTTCCCA
CCCATCTCGCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGCCCGGA
GCCCCTGCGGTGCTGCACTTTCTCTGGTCAAGCAGCTCCTTCCGGGAGTACTCGGCCCTGGGGTCCGGCGGACA
CCCGAGGAGGCGGAGCTGGGGAGGTGAACCTGTCTTCATCGGACTCTCCCTACCACTACACGAAGGTGACCTAC
AGCCAGGAGGAGCTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAACAACCAGGAGCAGCTGCTGGAG
GCTCTGCGCCAGGCAGTGACGCGGAGGCGGAGGCGGAGGCCCCACTTGATGGCCGGGGCCCCCTGCCACCCCTAACT
CTCATTCATTCCCTGGCTGCTGAGTTGCAGTGGGAAGTGTATACGCAGTGCTTCAGAGCCTCGGGCTCAGGT
GGCACGGTCCAGGGTCCAGGCTGAGGGCTGGGAGCTCCCTTGCGCCTCAGCAGTTGCAGTGGGGTAAGGAGGC
CAAGCCCATTTGTGTAATCACCCAAAACCCCGGCCCTGTGCCTGTTTTCCCTTCTGCGCTACCTTGAGTAGTTG
GAGCACTTGATACATCACAGACTCATACT

3881/5332
FIGURE 3386

GGGAGAGTCGAACCCGGAGCAGGGTCCCATCCGAGCGTGGACTGGCGGCAGGATGTTTCAGCTGGATGGGGCGGCA
GGCGGGCGGGCGGAACGCGCTGGCGGCGCGGACGCGGTGCAGACGGTGACGGGCGGGCTGCGCTCGCTCTACCT
GCGCAAGGTGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGAGTTCCACTCGCCTGCGCTGGAGGACGCCGACTT
CGAGAACAAGCCCATGATCCTGCTGGTGGGCCAGTACAGCACCGGCAAGACCACCTTCATCAGATACCTACTGGA
GCAGGATTTCCAGGCATGAGGATTTGGTCCGGAGCCCCACCACAGACTCCTTCATCGCCGTGATGTATGGAGAGAC
TGAGGGCAGCACCCAGGGAATGCTTTAGTCGTGGACCCCAAAAAGCCGTTTAGAAAGCTCAGTCGCTTTGGAAA
CGCTTTTCTGAATCGATTTCATGTGCTCACAGCTCCCCAATCAGGTCTTGAAGAGCATCAGCGTCATCGACAGCCC
CGGCATCCTTTCTGGGGAGAAGCAGCGCATCAGCCGAGGCTATGACTTCTGCCAGGTCTCGAGTGGTTTGCCGA
GAGGGTGGACAGGATCATCTGCTCTTTGACGCTCACAAGCTGGACATCTCAGATGAATTCTCAGAGGCCATCAA
GGCCTTCCGGGGCCAGGACGACAAGATCCGTGTGCTGCTGAACAAGGCCGACCAAGTGGACACGCAGCAGCTGAT
GCGGGTCTACGGGGCCCTCATGTGGTCCCTAGGCAAGGTTCATCAACACGCCCGAGGTACTGCGCGTCTACATTGG
CTCCTTCTGGGCGCAGCCCCGCGAAGCAGCGGTGCGCAAGCTCAACGACCTCATCAAGCGAGCGAGGCTGGCCAA
AGACATCCAGAGCCTCCCCAGAAGGCAGCGGTGCGCAAGCTCAACGACCTCATCAAGCGAGCGAGGCTGGCCAA
GGTGCATGCCTACATCATCAGCTACCTGAAGAAGGAGATGCCAAGTGTATTTGGAAAAGGAAAACAAGAAGAGAGA
GCTTATCAGCAGGCTACCGGAAATCTACATTAGCTACAGCGAGAATACCAGATTTCTGCAGGGGACTTCCCTGA
GGTCAAGGCTATGCAGGAACAGCTTGAGAACTATGACTTCACCAAATTCCTACTGCTGAAGCCCAAGCTGATCGA
GGCAGTGGACAACATGCTGAGCAACAAGATCTCGCCCTCATGAACCTCATCAGCCAGGAGGAGACGAGCACGCC
CACGCAGCTGGTGCAGGGCGGCGCCTTCGATGGCACCACCGAGGGCCCCCTCAACCAGGGCTACGGGGAGGGTGC
CAAGGAGGGCGCCGACGAGGAGGAGTGGGTGCTGGCCAAAGACAAGCCCGTCTACGACGAGCTCTTCTACACTCT
GTCGCCCATCAATGGCAAGATATCAGGTGTCAACGCCAAGAAGGAGATGGTGACCTCCAAGCTGCCCAACAGCGT
CCTGGGCAAGATCTGGAAGCTGGCCGACTGCGACTGCGACGGCATGCTTGATGAGGAGGAGTTCGCGCTGGCCAA
GCACCTCATCAAGATCAAGCTCGACGGCTACGAGCTGCCCAGCAGCTGCCCCCCCCACCTCGTGGCCCCCTCGCA
CAGGAAGTCCCTGCCCAAGGCCGACTGAGGGGTGGGCTGCAGAACGGGGTGGGAACTGGGGGACCTGGGCCTCAG
GCCTGCTCCACCACTGACTCACCGAATGACCTTGGGCAAGGCACTGCCCTCTCTGTGCCTTGGTTTCCCCATCTG
TAGAATGGGGAGGGTGGACACTGGAAACTAGATGACTTCTTTACCTCCAAAATTCCCTTAGTTTCTATGAAAAAT
ATTGGGGGTAGGGGGGTGGATTAGGAGATTGAAGGGTTGAGAAGAAAGAGAAATTGTCCAAAGAGTCCTCAGAAC
CTGCCTGGAGAAATGCGCATGGGGGTGGGCCTGGTAAGTCCCAGGAACACAGGAAGTGAGCTAAGGCTCACCCA
GAGCAGCTGGGTCTCCAGGCTGCCTGGGCTTTTTGTCTCATGAACTCTGGAGCAGCTGTCTGTCCCTCAGA
GGGCACCTGGAGGCAGCAAAGATTATCTTATTTATTTTATTTTGTCTTCTGCTATATTTAGAGTGGCAAAAAAAT
AGAGCAGAGGGTTTCTGCTGTCTCCAGACTGTCTACCAAGAGAAGGCGACAGATGCCTCCTGGGTTTGAAGGG
GGATGCACTGTGGATCTGCCATCCATTCTGCAGTCTCCAGCAGAGCAGGCAGTCAGGCCCCAGCGTGCCTCCATC
CCAGTGGCCCGATGACCATCTGGTCAGCCCTCCCAACCTCCCTTCCAGGGGGCTTACCAGCAAAGCCATATTGGG
CTAGGAATTTGGAATTCACAACCTTTATTAACCCCTGGCAAACTTCCCGTTTGCATGTCAAATCACATTGAAGC
CTGAAAATTAGCTTTTCTTACTGGTTTTTCCAATAAGTAATAGCAAAGCCCACTTATCATACTTAACTACAGTA
AAGAAAAGAGGTGGTTCTCTGCAGTGATCGTTTAGTGTGGCCCTCAAACATTAAATATCCCAGGCTCCTTGGT
GGGTGGCAGGATTTAAATTCAATCAAATCCTGTCTAGTGTGTGCAGTGTCTTCGGCCCTGTGGACACAGGTGAA
TGAGGGACCAGCCCTGCCCTGGGCTGTTGAGAAGAGATCAGTCCACCCAGAGTTAGACATTGTTTTTGTAGAAAA
CAGGCATTTATTATGCTAGGGTTTTGTGTTTTTTTTTTTTTCTTACAGGATAAAAAGCCTTTATACAGAAACAAA
ATGGAACCTTTCATATAAAACCTTTTCTTT

3882/5332
FIGURE 3387A

GGGGTTGACGATGGCTGTGTTGTTGAAGGGCCTGTAGCCGGGGGGTTCCTGGCCGGATCCCGGTCTACCCTTAGC
CCAGACTCGTTCCGGACCCAGCCCGGCCGGAACACTCTGGGCGAGACGGCGGTGGCAACTCTCCCCTTGCCGC
CATGCCACGACGCTTTCGAGCCAGTGCCGATCCTAGAAAAGCTGCCTCTGCAAATCGACTGTCTGGCTGCCTGGGA
GGAATGGCTTCTTGTGGGAACCAACAAGGACATCTTCTTCTATAGGATTCCGAAGGACGTTGTGCCAGCAGA
TGTAGCATCACCTGAAAGCGGCAGTTGCAACAGATTTGAAGTGACACTAGAGAAATCCAATAAGAACTTCTCCAA
AAAGATTGAGCAGATCCATGTGGTTTCCAGTTTAAGATTCTGGTCAGCTTGTTAGAAAATAACATTTATGTCCA
TGACCTATTGACATTTCAACAAATCACTACGGTTTCAAAGGCAAAGGGAGCATCACTGTTTACTTGTGACCTCCA
GCACACAGAGACCGGTGAGGAGGTGTACGGATGTGTGTGGCAGTAAAAAAGAAGCTGCAGCTCTATTCTGGAA
GGACAGGGAATTTTCATGAATTGCAGGGGGACTTTAGTGTGCCAGATGTGCCCAAGTCCATGGCGTGGTGTGAAAA
TTCTATCTGTGTGGGTTTCAAGAGAGACTACTACCTAATAAGGGTGGATGGAAAGGGGTCCATCAAAGAGCTCTT
TCCAACAGGAAAACAGCTGGAGCCCTTAGTTGCACCTCTGCGAGATGGAAAAGTGGCTGTGGGCCAGGATGATCT
CACCGTGGTACTCAATGAGGAAGGGATCTGCACAGAAATGTGCCCTGAAGTGGACGGACATACCAAGTGGCCAT
GGAGCACCAGCCTCCCTACATCATTGCAGTGTGTGCCTCGATATGTGAGATCCGAACATTGAACCGAGGCTTCT
GGTCCAAAGCATTGAATTGCAAAGGCCCGTTTTCATTACCTCAGGAGGATCAAACATTATCTATGTGGCCAGCAA
TCATTTTGTGTTGGAGACTCATCCCTGTCCCATGGCAACCCAAATCCAACAACCTTCCAGGACAAGCAGTTTGA
ATTGGCTCTGCAGCTCGCAGAAATGAAAGATGATTCTGACAGTGAAAAGCAGCAACAATTCATCACAAGAA
CTTGTATGCCCTTCAACCTCTTCTGCCAGAAGCGTTTTGATGAGTCCATGCAGGTCTTTGCTAAACTTGGCAGAGA
TCCCACCCATGTGATGGGCCTGTACCCTGACCTGTGCCACAGACTACAGAAAGCAGTTGCAGTATCCCAACCC
ATTGCTGTGCTCTCCGGGGCTGAATTGGAGAAGGCTCACTTAGCTCTGATTGACTACCTGACACAGAAACGAAG
TCAATTGGTAAAGAAGCTGAATGACTCTGATCACCAGTCAAGCACCTCACCGCTCATGGAAGGCACTCCCACCAT
CAAATCCAAGAAGAAGCTGCTACAAATCATCGACACCACCTGCTCAAGTGCTATCTCCATACAAATGTGGCCCT
GGTGGCCCCCTTGCTACGCCTGGAGAACAATCACTGCCACATCGAGGAGAGCGAGCACGTGCTAAAGAAGGCTCA
CAAGTACAGTGAGCTTATCATCCTGTATGAGAAGAAGGGGCTCCACGAGAAAGCTCTGCAGGTGCTCGTGACCA
GTCCAAGAAAGCCAACTCCCCTCTGAAAGGCCACGAGAGGACAGTGCAGTATCTGCAGCATCTGGGCACAGAAAA
CCTGCATTTGATTTTCTCCTACTCAGTGTGGGTGCTGAGAGACTTCCAGAAGATGGCCTGAAGATATTTACTGA
AGATCTCCCGGAAGTGGAGTCTCTGCCACGTGATCGAGTCTCGGCTTCTTAATAGAGAATTTTAAGGGTCTGGC
TATTCCTTATCTGGAACACATCATCCATGTTTGGGAGGAGACAGGCTCTCGGTTCCACAAGTGCCTGATCCAGCT
ATACTGTGAGAAGGTGCAAGGTCTGATGAAGGAGTATCTCCTGTCTTCCCTGCAGGCAAAACCCAGTCCCAGC
TGGAGAGGAAGAGGGTGTAGCTGGGAGAATACCGGCAAAAGCTCCTCATGTTCTTGGAGATTTCAGCTACTATGA
TCCAGGCCCGCTCATCTGTGATTTTCCCTTTGATGGCCTCTTAGAAGAACGAGCTCTCCTGTTGGGGCGCATGGG
GAAACATGAACAAGCTCTTTTCATTTATGTCCACATCTTGAAGGATACAAGGATGGCTGAGGAGTACTGCCACAA
ACACTATGACCGAAACAAAGATGGCAACAAGATGTGTATCTGTCCCTGCTTCGGATGTACCTGTGCCCCCCAG
CATTCACTGCCTGGGGCCAATCAAGCTGGAACACTACTGGAGCCAAAAGCCAACCTCCAGGCCGCTCTGCAGGTCT
CGAGCTACACCACAGCAAACCTGGACACCACCAAGGCCCTCAACCTTCTGCCAGCAAACACTCAGATCAATGACAT
ACGCATCTTCTTGAAAAGGTCTTGGAGAAAAATGCACAAAAGAAACGGTTCAATCAAGTGCTCAAGAACCTTCT
CCATGCAGAATTCCTGAGGGTCCAGGAAGAGCGGATTTTACACCAGCAGGTGAAGTGATCATCACAGAGGAGAA
GGTGTGCATGGTGTGTAAGAAGAAGATTGGGAACAGTGCATTTGCAAGATACCCCAATGGAGTGGTTCGTCCATTA
CTTCTGTTCCAAAGAGGTAAACCCAGCTGACACT**TGAG**CCAGCATCCTGGGGATCCAGCGGATGGACAGCTTGG
CTCTCCAGAGAGGTGAAGGAGCACCTGGCCTTAGGAATCCTGGCTGCCACCACCACAAGGCTCCCCATTGAGAC
ATTACTGGCTATCTTGTGCCCTGGAACAACCTCTGAATTAATTAGACTCATGGTCTGGCATTGCCAGCTTTTTAAT
GGGAAAAGAGATTAGTTATACCTTATACCATTATGTTGTGGGCAATTCAGAGAATTACAGTACCTGCTTGGTCAG
GAGGATGTGCACCATCTTGCCCTTGACACACAGTCACTGAACAAGGAACTTGTCAAGTGTGTTGTAACCATG
GGGTTGTTTCATCAAGGGCTTTTCTATTAAGTACATGACTTCACAAGGACCGCTCAGCATGGCTCACTGGAGAGTT
CCATGAGAAACAGCACTCAAGCTTCTGGCCGCATGGACCCGATGGCTCGCATCTGTGTAGTGTGTTTACGTCTC
CATGTAGACTGTGCCCCTGACCCCTCGGTAGCCGCCCTGTTAGTTTTCAGTCTCCTTTTCTTCTCACCATTAT
CACTTCCCTCACTGCCCTACCCAGGCTTCTCTCCACTTCCCTGACTCTGGGAATAACTAATATTTAAGCAAGG
TAAGATGAGAAGCAAGGGGCTTCAGTTCTAGGAATACAGTGCTAGTTGATTGTCAGGTATGTTGTAAATAGACCC
TCTTTGGCCATACACTCCATGCCTAGATGCCTCGGAGAGCATATTCTCTGCCTAGGCAAGGCCCTGCATCCCTT

3883/5332
FIGURE 3387B

GCCTCAGGCCGGGCTGAGTGTGACTGCAGCTCCTGAGGATGGGCCTGCCCTGTCTGGGGTATGCGTGATCCCTAG
ATACATGTTCCACAGAGGTGCCTGCTCCGTCTTCGCTCACCAGACACTCAGGCAGGCTGGCTTAGTCTTTGTGC
GTGGCGATTTTGTGCTCTGGGCCCTTTCTCTTTTCCAGCCAGTTTCCATTCACTTGCCTTACAGCCTGCCCTGG
CCGTCACTCCCCAGCTTTGTTCAAGCAATGGTGTGGTTGGAGAGTTGTGCTGGGATAGCGCAGGAAGGTGGGTCCC
GGCAACACGCAGGGGATGAGTGGACCTGGAAGTGAACATGGCGTGCTGCCAAGTGTTCCTGAGAGGTGTTTAGGC
ACAGCAGAGGGGACGCGGGGGGCAAGAACAGCAGGACGCTGGTTTAAAAATAACTCACCGCCAAACCTGTGGAGC
AGTGTGGGGCATCCTGCCAGAGGTGCACAGGCTGGAGTTTCAGGCCTGCAGGCTGATGACACACAGGGAGAGTG
GCCCTGCTCCTGTCTCCCCGGGGTTTTTGCAGACTCGAAGTCTCACTGCACCAGTGTCTTTGATGGTGGTGAG
GGTGGGTGATGGTGCCAGCACCAACAGTTTTAGTGGCCTGTCTTGACCTGCCGTGGTCTTTGTAAACTATGG
CTCCATGCTGTGTGACAGATCAACGTGCTGATGGTAAGTAGACTAGGCTTCCCCAGGCATGCCGTCCGTGGGGC
CTGAAGAGACAGTGAGTGCCATTGGCCCCATTGCGAGATGTGGGAGACTCTGCTCAGGCCTGTGAGGCTGGGCAG
CCCTTACCAGAGTTCGGAGGAGCAGTGTGTGGCGCCACGTCCCGACTGGCCATACCCACACAGAAGCAGTGCTG
CCCGGGGCTCATCTGGGCCAGCTTGACTCTGCTTCCCTCCAGGAGCAGCAGGGAAGCTCTGGGCCACCTCCCTG
GATAGCAGGAACCTTGACCTGCCATGTGTGCCCTGCCTTCCGGCCAGCTGTGCTTGTTATCTTCCATTCTACAA
ACTGTCTTTGAAGCAATAGAATAAAGAATGTGTGTTTTCTTCCCTGGTATACATACATGATCCCATGCTCCCAAG
CTCCATTCTTCCCTCCCTCAACTCTCTGCCCTCCACAGAGCTATGGAGAAGGCTGGAGATGAAAGCTTTGTAGTG
AGGACTGATAAAGATCTCATCACTGCTCCTTATAATAAACCTAATAAAGCAAGAAA

3884/5332
FIGURE 3388

GACTGTCTGAGAGAGGGGCGCTACGCCGCACAGCAAAACAAGCTCCGCGACGTTTCCAGGACCCGGATAATCCCG
CCCTTAGAGCAGAGCCGGAAGAAGGCGGGACGAACCGGAAGAGGGTGAAATGCTTTCGGTAGGCACTCCACGGCT
GTGAAGATGCGGGCGGCTGCGTGGCTTCAGGTGTTGCCTGTCATTCTTCTGCTTCTGGGAGCTCACCCGTCACCA
CTGTCGTTTTTTCAGTGCGGGACCGGCAACCGTAGCTGCTGCCGACCGGTCCAAATGGCACATTCCGATACCGTCG
GGGAAAAATTATTTTAGTTTTGGAAAGATCCTCTTCAGAAATACCACTATCTTCTGAAAGTTTGATGGAGAACCT
TGTGACCTGTCTTTGAATATAACCTGGTATCTGAAAAGCGCTGATTGTTACAATGAAATCTATAACTTCAAGGCA
GAAGAAGTAGAGTTGTATTTGGAAAACTTAAGGAAAAAGAGGCTTGTCTGGGAAATATCAAACATCATCAAAA
TTGTTCCAGAACTGCAGTGAACCTTTAAAAACACAGACCTTTTCTGGAGATTTTATGCATCGACTGCCTCTTTTA
GGAGAAAAACAGGAGGCTAAGGAGAATGGAACAAACCTTACCTTTATTGGAGACAAAACCGCAATGCATGAACCA
TTGCAAACTTGGCAAGATGCACCATACATTTTATTGTACATATTGGCATTTCATCCTCAAAGGAATCATCAAAA
GAAAATTCAGTGAATACTTTTTACCATGACTGTTGAAGTGAAGGGTCCCTATGAATACCTCACACTTGAAGAC
TATCCCTTGATGATTTTTTTCATGGTGATGTGATTGTATATGTCCTGTTTGGTGTTCTGTGGCTGGCATGGTCT
GCCGTCTAGTGGAGAGATCTCCTGAGAATTCAGTTTTGGATTGGTGCTGTCATCTTCCTGGGAATGCTTGAGAAA
GCTGTCTTCTATGCGGAATTTAGAAATATCCGATACAAAGGAGAATCTGTCCAGGGTGCTTTGATCCTTGCAGAG
CTGCTTTTCAGCAGTGAACGCTCACTGGCTCGAACCTGGTCATCATAGTCAGTCTGGGATATGGCATCGTCAAG
CCACGCCCTTGGAGTCACTCTTCATAAGGTTGTAGTAGCAGGAGCCCTCTATCTTTTGTCTCTGGCATGGAAGGG
GTCTTCAGAGTTACTGGGGCCAGACTGATCTTGGCTTCTTGGCCTTTATCCCTTGGCTTTTCTAGACACTGCC
TTGTGCTGGTGGATATTTATTAGCCTGACTCAAAACAATGAAGCTATTAAAACTTCGGAGGAACATTGTAAACTC
TCTTTGTATCGGCATTTACCAACACGCTTATTTTGGCAGTGGCAGCATCCATTGTGTTTATCATCTGGACAACC
ATGAAGTTTCAAGATAGTGACATGTCAGTCGGACTGGCGGGAGCTGTGGGTAGACGATGCCATCTGGCGCTTGCTG
TTCTCCATGATCCTCTTTGTCATCATGGTTCTCTGGCGACCATCTGCAACAACAGAGGTTTGCCTTTTACCA
TTGTCTGAGGAAGAGGAGGAGGATGAACAAAAGGAGCCTATGCTGAAAGAAAGCTTTGAAGGAATGAAAATGAGA
AGTACCAACAAGAACCCTAATGGAAATAGTAAAGTTAACAAGCACAGGAAGATGATTTGAAGTGGGTAGAAGAG
AATGTTCTCTTCTGTGACAGATGTAGCACTTCCAGCCCTTCTGGATTGAGATGAGGAACGAATGATCACACAC
TTTGAAAGGTCCAAAATGGAGTAAAGGAATGGGAAGATTTGCAGTTAAAGATGGCTACCATCAGGGAAGAGATCAG
CATCTGTGTGAGTCTTCTGTACGGCTCCATGGGATTAAAGGAAGCAATGACATCCTGATCTGTTCTTGTATCTTT
GGGCATTGGAGTTGGCGAGAGGTGTCAGAACAAAGAGAACATCTTACTGAAAACAAGTTCATAAGATGAGAAAAA
TCTACGAGCTTCTTATTTACAACACTGCTGCCCCCTTTCTCCAGACTCTGACATGGATGTTTATGCAACTTAA
GTGTGTTGTTTCTGAACTTTCTGTAATGTTTCATTTTTTAAATCTGACAACTAAAAAGTTTAAAGTCTTCTAAA
AGATTGTATCAACACCATAATATGTAATCTCCAGGAGCAACTGCCTGTAATTTTTATTTATTTAGGGAGTTACA
TAGGTGATGGGGGAAATTGTTAACTACCTTTTCAATTTTCTGGGAAGTCAAGGTTACATCTTGCAGAGGTTGTTTT
GAGAAAAAAGGGCCCTTCTGAGTTAAGGAGCCATAGTTCTATCAATGATCAAAAGAAAAAAGAGAAAC
TGTTACAGTATGATTGAGATCATTTAAAAAAGCAAAATCAAGTGCAATTTGTTTACAAATGGTGTATATTAAAG
ATTTTTCTATTTTCAAGTGTACTTTAAAGAGAAATATTAGCTTAACTCTTTTGACATCTGCTATTGTGACACATCC
CATTGCTGGCAATGTGGTGCACACTCCGAAACTTTTAACTACTGTTTGTAAAGCCTCCAAGGGTGGCATTGCAGG
GTCCTTAGGCAATGTTTTGTTTGCCTTTATGCAGAGAGGTGCTCCAAGTGCTGTGATTGAGCACCGTGCTAGAGG
AACTGTAATGCTTCAGAAGTTGTAGCTTATACAAAGGAAACAGGTCTGCTGGCTTAATTTAAACAGTTATTGCA
TGAAGTAGCGTGGAGGCCCTGGACTGCTGCTCGTTCTTTAGGATGGACTGTTCTGGTATCTGGTATTGGTTTGA
GACTGTTAATAAGGGACATCACAAGGTGATGGGATTCATTTGAAGCACTCTATTTCTGTTTTAATGGTTTTATCC
AATTTTGCCTTCCCAAGATTTTGTCTACATAAAAAGTTCATGCCACTTTTAAATAT

3885/5332
FIGURE 3389A

AGACGTTAGTGAAGTGAATACTCACCGACGGTATCGGAATGTGCCATTTGGACCGGTCGGCAGCAGCTACGGTTG
CCGGTCCCCGACTGAAAAACGACAGTGGTGACGGGTGAGCTCCAGAAAGCAGAAGAATGACAGGCAACACCTGAA
GCCACGCAGCCGCCGCCATCTTCACAGCCGTGGAGTGCTACCGAAAGCATTTCACCTCTTCCGGTTCGTCCCCG
CCTTCTTCCGGCTCTGCTCTAAGGGCGGGATTATCCGGGTCTTGGAAACGTCGCGGAGCTTGTTTGCTGTGCGGC
GTAGCGGCCCCCTCTCTCAGACAGTCGTCTGTGCGCCGTGAGACTTTGGACCTACTGCGCAGGCGTCATCCTGTG
GAACCTGGTCAGCTGGGTTAGAGAGATCGCTACATGCCAGCCTGGCCTGAGTCTTTCTGTCTCCCAGCCGTTAA
AGGTTTTAGGACCAGGCAGGCACCCCGTGCAGGATTTGGCTCTCTACTTCCGCTCGCCCCAGCCCTTCATCCCTT
CTAAGTCAATGTCTAGACTTTGGGGCCAGAAAGTCTGGAAGGCCCTAAGCCTGGCTGCCAAGTGGCGTCTAGTA
GTGAGTTCTCCGGTTTGGGTGGTATTTAAGCAAAGGCTGGAATTCGGCGGTGGTGGAGTACACGCGATTCTAGTA
CTGGGTAGTGTAACAACCTTCAAAGGCCCTTCTAGCCCTGAAGAGTACGATGCTGCAGTACAATCTGGCTGGAG
ACCTAGCCTCCAGCAAAGACCCGGCCGGCACTTCCACCCCTTAACCGAAAACGGAGACAGAGAGGAGCATCTATGC
GTACACGCCCTCACCGCCGCCAGTTTCGGTTCCTAACAAAAGCACGTTCTCATCAGCCACCCATAATCAAGAC
AAATTTGCCAAATAAATCATTGTAGAAACGCTAGTTTGGGCTGAAAAATTCCAGGAGCAAGAGTCAAGATTTGT
CACTCCATGGAATCTGGAGGGGACTCCCTTCCAGAAACTTGACGATGAAGTACTGGTTGTAATTTTAGAAAGA
CACCCAATCGGCTTTTTTAAAGATCGCCAGGGCCCTTGTCTGAGAGCTGGGAGCTGGTTCGGAGTGACAGAGA
AGCCATGGAAGCAGCAGTGAAAGAGGAAATAAGTCTTGAAGATGAAGCTGTAGATAAAAAACATTTTCAGAGACTG
TAACAAGATCGCATTTTACAGGCGTCAGAAACAGTGGCTTTTCCAAGAAGTCCACCTATCAGGCATTATTGGATT
AGTCAACAGATGAAGACAGCACCAGGTTCCAAATCATCAATGAAGCAAGTAAGGTTCTCTCTGGCTGAAAT
TTATGGTATAGAAGGAAACATTTTCAGGCTTAAAAATTAATGAAGAGACTCCTCTAAAACCCAGATTGAAAGTTCC
GGATGTCTCACAAGCAAGCCAAGCACTGTAAGGCTGATTTCTATGCTCTGGGGACACAGGCAGTCTGATATTGGC
AGATGGAAAAGGAGACCTGAAGTGCCATATCACAGCAAACCCATTCAAGGTAGACTTGGTGTCTGAAGAAGAGGT
TGTGATTAGCATAAATTCCCTGGGCCAATTATACTTTGAGCATCTACAGATTCTTCACAAACAAAGAGCTGCTAA
AGAAAATGAGGAGGAGACATCAGTGGACACCTCTCAGGAAAATCAAGAAGATCTGGGCCTGTGGGAAGAGAAAT
TGGAAAATTTGTGGATATCAAAGCTAATGGCCCTTCTTCTATTGGTTTGGATTTCTCCTTGCATGGATTTGAGCA
TCTTTATGGGATCCCAACATGCAGAATCACACCACTTAAAAATACTGGTGATGGAGATGCTTACCGTCTTTA
TAACCTGGATGTCTATGGATACCAATATATGATAAAATGGGCATTTATGGTTCAGTACCTTATCTCTGGCCCA
CAAACCTGGGCAGAACTATAGGTATTTTCTGGCTGAATGCCTCGGAAACACTGGTGGAGATCAATACAGAGCCTGC
AGTAGAGTACACACTGACCCAGATGGGCCAGTTGCTGCTAAACAAAAGGTCAGATCTCGCACTCATGTGCACTG
GATGTGAGAGAGTGGCATCATTGATGTTTTCTGTGACAGGACCTACACCTTCTGATGTCTCAAACAGTACTC
ACACCTTACAGGCACACAAGCCATGCCCCCTCTTTTCTTCTGGGATACCACAGTGCCGCTGGAACCTATGAAGA
TGAGCAGGATGTAAGAGCAGTGGATGCAGGGTTTGTGAGCATGACATTCTTATGATGCCATGTGGCTGGACAT
AGAGCACACTGAGGCAAGAGGTACTTCACCTGGGACAAAACAGATTCCCAAACCCCAAGAGGATGCAAGAGCT
GCTCAGGAGCAAAAAGCGTAAGCTTGTGGTTCATCAGTGATCCCCACATCAAGATTGATCCTGACTACTCAGTATA
TGTGAAGGCCAAGATCAGGGCTTCTTTGTGAAGAATCAGGAAGGGGAAGACTTTGAAGGGGTGTGTTGGCCAGG
TCTCTCTCTTACCTGGATTTACCAATCCCAAGGTCAGAGAGTGGTATTCAAGTCTTTTGGCTTTCCCTGTTTA
TCAGGGATCTACGGACATCCTCTTCTTTTGAATGACATGAATGAGCCTTCTGTCTTTAGAGGGCCAGAGCAAAC
CATGCAGAAGAATGCCATTATCATGGAATTGGGAGCACAGAGAGCTCCACAACATCTACGGTTTTATCATCA
AATGGCTACTGCAGAAGGACTGATAAACGATCTAAAGGGAAGGAGAGACCCTTTGTTCTTACACGTTCTTTCTT
TGCTGGATCACAAAAGTATGGTGCCGTGTGGACAGGCGACAACACAGCAGAATGGAGCAACTTGAAAATTTCTAT
CCCAATGTTACTCACTCTCAGCATTACTGGGATCTCTTTTTCGGGAGCTGACATAGGCGGGTTCATTGGGAATCC
AGAGACAGAGCTGCTAGTGCGTTGGTACCAGGCTGGAGCCTACCAGCCCTTCTTCCGTGGCCATGCCACCATGAA
CACCAAGCGACGAGAGCCCTGGCTCTTTGGGGAGGAACACACCCGACTCATCCGAGAAGCCATCAGAGAGCGCTA
TGGCCTCTGCCATATTGGTATTCTCTGTTCTACCATGCACACGTGGCTTCCCAACCTGTATGAGGCCTCTGTG
GGTAGAGTTCCCTGATGAATAAGACTTTTGATATGGAAGATGAATACATGCTGGGGAGTGCATTATTGGTTCA
TCCAGTCACAGAACCAAAAGCCACCACAGTTGATGTGTTTCTTCCAGGATCAAATGAGGTCTGGTATGACTATAA
GACATTTGCTCATTGGGAAGGAGGGTGTACTGTAAAGATCCAGTAGCCTTGGACACTATTCCAGTGTTCAGCG
AGGTGGAAGTGTGATACCAATAAAGACAACCTGTAGGAAAATCCACAGGCTGGATGACTGAATCCTCTATGGACT
CCGGTTGCTCTAAGCACTAAGGGTCTTCAGTGGGTGAGTTATATCTTGATGATGGCCATTTCATCCAATACCT

3886/5332
FIGURE 3389B

CCACCAGAAGCAATTTTTGCACAGGAAGTTTTTCATTCTGTTCCAGTGTCTGATCAATAGTTTTGCTGACCAGAG
GGGTCAATTATCCCAGCAAGTGTGTGGTGGAGAAGATCTTGGTCTTAGGCTTCAGGAAGGAGCCATCTTCTGTGAC
TACCCACTCATCTGATGGTAAAGATCAGCCTGTGGCTTTTACGTATTGTGCCAAAACATCCATCCTGAGCCTGGA
GAAGCTCTCACTCAACATTGCCACTGACTGGGAGGTCCGCATCATATGACAAAGAACTGCCCCTGGTGTGTGAG
CAGGGACCTGCCTGCCCCCTTCAACCTTTCCCCTCACCTTTTTTGAGATTTTGTGCAATCTGTTTGCCTTCCC
TGAATCAAATAATCTTTCATTGTCACCATTATACTAATGAACAATAGATTTCATGTTTCAAATTTTCAGATTT
TACATGTTAAGATGTACTAACAATATTCCTTGTATCAAACATCTCCTTTTCTCCCTGATACATAGCCCTGAGACA
TTTATAGCGTTCAGGAGTCTTCTATTGCTTCCATTCCCTCAGCAGGGCTGCGTGGGTCTGTTTTAACGTGGGCCA
AGCCTACCTGGGCAGCCCATTTGCCAGGGCTTGCCTCAGGCCATGCAGCATTGGCGCTCTGGCTGCAGCAGCTGA
GTTGCTCAAGGCCAGTGTCCAAGTGGACAGCAGCCTCTGGTACTCCCCCAGTTATCTTCCACCCACATGGACTG
GGCAGAGCAGCCCTCTTCTGTGTGCACTGCATACGCTGCAGCCGTGGGAGTTATTCTCCCCTAGAGATCGACTTG
GCAGCACGAAGGATTCTTTTCTCTTTTCATGCTTCTCAGGCTCAATAGTTTCTAATTAATCTTAAAAATCCATGTCT
TTTACATTGTTTTTTTAAATTAAGTGCTGTTTACTAACCATAATATTTATAACATGAGTAAGCTATAATTAATA
ACAATGAAATAAATAACCCATGTACCCACCACTGGACTTCAGAAGTAGAACTCATGACTGGGACTAGGATGAGGCA
AGGGAGACCCTGGCCTTGGGCACAAAATGTAAGGGATGCCAAAAAATACAGTAATCAAAGTAAGTAATATTTCA
ATCCAATATTTTTAAAAATCAGAATTAATGCAAAAAAACCATGATGAACAAAATATTAAATTTAAAAATAAAGA
CAGGATTAGTATTACTGAGTTTTCTTTTGTCCCAGGCTCTAATATGGCTTGGCATGGGGCAGAACATTACAACA
TACCAGTCGTGTCAATGGTGCCCAAGGCTCCACAGACCTCAGTGGCTCCCTGCTGCCTGCCACAGCATCTGTTTTA
GCAGCCTCGACTCCTCAGCACTCCTCAGCACACACCTCTTCTTATCAGGCTTCCTCCACTTAGCAACTTGCTAAC
GGCCACCTCTGTGCCTTCTGATCCCTGGGCGCCAATATCCTCCTGCCCTTACCATCCTTCCAGGCCCAACTTAAA
TCCCACTTTCCCATGAAGCCTAACTGCGTGAACACCCCTACCCCATACCCATTAGCAGTGATTTTGGCCTTCCC
CGTAATGCTGTCCCCTTATAACTGTGCTCTACTTAGCATTCTCAGGGATCATACCTTAATGTTTTAGTATGTC
TGCCTTCTCCTACTAGATTGTATGTCCCTCAAGAGCATGTTCTGTTTCTTCTGTCTGACAGAGCACTATTATA
CTGACTTTCAGTAACTGTTAGCTGTGATTAGTTAGCTGGTGGATTTAATTGATTAAAAAATTACGATTGAATGT

3887/5332
FIGURE 3390A

GAGTGCAGCTGGCACCATGGGTGTGCTCCAGAGCAACTTCTGCTTGCTCTGAGCCCCCTGCCCTGCCTCCCCTTT
CACCATGTTTCCTCTGACAAGATTTTAAGTACAGCAATTCAAGAAGATTTCCTCCTAAACGACATTTATCTGA
AGTCTATTGCCTCTTGATTGCTGGAAAAGAATCTTAAAATCATTTCAAAAGTAACTTATAAACAACTTATTAAA
AGTGATGAAAGGAGCATTGAAATTAATTAGCACTAATTTTTCTACTGTGCCAAAGTGTGCAGTGTCTTCAGAGGA
AACAAATAACAGATCTGGTGAGTGTGCCATGCCAGTGGGGAGAATTGAATGTCCCTCATCTCCCTCTTTCCCTAGG
GACATTAGTCATGAGTGCCGAGTGTGCGGGGTACAGAAGTGGGTCTTTCTGCATATGCAAAGCACATTTCTGGC
CAGTTGCACAAAGATAACGTTGATGCCAGGAAAGAGAAGATGATGGAAAAGGAGAGGAAGAGGAAGAAGATTAT
TTTGACAAGGAACTCATTGAGTTAATAAAACAAAGGAAAGAACAAAGTCGACAAGATGAACCTTCCAATAGCAAC
CAAGAAATAAACTCTGATGACAGACGACCCCAATGGAGACGAGAAGACCGAATTTCCTTACCAAGACAGAGAGAGT
TACAGTCAGCCTGCATGGCATCATCGTGGACCTCCACAGCGGGATTGGAATGGGAAAAAGATGGCTTTAATAAT
ACTAGGAAAAACAGCTTTCCACATTCTTTGAGGAATGGTGGTGGACCAAGAGGACGTTCCGGGTGGCATAAGGGT
GTTGCAGGAGGCTCCTCGACTTGGTTTCAACCATAGTAATTCTGGAGGTGGTTGGCTTTCAAATAGTGGAGCA
GTAGATTGGAATCATAATGGTACAGGAAGGAATTCAGTTGGCTTTCTGAAGGAACAGGTGGCTTTTCCAGTTGG
CATATGAACAACAGTAACGGAACTGGAAATCCAGTGTACGTAGTACAAATAATTGGAATTACAGTGGCCCTGGA
GACAAATTTCAACCAGGCAGAAACAGAAATTCTAACTGTCAAATGGAAGACATGACTATGCTATGGAACAAGAAA
TCTAATAAGTCAACAAATACAGTCACGACAGATATAATTGGCAGCGCAAGAAAATGACAACTTGGTACAGTT
GCCACATATAGAGGTCTTCTGAAGGATTTACAAGTGATAAATTTCTTCAGAAGGCTTACTCGACTTCAATTTT
GAGCAGCTGGAAAGCCAAACCACTAAACAAGCAGACACTGCTACTTCCAAAGTTAGTGGAAAGAATGGCAGTGGC
GCAAGGGAAAAGCCTCGTCGCTGGACGCCTTACCCTTCTCAGAAGACTCTGGATTTACAGTCGGGATTGAAAGAC
ATCACTGGTAACAAGTCAGAAATGATAGAGAAACCTCTCTTTGATTTTAGCTTGATAACTACAGGAATACAGGAG
CCCCAACTGATGAAACACGTAATTCCCCAACACAGAAAACACAAAAAGAAATACATACTGGATCTCTTAATCAC
AAGGCCTCTTCTGATTCCGCTGCTTCTTCGAGGTGGTGAGACAGTGGCCCACTGCAGAAAAACCTGAACAAGAG
CATACACCAAATAAAATGCCATCATTGAAATCCCCACTCCTTCCATGTCCAGCCACTAAATCATTGTCTCAAAG
CAAGATCCAAAGAATATCTCAAAAAACACCAAAACAAATTTTTTTTCCCTGGAGAACTCAAATCCCTCGAAC
AAGCCCACTGTGGAAGATAACCATGGTCTTACATATCCAACTGCGTAGTTTCATGTCTCATGTTTTTAAAGGG
AATAAAAGTACATTGGCTCTCAAAAGCAATCTGGTGATAATTTAAATGATACTTTACGAAAGGCCAAAGAGGTG
CTACAGTGTCTGAGTCATTGCAAAATCCACTTCTTAGCACTCTTAAAGTACCAGGAACATGCAAAAGCAGT
AGAAATGTAGAGAATCTGAAAAGGGTCTTTGAAAATTGAGTTTCAAGTGCACGCACTAGAAGATGAAAGTGAT
GGAGAGACATCTGACACGGAAAGCATGGAACAAAAATTGGAACCCCTAGGTTCTGCAACTACAGAATTGTTATCT
GGCAGCACTCGAACTGCTGATGAGAAAGAGGAGGATGACCGCATCCTGAAGACTTCTAGAGAGCTATCCACTTCC
CCATGTAATCCCATAGTTTCGCCAGAAAGAATCTGAATTACAAATGACATCTGCAGCCAGTCCACACCCTGGCTTA
TTGCTAGACTTGAAAACCTCTCTAGAAGATGCACAGGTTGATGACTCTATTAAATCTCATGTATCTTATGAAACA
GAAGGCTTTGAGAGTGCTAGCTTGGATGCAGAGCTTCAAAAAAGTGACATCAGTCAGCCCTCGGGCCCTCTCCTG
CCTGAACTAAGTAAGCTTGGCTTTCTGCCTCACTTCAGAGGGATCTAACC CGGCACATTAGTTTGAAGAGCAA
ACTGGAGTACACCTTCCTGAGCCAAACCTCAATAGTGCCCGCCGCATTCGCAATATTAGCGGTACCGAAAGAGT
GAGACAGAGAAGGAGTCTGGGCTCAAGCCAACCTACGGCAGATTCTAAATGCATCTCGGAGAAATGTCAACTGG
GAACAGGTCAATCAGCAAGTAACCAAGAAAAAGCAAGAGCTGGGCAAAGGCTTACCCAGGTTTGGCATAGAAATG
GTACCCCTTGTTCAAATGAACAAGAAGCCTTAGATTTGGATGGGGAACCTGATCTGTCCAGTCTAGAAGGATTC
CAGTGGGAAGGTGTTTCCATTTCTCGTCCCCTGGCTTGGCAAGAAAGCGAAGCCTTTCTGAGAGCAGCGTGATC
ATGGACAGAGCTCCTTCTGTGTATAGCTTCTTCAGTGAGGAAGGTACAGGCAAAAGAAAATGAGCCCCAGCAGATG
GTTTACCTAGTAACCTATTGAGGGCTGGACAGAGCCAGAAAGCAACCATGCACCTCAAACAAGAAGTGACACCT
CGGGCTGCCTCCCTCCGAACAGGTGAAAGGGCTGAAAATGTTGCTACCCAAAGGCGACATAGTGCACAATTATCC
TCTGACCATATAATACCTTTGATGCATTTGGCAAAAGACTTGAACAGCCAGGAGAGGTCTATACCACCGTCAGAG
AATCAGAATTCCCAGGAGAGTAATGGAGAGGGAACTGTCTGTCTCATCAAGCGCATCCTCAGCCCTTGCGATCTCC
AGTTTAGCGGATGCAGCCACAGATAGTAGCTGTACCTCTGGTGCTGAACAAAATGATGGCCAAAGTATTAGAAAG
AAACGAAGAGCCACTGGAGATGGATCTTCTCCTGAACTCCCAAGTCTTGAGAGAAAAATAAAAGAAGGAAAATT
AAAGGAAAAAAGAAGCTTCTCAGGTTGACCAGCTGCTGAATATTTCTTTAAGGGAGGAAGAAGCTTAGTAAGTCA
TTGCAGTGCATGGATAACAATCTTCTGCAAGCCCGTGCAGCCCTTACAGACAGCTTATGTGGAAGTTTCAAGGCTA

3888/5332
FIGURE 3390B

CTTATGCTCAAGCAGCAGATAACTATGGAGATGAGTGCAGTGAAGACCCATAGAATACAGATTCTACAGGGATTA
CAAGAAACATATGAACCTTCTGAGCACCAGACCAGGTTCCCTGTAGCCTCACACGAGAACGAAGGAACAGTAGA
TCTCAAACATCCATTGATGCCGCACTGCTGCCACTCCCTTTTTCCCACTTTTTCTGGAGCCTCCATCTTCCCAT
GTGTCTCCATCACCACCGGAGCCTCTCTTCAAATAACCACGTCTCCTACTTTTCAAACCCATGGCAGTGTCCCT
GCTCCAGACTCATCAGTTTCAATTAACAAGAGCCCATGTCTCCTGAACAAGATGAGAATGTGAATGCTGTGCCA
CCAAGCTCTGCCTGCAATGTGTCCAAGGAATTACTGGAAGCTAATAGAGAGATCAGTGACAGTTGTCCAGTTTAT
CCAGTCATCACTGCTAGATTGTCTTACCAGAGTCAACAGAAAGTTTCCATGAGCCTAGCCAAGAAGTGAAGTTT
TCTGTGGAGCAAAGAAATACCAGAAACAGAGAAACTCTCCCTCTTCCCAATCAGCTGGTCTTTCTAGCATAAAT
AAAGAAGGGGAAGAGCCAAACAAAGGCAATAGTGGGTCTGAAGCCTGTACCAGTTCTTTTCTAAGATTGTCTTTT
GCTTCAGAAACCCCTTTGGAGAAGGAACCCCACTCTCCAGCTGACCAGCCTGAACAACAGGCAGAAATCCACTTTG
ACATCAGCTGAGACTAGGGGAAGCAAGAAAAAGAAAGTCCGGAAGAAGAAAGTCTACGGGCTGCCCATGTT
CCTGAGAATAGTGACACTGAACAGGATGTTTTGACTGTTAAACCTGTAAGGAAAGTAAAAGCTGGAAAGTTAATT
AAAGGGGGGAAAGTAACAACCTCCACTTGGGAAGACAGCAGGACTGGTCGGGAGCAGGAGAGTGTGAGAGATGAG
CCAGATAGTGACTCGTCTCTGGAAGTCTAGAAATTCCTAATCTCAGTTAGAAGTAGTAGCCATTGATTCTTCA
GAATCAGGAGAAGAGAAACCAGACAGCCCATCTAAAAAGGATATTTGGAAGTCTACAGAGCAAACCCACTAGAA
ACGTCTCGTTCTGGGTGTGATGAAGTTAGCTCTACCAGTGAATTTGGCACTCGCTATAAAGATGGCATCCCTGTA
AGTGTGGCAGAAACTCAGACTGTGATCTCCTCCATAAAAGGATCAAAGAATTCTTCAGAAATATCTTCAGAGCCA
GGAGATGATGATGAACCCACAGAAGGAAGCTTTGAGGGACACCAAGCTGCCGTAAATGCAATTCAGATATTTGGG
AAGTTGCTATATACCTGTTTCAAGCAGATAAACTGTTTCGGGTTTATAATCTGGTGAGTCGGAAATGTATTGGTGTC
TTTGAGGGTCATACCTCCAAAGTTAACTGCCTCCTGTTTACTCAGACCTCCGGGAAGAATGCTGCCCTTTACACC
GGGTCCAGTGACCATACCATCCGCTGCTATAATGTTAAGAGCCGAGAGTGTGTGGAGCAGTTACAGCTGGAAGAC
CGGGTCTCTGCCTCCACAGTAGATGGCGAATCCTCTATGCGGGACTGGCAAATGGCACTGTGGTCACTTTCAAC
ATAAAGAAACAACAAACGACTTGAGATCTTTGAATGCCATGGCCCTCGGGCAGTCAGCTGTCTTGCTACAGCTCAG
GAAGGTGCCCGAAAAGTGTGTGGTGTGGGTCTTATGACTGCACAATTAGTGTACGCGATGCCCGGAATGGACTG
CTCCTCAGAACTCTGGAGGGCCATAGCAAAACATTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTCAGTGGC
TCCAGTGATCAGTCAGTCCATGCTCACAACATTACACTGGTGAGCTCGTGCGGATCTATAAAGGTCACAATCAT
GCAGTGACTGTGGTGAATATCCTAGGAAAAGTGATGGTGACTGCTTGCCTGGATAAATTTGTTCTGTCTATGAA
TTACAGTCTCATGATCGATTACAAGTTTATGGAGGACACAAAGACATGATTATGTGTATGACCATCCATAAAAGC
ATGATTTACACTGGCTGTTATGATGGCAGTATTACAGCCGTGAGGCTTAATCTGATGCAGAATTACCGCTGTTGG
TGGCATGGTTGCTCTCTGATATTTGGCGTTGTAGATCATTTAAACAACACTTGCTGACCGACCACACTAATCCC
AACTTCCAGACTCTGAAATGTCTGCTGGAAGAACTGCGATGCTTTTTTCACTGCTAGGAAAGGATCCAAACAGGAT
GCTGCAGGACATATTGAACGACATGCTGAAGATGACAGCAAAATTGATTCAAGAGTTTTTGCCTCCACGTTG
GGAAGTCATTAGTTGAACATTTTTACATTGGCCCCCACCAGGCCACTCTCTTCCCTTTCTTGGTGAAGTAAG
GAAGGAGAAAGTGGTTACTAGCCAGGCATACCCCTAGCATAAGTCTGGGCAGCTCTATGGGATGATAAATTACAC
TTTTAAGTTCTTGCTGGAGGTTTTAAATAGATTTAGACAAATGTTAAGGAACCATACTTCTCTGGGACAGCATGG
CATATAGTGATATATGCTATTTTGCCTTCTCCAGATGTTTATTGAAGATACAGATCCTAATTGGTTACCCAGTTT
ACCTTAATCATATGATATATTTTATTGATTTTCAAGTTTGCAATTTTTAATTTATGTTCTTATGATGGTTTAAACCTA
TAGTCAGGCTTTTAAAGTACAAGTTTGTGTTAAGTGCCAGACTTTGAGGATCAGTTTTAATTTCTTATGATGGTTTAAACCTA
GCTGGGTATTTAAACTGGAAGCAAATAGTTTTCTTTTAAACAATTATGTGAGTGTGTGCTACTGTTTTCTTGC
TTTATAGATAGAGCTGGCTTTAAGTGCTAAAGGACACAGTAGATTTTTGACAAACAGTGGCTGCTCTGCTGACTA
TCTTTTAGGAATTCAGGAAGCAAATCACATAGTGACAGTCCCTTACAGACACCACTTCTAGTAAATCTCTGTAAA
TGTGGATAGAAAGCTCAGTGTGAGGCAGTGCGTAGACCTAACGTCTACCTTTACATCTGCTGTTGAACCTGGGCA
CTACCTGTTACAGATCCTGTGAGGCTGTTGAAGTGGAGGTGTACCTTTATCTTCTTTCTAGTGTCTGACCTGTC
AAGCCTAATGTTGGTTTGAACCTTTTGGTTTGTTCAGTTGCCAGCCTCCATCTCTCCACTGTATGGCCGTGCC
TAGACCGATGGCAGCCATCGAATATTCCTCTGGGCTCACGGGGTGTTCCTACCCCCCTGCAGCAACTAAGATGG
TGGGGGAGAGGGGGTTAGAATAAAGCATCTGAATACAGTTTTTCAGGACCTCAAGCAGACTTCCTAGAGACTTGT
TCTGAGACAGTTCTTTGCCTTCACTTCCCTGCTAGCTGGGAAAGAGTGGAGCAGAGACTCTGCCTGGCCACT
GAGAACAGCCAAATTCACAAACCTCAGTGGGGCTTTGTTTTGGATTTTCTCCGACTCATCAGTAAACCTGTA

3889/5332
FIGURE 3390C

GAAGTGTGCGCTTTCCAGCCTTTTGTCTTCTGGATCCTCAAACTCAGAACGTGGCCGGGCGTGGTGGCTCACGCCT
GTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCAGATCACCTGAGGCTAGGAGTTGCAGACCAGCCTGGCCAACA
TGGCAAAACCCCGTCTCTACTAAAAATACAAAAGCCGGGCGTGGTGGGCGCCTGTAATCCCAGCTGCTCAGGAG
GCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGATTGCAGTAAGCTGAGATCGTGCCACTGCCTCCAGC
CTGGTGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAACTCAGCTTCTTCAGAGAGATAAAATTGGGGGA
GGAGCCCAGGGCCACATACCAAGCTTTGGGACATGGTGCCTCATGCTCTCTGGGATTGCAGACCATCCAGGTCTG
TCTTCGCCCCCTGTTAGTGACATATATCCACTCACATGTCTTCCCTCAGGCTATCGGGCAGGGGGACTTCACCAG
GGGGTTTATGGATAGGCTTCAAGAGGGTCTGTGAGCCCCAGAAATTGTGTGTGAGACTGAGTATGTGTTCTTTT
TTCCAGGAAAGGCTCCAGTGGTTCTTACTTGATCAAAAAATGTCAAGAATTAATCTAGGAGGCCGGGCGCTGGTG
GCTCACACCTGTAATCCCAGCTCTTTGGGAGGCCGAGGCGGGTGGATCACTCAAGGTCAGGCATTTGAGACCAGC
CTGGCCAACATAGTGAAACCCCGTCTCTATTAATAAATACAAAAATTAGCTGGGTGTGGTGGTATGTGCCTGTAGT
CTCAGCTACTCAGGAGGCTGAGACAGGAGAATCACTTGAACCTGGAGGTAGAAGTTGCAGTGAGCCAAGATCAT
ACTACTGCACTCCAGCCTGGGCGACAAGAGTGAACTCCACCTCAAAAAAAAAAAAAAAAAAGAGTTAATCTAGGAG
ATAATGAATGGCCTAGTACTAGATAATATATGGCCCCACAAGCTCTTGACTTCTGTCTTGGGGAAGGCCATTTT
GTTAACCACACTAGTGAGATTTACATGATGCTTAATGGAGAACAGAGAAGATCTTGTTGCAAAAGGTGTATTAAA
TATTTGTGCTGTTTCTGTATGAGATTGAGAAGCTTTTCCACCTCTCACCCTATTTCTATAAGGATATCCAGA
GAAGCCAACTGTTCTGTGGGTTTGGGAATGGTCATTTCCGGGAAATGCATCTGGATCGATGACTAAACCTGG
CCTTTTCTCTGGGCTGTAGTGAAGCCGCATTTTACGCTGGCTGGCAGTGTGCTGAGAGCCTCGAATGCTCTGC
GGCGTAGTGCCCTTCTGCCCTGCCTGACGATGTATCGAAAAGATGAGAGTGAAGGAGACTTTGTGCAGCAGGAAA
CGGTTAGGTGAGGTGTTGGGCAGTTGTGGGAACTTCTGAGAGTATTACAGAGTGGTAGAATCGGTAAGAACTCTG
ATTTGGACTTCGCTTTGGTGGAACTGTGTGCCTATACCTGCCTGTGTGTGTGCAAGTGTGCAGGTTCCTTTGTAT
GTATGTGTACGTGTGGGAACCTGTGTTTGTGCATATTTTCTTCATTTTCAAAAGGCTTTTTTTGAAGCAGTGGCA
GTATGCCCTTTGTTTCAAGAACACATGAAATTCCTTTTAACACCAGATTAGTGTGTTACCCCAATGAACGGTTCTA
GCCCTCTATTAAGAAATAAAGGGACCATAAGCATTTTGGCTGCTTATGGCTGTGTGTTACTACTTACAAGAGTCT
TGAAAATTATACAGAACTTTGCCTTCTTTTTTTAATGTCTTCCACAATGTTGTGACTGATTATAACCTGTTTTCC
CCTCAGAGAAGAGCTATGGCTCAGGGATCTGTGTTGACTCTGGCATTAGTGGCTTTGTGAAGGAAAGAAACCAT
TAAATGACCTGACAAAACTGACTCATGTCTTTAAAGTAGTTGAAGCCACTTTTAGAATGTTACTCTCGGTTGCT
TTTGCTCTAATTCTAATGGCTTAAAGCCAAGAAAACCATAGTATAAATCTTTTTGTGTACCTATGCTAGTGTAA
ATGGCAGTTCGTTGTGATAAAGTATCAGTCACTTCAAGTTTTCTGTGAAAGTTTTTAATTAGGTTAAAAATAATT
TTGGCATAACGTCTCTACTCAGTTTATAAAGCAGTTCCACACCATGCAACAAAACCTCTAACAGCAAAGGTTATCT
TGACCTGATGTTACTTGAATCTGAGAGAAAGTCATTACTTACTACTGCCTCTGCTTTTGTGGGAAAAATTTTC
TTCTTCCCCAGAAGAGTTAACAGTTGAGTGTTCAGCTCCTGACTTACCTTTAATTTAGAGGCAATATTACTG
TTAAGTGATTATTTGCTTAAACAGGTTTTATTTTGTCTTTTGTGCTGATATTATACAAGGGACAACCTTAGT
GATGAGGCATGTGGATGATTTGGTGGGAGTAGGTATATACTTAGTGGAATGGTTTATTTTATGGAAGAGAATTCA
TTGGAGGTGAGATTGAAGTATATTGTGAAGTGGGATTGAACAGCACATATGCTCTGGTTTGTCAAATAACTGC
AGTTTATGCTTACATCTAAATTTTGTCTGTACCTAAACGGGAGCTTCTAGAATTACGAAGGCCATACCTGCC
ACATTTATAAAATAATGGTTTTATCCCTGCCCCAAATCATCAGGTTCCCTCGGGTTAAGAGAAGTGGTCTAATA
GACAGGAATAGAAGTTGTGGTGGAGGTGATTTGGGATAGACTAGGTTTCTTATGCAAGTGGATATGAGCTCCTC
ATAGAAACCAGACCTACTGTATTAGACAGTAACCTCAACCTCACCTCCAAGCCCAAGTATATGGCCCTGCTGGG
TTACCTGGTGACTACATTTCCAGATTCACTCTAAATCAAGGTAGTGACCCAAATAAATTGGGAAAGGAGGGG
TCAAGGAGGAAAAGCTGTTGAAAATCTTTCTCTATTTAAGAGAAATATATGCCCTAGAGCTGCTCCAGCACCTT
TGGTTTCTGATTTTTTTAATATTGAATATGGATTAGAAGAATGAAATCAGATGACACCTGACTGCAAAAATGTTT
ATAAGCAAATAGCCTTCTTACATTTTGGTATAAAGCTGTGAACCTTCGTAACCTTTGTAAAGCAAGATATAAAGCAA
ATACAAGAGGAAAATAAAGTACTTTTACTAATTG

3890/5332
FIGURE 3391

CGCGACTAGGGTGCAGCGCCAGGTCCGGTGTGGGGTGTCCGAGTTGCCGCCGAGAGGAGTGGCCTCGCCCGCT
TGAGTTTTGATTCATCATGGATAATCTGTTCATCAGAAGAAATCAACAGAGAGCTCACCAGATTACTGATGAGTC
TCTGGAAGTACGAGGAGAATCCTGGGTTTAGCCATTGAGTCTCAGGATGCAGGAATCAAGACCATCACTATGCT
GGATGAACAAAAGGAACAATAAACCGCATAGAAGAAGGCTTGGACCAAATAAATAAGGACATGAGAGAGACAGA
GAAGACTTTAACAGAACTCAACAAATGCTGTGGCCTTTGTGTCTGCCCATGTAATAGAACAAGAACTTTGAGTC
TGGCAAGGCTTATAAGACAACATGGGGAGATGGTGGAGAAAACCTCACCTTGAATGTAGTATCTAAACAGCCAGG
CCCGGTGACAAATGGTCAGCTTCAGCAACCAACAACGGGAGCAGCCAGTGGTGGATACATTAAACGCATAACTAA
TGATGCCAGAGAAGATGAAATGGAAGAGAACCTGACTCAAGTGGGCAGTATCCTGGGAAATCTAAAGACATGGC
CCTGAACATAGGCAATGAGATTGATGCTCAAAATCCACAAATAAAACGAATCACAGACAAGGCTGACACCAACAG
AGATCGTATTGATATTGCCAATGCCAGAGCAAAGAACTCATTGACAGCTAAAGCTACTGCTGTTCTTCTTTATC
ATTTATTCACTTCCGTAGCTCCTCCTTGAAAGTTATTACCTTTTCAGAGTTTAAAGTTTTCGGTTCCACGCTCTTC
TAATTGGGAGATAATATGGAAGAAGGGCCAGAGCAGTTACAGCCCTCCTTCTTTTTTGTCTTTGTTGAGGGCCG
ACTGCTGCTCTGCCTTCCTTAGTATTTTTCTTTCTCAATTCATACGCTTAGATTGGTTTTTCATATGTCATGTTT
AGTGTTCATCCTCCTCATATACTTCAGCAGGTTCTTTTGCTTTCAAGATTTGGAAGCATTGCCAAAGACAGCC
ATGAAGAAGGAAGCTGTAGAGGTGTTTTTGTGTTGTTTATTTTTGCTTTTGTGGTTGAGGGAAGGACAAGAGA
TAAGAGGTTGTTACCTCAGTAAAAACCTTCAGGCCACAAAGCAAAAGTTGCATAGCCACAACGAAGATCTAGTT
GGATATAGTTTTTGATTTAAGTTGCAGTTATAGCCAATTTAGGCTAATGCTTGGTTTTGGAGCTTTTATACACAA
CGTTTTTGTTAGGCATCACAGTTTTGCAACCTCTGCTCCAAAGAGAAAAATAGAATGAGTTTTCTTTCTTTTTTT
TTTTTTTGGAGTCAGAGTCTCGCTCTCTTGTCCAGGCTGGAGTGCAATAGCGCGATCTGGGCTCACTGCAACCTC
CGCCTCCCTGGTTCAAGCAATTCTCCTGCCTTGCCCTCCTGAGTAGCTGGGATTACAGGCGTGTGTCACCACGCTC
GGCTAATTTTTGTATTTTTTAGTAGAGACAGGGTTTACCATTGTCAAGCTGGTCTTGGACTCCTGACGTCGTGATC
CACCCGCCTTGGCCTCCCAAAGTACTGGGATTACAGGCGTGAGCCACTGTGCCTGGCTGAGTTTTCTTAAAGTGA
GCTTAATTTCTGAACCTCTTAGTGATTATATATGTACATAAATCTGTGATCCCATTCTTATTGCACCATTACAG
AACACTTTATATAAATGAGTGGCTTTTTATTTTATATTATTAGTAGTATCATGGTTCCATTACAGGCCTATTAAC
ATCATACATTGTCATTAGTCTTTGAAGAAAAAATATGTAAATATATATGTGTAACATGAGAATTTCTCTCTAAAG
CAGGGCTTAAATTTTTTGGAAAAGTTTGACAAAGCATACCACATGAATTCAGATTTACCTCAATGCTAAGAATT
ATGTTTAGTTAGGAAAAAGGAAAGTCATTTTGACCTCAGGTAGAAAAATAGATTGCTTTGAGTTTTATGTAGCTT
TAGACTTTAAAAAGTTAGAATTTATTCTGTAACATAAAATATTTGAAAAAATTATGCCTCTGGTTTTAATTATTG
GTGATTACACACTCTTTCTTTACCCCTTGTTGATTGAACATATGTCCATAATCAAGTTGATGTGGATCCTGAAAAG
TGTTATGAACATCTGATTGGTATTTGTACATTTATTTTAAATTAGCATCTGAACACTTCAAAGCTGTCAGTGT
GTATTGGTTTTACCAATAACCACTGCTTGATCCTTACAATTAATTTTTTAACTAAC

AAGAGACGAGCGGAGCCGCGGCTGCCTCCCTCGCTCACTCCCTCGCGCACTCGCCCGCCCTCCCTCCCTCC
 CTCCCTTCCCGGCCCCGGCTCTGGCCCCGGCCATTGCTGTTGGGTCTTCTGCTAGGGAGGATGTCGGGTTCG
 TCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCAGGGCCAGGCGCCGCTCAG
 AACGCTGGGTTTGTCAAGTCGCCCATGTGAGAACTAAGCTCACGGGGACGCCTTTGAGCTGTACTGTGACGTG
 GTCGGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGAAGTCAACGGGCAGAGTCTTTCAGACAGCTGTGG
 GACGGTGCTCGGAAGCGCGTGTACCCGTAAACACCGCCTACGGGTCAAACGGCGTGAGTGTGCTGAGAATAAC
 CGGCTCACCTTGGAGGACTCTGGGACTTACGAGTGCAGGGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCAA
 AACCCTCCATAACATGGATTGAGCCCCAGGCCACCATAAGCGTCTTCAGAAGCCAAGGATTGTCACCAGTGAA
 GAGGTCATTATTCGAGACAGCCCTGTTCTCCCTGTACCCCTGCAGTGTAACCTCACCTCCAGCTCTCACACCCTT
 ACATACAGCTACTGACAAAGAATGGGGTGGAACTGAGTGCCACTCGTAAGAATGCCAGCAACATGGAGTACAGG
 ATCAATAAGCCGAGAGCTGAGGATTAGGCGAATACCACTGCGTATATCACTTTGTGACGCTCCTAAAGCAAAC
 GCCACCATTGAAGTGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAGAACAAGAATGAAGGGCAGGAT
 GCCACTATGTATTGCAAGTCAGTTGGCTACCCCCACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCC
 ATGGACATTGTCAATACCTCTGGCCGCTTCTTTCATCATCAACAAGGAAAAATTACACTGAGTTGAACATTGTGAAC
 CTGCAGATCACGGAAGACCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCTCTGTTGTCACT
 GTCTCAGGGTGC GGAGCCACCTGGCCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAAATTATCATCCTTGTG
 GTGATCATTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGATGATGAACCAGCTGGACCAATG
 AAAACCAACTCTACCAACAATCACAAAGATAAAAACCTTGC GCCAGAGAAACACAAATTAAAGTACTGCTTACAATA
 TCTTTAGGTTCTGAACTGGTGGCAACATGACCTGTAAAAATTTCTGCTTGGACCTCTTTGGTTCTCTCCCTT
 TTCAAGTGAGCAACACCACAATGACTGTCTAAAGCATGCCTTATTTAGCCTCTCCTGTAAGGGTGATCTAGCCAG
 GTACATTTTAAACAATGCTTCAGTGTAGAAGGTGTAAACTATTTTGGGCTTGATGTGCTGTGAATGTTGCTTTTT
 TTTTCTTTTGTAAAAATATTTAAATAGAAGTGAAAAGGTCCTCTGAGGATCAGATCATGCATGCGCCATTTTTT
 ACTTAATGCAGCTGTTAAATTGGCAAAGCTCTAAATGCACCTGCTGCCATCTAGTGATACACTTTTGTAAAGTAC
 AGCAAAACCTACAGATATATACAGTATATAAATATATATATATATATATATTTATATTTTTGGGGGTGGGAGAAATC
 CAAAATAAAGTAAATGCTTGTTCATTTTTAAGCTGCTGATATTCATTCTTATTGTATGTTGTCAGATGAGGAA
 ATTGTGCACTTCTGGTACATAAAGATGAGTAATATAAACTGAAATCTATAATTTTAAGGGCTTAACCTGTGACTT
 TAATAAGCTGGAACAGTCCACCTGAATGGGTATAATGAATTCAGTATATACGTATGATTGCTTTTTAAGTGATTA
 TCTTTCTTCTGTTAAGTCATGTAAATTCATAAACTCTTTTGCACTGATGTGTTGAACCTTATCTGTACATTC
 ATTCAATCAAGGCAAACTTTTATAATTTTTCTTTTTTCCAATGACCTTGAAATGTTTATAGCATGGTAATATTC
 TATGCAACTATAGTTATACTTTTTGGTTTGACACTGTATTTTTTACATTGATTTACTGGTTGATGATAGATTTT
 ATAACCTAACGGTTCTCATGCGGTGCGTAATTGTAGATGCATGTACTTGTGTGTTTTGTGTAATTATTGAAGTGC
 AATGATGTATAAAAAAGTGGATTACCTGTTTTTAAAAATAAAACATTGATA

3892/5332
FIGURE 3393A

CTCTCCAGAGGCGGGCCCTGAGCCGGCACCTCCCCCTTCGGACAGCTCAAGGGACTCAGCCAACTGGCTCACGCC
TCCCCCTCAGCTTCTCTTCACGCACTCCAAGATCTAAACCGAGAATCGAACTAAGCTGGGGTCCATGGAGCCTG
CACCCGCCCAGATCTCCGAGGCCCCAGCAGGACCCCGCCCGCCCCAGGAGCCACCATGCCTCCCCCGAGACCC
CCTCTGAAGGCCGCCAGCCAGCCCCAGCCCCAGCCCTACAGAGCGAGCCCCCGCTTCGGAGGAGGAGTTCCAGT
TTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTGCCCGAAGCTGCTGCCTTGCTGACACGCTGTGCTCAG
GATGCCTGGAGGCGTCGGGCATGCAGTGCCCCATCTGCCAGGCGCCCTGGCCCTAGGTGCAGACACACCCGCCC
TGGATAACGTCTTTTTTCGAGAGTCTGCAGCGGCGCTGTGGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGT
GCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGCTTTGAGTGCGAGCAGCTCCTCTGCGCCAAGTGCTTCGAGG
CACACCAGTGGTTCTCAAGCACGAGGCCCGGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCGTGAGTTCTTG
ACGGCACCCGCAAGACCAACAACATCTTCTGTCCAACCCCAACCACCGCACCCCTACGCTGACCAGCATCTACT
GCCGAGGATGTTCCAAGCCGCTGTGCTGCTGCTGCGCGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCGACA
TCAGCGCAGAGATCCAGCAGCGACAGGAGGAGCTGGACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCT
TTGGCGCGGTTTACGCGCAGATGCACGCGGCCGTCGGCCAGCTGGGCGCGCGCGCTGCCGAGACCGAGGAGCTGA
TCCGCGAGCGCGTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGC
GGTACCAGCGCGACTACGAGGAGATGGCCAGTCGGCTGGGCGCGCTGGATGCTGTGCTGCAGCGCATCCGCACGG
GCAGCGCGCTGGTGACAGAGGATGAAGTGCTACGCCTCGGACCAGGAGGTGCTGGACATGCACGGTTTCTGCGCC
AGGCGCTCTGCCGCTGCGCCAGGAGGAGCCCCAGAGCCTGCAAGCTGCCGTGCGCACCGATGGCTTCGACGAGT
TCAAGGTGCGCCTGCAGGACCTCAGCTCTTGACATCACCCAGGGGAAAGATGCAGCTGTATCCAAGAAAGCCAGCC
CAGAGGCTGCCAGCACTCCCAGGGACCCATTGACGTTGACCTGCCCGAGGAGGCAGAGAGAGTGAAGGCCAGG
TTCAGGCCCTGGGGCTGGCTGAAGCCAGCCTATGGCTGTGGTACAGTCAGTGCCCGGGGCACACCCCGTGCCAG
TGTAACGCTTCTCCATCAAAGGCCCTTCTATGGAGAGGATGTCTCCAATACAACGACAGCCCCAGAAGAGGAAGT
GCAGCCAGACCCAGTGCCCCAGGAAGGTCATCAAGATGGAGTCTGAGGAGGGGAAGGAGGCAAGGTTGGCTCGGA
GCTCCCCGGAGCAGCCAGGCCAGCACCTCCAAGGCAGTCTACCACCCACCTGGATGGACCGCCTAGCCCCA
GGAGCCCCGTATAGGAAGTGAGGTCTTCTGCCAACAGCAACCACGTGGCCAGTGCGCCGGGGGAGGCAGAGG
AACGCGTTGTGGTGATCAGCAGCTCGGAAGACTCAGATGCCGAAAACTCGTCTCCCGAGAGCTGGATGACAGCA
GCAGTGAGTCCAGTGACCTCAGCTGGAAGGCCCCAGCACCTCAGGGTCTGGACGAGAACCTTGCTGACCCCC
AAGCAGAAGACAGACCTCTGGTTTTCTTGACCTCAAGATTGACAATGAAACCAGAAGATTAGCCAGCTGGCTG
CCGTGAACCGGGGAAGCAAGTTCCGCGTGGTATCCAGCCTGAAGCCTTCTCAGCATCTACTCCAAGGCCGTGT
CCCTGGAGGTGGGGCTGCAGCACTTCTCAGCTTTCTGAGTCCATGCGCCGCCCTATCTTGGCCTGCTACAAGC
TGTGGGGGCTGGCCTCCCAAACCTTCTCCGGGCCCTGGAGGACATTAACAGGCTGTGGGAATTCCAGGAGGCCA
TCTCGGGCTTCTGGCTGCCCTCTCATCCGGGAGCGTGTGCCCCGGGGCCAGCAGCTTCAAACCTCAAGAACC
TGGCCAGACCTACCTGGCGAGAAACATGAGCGAGCGCAGCGCCATGGCTGCCGTGCTGGCCATGCGTGACCTGT
GCCGCTCCTCGAGGTCTCCCCGGGCCCCAGCTGGCCAGCATGTCTACCCCTCAGTAGCCTGCGAGTCTTTG
CCTCCCTGCAGCCCTGGTGACGGCAGCTGTGCTGCCCCGGGCTGAGGCCCCGCTCCTGGCCCTACACAACGTGA
GCTTCATGGAGCTGCTGAGTGACACACCGCCGTGACCGGCAGGGGGGCTGAAGAAGTACAGCCGCTATCTAAGCC
TGCAGACCACACGTTGCCCCCTGCCAGCCTGCTTTCAACCTGCAGGCTCTGGGCACCTACTTTGAAGGCCTGT
TGGAGGGTCCGGCGCTGGCACGGGCAGAAGGAGTCTCCACCCACTTGCTGGCCGTGGCTTGGCAGAGAGGGCCT
CCCAGCAGAGCTGAGAGGAGGGGGTGACCAGCTTGGAGTCTCTGGTGGGCAGAGAGGGATGGGGTCCCTGAGCCA
GGCCCCACCCATCACAGCATTCCAGGTCTGGTACCCAGCCCTCAGTTGTCAATTTGGTTTCAAGATCAGTTCCCT
TTCTCTGGGACCAAATTTCCCTTCTCTAAACATCCTACAGAGAAGGTTCCAAAGCTGAGCACCCATCACCCTAGG
TGTGCACCACTCCTATTAGCCCTCCTTCCAGGAGCTAGAACCAGGGAGGTCTGAGTGAGGAAGGCATGACC
TCTGGGCTCTTAGGTGGCCCTGGTCTTGGCCCATCCATCCACCTGCCACTACCTTGGGTGTCTTACAGCTCT
GCCCTGACCCAGCCCTGCCCTGGACACCTGCTGACAGCTCCACACAGAACAGTCTGAGGTGATGCTGGCTA
CAGCCCTGGCAGCCCATGGCAACTCAAAGTGCCCTTCAAACCAAACCTGCCCTCATGAGGTAGGGTCCCCACC
CTCCACCTGCCAGAGGCCAACTCTGTTCCTTCTCCTTTTATCCAGAGGGGCTCATCAGCAAAGACAGAAAC
TGATGTTCCATGCATGTCCCTGCTTCAAAGCCTGACCTTCAAAGCTTGCTTCTTCTCCTGGCTGCACAGAC
ACCTCTGCTTGGCCACAGCTTTGCTCTTGGTCTCAGGCCACCAGACCCCTCACAGCATGGCCCTTGGCTCTTC
CTGCACTGCCCTCACCTCAGCGTCCCAAGGAGTGCCAGCACTACTCAGCATGTAGTCCAGGACCTGCGGCAT

3893/5332
FIGURE 3393B

CAGCATCCCCTGGGAGCTTCTTAGAAATGCAGACCTGTGGGCTCTACCACAGGCCTCTGGAATCAGAATCTTCAG
GGTGGGGCCCCAGCAGTCTGTGTTTTAACAGGTTCTCCCGGTGATGCTGGTGCTCAAGTTTGAGAACCGCTG
CTCTCATAGACTGCTCCTCCAAGGGGAAGCAGTGTGGAACAGCAGAGAAAGTCCCGTCCCTATCTCTGACTGTGC
AGTGAGTGTGGCCTAGGAACAGGTCCCTTCCTAAGCTCTAGTGTCCCCATCTGTAAATGGGCTGATTGGCCTCC
ACGGTCAGAGCGGCCATCTGGCTGTGCCATCCTGCATTTTTAGGAATGGAAAGCAGGCCTCTGAGGCAGTGGACA
GGAAGACTTCTCATCCTTGAATTCTAGCTCCCATTCCAACTGTTAGTCCCCAACCTTGTGGTCACATCAGAGGT
CAACAGCAGAACAGAGGCAGGTCAGGGTTGTCCGCTCTGATTAGCAGAACGACAGCCCCCTTCCTCCTCCTCCCTC
CTTCCCATCCCTACTCATTAGCTCCCTGCTCCTGGGATGCTTCCCAAGCAGCCCAGGCCTCTAGCCTCCATGGCT
GATGACCTCAGCTTTCACACTGGTGAAGTCTGTGTACCCATACTGCAGCCCCATCCCATGGGGCCCCCTGAAGACC
CACTGAGGAATTCCGTAGGGTCTTGTTCACGACCGGAGTGCTGGCTCTCACAGTGAATTTTGATGCATTTAAA
ATAAGATTCTGATGCCAGACTGTTAAAACAGGCGCTGGTTCTGAAGCACCGATGGAAACAGATTGATGCAGATGG
AAGGAGGAAGGGAGACTGGGCCCCACTGATTTCCAGCCCCACCATGTGTGCTGTTTTCAGATGTGATTGAGGGGTG
TTCTGCCCTGCCTCCACTGTCACAGCCTTTAATAAAGATGTGAATCTTG

3894/5332
FIGURE 3394

GCGCCGCCGCGGGTGGCCGCGCGGGTGAAGCCGGAAGCAGCAGCCAGGAGGGCGGGGCCGCTAGGGCCCACTGG
CCAGGGAGGGCGCCGCGCGGAGGCGCGGGGCGTGTCTCCTGTCAAAAGCCATGCTCGGCAGGTCTGGGTACCGGG
CGCTGCCCCCTGGGTGATTTTGACCGCTTCCAGCAGTCGAGCTTCGGCTTTCTGGGCTCGCAGAAGGGCTGCTTGT
CCCCGGAGCGGGGCGGCGTGGGGACAGGGGCCGATGTACCCAGAGCTGGCCCTCCTGCCTCTGTCAATGGCCTCA
TCAGTTTCCTGGGGTTCTTGCTGCTGTTGGTCACCTTCCCCATTTCTGGCTGGTTTGCCCTGAAGATTGTGCCCA
CCTACGAGCGGATGATTGTGTTCCGCTGGGCCGGATCCGCACCCCCCAGGGACCTGGCATGGTTCTGCTCTTGC
CCTTCATTGACTCCTTTTCAAGAGGTGGATCTGAGGACACGAGCCTTCAACGTCCCTCCCTGCAAGCTGGCCTCTA
AGGACGGGGCTGTGCTGTCCGTGGGAGCCGATGTCCAGTTTCGCATCTGGGACCCGGTGCTGTGCGGTGATGACTG
TGAAAAGACCTGAACACAGCCACACGCATGACAGCCCAGAACGCCATGACCAAGGCCCTGCTCAAGAGGCCGCTGC
GGGAGATCCAGATGGAGAAGCTCAAGATCAGCGACCAGCTTCTGCTGGAGATCAACGATGTGACCAGGGCCTGGG
GGCTGGAGGTAGACCGCGTGGAGCTGGCAGTGGAGGCCGTGCTCCAGCCGCCCCAGGACAGCCCAGCTGGGCCCCA
ACCTGGACAGCACCCCTCCAGCAGCTGGCCCTGCACCTTCTGGGAGGAAGCATGAACTCAATGGCAGGAGGTGCCC
CGTCCCCGGGGCCAGCAGACACCGTGGAGATGGTGAGTGAAGTTGAGCCACCTGCCCCCTCAAGTTGGTGCCAGGT
CCAGTCCGAAGCAGCCTCTGGCGGAGGGGCTACTGACTGCTCTACAGCCCTTCTGTCTGAGGCCCTGGTCAGCC
AAGTCGGGGCCTGCTACCAATTCAATGTCGTCCTGCCAGCGGCACCCAAAGCGCCTACTTCCTGGACCTCACTA
CAGGACGAGGAAGAGTGGGACACGGGGTGCCTGATGGCATCCCTGATGTGGTGGTGGAGATGGCCGAGGCAGACC
TGCGGGCCCTGCTATGCAGAGAGCTGCGGCCCTGGGGCCCTACATGAGTGGACGGCTGAAGGTGAAGGGCGACC
TGGCTATGGCCATGAAGCTGGAGGCTGTCTCAGGGCCTTGAAGTAGCAGCCTTGGCTGACTTTCAGAGCCCAG
TCCAAGCCTGGCACCAAGCCTGAGGGGCCTCTTGAGGAGGAGGTGTTTCATCTGCACCACAGAGAGTTGAGGCC
CTAACAATTTTCAAGCCCAGCCAAGAGCCCATGAATGGAGGCTGCAGGAGGCTGAGTCCGGCTGCCATGCACGTC
TCCCCACAGTGGTTCTCTGGACAAGGCTTTGTCCATCCCGGTCCCCAGCTGAGTGCCAGCGCTGAGCTGGGTG
CACGGTGTGATTCCAGGAGGAGAGCCAGGCCTGCCCTGCCCTGCTGGCTTCCTGACTGGAGAGACAGGACCCACA
GAAACAGCCTGACAGCAGCTGGTTTGGTCCTTGTGTGAGGGACCAAGCATGTGGCCAGGCTCTAAGCTCTGCGG
GGATTGGAGAGGGATGGGGAGGGAAGGGAAGGCAGCTCCAAGAAGAGGTCCCTGTGGCGAAGTTACCTGGGGATC
CTGGCTGGCCCCACCTTCCTGGCTGCAGTCCAGGCCCGTGTGCGCGGATTGGGCATGGGAAGGAGCAGGGCCTGC
TGCTTCCCTGGCGCTGCTCCCAAAGATTTCTGACTCATCTGCCAGCTCTGTCTGATGCCTGGCGAGCTGGGGC
CCAGGGCAGCATGAAGGAGAGCCCTGCGTTCTGTGCTTCTTACCAGAGGTTTGCAAGCCTCAGACAAATAAATGT
GGTGTTTACAATGT

3895/5332
FIGURE 3395

GCCAGCCGAGCGGCCAGCCAGTGC GGGGCTGGCCATGTAAGGCCACAGGCGGTCTGCCCGCCCGGTGCCCTGC
GGAGAGCCTCGTGCAGCCCTGGGCACCGCCCTGCCCTGCCCTGACCCCTTGGCCTTGAAATGCTGTCTATCGGAG
GAGCCGTCCCGCTCGGGACAAGGCCAGCATGGACAAAGCTAGAGCTGGGGCAAGCAAGGAGCCTTCTGTCTCTG
AGGCCGTGGGAAGAGAAGCACGCCCAGGGGGCCACTCCTGAGAGCCTCTCTGTCCACCAGGCCTCTGCAGAGGGG
TCACCAATGGCTCTGGCCCGAGGCAGCCGGCAGCTGGGGGCCCTGGTGTGGGGCGCCTGCCTGTGCGTGTGGTGC
ACGGGCAGCAGGCGCAGCCCGGGCAGGGCTCGGACCCCGCCCGCTGGCGGCAGCTGATCCAGTGGGAGAACAACG
GGCAGGTGTACAGCTTGTCAACTCGGGCTCAGAGTACGTGCCGGCCGGACCTCAGCGCTCCGAGAGTAGCTCCC
GGGTGCTGCTGGCCGGCGCGCCCCAGGCCAGCAGCGGGCGCAGCCACGGGAGCCCCCGGCGTGGCAGGCGCCGT
CCCTGCCCTTGCCGGGGCGCGTGGGCTCGGACACCGTGC GCGGCCAGGCGCGGCACCCATTTCGGCTTTGGCCAGG
TGCCCCGACAACCTGGCGCGAGGTGGCCGTGGGGACAGCACGGGCATGGCCCGGGCCCGCACCTCCGTCTCCAGC
AACGGCACGGGGGCTCCGCCTCCTCGGTCTCGGCTTCGGCCTTCGCCAGCACCTACCGCCAGCAGCCCTCTTACC
CGCAGCAGTTCCCCTACC CGCAGGCGCCCTTCGTACGCCAGTACGAGAACTACGACCCCGCGTGGCGGACCTACG
ACCAGGGTTTTCGTGTACTACCGCCCCGCGGGCGGGCGGCGTGGGCGCGGGGGCGGCGGCCGTGGCCTCGGCGGGG
TCATCTACCCCTACCAGCCCCGGGCGCGCTACGAGGAGTACGGCGGGCGGCGAAGAGCTGCCCGAGCCCCGAGAG
GCCCTACGTGCCGCCGCCCGCCGCCCGGACGGCCTGGACCGCCGCTACTCGCACAGTCTGTACAGCGAGGG
CACCCCGGGCTTCGAGCAGGCCTACCCTGACCCCGGTCCCAGGCGGCGCAGGCCCATGGCGGAGACCCACGCCT
GGGCTGGTACCCGCCCTACGCCAACCCGCCGCCCGAGGCGTACGGGCCGCCGCGCGCTGGAGCCGCCCTACCT
GCCGGTGC GCGAGCTCCGACACGCCCCGCCGGGTGGGGAGCGGAACGGCGCGCAGCAGGGCCGCCTCAGCGTGGG
CAGCGTGTACCGGCCCCAACCAGAACGGCCGCGGTCTCCCTGACTTGGTCCCAGACCCCAACTATGTGCAAGCATC
CACTTATGTGCAGAGAGCCACCTGTACTCCCTGCGCTGTGCTGCGGAGGAGAAGTGTCTGGCCAGCACAGCCTA
TGCCCCTGAGGGCACCGACTACGATGTGCGGGTGCTACTGCGCTTCCCCAGCGCGTGAAGAACCAGGGCACAGC
AGACTTCCTCCCAACCGGCCACGGCACACCTGGGAGTGGCACAGCTGCCACCAGCATTACCACAGCATGGACGA
GTTCAGCCACTACGACCTACTGGATGCAGCCACAGGCAAGAAGGTGGCCGAGGGCCACAAGGCCAGTTTCTGCCT
GGAGGACAGCACCTGTGACTTCGGCAACCTCAAGCGCTATGCATGCACCTCTCATACCCAGGGCCTGAGCCCAGG
CTGCTATGACACCTACAATGCGGACATCGACTGCCAGTGGATCGACATAACCGACGTGCAGCCTGGGAACCTACAT
CCTCAAGGTGCACGTGAACCCAAAGTATATTGTTTTGGAGTCTGACTTCACCAACAACGTGGTGAGATGCAACAT
TCACTACACAGGTCGCTACGTTTCTGCAACAACTGCAAAATTGTCCAATCCTGATCTCCGGGAGGGACAGATGG
CCAATCTCTCCCTTCCAAAGCAGGCCCTGCTCCCCGGGCAGCCTCCCGCCGAGGGGGCCAGCCCCCAACCCACA
GGCACGGAGGGGCATCCCTCCCTGCCGGCCTCAGGGAGCGAACGTGGATGAAAACACAGGGATTCCGGACGCCA
GACCCCATTTTATACTTCACTTTTCTCTACAGTGTGTTTTGTTGTTGTTGTTGTTTATTTTTTATACTTTGGCC
ATACCACAGAGCTAGATTGCCCAGGTCTGGGCTGAATAAAACAAGGTTTTTCT

3896/5332
FIGURE 3396

CAGGCCGAGGCAGGGAGAACTCTCCACTCGGAGGAGGAGCTGGGGTCCTCTTCCATCCCGTCTTCATCCTGCCTG
GCTGCGTGACCTCGGGAGGCACCAATGCAGGAGCTGCATCTGCTCTGGTGGGCGCTTCTCCTGGGCCTGGCTCAGG
CCTGCCCTGAGCCCTGCGACTGTGGGAAAAGTATGGCTTCCAGATCGCCGACTGTGCCTACCGCGACCTAGAAT
CCGTGCCGCTGGCTTCCCGGCCAATGTGACTACACTGAGCCTGTCAGCCAACCGGCTGCCAGGCTTGCCGGAGG
GTGCCTTCAGGGAGGTGCCCTGTGTCAGTCGCTGTGGCTGGCACACAATGAGATCCGCACGGTGGCCGCCGGAG
CCCTGGCCTCTCTGAGCCATCTCAAGAGCCTGGACCTCAGCCACAATCTCATCTCTGACTTTGCCTGGAGCGACC
TGCACAACCTCAGTGCCCTCCAATTGCTCAAGATGGACAGCAACGAGCTGACCTTCATCCCCCGCGACGCCTTCC
GCAGCCTCCGTGCTCTGCGCTCGCTGCAACTCAACCACAACCGCTTGACACACATTGGCCGAGGGCACCTTCACCC
CGCTCACCGCGCTGTCCACCTGCAGATCAACGAGAACCCCTTCGACTGCACCTGCGGCATCGTGTGGCTCAAGA
CATGGGCCCTGACCACGGCCGTGTCCATCCCGGAGCAGGACAACATCGCCTGCACCTCACCCCATGTGCTCAAGG
GTACGCCGCTGAGCCGCTGCCGCCACTGCCATGCTCGGCGCCCTCAGTGCAGCTCAGCTACCAACCCAGCCAGG
ATGGTGCCGAGCTGCGGCCTGGTTTTGTGCTGGCACTGCACTGTGATGTGGACGGGCAGCCGGCCCTCAGCTTC
ACTGGCACATCCAGATACCCAGTGGCATTGTGGAGATCACCAGCCCCAACGTGGGCACTGATGGGCGTGCCCTGC
CTGGCACCCCTGTGGCCAGCTCCCAGCCGCGCTTCCAGGCCTTTGCCAATGGCAGCCTGCTTATCCCCGACTTTG
GCAAGCTGGAGGAAGGCACCTACAGCTGCCTGGCCACCAATGAGCTGGGCAGTGTGAGAGCTCAGTGGACGTGG
CACTGGCCACGCCCCGTGAGGGTGGTGAGGACACACTGGGGCGCAGGTTCCATGGCAAAGCGGTTGAGGGAAAGG
GCTGCTATACGGTTGACAACGAGGTGCAGCCATCAGGGCCGGAGGACAATGTGGTCATCATCTACCTCAGCCGTG
CTGGGAACCCCTGAGGCTGCAGTCGCAGAAGGGGTCCCTGGGCAGCTGCCCCAGGCCTGCTCCTGCTGGGCCAAA
GCCTCCTCCTCTTCTTCTCCTCACCTCCTTCTTAGCCCCACCCAGGGCTTCCCTAACTCCTCCCTTGCCCCCTAC
CAATGCCCCTTTAAAGTGTGTCAGGGGTCTGGGGTTGGCAACTCCTGAGGCCTGCATGGGTGACTTCACATTTTCC
TACCTCTCCTTCTAATCTCTTCTAGAGCACCTGCTATCCCCAACTTCTAGACCTGCTCCAAACTAGTGACTIONGA
TAGAATTTGATCCCTAACTCACTGTCTGCGGTGCTCATTGCTGTAAACAGCATTGCCTGTGCTCTCCTCTCAGG
GGCAGCATGCTAACGGGGCGACGTCTTAATCCAATGGGAGAAGCCTCAGTGGTGGAATTCCAGGCACCTGTGACT
GTCAAGCTGGCAAGGGCCAGGATTGGGGGAATGGAGCTGGGGCTTAGCTGGGAGGTGGTCTGAAGCAGACAGGGA
ATGGGAGAGGAGGATGGGAAGTAGACAGTGGCTGGTATGGCTCTGAGGCTCCCTGGGGCCTGCTCAAGCTCCTCC
TGCTCCTTGCTGTTTTCTGATGATTTGGGGGCTTGGGAGTCCCTTTGTCTCATCTGAGACTGAAATGTGGGGAT
CCAGGATGGCCTTCCTTCTTACCCTTCCCTCAGCCTGCAACCTCTATCCTGGAACCTGTCTCCTTCCCTTTC
TCCCCAACTATGCATCTGTTGTCTGCTCCTCTGCAAAGGCCAGCCAGCTTGGGAGCAGCAGAGAAATAAACAGCA
TTTCTGATGCC

3897/5332
FIGURE 3397

GGGCGCTGGGGCCCTGGGCAGCGCGGGCTCGATGTGTGTGTCAGCCAAGTAGCTGGTCCCACTGGAGCGGTGAGGTC
GCCACCGGATAGTGTTCCTGCCCCATTACTAGCGATCTGTGACCTTGGGCCAGTGATTTTACTGAGTCTTGCTTC
CCTCATCTTTAAAATGTGGCTAATGCCTGCCTTAGGGAACCGTTGTGAGGATTAAGTGAGACATGGTATATAAAA
CGACCTCCTTCTGGCATAAACTTGAGGTGGAAGATACCTTGAGGATGCTTGAAGGTCTGCTAGGCAGCTTCACAG
CCTTTTCTTTCCTCTTCTCTATCAGAGGTCTCTTTGGAAGCAATAATGATGACTATAACAAGAACTTATCTTGCT
TTGCAAGATTCTTCCGCCGTCAGAGTTTCTGATTTATTTTCTGGGGTTCCATGTATGCCAGGGAGAAAGAGAGAG
CGCGAAAGAGAGAGGATGCTCTCTCAGACTGGCACCTGGCGGTGAAGCTGGCTGACCAGCCACTTACTCCAAAG
TCTATTCTTCGGTTGCCAGAGACAGAAGCTGGGAGAATACTCGCTAGGGGGCTATAGTATTTTCACTTCTGAAGCAG
CTTATTGCTGGCAAACCTCCAGGAGTCTGTTCCAGACCCTGAGCTGATTGATCTGATCTACTGTGGTCGGAAGCTA
AAAGATGACCAGACACTTGACTTCTATGGCATTCAACCTGGGTCCACTGTCCATGTTCTGCGAAAGTCTTGGCCT
GAACCTGATCAGAAACCGGAACCTGTGGACAAAGTGGCTGCCATGAGAGAGTTCCGGGTGTTGCACACTGCCCTG
CACAGCAGCTCCTCTTACAGGGAGGCGGTCTTTAAGATGCTCAGCAATAAGGAGTCTCTGGATCAGATCATTGTG
GCCACCCAGGCCTCAGCAGTGACCCCTATTGCTCTTGGGGTTCTCCAGGACAAGGACCTCTTCTGTCTTCGCT
GATCCCAATATGCTTGATACGTTGGTGCCTGCTCACCCAGCCCTCGTCAATGCCATTGCTCTGGTTCTGCACTCC
GTAGCAGGCAGTGCCCCAATGCCTGGGACTGACTCCTCTTCCCGGAGCATGCCCTCCAGCTCATACCGGGATATG
CCAGGTGGCTTCTGTTTGAAGGGCTCTCAGATGATGAGGATGACTTTCACCCAAACACCAGGTCCACACCCTCT
AGCAGTACTCCAGCTCCCGCCCAGCCTCCCTGGGGTACAGTGGAGCTGCTGGGCCCCGGCCCATCACCCAGAGT
GAGCTGGCCACCGCCTTGGCCCTGGCCAGCACTCCGGAGAGCAGCTCTCACACACCGACTCCTGGCACCCAGGGT
CATTCTCAGGGACCTCACCAATGTCCTCTGGTGTCCAGTCAGGGACGCCCATCACCAATGATCTCTTCAGCCAA
GCCCTACAGCATGCCCTTCAAGCCTCTGGGCAGCCCAGCCTTCAGAGCCAGTGGCAGCCCCAGCTGCAGCAGCTA
CGTGACATGGGCATCCAGGACGATGAGCTGAGCCTGCGGGCCCTGCAGGCCACCGGTGGGGACATCCAAGCAGCC
CTGGAGCTCATCTTTGCTGGAGGAGCCCCATGAAGTCCCTGCTTCCCTGAACCCCCAGCAAGTTGCAGAGGCTA
CTGCCCTTGGGAGGCACTCATGAAGGTGCCTCCATCTCTCCCTTCCCCAATATACCTGATGGTCAACTCTC

3898/5332
FIGURE 3398

GGCGGGACGCGCACGCTCACAGTGAGGTCTCAAAAAGATCCCCACCTCAGTTTTCTCATCTGGAAAGTGGGGCCTC
GTAATCCTGTCCGACCCGGCGCGGGACAGTAGGTGTCAGGGATTTTGGTGACCCACGCTCGAGGCCTCTGCAAA
AGGGGGCTGTCCAGTGGCCCAGAGACGCGAGCCGGCGGGGCTTTTGTCTAGCGGGGAGTCTTAACTGAGAGGCCA
CGCAGGCCGGCAGGAAGCCGCTCCACAGGAGGGGGCTCAAGGAGAGGGGATCTCCTCCCTCCAGACTCCGGCCCC
GCCAGAGTAGCTCTAGGGTATCTTCCCAGAACTGCCCCGACGCACTGGCGAGCTGGGAGCGCCACCACGGCTT
TCAAAAAACCCGCACACACCAAGATAATAATGTGTGCTTCGCTCGTTTCGCGCAAGCGGAGTCGCGTCCGCCTTC
CCGAGCTCCGGCACACAGACCTCAGGCCGCTCTCGCGCTCTCCGGGGCCCCGAGAACAATGCCCCGTCTCTCCGC
GCGCAGGAGGGAGTTGGCGGACCACGCGGGGTGCGGGCGACGGAGCGGGCCCAGCCCCACGGCCAGGTCGGGGCC
CCACCTCTCGGCTCTGAGAGCCCAGCCGGCCCCGGGCCGCGCACCTGTCAGGTCGGGGGACCTACGTGCGCCGCGA
CACGGCGGGAGGCGGGCCGGGCCAGGCTCGTCCCCTCGGCCCTCCCGGAAGTCTCCTAGGCCGCGGGCGCCG
CCGGAGCGGAGAGGGCTGGTGCCCCGGAGCCTTCGAGTCGGGGGCTAGAGCGGCCAGGCCTCCGAGCCGGGTGGA
GCCGAGGCTGGCGACGGCTGCGTCACGCGAGGGGGCGGGGCTGCCACGGGCGGAGGTCGCAGCCGGAAGCGGAAG
AGGCGCTCGGAGCGGGGAGTGGGGCCTAGCTGCAGCCGGAGCCTGGGAGACGCCATGACCGCCTGCCCTACCAGA
GGAGGTACCGGGAGCGCCGTGACAGCGATACATACCGGTGTGAAGAGCGGAGCCCATCCTTTGGAGAGGACTACT
ATGGACCTTCACGTTCTCGTCATCGTCGGCGATCGCGGGAGAGGGGCGCCATACCGGACCCGCAAGCATGCCCACC
ACTGCCACAAACGCCGCACCAGGTCTTGTAGCAGCGCTCCTCGAGAAGCCAACAGAGCAGTAAGCGCAGCAGCC
GGAGTGTGGAAGATGACAAGGAGGGTCACCTGGTGTGCCGGATCGGCGATTGGCTCCAAGAGCGATATGAGATTG
TGGGGAACCTGGGTGAAGGCACCTTTGGCAAGGTGGTGGAGTGCTTGGACCATGCCAG

3899/5332
FIGURE 3399

ATGATCCGCTGCGGCCTGGCCTGCGAGCGCTGCCGCTGGATCCTGACCCTGCTCCTACTCAGCGCCATCGCCTTC
GACATCATCGCGCTGGCCGGCCGCGGCTGGCTGCAGTCGAGCGACCGCGTCCAGACGTCCTCGCTGTGGTGGAGA
TGTTTCCTTCCACAGGGGCGGCGGCGGCGGCAGCGGGTCCTAAGAGGACGGCTGCCACAGCCTCATGGAGTACGC
GTGGGGTCGAGCAGCGCTGCCATGCTTTTCTGGGGCGTCAGCATCCTGGTGATCTGTTTCATCCTCTCCTTCTTC
GTCCTGTGTGTACCCAGATACTTGTCTTCCTAAGAGTGATTGGAGGTCTCCTTGCCTTGGCTGCTGTGTTCCAG
ATCATCTCCCTGGTAATTTACCCCGTGAAGTACACTCAACCTTCAACCTTCATGCCAAGCCCCGCTGTCACTTCC
ATCTATAACTGGGCCTGCGGCTTTGGGTGGGCAGCCATGATTATCCTCATTGGCTGTGCTTTCTTCTGCTGCTGC
CTCCCCAGCTGCGAAGATGACCTCCTGGGCAATACCAAGCCCAGGTACTTCTACACATCCGCCTTAA

3900/5332
FIGURE 3400

ACTTCCGCTGCTGTTTCGTAGCCGACTGCTGAAGGCTGGTTTGCCTCGACATGGCGGTTACCCGTAGTCTCTTGC
TGGGCGGGCGCGTTTGCGCCGCGTCACTCGCTGTGGGTTTCGCGACCGGGGGGTGGCGGGCCAGGCCCTATTG
GCCGGGAGCCGGACCCCGATTCCGACTGGGAGCCGGAGGAACGGGAGCTGCAGGAGGTGGAGAGGTACCGGCTTC
TCCCCGGGCCCTCAGCTTGAAGCAGGGCCTCGTGCCCCGGCGCTCCAGGCCGCGCCCCCTTGGCGCCGGGTGTCC
TGCCGCTGCTTGCGCAGCGGCCCTTGTTTCTTCTTACCCGTTGTTAGGGGCGCAGCGTCAGGTGTTTCACTCCCC
TGGGACCACTGGTCCCTTCATTAGTGACGTATTTTCATCATCAGTTTATAGAGAGTTTCGGCATGCTTACAGGCAGTTA
TTGTTCTAGGTGTTAGCTTTCTGGGTGTACGGAGCAGCTCTAAGCCGGCAACATGGCCCGGTTGCCCTTGCATC
AAAGAGAAGAGGGCTGGGCGCTCCATGATTTAGCCTGAGGCTCTTCAAACATCCATTCTGCTTCCACGCATGGCT
TCTGCCATTGGTTCTCTTCCCCCAGCACCCCTGAAACGACAGAAACAAGCAATCCGATTCCAGAAAATTTCGGAGGC
AAATGGAGGGCGCTGGTGCCCCGCCAGGACCCCTGACGTGGGAAGCCATGGAGCAGATACGGTATTTACATGAGG
AATTTCCAGAGTCCTGGTCAGTTCCAGGTTGGCTGAAGGCTTTGATGTCAGCACTGATGTGATCCGAAGAGTTT
TAAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGATCAAAAAGTCCTTAAGAAAGCTGGGCTTG
CCCCTCGCTGCAGCACCTCCGGGGCTCTGGAAATACCTCAAAGCTGCTCCCTGCAGGCCACTCTGTATCAGGCT
CTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCACAGCACAGCTTTGAAAGTGATAGAGTCAG
ACACTCACAGGACAAATACACCAAGGAGAAGGAAGGGAAGAAATAAAGAAATCCAGGACCTGGAGGAGAGCTTTG
TGCCTGTTGCTGCACCCCTAGGTTCATCCAAGAGAGCTGCAGAAGTACTCCAGTGATTCTGAGAGCCCCAGAGGAA
CTGGCAGTGCTGCGTTGCCAAGTGGTCAGAAGCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCA
AAGTAGTGAGAGGGGCCGAGAGTTCTTTGACAGCAACGGGAACCTCCTGTACAGAATTGAGTCGGGGCTTGGC
TTATGGAGATGCCTCGTGAAACACAGCTGGGCAAGTATTAATGTATATGGAACAGCCTGGATTTCTGCATATGGA
TAAGCCACCTTGGAATAGGAAGAGGTGTTGAGCCTGGACTGTGGGAGGAAAGAGCTGCGTGGATAGATTCAAAC
TCCTGTGGTAGTGCTCCAGTCTGACCTCTGTAGACCTTCAGTACTCACTCTTCTGCTTAGGCTCTCTGTGTGT
TGAAAGCCATCCCGTGTGTCATGTGTTGTTACAATTTTCTGTGATACCTTGCAATTTATGTTTGAGAAGAAGTGAA
AAGTTTGCTTCTGACCTCATTTCTTCTTGATCAGTGAACACTAACATTTTGGGGACAACCTTAGTCAATTGGTT
TTCCTTACAACAAAATAAAGTAAAATGTAGCAGTC

3901/5332
FIGURE 3401

GCGGCCCAAGGGCGGAAGTGAGAAAGTTGTCTGCGTCTCGAGGCGAGTTGGCGGAGCTGTGCGCGCGGGGGCG
ATGGGGGGGCTCGGGCAGTCGCCTGTCCAAGGAGCTGCTGGCCGAGTACCAGGACTTGACGTTCTGACGAAGCAG
GAGATCCTCCTAGCCACAGGCGGTTTTGTGAGCTGCTTCCCCAGGAGCAGCGGAGCGTGGAGTCGTCACTTCGG
GCACAAGTGCCCTTCGAGCAGATTCTCAGCCTTCAGAGCTCAAGGCCAACCCCTTCAAGGAGCGAATCTGCAGG
GTCTTCTCCACATCCCCAGCCAAAGACAGCCTTAGCTTTGAGGACTTCCTGGATCTCCTCAGTGTGTTTCAGTGAC
ACAGCCACGCCAGACATCAAGTCCCATTATGCCTTCCGCATCTTTGACTTTGATGATGACGGAACCTTGAACAGA
GAAGACCTGAGCCGGCTGGTGAAGTGCCTCACGGGAGAGGGCGAGGACACACGGCTTAGTGCGTCTGAGATGAAG
CAGCTCATCGACAACATCCTGGAGGAGTCTGACATTGACAGGGATGGAACCATCAACCTCTCTGAGTTCCAGCAC
GTCATCTCCCGTTCTCCAGACTTTGCCAGCTCCTTTAAGATTGTCCTGTGACCAGCAGCCCCAGCGTGTGTCCTGG
CACCCTGTCCAAGAACCTTTCTACTGCTGAGCTGTGGCCAAGGTCAAGCCTGTGTTGCCAGTGCGGGCCAAGCTG
GCCCAGCCTGGAGCTGGCGCTGTGCAGCCTCACCCCGGGCAGGGGCGGCCCTCGTTGTCAGGGCCTCTCCTCACT
GCTGTTGTCAATTGCTCCGTTTGTGTTGTACTAATCAGTAATAAAGGTTTAGAAGTTTGACCCTATGTGTGACAT
GAGATACACTGGTATGAGGAAGGACTGGACTTCTCTTCTAAGAGCCTTCAATCATCCTAGGAATAAGCAGCATAT
CGAGCAGAGGCCAGCGGGAAGTCAAGCCGCACCCACGCTGGCTGTCCCCGTGGGAGGGTGTGAGGATGAAGGGGC
AGCAGGAGGTGTGGGACTCGCCTGTATCCTGATTGGGGTGGTGGTTAGATGAGTCTCTGCATGCATCAAATGTA
AAGAACCGTACATCAGTAAAGTCTATTTTACTGCA

3902/5332
FIGURE 3402A

GCTCTGCCCCAAGCCGAGGCTGCGGGGCCGCGCCGGCGGGAGGACTGCGGTGCCCGCGGAGGGGCTGAGTTTGC
CAGGGCCCACTTGACCCTGTTTCCCACCTCCCGCCCCCAGGTCCGGAGGCGGGGGCCCCCGGGGCGACTCGGGG
GCGGACCGCGGGGGCGGAGCTGCCGCCGTGAGTCCGGCCGAGCCACCTGAGCCCAGCCGCGGGACACCGTCGCT
CCTGCTCTCCGAATGCTGCGCACCCGCGATGGGCCTGAGGAGCTGGCTCGCCGCCCATGGGGCGCGCTGCCGCCT
CGGCCACCGCTGCTGCTGCTCCTGCTGCTGCTGCTCCTGCTGCAGCCGCCGCTCCGACCTGGGCGCTCAGCCCC
CGGATCAGCCTGCCTCTGGGCTCTGAAGAGCGGCCATTCTCAGATTCTGAAGCTGAACACATCTCCAACACACA
GCCCTTCTGCTGAGCAGGGATGGCAGGACCCTGTACGTGGGTGCTCGAGAGGCCCTCTTTGCACTCAGTAGCAAC
CTCAGCTTCTGCTGCCAGGCGGGGAGTACCAGGAGCTGCTTTGGGGTGAGACGCAGAGAAGAAACAGCAGTGCAGC
TTCAAGGGCAAGGACCCACAGCGGACTGTCAAACTACATCAAGATCCTCCTGCCGCTCAGCGGCAGTCACCTG
TTCACCTGTGGCACAGCAGCCTTCAGCCCCATGTGTACCTACATCAACATGGAGAATTACCCCTGGCAAGGGAC
GAGAAGGGGAATGTCTCCTGGAAGATGGCAAGGGCCGTTGTCCCTTCGACCCGAATTTCAAGTCCACTGCCCTG
GTGGTTGATGGCGAGCTCTACACTGGAACAGTCAGCAGCTTCCAAGGGAATGACCCGGCCATCTCGCGGAGCCAA
AGCCTTCGCCCCACCAAGACCGAGAGCTCCCTCAACTGGCTGCAAGACCCAGCTTTTGTGGCCTCAGCCTACATT
CCTGAGAGCCTGGGCAGCTTGCAAGCGATGATGACAAGATCTACTTTTTCTTCAGCGAGACTGGCCAGGAATTT
GAGTTCTTTGAGAACACCATTGTGTCCCGCATTGCCCGCATCTGCAAGGGCGATGAGGGTGGAGAGCGGGTGCTA
CAGCAGCGCTGGACCTCCTTCCTCAAGGCCAGCTGCTGTGCTCACGGCCCGACGATGGCTTCCCCTTCAACGTG
CTGCAGGATGTCTTCACGCTGAGCCCCAGCCCCAGGACTGGCGTGACACCCTTTTCTATGGGGTCTTCACTTCC
CAGTGGCACAGGGGAACACAGAAGGCTCTGCCGTCTGTGCTTTCACAATGAAGGATGTGCAGAGAGTCTTCAGC
GGCCTCTACAAGGAGGTGAACCGTGAGACACAGCAGATGGTACACCGTGACCCACCCGTGCCACACCCCGGCCT
GGAGCGTGCATACCAACAGTGCCCGGGAAGGAAGATCAACTCATCCCTGCAGCTCCCAGACCCGCTGCTGAAC
TTCTCAAGGACCACTTCTGTATGGACGGGCAGGTCCGAAGCCGATGCTGCTGCTGCAGCCCCAGGCTCGCTAC
CAGCGCGTGGCTGTACACCGCTCCCTGGCCTGCACCACACCTACGATGTCTCTTCTGGGCACTGGTGACGGC
CGGCTCCACAAGGCAGTGAGCGTGGGCCCCCGGTGCACATCATTGAGGAGCTGCAGATCTTCTCATCGGGACAG
CCCGTGCAGAATCTGCTCCTGGACACCCACAGGGGGCTGCTGTATGCGGCCCTCACTCGGGCGTAGTCCAGGTG
CCCATGGCCAACTGCAGCCTGTACAGGAGCTGTGGGGACTGCCTCCTCGCCCGGACCCCTACTGTGCTTGGAGC
GGCTCCAGCTGCAAGCACGTGACCTCTACAGCCTCAGCTGGCCACCAGGCCGTGGATCCAGGACATCGAGGGA
GCCAGCGCAAGGACCTTTGCAGCGCTCTTCGGTTGTGTCCCGCTCTTTGTACCAACAGGGGAGAAGCCATGT
GAGCAAGTCCAGTTCCAGCCCAACACAGTGAACACTTTGGCCTGCCGCTCCTCTCCAACCTGGCGACCCGACTC
TGGCTACGCAACGGGGCCCGTCAATGCCTCGGCCCTCCTGCCAGTGTACCCACTGGGGACCTGCTGTGGTG
GGCACCACACAGCTGGGGGAGTTCCAGTGTCTGCTCAGTAGAGGGGCTTCCAGCAGCTGGTAGCCAGCTACTGC
CCAGAGGTGGTGGAGGACGGGGTGGCAGACCAACAGATGAGGGTGGCAGTGTACCCGTCAATTATCAGCACATCG
CGTGTGAGTGCACCAGCTGGTGGCAAGGCCAGCTGGGGTGAGACAGGTCTTACTGGAAGGAGTTCTGTGTATG
TGCACGCTCTTTGTGCTGGCCGTGCTGCTCCAGTTTTATTCTTGCTCTACCGGCACCGGAACAGCATGAAAGTC
TTCCTGAAGCAGGGGGAATGTGCCAGCGTGACCCCAAGACCTGCCCTGTGGTGTGCCCCCTGAGACCCGCCCA
CTCAACGGCCTAGGGCCCCCTAGCACCCCGCTCGATCACCGAGGGTACCAGTCCCTGTGAGACAGCCCCCGGGG
TCCCGAGTCTTCACTGAGTCAGAGAAGAGGCCACTCAGCATCCAAGACAGCTTCGTGGAGGTATCCCCAGTGTGC
CCCCGGCCCCGGGTCCGCTTGGCTCGGAGATCCGTGACTCTGTGGTGTGAGAGCTGACTTCCAGAGGACGCTGC
CCTGGCTTCAGGGGCTGTGAATGCTCGGAGAGGGTCAACTGGACCTCCCTCCGCTCTGCTCTTCTGTGAACACG
ACCGTGGTGGCCGGCCCTTGGGAGCCTTGGGGCCAGCTGGCCTGCTGCTCTCCAGTCAAGTAGCGAAGCTCCTAC
CACCCAGACACCCAAACAGCCGTGGCCCCAGAGGTCTGGCCAAATATGGGGGCTGCTAGGTTGGTGGAAACAG
TGCTCCTTATGTAACTGAGCCCTTTGTTTAAAAACAATTCCAAATGTGAAACTAGAATGAGAGGGAAGAGATA
GCATGGCATGCAGCACACAGGCTGCTCCAGTTTATGGCCTCCCAGGGGTGCTGGGGATGCATCCAAAGTGGTTG
TCTGAGACAGAGTTGGAAACCCCTACCAACTGGCCTCTTACCTTCCACATTATCCCGCTGCCACCGGCTGCCCT
GTCTCACTGCAGATTGAGGACCAGCTTGGGCTGCGTGCGTTCTGCCTTGCCAGTCAGCCGAGGATGTAGTTGTTG
CTGCCGTGCTCCACACCTCAGGGACCAGAGGGCTAGGTTGGCACTGCGGCCCTCACCAGGTCTGGGCTCGGA
CCCAACTCCTGGACCTTTCCAGCCTGTATCAGGCTGTGGCCACACGAGAGGACAGCGGAGCTCAGGAGAGATTT
CGTGACAATGTACGCCTTTCCCTCAGAATTCAGGGAAGAGACTGTGCGCTGCCCTCCTCCGTTGTTGCGTGAGAA
CCCGTGTGCCCTTCCCACCATATCCACCCTCGCTCCATCTTTGAACTCAAACACGAGGAACAACTGCACCCTG

3903/5332
FIGURE 3402B

GTCCTCTCCCCAGTCCCCAGTTCACCCTCCATCCCTCACCTTCCTCCACTCTAAGGGATATCAACACTGCCCAGC
ACAGGGGGCCCTGAATTTATGTGGTTTTTATACATTTTTTAATAAGATGCACCTTATGTCATTTTTTAATAAAGTC
TGAAGAATTACTGTTT

3904/5332
FIGURE 3403

CGCCGACGCAGACCCCGCTCTGCACGGCAGCTCGCCCGCACCCCTCATGGCCACAGTTCAGCAGCTGGAAGGAAG
ATGGCGCCTGGTGGACAGCAGAGGCTTTGATGAATATGTGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAAT
GGACACAATAGCCAAGCCAGATTGTATCATCACTTGTGATGGCAAAAACCTCACCATAAAAAACCGAGAGCACTTT
GAAAACAACACAGTTTTCTTGTACCCTGGGAGAGAATTTTGAAGAAACCACAGCTGATGGCAGAAAAACTCAGAC
TGTGTGCAACTTTACAGATGGTGCATTGGTTCAACATCAGGAGTGGGATGGGAAGGAAAAACACAATAAGAAGAAA
ATTGAAAGATGGGAAATTAGTGGTGGACTGTGTCATGAACAGTGTACCTGTACTCGGATCTATGAAAAAGTAGA
ATAAAAAATTCCATCATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCC
ATACCGTTTCTTTTTTTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCCCAAACATTTTACATACAGCTATTT
CAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAATAAATGTGTTTGTGCT

3905/5332
FIGURE 3404A

GGTGATTGTGTTGTTACAGTGCTGCTTGCTGAAGAGGACAAAGCTGAAGATGATGTAGTGTTTTACTTGGTATTT
TTGGGTTCCACCTCCGTCAGTGTACAAGTACTCGGAAGGTGAGTTCTGATACATTGGAGACCATTGCTCCTGGT
CATGATTGTTGTGAAACAGTGAAGGTGCAGCTCTGTGCTTCCAAAGAGGGCCTTCCCGTGTGTTGGTGGCTGAA
GAAGACTTTTCAATTCGTCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCAACCAGTGCTGGAAATCAGCAG
GCTTTGAACCTTTACCCGTTTTCTTGACCAGTCAGGACCCCCATCTGGGGATGTGAATCCCTTGATAAGAAGTTG
GTGCTGGCATTTCAGGCACCTGAAGCTGCCACGGAGTGAATGTATTGGGGACAGATCAGAGTTTGCATGATGCT
GGCCCGCGAGAGACATTGATGCATTTTGTGTGCGGCTGGGACTGCTGAGGTTGACGTGGTTCTGTTGCAGAAG
CCAGGTGGCCCGGAGCTCTCAGTATCCACAACCAGGAAGGGCGACGCCTGTGAGCTTGGCCTTGAGCGGAGGCT
ATCACAAGCTGCACCAGCTTCTAACCAGGAGAAATGCTGGAGAACCAGACTCCTGGAGCAGTTTATCCTATGAAA
TACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACATTAACCTCTGAGTCTGATTAC
ATCATGAACACCCATTTCTGGAGACGGTTCAGTGGACCAATTTTTAACTTATGAACATCCAACAGCAACTAA
TGAAAACAAACCTCAAGCAGATGGACAGTCTTATGCCCTTAATGATGACAGCACAGGATCCTTCCAGTGCCCCAG
AGACAGATGGCCAGTTTCTTCCCTGTGCACCGGAGCCCCACGGACCCTCAGCGACTTTCTTCTTGAAGAGACTG
AGAGCACTCAGTGCTGCCCAGGGAGCCCTGTTGCACAGACTGAAAGTCCCTGTGATTGTCAAGCATAGTTGAGG
AGGAGAATACAGACCCTTCTGTAGGAAGAAAAATAAAGGCGTGGAAAGAAAAGGGGAAGAGGTGGAGCCAGCAC
CTATTGTGGACTCTGGAAGTGTATCTGATCAAGACAGCTGCCTTCAGAGCTTGCTGATTGTGGAGTAAAGGGCA
CGGAAGGCCTTTCTGCTCTGTGGAAACAGAAATGAAGAACTGGAACAAAATCTTCTGGAATGCCACAGACCAGG
AGTCCCTGAGCAGTGGAGATGCTGTGCTTCAGAGAGACTTGGTCAATGGAGCCAGGCACAGCCCAATATTCTCTG
GAGGTGAAGTGGGAGGCATTTCAACAACAAATGTGAGTACCCAGACACTGCAGGGGAAATGGAACATGGGCTCA
TGAAACCCAGATGCCACTGTTTGGGAAGATGTGCTTCAGGGAGGGGAAAGTACAAAGGAAAGATTTGAGAAGTCTA
ATATTGGCACAGCTGGAGCCTCTGACGTGCACGTCAAGTAAGCCTGTGGATAAAATCAGTGTTCCAAACTGTG
CCCCTGTGCCAGTTCCCTGGATGGTAACAAACCTGCTGAGTCTTCACTTGCAATTTAGTAATGAAGAAACCTCCA
CTGAAAAACAGCAGAAACGGAACTTCACGAAGTCTGAGGAGAGTGTGATGCTCCAGTAGATCAGAATTCTG
TGGTGATTCCAGCTGCTGCAAAAGACAAGATTTAGATGGATTAGAACCCTTATACTCTCTTAGCAGCAGGCATAG
GTGAGGCAATGTACCCTCAGATTTAGCCCTTCTTGGGCTGGAAGAAGATGTAATGCCACACCAGAACTCAGAAA
CAAATTCATCTCATGCTCAAAGCCAAAAGGGCAAATCCTCACCCATTGTTCTACAAGTGGAGACGATAAATTT
GTGCAGACTTGCATGTCAACAGAACACAGTGACTTCTAGTGGCGATTGTTGTTGCAAACTGTGTGATAACATAG
TTAGCGAGTCCGAAAGCACACAGCAAGGCAACCCAGCTCACAGATCCACCCGATGCCTCCCACTGTGAAGACC
CACAGGCTCATACTACCTCTGACCCTGTAAAGGATACCCAGGAACGTGCGGATTTTGTCTTTCAAAGTGG
TGGATAACAAAGGCCAACGAAAAGATGTGAAACTAGATAAACCTTTAACAATATGCTTGAGGTGGTTTCACATC
CACATCCAGTTGTCCCTAAAATGGAGAAAGAACTGGTGCCAGACCAGGCAGTAATATCAGACAGTACTTTCTCTC
TGGCAAACAGTCCAGGCAGTGAATCAGTAACCAAGGATGACGCACTTCTTTGTCCCTCCAGAAAGAAAAGG
GAACAGCAACTCCTGAACTACATACAGCTACAGATTATAGAGATGGCCAGATGGAAATTCGAATGAGCCTGATA
CGCGGCCACTAGAAGACAGGGCAGTAGGCCTGTCCACATCCTCCACTGCTGCAGAGCTTCAGCACGGGATGGGGA
ATACCAGTCTCACAGGACTTGGTGGAGAGCATGAGGGTCCCGCCCTCCAGCAATCCAGAGCTCTGAATATCA
AGGGGAACACTGACTCTTCCCTGCAAAGTGTGGGTAAGGCCACTTTGGCTTTAGATTGAGTTTGGTGAAGAAG
GAAAACCTCTGGTGGTTTCAGAAAGCTCTGCAGCTCAGGAACAAGATAAGGATAAAGCGGTGACCTGTTCTCTA
TTAAGGAAAATGCTCTCTCTTCAGGAACCTTTCAGGAAGAGCAGAGAACCACCTCCTGGACAAGATACTCAAC
AATTTTCATGAAAAATCAATCTCAGCTGACTGTGCCAAGGACAAAGCACTTCAGCTAAGTAATTCACCGGGTGCAT
CCTCTGCCTTTCTTAAGGCAGAACTGAACATAACAAGGAAGTGGCCCCACAAGTCTCACTGCTGACTCAAGGTG
GGGCTGCCCAGAGCCTGGTGCCACAGGAGCAAGTCTGGCCACAGAGTCAAGGCAGGAAGCCTTGGGGCAGAGC
ACAACAGCTCCGCTCTGTTGCCATGTCTGTTGCCAGATGGGTCTGATGGGTCCGATGCTCTTAAGTGCAGTACAGC
CTTCTCTCTGGATGTTGGAGTGAAGAACACTCAATCCAGGGAAAAACTAGTGCCTGTGAGGTGAGTGGAGATG
TGACGGTGGATGTTACAGGGGTTAATGCTCTACAAGGTATGGCTGAGCCAGAGAAGAGAGAATATATCACACAACA
CCCAAGACATCCTGATTCCAAACGTCTTGTGAGCCAAGAGAAGATGCCGTTCTAGGTTTGGCAGTGCTCTAC
AGGACAAAGCTGTGACTGACCCACAGGGAGTTGGAACCCACAGAGATGATACCTCTTGATTGGGAGAAAGGGAAGC
TGGAGGGAGCAGACCACAGCTGTACCATGGGTGACGCTGAGGAAGCCCAAATAGACGATGAAGCACATCCTGTCC
TACTGCAGCCTGTTGCCAAGGAGCTCCCCACAGACATGGAGCTCTCAGCCCATGATGATGGGGCCCCAGCTGGTG

3906/5332
FIGURE 3404B

TGAGGGAAGTCATGCGAGCCCCGCTTCAGGCAGGGAAAGGAGCACTCCCTCTCTACCTTGTCATGGTCTCTGCCC
AGGACGCACCTCTGCCTAAGGGGGCAGACTTGATAGAGGAGGCTGCCAGCCGTATAGTGGATGCTGTCATCGAAC
AAGTCAAGGCCGCTGGAGCACTGCTTACTGAGGGGGAGGCCTGTCACATGTCAGTGTCCAGCCCTGAGTTGGGTC
CTCTCACTAAAGGACTAGAGAGTGCTTTTACAGAAAAAGTGAGTACTTTCCACCTGGGGAGAGCCTACCAATGG
GCAGTACTCCTGAGGAAGCCACGGGGAGCCTTGCAAGATGTTTTGCTGGAAGGGAGGAGCCAGAGAAGATCATT
TACCTGTCCAGGGGCTGAGCCAGCAGCAGAAATGCCAGACGTGAAAGCTGAAGATGAAGTGGATTTTAGAGCAA
GTTCAATTTCTGAAGAAGTGGCTGTAGGGAGCATAGCTGCTACACTGAAGATGAAGCAAGGCCCAATGACCCAGG
CGATAAACCGAGAAAACCTGGTGTACAATAGAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCC
CAGAATGTGAGAACTTCCTGGATGTTGGACTGGGCAGAGAGTGACCTCAAACAAGGTGTACTTAAAGAGAAT
CTGGGAGTGATTCTGACCTCTTTCACTACCCAGTGATGACATGGACAGCATCATCTTCCCAAAGCCAGAGGAAG
AGCATTTGGCCTGTGATATCACCGGATCCAGTTCATCCACCGATGACACGGCTTCACTGGACCGACATTCTTCTC
ATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCCAAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCT
ACAGCCATGGGATGGGAGCTGAGGGTCGAGAAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGG
AGATGGACAGTATCACTGAAGTGCTGCAAACTGCTCTGTCTTAAGGAGCTCCATGCGCTCTCTTTCTCCCTTCC
GGAGGCACAGCTGGGGGCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCACCGAGTATGAGCTGGTGCC
CCTCTGGTGTGCAGTACTCTGCTGGCCTGAGTGCTGACTTTAATTACAGAAGTTTCACTCTAGAAGGCTTGACAG
GAGGAGCTGGTGTGCGAAACAAGCCATCCTCATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAGCTCAGACACC
CATTCACTGGTGAGGAACGGGTTGACTCTTTGGTGTCACTTTCAGAAGAGGATCTGGAGTCAGACCAGAGAGAAC
ATAGGATGTTTGATCAGCAGATATGTCACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCAGCCATTTCT
CTCCATTGACAAAATCCATCTCATTAATGACAATCAGCCATCCTGGATTGGACAATTCACGGCCCTTCCACAGTA
CCTTCCACAATACCACTGCTAATCTGACTGAGAGTATAACAGAAGAGAACTATAATTTCTGCCACATAGCCCCCT
CCAAGAAAGATTCTGAATGGAAGAGTGGAACAAAAGTCAGTCGTACATTCACTACATCAAGAATAAAATGTCTA
GCAGCAAGAAGAGCGAAAAGGAAAAAGATAAGATTAAGGAGAAGGAGAAAGATTCTAAAGACAAGGAGA
AAGATAAGAAGACTGTCAACGGGCACACTTTCAGTTCATTCTCTGTTGTGGGTCCCATCAGCTGTAGCCAGTGTA
TGAAGCCCTTACCACAAGATGCCTATACTTGTGCAAATTCAGTGCTTTTGTCCCAAAGGCTGCCGAGAAA
GTCTAGCCCTCCTGTGCAAAGGTCAAATGAAGCAGCCCAAAGGGAGCCTTCAGGCACATGACACATCATCTGC
CCACGGTCATTATGAGAAACAAGCCCTCACAGCCCAAAGGAGCGTCTCGGTCCGAGTCTCTCTGGTGGATGAAA
CCGCTACCACCCCAATATTGGCAATAGACGATCCCAGCAGAGTGCTCGCTCTCCAAAAGTGTCTCCATACAGA
ACATTACTGGAGTTGGCAATGATGAGAACATGTCAAACACCTGGAAATTCCTGTCTCATTCAACAGACTCACTAA
ATAAAATCAGCAAGGTCAATGAGTCAACAGAATCACTTACTGATGAGGGAGTAGGTACAGACATGAATGAAGGAC
AACTACTGGGAGACTTTGAGATTGAGTCCAACAGCTGGAAGCAGAGTCTTGAGTCCGATAATAGACAGCAAGT
TTCTAAAACAGCAAAAGAAAGATGTGGTCAAACGGCAAGAAGTAATATAGATTGATGCAGACAGAGTTTCATC
ATGTCCGCACTCTCAAGATCATGAGTGGTGTGTACAGCCAGGGGATGATGGCGGATCTGCTTTTTTGAGCAGAGA
TGGTAGAAAAGCTGTTCCCTGTTTGGATGAGCTGATCAGTATCCATAGCCAATTCTTCCAGAGGATTCTGGAGC
GGAAGAAGGAGTCTCTGGTGGATAAAAGTGAAAAGAACTTTCTCATCAAGAGGATAGGGGATGTGCTTGTAATC
AGTTTTTCAGGTGAGAAATGCAGAACGTTTAAAGAAGACATATGGCAAGTTTTGTGGGCAACATAACCAGTCTGTAA
ACTACTTCAAAGACCTTTATGCCAAGGATAAGCGTTTTCAAGCCTTTGTAAAGAAGAAGATGAGCAGTTCAGTTG
TTAGAAGGCTTGGAAATCCAGAGTGATATTGCTTGTAACTCAGCGGATTACCAAGTACCCAGTTTTATTCCAAA
GAATATTGCAGTGTACCAAAGACAATGAAGTGGAGCAGGAAGATCTAGCACAGTCTTGAGCCTGGTGAAGGATG
TGATTGGAGCTGTAGACAGCAAAGTGGCAAGTTATGAAAAGAAAGTGCGTCTCAATGAGATTTATACAAAGACAG
ATAGCAAGTCAATCATGAGGATGAAGAGTGGTCAGATGTTTGCCAAGGAAGATTTGAAACGGAAGAAGCTTGATC
GTGATGGGAGTGTGTTTCTGAAGAATGCAGCAGGAAGGTTGAAAGAGGTTCAAGCAGTCTTCTCACTGACATTT
TAGTTTTCTTCAAGAAAAAGACCAGAAGTACATCTTTCATCATTTGGACCAGAAGTCAACAGTGATCTCTTTAA
AGAAGCTGATTGTGAGAGAAGTGGCACATGAGGAGAAAGGTTTATTCCTGATCAGCATGGGGATGACAGATCCAG
AGATGGTAGAAGTCCATGCCAGCTCCAAAGAGGAACGAAACAGCTGGATTGAGATCATTAGGACACAATCAACA
CCCTGAACAGAGATGAAGATGAAGGAATTCCTAGTGAGAATGAGGAAGAAAAGAAAATGTTGGACACCAGAGCCC
GAGAATTAAGAACAACCTTACCAGAAGGACCAAAAAATCCTACTCTGTTGGAAGAGAAGGAGATGATTTTCC
GGGACATGGCTGAGTGCAGACCCCTCTCCAGAGGATTGCTCCCAACACATAGCCCTAGAGTTCTCTTCCGCT

3907/5332
FIGURE 3404C

CCAACACAGAAGAGGCTCTCAAAGGAGGACCTTTAATGAAAAGTGCAATAAATGAGGTGGAGATCCTTCAGGGTT
TGGTGAGTGGAATCTGGGAGGCACACTTGGGCCGACTGTGAGCAGCCCCATTGAGCAAGATGTGGTCGGTCCCG
TTTCCCTGCCCCGGAGAGCAGAGACCTTTGGAGGATTTGACAGCCATCAGATGAATGCTTCAAAAGGAGGCGAGA
AGGAAGAGGGAGATGATGGCCAAGATCTTAGGAGAACGGAATCAGATAGTGGCCTAAAAAGGGTGGAATGCTA
ACCTGGTATTTATGCTTAAAGAAACAGTGAGCAGGTTGTCCAGAGCGTTGTTTCATCTCTACGAGCTCCTCAGCG
CTCTGCAGGGTGTGGTGCTGCAGCAGGACAGCTACATTGAGGACCAGAACTGGTGCTGAGCGAGAGGGCGCTCA
CTCGCAGCTTGTCCCGCCGAGCTCCCTCATTGAGCAGGAGAAGCAGCGCAGCCTGGAGAAGCAGCGCCAGGACC
TGGCCAACCTGCAGAAGCAGCAGGCCAGTACCTCGAGGAGAAGCGCAGGCGGAGCGTGAGTGGGAAGCTCGTG
AGAGGGAGCTGCGGGAGCGGGAGGCCCTCCTGGCCCAGCGGAGGAGGAGGTGCAGCAGGGGCAGCAGGACCTGG
AAAAGGAGCGGGAGGAGCTCCAGCAGAAGAAGGGCACATACCAGTATGACCTGGAGCGACTGCGTGCTGCCCAGA
AACAGCTTGAGAGGGAACAGGAGCAGCTGCGCCGGGAGGCAGAGCGGCTCAGCCAGCGGCAGACAGAACGGGACC
TGTGTGAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCTTGAGGAGCCCCCT
CGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTCAGTGTCCCCAAAAAGGAACAGCA
TCTCTCGGACACACAAAGATAAGGGGCCCTTTTACATACTGAGTTCAACCAGCCAGACAAACAAAGGACCAGAAG
GGCAGAGCCAGGCCCTGCGTCCACCTCTGCCTCTACCCGCTGTTTGGGTTAACAAGCCAAAGGAAAAGAAGG
AGAAAAAAGAAGAACAACAGCCGCTCTCAGCCCGGTGATGGTCCCGCTCAGAAGTATCAGCAGAGGGTG
AAGAGATCTTCTGCTGACCCCTCTTCTCTCTGCTGAGGCAGCTGCCTCCTGATCCTGGCCAGCCACCTCTCTCTG
CTGTCCCCGCGTGACAAAGTCTCTTACACTGGACGCCACTGCTCCTCAGCGTCCAGTCTCTCTGGGCGGCCCA
GGTCTTGACAATAAGCAACAGATGATATTGAGTGTGCGGTGGGAAGGAGGCCAGACTCTGCTTCGGCCATGA
TTTGTGACTGCCAGGACTCTCAGGTTGGGCTGGCCCTACTCAGGATTACACTGAAAGTAATGGCCTCGTAAGTA
CAGGTGATGGTTTTGGACACGTGAGGAATTCCTAAAGGCTGAAAGAGTGTATCCAAGTAAGGTCTGAACCTCCGA
ATGCCTTTTATTTGGGGGAACACAAAACCAACAGCAGATGTTTGGACTTGATCTGTGTACGTACATGGGGACC
TGTCTGCATATACACACGGGGAATGCCAGAAGAAGGCCAGTCTGCACCAGGCGTCTGGTCAACTTAGCACAAGG
GCAGTGCTTGACGGACCCCGGAGCCCCCGCATATCAGCAGTTACCCAGTACTCCTCAGAGACTGGTTTTCCCTCT
AAACCCATCCCGGGCACATACCACCCGTGTTTTGCATGTATTTCTCATTTTATTTAGGGATGACAAACATTTGT
GAAACCAAGTGAGAGAAGGCTTGATGTGTATAAAGACGTGATGTGCACCACCTCGATCTCGGTGTTTCAGGCACT
AAAGCAACAAAAACAACCATAGTATCTCATTCTGTATCAGATCCAGAAGAAATATCCTGGTTTTCCAGCATGTT
TACCCACATGTTTTGGCCATGGATAAAGTGAAGAGGCCCTACTCACCATTATCCCTGCAGCGTGACACCTTTTGAT
TGTCACTGACCACTCAGAAGGGGCCACGGCCTCCTGGCTGTGTTTCTGAGCCCCCGTCTGCTCTCTCCAGACAG
CAGCTGTCTGGCCCTTGCTGGGTGAGGGCACACCACTGCCAGGGGTGAGCCTCGCACCCAGGCCAGGCAGAAGCT
GTGCTCTGAAGCTAGGACAGCTGGCTGAGAAGTGGGTTGAGGCGAAGGGTGAAGCCATGTGTAGCAGTTCTGCTG
AGTGCAGATCTGGAGAGGAGCTGGCCCGGAAGGCGTGGTTGTGAAAGCGCCCTTCTTATGTTAGGAGGCCCTGGC
AAAATTGGATTTCTTCAAAAATACATGTAAAGGTCTGTTGTTGAATTGACTCTGCCCCTGGAAGCAGATACAGA
TGGCTGCTGTGCTCGGCTTTGCTTTTGTCTTTTCCACCGTGTTTCATCTTTGTTCACTTGAGGCTTTCCCA
GCTGGTGTGTGACAGGACAGTTATGGTAATGTTGCCCTCTGAGGCCCGTACACCAGAAGGGAGGCCCTGGAAAA
TTTTGTGCTTCCAACGTGGCCTTCAATCTTGCTTTTTTGGCCCTCGGAAGCATGGGGCTTTTGAGCACACTTAA
AAAAAGAAAA

3908/5332
FIGURE 3405

GGGCGGGAAGGCCGGAGAACTAGTTTGTGGCGGCGCTAGGCTGTATCGCAGCGAGAGCGTTTTTGCCTGTGG
AGAGCCGGCCGACGGGAGCCGCGGCGGAGCCTGTTGAGCTCGCGCGGGCTGCCGGGAGTGGTCTCTGAGGCGGCG
GCGGCGGCGGGGATCGTCTCCGGCACTGACGCACCATGTCGGTCACTGTCCATGAGACCCGCAAGTCGCGGAGCA
GCACGGGGTCCATGAACGTCACCCCTCTTCCACAAGGCCTCCCACCCGGACTGTGTGCTGGCCCCACCTCAACACGC
TTCGCAAGCACTGCATGTTTACCGACGTCACACTCTGGGCGGGCGACCGTGCCTTCCCTGTACCCGTGCCGTGC
TGGCCGCTCTAGCCGCTATTTGAGGCCATGTTTACGCCATGGCCTTCGGGAGAGCCGGGATGACACTGTCAACT
TCCAGGACAACCTGCACCCGGAGGTGCTGGAGCTGCTGCTGGACTTTGCCTACTCCTCACGCATCGCCATCAACG
AGGAGAACGCTGAGTCACTGCTGGAGGCAGGCGACATGCTGCAGTTCCACGATGTGCGGGATGCTGCCGCCGAGT
TCCTGGAGAAGAACCTTTTCCCTTCCAACTGCCTGGGCATGATGCTGCTCTCGGACGCCACCAGTGCCGCCGGC
TGTATGAGTTCTCCTGGCGCATGTGCCTGGTGCACTTTGAGACGGTGAGGCAGAGCGAGGACTTCAACAGCCTGT
CCAAGGACACACTGCTGGACCTCATCTCGAGTGATGAGCTGGAGACCGAGGACGAGCGGGTGGTCTTCGAGGCCA
TCCTCCAGTGGGTGAAGCACGACCTGGAGCCACGGAAGGTCCACTTGCCCGAGCTCCTCCGACGCTGCGTCTGG
CCTTGCTGCCGTCCGACTGCCTGCAGGAGGCCGTCTCCAGCGAGGCCCTCCTCATGGCAGACGAGCGCACCAAGC
TTATCATGGATGAGGCCCTGCGCTGCAAGACCAGGATCCTGCAGAATGATGGCGTGGTACCAGCCCCCTGTGCC
GGCCACGCAAGGCGGGCCACACGCTACTCATCCTGGGGGGCCAGACCTTCATGTGTGACAAGATCTACCAGGTGG
ACCACAAGGCCAAGGAGATCATCCCCAAGGCCGACCTGCCAGCCCCCGGAAGGAGTTACAGCGCTCAGCGATCG
GCTGCAAGGTCTATGTGACGGGGGGCAGGGGCTCCGAGAACGGGGTCTCCAAGGATGTCTGGGTGTACGACACCG
TACATGAGGAATGGTCCAAGGCGGCGCCCATGCTGATTGCCCGCTTTGGCCATGGCTCAGCTGAGCTGGAGA
GCCTCTATGTGGTGGGGGGACACACATCCCTGGCAGGGGTCTTCCCGGCCCTCGCCTTCTGTCTCCCTGAAACAAG
TGGAGAAATACGACCTGGGGCCAAAGTGGATGATGGTGGCCCCCTTGCGGGATGGCGTCAGCAATGCCGCAG
TGGTGAGTGCCAAGCTGAAGCTCTTTGTTTTCGGAGGAACAGCATCCACCGGACATGGTGTCCAAGGTCCAGT
GCTATGACCCCTCGGAGAACAGGTGGACGATCAAGGCCGAGTGCCCCCAGCCTTGCGGGTACACAGCCGCTGCCG
TCCTGGGCAGCCAGATCTTCATCATGGGAGGTGACACGGAATTCACAGCCGCCTCGCCTACCGCTTTGACTGTG
AGACCAACAGTGGACGCGGATTGGGGACATGACTGCCAAGCGCATGTCTGCCATGCCCTGGCTTCCGGCAACA
AGCTCTATGTGGTGGGGGGTACTTTGGGACCCAGAGGTGTAAGACTCTGGACTGCTATGACCCCACTTCAGATA
CATGGAATGCATCACCACAGTGCCCTACTCACTTATCCCCACGGCCTTTGTGACACCTGGAAGCACCTGCCCCG
CGTGAGGAGCACCTGCTGAGCCAGCCAGACCGCGGCCCTTCAGTGTACAGCGTGGCCTTGCTTGTCTGCCACAG
CGGGAGCTAAGCCGGCCCTGGGCCAGCACTCCGAGAGGTGGAAGGGGCCCTGCCAGCTCTGGGGAGCAGCAGCCT
TGGGCTGTTCTGAGCTTTAGGCAAGAGAAGAGAAGCATCTCTTGATCCGTGCCCTGGGGGCCCTCTCAGCTTT
GCAGTGGTTTTGTGGGAAGACATACCTCCAGAGGGGCATGGACTGCCACCAGGACTGACCTTGCGCTCGGGGAGA
AGGACACTTGCAGAGCCTTGAGATCACTGTTTGGCAGGTCTTGACTGGGGCCGGGAGGCAGGGGCGAGGAGG
CGCCCCGGGTGGGCTTTGGGGCTGCGGCACTGCCACACATCCTTTCCCTCCTGGCCTGCCCTGCTGGGGCTCTAC
TGCCATCTATAGATGGTGTCTTGGGCTGGGAACTAGGTTCCAGGGGTTGAGACCAGAAAGGTGACCAAGACA
GATTTTTTAAGGTGCAGAACTGCAGGGGGGCCCTCAGTGACATCCATGAGGCCTTATTAGCAAAGGACACCCAGA
CCTCCAAGGTTTGTGGGCCCCCTCCACAAAGCTGTAAGTCCAGCCACCTACTCAGGGCCTTGCTCAGTGCTGT
GGCCCGGTGGGGACACAGTTGCTCGTGGCCACTCAGTGAGCTGGGCCTGCAGCAGACTCAAGGCTCCGAGTGCC
CTGGGGGTACCCCTCCCTCCCTCCTCAGAGCCACCTGAGAGGCAGCAGTGACCCCATGGCACACACCTG
CCAACAGCACTGGGGGCTTCTCCCCAGGAGACCAGCTGCCCTCCAAGACCAGGAGCAGCTGTGAGCTGGAGACA
GCAGAGGGACCCCAAGGTGTCCCTGCAGATCCCACAGGGCCGCATCCATCTCAGTGTGGAGGACAGTGACGGG
ACCCTCACCATCCTCTTGCGTTTTGGCCCCCATTTGCTCCCTGAGCTCCAAGATAAGAATGGCCCCGAGAGAACT
GCTGAACATTTGTTTATTGCTGTACCTCCTGAGTCACTGGGGTCCCTCACCAGCACCTCCCTGACACCTGGGCT
ATGGAGAGGTTGGCGCCTGTGAGTACCATCCTAATGCCTCTCGCTCACTCCCAAGCCACCATTTGAGAGGGAGG
GGTGTGGTGCCCTGACAGGGACTGGGCAGGGTGTCCAAACTTGGGGCTTCCAGGCACCTGCAGTGTGAACACT
GCTTGGCTGGCTCAAGATTAGGGCCGCGAGGGGGCTGTGCACATACCAGTTACTTAAGCAGCCACGAGTGTCCC
CCATGCCTTGGTGCGGTCTTGAGGCTCTTGGGGGTGGGACCTTTGGGCGGGGTTTGCCCACTGACACGCCCG
CCATGGGGCACTGGCTGCATGGGGCTCCTTGGACCCTGTAGACCCAGCAGGAGCCTGGCCGCGGGGACTGCAGGG
AGGGTGCCTGGACCCGTGGGGTTGCTTCATTGAGATAAAGCACACTTATCACATAGCACAAAGGACGTGCCATGG
TGCTTTCCCAAAAGTTGTGTTGCTTTTATCAGTTTTCTAACTTAATAAAAAGAGTTGAG

3909/5332
FIGURE 3406

GAAAAACAAAAGAATCTTTGTTTTACCCCGAAAGAGAGGCAGAGGCAGAAAGTCTTCTTCTGCTTTTTGCATCT
CTAAGAGGCTGAAAAAGAGAAATGGAAGTGCTGGGGCATTGTCAGGGCAGTAATGGATATTTGGAGTTGGCAC
TTCCCTCAGCTAGAGGAGTCTCAGTGTGTCTGAGAAAATGGCAGTCAGCCATCCAGGATTTAGGAGCAACGCCA
CTGCTCTGTGCCACATCAGAAATCAGGCATGGCCCCAACCTGAAGGAACTTGTAGCTTAATGGGGAAGCACACCA
AGAATAAAAGAGCCTCCAGAACATGTGGTGCCTGTGGTCTGAGACAGCAGGAAATGGCTCTCAGGCCAGAGTTG
CTGGAAGAACCCATGTGGCAGGATCGGTGGGAGGCAGTTACAGAGGGAAACGCCCATCCAGCAACTAGGGGAGG
CCGCCACTCCTCTCGTGGATGGATGATATTCTTGCTTGGGGATGTTGAGACAGCTGCACTCTGCATAGTTCTGA
TTTGCCTCTCTACTGCTGATGAAAAACCTCTCTTTCTCTATAGCTGCTGCTTATATTGGAAGGCTTTTGTTATT
CAGCACACTCACTCCTGAGCTTATTTAGTGATATTCCTTGTTATTTGAAACATGGATGCTTGTGGCAGATGG
AGAGCCTGGGTGTACACAGATCTGCCTGTGTTTTGAAATGCATACCATGTTGCCGTTTGTGTTGATTGATTGATCT
TGGACCACGAAAGAAAATTATACTGACAGCTTCCAGGGTAGGGGGCAGTTGTAGCTTCTGTCAGATGTTGCCAAA
TATATTGGGGGTGGGGAGCAGCAATGCCATGTGTTGCTTTTTATGACATAAGGAGGGATTCCACCCCCATCCCA
ATAAAATCGGTGCTTTGACAAAGGAGGGTTCAGGCAGCTAAGAGAACCCAGAGTAGATGATCCTCTTTATCTC
TGGTTTAACCTGTGACTAGGATTCTTGGTGTAAGCTCGGCTTTTCCACTTATCCTCTAACCAGGACAGGCTTCTA
TAATCTCTTTGCCTTAAATAATTATCTGCATCCCTGTGTAGAGCAATCTTAAGCAGCTCTCCTTGTTTCTTCAG
GGAATGGGAATTCTTTCTAAGTCGCCCCATCAAAGGTACTATTGGTTTTTTACAACGCCGGCGTTTGTGTATGT
AGTAAAAGTATTAACAGCATTAAAGGCGATATTTTAAATGTTTATAGATACTACTTGGGGGAGGGCAGCTAAT
GAAACCTTCAAGCTCTATGCAGTCCACAGACGTGAGCTCTGTAGAGTTCGCAGAGGTGGGTAAGTACCCAGCCAG
CACACCCAGTTGAATTCAGCCAGGATTTATTGAGTTGGCATCACGGACGCTGACAGCCTCCAAGTGAAAACCTT
CTCTTGAATATGTACAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCCTGAGG
AGCCCCCTCGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTCAGTGTCCCCAAAA
GGAACAGCATCTCTCGGACACACAAAGATAAGGGGCCTTTTACATACTGAGTTCAACCAGCCAGACAAACAAAG
GACCAGAAGGGCAGAGCCAGGCCCTGCGTCCACCTCTGCCTCTACCCGCTGTTGGGTTAACAAAGCCAAAGG
AAAAGAAGG

3910/5332
FIGURE 3407A

CTTCCAGTCTCTGCTGATGTGATTTTCAGATGGGCGGGCTCCAGACCATCCCTGCAATGGCCAGTTACGCAGCC
TCTCCGAGCCACTGCCTCTCTGTGGAAGGAGGGCCTGAGGCTGACGGGGAGCAGCCGCCTCGCTTGCCACTCTG
GGACCTGGGGTGATGGAGGGTGACGCGGAGACTGACCAGGAGGCTCTGTGTGCAGGGGAGACTGGGGCCAGAA
CCACCTGGAGATCGGATGCTGTGTCCAGGGAGGATGGATGGTGCAGCTCTGGGGGAACAGCCAACTGGGCAGAA
GGAGCCTCGGCAAGGGGGTTCTGGGGACCAAGAGAGACCAAGGCGTTGGGTGTGTGCAAAGAGTCTGGGAGCGAG
CCTGCGGAGGACAGCAGCAGGGGCCACAGCCGATCAGAGGAAGGTGTCTGGGAGGAGAACACGCCCCCTTGGGC
CCCCCTGGGTTTTCCCGAGACTTCCAGCTCTCCGGCGGACAGCACCACCAGCAGCTGCCTCCAGGGCCTCCCGGAC
AACCCAGACACCCAGGGTGGAGTCCAGGGGCCTGAAGGCCCACTCTCTGATGCCTCTGGCTCCAGTGCCAAGGAT
CCTCCAAGCTTGTTTATGATGAGGTCTCTTTCTCCAGCTCTTCCCTCCAGGCGGTGCTTGACTAGAAAGAGG
AACCCGCATGTCTACGGGAAGCGCTGTGAGAAGCCGGTGCTCCCGCTGCCAACCCAGCCAGCTTTGAGGAGGGC
GGTGACCCACGCTGGGGCCAGCCCGCTGCCACGGACCTCAGCGACTCCAGCTCCCTCTGCCTCTGCCATGAG
GACCCGTGGGAGGACGAGGATCCCGCAGGTCTGCCGAGTCTTCTCTCTGGATGGGTCTCTCAATAGCAGGGTG
CCTGGCATTGACCCCTGGGCCCCCGGCTCAGCCTGTGGGCCCTGGAGCCAGCAGGGAAGCTGGTGCAGAGAAG
CTGCCCTCCCACTGCCCGAGGACGATCGGCCGGAGGCCATTCTGAGCTGCACATGGTCCCAGCGGCTTGGCGA
GGCCTGGAGATGCCGGCCCTGCCGATGACTCTCTCTTCTCTCGGAGATGTGAGCCCCGAGCCCCCAGCCTG
GAGAGAGAACGCTGTGACGGTGGGCTTCCCGGAACACCCACCTGCTGCCGCTCCGTGCCACGGACTTTGAGGTG
CTCAGCACCAAGTTTATGATGCAAGACCTGTGCTTTCTGGGACCTTTGAAGACCCCGTGGGTCTCCCCGGCCCC
AGCTTCTTAGACTTCGAGGGCACGGCGAGCTCACAGGGGCCACAGAGCCGAAGGACAGAGGAGGCTGCAGGGGCA
GGGAGGGCCCAAGGCAGAGGGCCGGCCGGCCAAGGGCAGGCGGGCTCTTACAAGTGCAAAGTGTGCTTCCAGCGC
TTCCGCAGCCTGGGCGAGCTGGACCTGCACAAGCTGGCCACACGCCCCGCGCCGCCGCCACCTGCTACATGTGC
GTGGAGCGCAGGTTTGGCTCGCGGGAGCTGCTGCGGGGGCACCTGCAGGAGAGGCACGCGCAGAGCAAGGCCGGG
CCCTGGGCGTGCGGCATGTGCTGAAGGAGGTGGCCGACGTCTGGATGTACAACGAGCACCTGCGTGAGCACGG
GTCCGCTTCGCCCCAGGGGGCAGGCGCGGAGGTCTTGGGGACCTGCCCGGAGGCCTGGAGGGCAGCAGCGCT
GTCGCCCACCTTCTGAACAGCATCACGGAACCCGCGCCAAACACCACAGGGGCAAGCGCTCCGCCGGCAAGGCC
GCCGGGAGCCCCGGGAGACCCGTGGGGGAAGAGGGAGAAGCCAAGAAAGACAGCCCGGGCGAGAGGGCGAAACCC
CGGGCACGCAGCACCCCCAGCAACCCAGACGGGGCCGCGACCCAGACAGCGCCTCTGCCACCGCCCTGGCTGAC
GCCGGCAGCCCCGGGCCCCCCCCAGGACGACCCCCAGCCCGTCCCCCGACCCCTGGGCCGGCGGGGAGCCCTCCTG
CAAGCCACCCCGGTGCACGAGGCCTGCAAGGACCCCTCCCGCGACTGCCACCACTGCGGGAAGCGCTTCCCCAAG
CCCTTCAAGCTGCAGCGCCACCTGGCGGTGCACAGCCCGCAGCGCGTCTACCTGTGCCCCCGGTGCCCGGGGTC
TACCCCGAGCACGGGGAGCTGCTGGCACACCTGGGCGGGGCGCACGGGCTGCTGGAGCGGCCGGAGCTGCAGCAC
ACGCCGCTGTATGCCTGCGAGCTCTGCGCCACGGTTATGCGCATCATCAAGAAGTCTTTCGCTGACGCTCTCTGC
AACTACACCTTCGCAAGAAGGAGCAGTTTCGACCGCCACATGAACAAGCACCTCAGGGGGGGGCGGCAGCCCTTC
GCGTTCGCGGGCGTGCGGAGGCCGGGAGCGCGGGACAGAAGGCCCGGGCCCTCGAGGGCACACTGCCAGCAAA
CGGCGCAGGGTGGCCATGCCCGGCACTGCCCTGGGCCCCGGCGAGGACAGGCCTCTCTCCCGGGGAAGCAGCCCC
ATCTGAGTGAGGGCTCTCTCCCGGCCCTGCTCCACCTGTGTTTCGGAGGTGGCTCCAGCACCAAGGGATGG
CCCGAGACCCTAGAGAGGCCTGTAGACCCCGTGACCCACCCGATCAGAGGTTGTGAGCTGCCATCCAACCACAG
GAGTGTCCCCCGCGTCTCTGTCTCCCTTCCCAGCTGCCTTGGCTGATGGCAGAGGAGACTGCGCGCTGGACGGA
GCCCTGGAGAGGCCAGAGAACGAGGCTTCCCAGGCAGCCCCGGGCTCTTCTCCAGCAAGCTCTCCCTCTGGGG
GCATCTCTGCCGCGGCCGGGAGCCAGAGGCCAAGATGCGGAGGGAAAGAGGGCTCTCTCGTGTCTCAGGGAAA
CGCAGGGCCCCGGGTGCCCGTGGCAGGTGTGCCCTGACCATTTCCAGGAAAGACCCTACTTCAGAAAGAGAAG
GAGGTGTCTTCAAGCCACATGCTGTCTGAGGGGGGGCCCCGAGGCACCTTCCACAAGGGCAGCGCCACCAAGCCT
GCGGGCTGCCAGAGCTCATCAAAGGACAGGTGCGGAGCATCCACCCCCAGCAAAGCACTCAAGTTCCTCAGTGCAC
CCAAGGAAGGCGGTGGGGAGCCCTGGCACCCGGGAGCTGGCCCGTGGCACAGAGAATGGGATGAAGCCCGCCACC
CCCAAAGCCAAACCCGCCCCAGCTCCCAGGGCAGTGGAAGCCCTCGCCCCGGCACCAAGACAGGAGTGGCAGC
CAGCCCCAGCCAGCCAGCGGGCAGCTCCAGAGCGAGACAGCCACCCAGCCAAGCCAGCTTCCCGAGCCGG
AGCCCTGCACCAGAGAGGCTCCCCGCTCAGGCCAAAGCCAGAGCTGCACCAAGGGGGCAAGGGAAGCTGGTGAG
CAGGGGGCCCCACGGGAGCCTAGGTCCCAAGGAGAAGGGAGAGCAGTACGAAGAGGAAAAAGGGCCAGGTCCCA
GGGCCAGCCAGGAGTGAAAGTGTGGGGAGCTTCGGGAGAGCCCCCTCAGCCCCCTGACAAGCCCCCCCCGAGCCCT

3911/5332
FIGURE 3407B

CGGAAGCAGGCAACTCCCAGCCGCGTGCTCCCGACCAAGCCCAAGCCCAACAGCCAGAACAACCCAGGCCGCCA
CCATCAGAGCAGCGGAAGGCAGAGCCGGGCCACACACAGAGGAAGGACAGACTGGGCAAGGCCTTCCCCAGGGG
AGACCCCTGCTCAGGCCCCCAAGAGGGGCACAGCTGTCCACGGTGCTGAACCTGCCGAGCCACACACCCACCGG
ACGGCCGAGGCCAGAGTGACCTCCTCAGCCAGCTCTTCGGGCAGAGACTAACTGGCTTCAAAATCCCTTTAAAG
AAAGATGCTTCCGAGTAATTTCTAGGAGCAAGAGCCTGGGACCGGAGCTGGGCGTTCCTGTCTCGGCCTGCCTCC
TTGGCCAGCTCCGGCTCCCTGAGATGGTCCACTCTGTGGCCACTTGACTTCTTGTGCAACTGCTCAGGCCTTGAT
GTCAGAGCTGAGGTGGTGATGCTTTGAACAGGGCCCAGGTGGGCAGCATTCCCTTTCTTGCTGGAAGGCTGGGGG
TGAAAGACGGGGCCACTGCAGCCCTTTTGAGACCACACAGCTGTTTTCTTGGTACCAAGTACTTGAAGAGACAGC
AGCCCATCCCTCAGCCACACCCCTGCGCCCTGTGGGCACCGACACCACAGAAGCCAATGTTTGGAGATTGCA
CAACCTCCCGTTCCCCCACATGGAGAAGGGAAGTAAGTTGAGGCAGCCGTGGGATGGTGGTAGGTTCCCTCTTAG
TCTTGCTGCTGTTGCTGGAAATCCAAAGTGACCTTAGAAACCACGTGGGGGAAGGCAGTGCTCACTACTTAGAAG
GGTTGCTTCTGAGCCGCCTGGTCCCCCAAGAGCACAAACAGGCCTCCTCCCTCTGACCACAGGGTCATGCCTCCTC
CCTCTGACCACAGGGTCATGCCAGCCTCCATTTGCTCTGCGGGAGAAAAGCCCATCTCTAGCACACCTTGACCCC
AGGAACCGGGTTCCCGTATGGAAGTGGGAAGAAACCGCCCTGTGCCAGCTCCCGCGGGCCCTCCTCGTTCCCTC
CCAGCCTCCATGGCGCCCTCTAGAGCCTCCCTGCTGTACGGAGCTCTGGGCTCCGCCTATTTGCAATGTTACTC
TGAAGTTTCTGGTGCTATTTTGTGTTGTAATGTGAATACAGGCTTCCTTGATTTTTTTTTTTAATGGGGGTATT
GGGTGGGACAGACGGGGTCAGGGAGGCCCCACCATGGCTTGTCGAGGGCACGGGCACCTGCATGGCGGCGCTCTC
CCTGCCTCCCTGCCGGGCTGCAAGCCTGAGGTCTGTGCTGCCAGACGGGGATGCTCAGGGCTGGGGCTGCAGAG
CCGCTGCCCTGGCCAGGGCACCCCTCATGCACCGACCCAACCCAGGCCTGGGACGCACGTGTCTCTCACAGCGTC
GTGCCTGTGAAGGTGGGTCAAAGGGTGAGAGGGCTTCCTTCTCACCCCTCTCTCCATAAGTATCTTGAAGATCCA
TGGTTTGTGTTGCTCTATTGTTTAGTTTTTACTTGGGTGCAATGTGTACGTCAAAGTTTTTTATTTTGATATTG
AAAGAGACCAAAATCAGGCCCAGACCGCCTCTCTGGAAGGTGTTGTAGGCCATTCAAACGCCTCCGGAGTGTGCG
AAACCAAGTGCGGAGGGGCCCTGAGGTTGTACTGTAAACATCATAGTGACTTGTCTTTTCAAATATATCCCCT
ATTTTCGC

3912/5332
FIGURE 3408A

ATGGATGCGGGGGCCATCCCGCAGGTGCTGGTGATGATGGAGATAGCAGACATGGGTGCGGGGGCCCTCCCGCAG
GTGCTGGTGATGATGGAGATAGCGGGTGTGGGTGCATGGGCTCTCCCGCAGGTACTGGTGATGATGGAGATAGTG
GGCCTGGGTGCGGGGGCCCTCCCGCAGGTGCTGGTGATGATGGAGATAGCAGACATGGGTGCTGGTGATGATGGA
GATAGCAGACATGGGTGCGGGGGCCCTCCCGCAGGTGCTGGTGATGATGGAGATAGCAGACATGGATGCGGGGGCC
ATCCCGCAGGTGCTGGTGATGATAGAGATAGCAGACATGGGTGCGTGGGCCCTCCCGCAGGTGCTGGTGATGATA
GAGATAGCAGACATGGGTGCGTGGGCCATCCCGCAGGTGCTGGTGATGATGGAGATAGCGGCGGGCGTGGACGCA
GCTGATAAGATCGGTCCCCGAGATGGGACAAAGGGGCCGCAATCGGCTCGAGGGCTGGTCATATCCTGCCCGAA
AGGGCCGAGCAGGGCCTGAGATGCGGCAAGATGCTATCTCGGGTTTATTGCGTCTCAGAAGGATGTTCTAAGGGC
AGCAGAGGCCACGTGGATGCCCCGTTTGTGGGTCTCTGCACACACGGTGGCCGGACGGCAGATCCGGGGCTGCCCT
CAGAGCGCTCGCCACCCCCACCCGCTTTAGCTGTGCTTCTCCAAACCCACAGCCATGAAGGGCCCTCAGGGC
TGGAAGGCTGTGTGCGGTCTCTTCGGCAGGCGGTGGTGCCCTCCTCCTCCAAACACAGGCACTCAGGTCCACGGT
GTCCAGTGCTTGGGGACACAGCCGTTCAACAGCCGGCCCTGAGGGGCTGACAGTCCAGCAGGAAGACAGAGTT
AATGAAATCAAGACCTCTGCCCTTGGTGCCCTCAGGAGGTGGCCCATCCCGACGCTCACTCTGAACCTCTCCCA
GATGTGGCCTTCGGTGCTGCGGTGGGCCCTGGTTGGTGAATCCTGGGAACAGGGCTCTGCCTCCCGAGGGTCT
GACTTTGGAGCCGGTGACCTTGGGCAGGTACCTCACCCCTGTAAATGGGCTCCAGGTCTCAGGGGCCCCGC
GGGGTTTGCTGCGTGGGAACCAAGCACAGGTGATCAGCAAGCGAATCCGCACGCGGCGCGTCATCGTGGACAGA
GGGGCCGGCTTGCCCCGCCCCACGCAGCTGACCCCTGGCCACCCGCCCCACACCCCTCCGATCCCTGGACTCCT
TGGAGGCCCCCTCGCCAGCCCCCGGCCATCCCTGAGTGGTGGGTTCTGCCCTGGGCGAGTGAACGGCCACCTT
TATCAGAGCCAGCCCTCTCTGGCAGTGTGTGATACCCATACCCAGAAGGGGCGGCCGCCACGGGAAATGCCAGCC
ACGCTCTTATCTGGGAGGCTTGCCCGGTGGCCCTGGAGCTCCGATTAGGGAGCAGGACCGTTTGCTGTGGGTG
CCTCGTGGGCGGGCCCTTGCTCTGGAGAACGACCATCGCAGGGCTCACAGCTCGTCAAACCCAGCCACAGGCAT
CCTCCTGGCTGCGTCCCTACACCCACAGTGCCCTAGAGATCTTGCTGCAGGGCTGCCAGGCCCCCTGGGACCCA
GCACCTGCCCCGGCCCCCTGCCATTACCCCAAGCCCCAGGACTGCCACCCTCCACTGCCCCCTTGGGCCAACCCTA
GCGGGAGACGAGCTGGAGCCGGTGGTGACAGATGGGCAGAGGCGCATACGGGCCCGACTCAGCCTCGCCACGGGC
CTGTCTTGGGGCCCGTTCCATGGGAGTGTCCAGACCAGAGCCTCATCCCCAGGCAGGCGGAGCCGGTGCCTACC
TGCTATTTCTGGGCGGCTCCACACTCCAGGACTCACGGGAGATGCAGTTCTGTTCACTGTGTTCCCCACACCTGG
CAACAGCTGGTGCACAAGGCCCTGCTGCCGGATAAGGGACAGCCAGGGCAGACTGGCAGGGAGGCCCTCACCCCT
TCCAGCCTGTGGTGCAGAAAGTAGGAGCGGCAGGCCCCCTCTGAGAGTGTGTCAGTGGGGGGCCGTGGCAGGCC
TGCCCCAGCAGAAGCCCCCATCGAGCCGGCAGAGCCCCACAGCTGGCGTGCAGTTCTGAGCCCTGCTCTGCGG
CCCTGGGAATCACGGGGGTGTCTTTAAAGGGGGGACCCACCCGATGCCAGCCTGCACAAAGCACCTTTCTCG
GGGCAGCCACTCACACAGTGGACACTCAGCATGTGCTGCCCCGGACATGCCCTGTGGACGGCACCCCATGCCCA
CTTTGTCTGCTGCCAGGGTCCCACGCGTGTGGCAAAGTCCAGGAAAGCTCATGGGCTGGCACCTAGTGGGGAGAGC
CCAGCCCTGACCCTGCTGCTGGTGGACGAGGCCTGCTGGCTGAGGACGCTGCCCCAGGCCCTGACTGAGGCCGAG
GCCAACACAGAGATCCACAGGAAGGGTCAGTATGACGCGGCACCTCCGTCCCAAGCCTTCCGGAAGGGTCACCAA
GCCGGTGCCTGCGGGGGGACTCCTGAGCGTGTCTCTACGGCCGAGCCCCACAGCACCCCCGGCCACCTGTGAA
GAAGGAGCCAGCAGAGCCACGCCGGGATGGCCTCCATCCTTGCCACCGCAGTGATCAACAGACAGCGCGTGGCC
ATCGTGGACAGGCACGAGTCACGCAGGGAACACGCAGCAAGTCTGGCTCCGGCCAGCGGCTGGGGCTTCCAGGG
GAACAGGGACGGCACCGGATGGCGTTTGGAGGGGGACGGCTGGCCTTACGCTGACCCCGCCTGCTTCCACCCC
ACAGAAGACGTCTTCCCTGCAAGGACTGTGGCATCTGGTACCGCAGCGAGCGCAACCTGCAGGCGCACCTGCTC
TACTACTGCGCCAGCCGCCAGGGCACCGGCTCCCCGGCCGAGCCGCCACAGACGAGAAGCCCAAAGAGACCTAC
CCCAACGAGCGCGTCTGCCCCCTTCCCCAGTGCCGCAAGAGCTGCCCCAGCGCCAGCTCCCTGGAGATCCACATG
CGCAGCCACAGCGGAGAGCGGCCCTTCGTGTGCTGATCTGCCTGTGCGCCTTACCACCAAGGCCAACTGCGAG
CGGCACCTCAAGGTGCACACGGACACGCTGAGCGGTGTCTGCCACAGCTGTGGCTTCACTCCACCACAAGGGAC
ATCCTCTACAGCCACTTGGTCACCAACCACATGGTCTGCCAGCTGGCTCCAAGGGTGAGATCTACTCGCCAGGG
GCCGGACACCCAGCAACCAAGCTGCCCCAGACAGTCTGGGAGCTTCCAGCAGCAGCACAGGCCCTGCAAGGC
CCCCTGGCCTCCGCGGACCTGGGCCCTGGCGCCACCCCATCGCCAGGACTGGACAGAAAGGCCCTGGCCGAGGC
ACCAACGGAGAGGCCAGCGGAGCCTTGGGCCAGAATGGAGGCAGCAGCGAGCCCCCGCGGCCCCAGGAGC
ATCAAGGTGGAGGCGGTGGAGGAGCCGGAGGCGGCCCATCCTGGGCCCGGAGAGCCTGGGCCCCAGGCCCC

3913/5332
FIGURE 3408B

CCCCCCCCGGCCAGGGTCAAGGCCGAGCTGTCCAGCCCCACGCCGGGCTCCAGCCCGGTGCCCCGGCGAGCTGGGC
CTGGCCGGGGCCCTGTTCCCTTCCGCAGTACGTGTTTCGGGCCCCGACGCGGCGCCCCCGCCTCGGAGATCCTGGCC
AAGATGTCCGAGCTGGGCGCTACGTGCTTCGAGTGCGAGATCACCTTCAGCAACGTCAACAATACTACGTGCAC
AAGCGCCTCTACTGTTTCAGGCCGCCCCCGGCACCGGCGCTGGCCGACTACCACGAGTGCACGGCCTGCCGCGTG
AGCTTCCACAGCCTCGAGGCCTACCTGGCGCACAGAAGTACTCGTGCCCCGCTGCGCCACCGCCGGCGCGCTC
GGCCTGCCCCGCGCCGCCTGCCCCCTACTGCCCCCGAACGGCCCGGTGCGCGGGGACCTGCTGGAGCATTTCGCG
CTGGCGCACGGCCTGCTGCTCGGCGCGCCCCCTGGCCGGCCCGGGGGCGTCCAGACTCCCAGCAAGGGCACGCCG
GCGCCGCTGCCCAACGGCAACCACCGGTACTGCCGTCTTTGCAACATCAAGTTCAGCAGCCTGTCCACCTTCATC
GCCCACAAGAAGTATTACTGCTCCTCGCACGCCGCGGAGCACGTGAAAGCCAGGGCTGAGGACAACCGTGTGGTG
GAGTACCTGTGGTGGCTGAGTCGGTGCAAGGGGCTGGGTACCGCTGCCATCGCCCGTCCCAGGTCATTGGCGTG
TGGCCAGAGCCCGTCCCCATCGCACCCAGGACTCGCCTCGGGCACGCGTCTTCTGCACAGACCCTGGGGCCCCCA
CACCTGGCAGACGCCATCAGTACCCCTACTCCCTCAAGCCATCACCCAGTCTCCCCCACCAGACCACCGCCT
GGGCTCCACCCTGTGCCTCCCTGTAGCCGCTGACTCGGTGGTGGCCCAGGCCTTCTCCCGCCTCTCCCCAGGA
AGCTGCCTGCCCTGCTCACAGACACCCCTCGGCCCCCAGCTGGTTCTCTGCTGAGCCAGGCATCCTCAGTGGC
CCCCTGCCCCCTCAAGCTGGAGAGCATCAGCCTTGCTATTACCCCTTCATTGTCAAAGCAATGCTTGATTTGTCC
AAATCCCACCGCTTCCCAAACCATCCACCATCGCCGACTCCCAGACCTGGGACTTCACCCCTTGAGTCTCTCTGA

3914/5332
FIGURE 3409

GGAAAAGCGGAAAAGGGATTTCGTCCACACAACCACCCAAATCTGCAAAACCTCCAGCAGGGGGGAAGTCCTCCCA
GCAGCCCTCGACACCCCAGCAGGCACCCCCGGGCAGCCCCAGCAGGGCACATTTGTGGCCCAACAAGGAGATCAA
GTTGACACTGTTGAATAAGGCGGCTGATAAAGGAAGCAGGAAGCGCTATGAACCATCAGACAAGGACAGGCAGAG
CCCTCCTCCAGCCAAGCGGCCCAACACATCCCCAGACCGAGGTTCTCGGGACCGGAAGTCAGGTGGGAGACTGGG
CTCCCCGAAGCCAGAGCGGCAGAGAGGCCAGAACTCCAAAGCCCCTGCAGCCCCGGCTGACAGGAAGCGCCAGCT
GTCACCCAGTCCAAGAGCTCCAGCAAGGTCACGAGCGTGCCCGGCAAAGCCTCGGATCCCGGCGCCGCCAGCAC
CAAATCAGGGAAGGCCAGCACGCTGTCTCGGCGGGAGGAGCTGCTTGAAACAGCTGAAGGCCGTGGAGGATGCTAT
TGCACGCAAGCGGGCCAAGATCCCCGGGAAAGCATAGGCCGTGCCCCGACCGGACTGGACGCATTTTTATACATA
GGAAGTCCCGCAGGACAGACAGACACAGACAGCGCTAGTGACCAGCACGGTTCTCATGTAAATTACAAGCCCCAG
CCGCCAGCECCGCTTCTCTCCTCCTCCTCCGTCTTCTTCCCTGGCCCTGGTCAGGCCTGTGGAGCCCCAGCTC
TGGGTCCCTAGCCCGGCTCCAGGCAGCCAGGCTCCCTCCTGAGCTGAGAA

3915/5332
FIGURE 3410

GCAGTGTCCCAGCCGGGTTCGTGTGCGCCATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGC
GTCCGGCCTGATCCTCATCACCGGGGGCATCGTGGCCACAGCTGGGCGCTTCACCCAGTGGTACTTTGGTGCCTA
CTCCATTGTGGCGGGCGTGTGTTGTGTGCCTGCTGGAGTACCCCCGGGGGAAGAGGAAGAAGGGCTCCACCATGGA
GCGCTGGGGACAGAAGTACATGACCGCCGTGGTGAAGCTGTTGCGGGCCCTTTACCAGGAATTACTATGTTTCGGGC
CGTCCTGCATCTCCTGCTCTCGGTGCCCCGCCGGCTTCCTGCTGGCCACCATCCTTGGGACCGCCTGCCTGGCCAT
TGCGAGCGGCATCTACCTACTGGCGGCTGTGCGTGGCGAGCAGTGGACGCCCATCGAGCCCAAGCCCCGGGAGCG
GCCGCAGATCGGAGGCACCATCAAGCAGCCGCCAGCAACCCCCCGCCGCGGCCCCCGGCCGAGGCCCCGCAAGAA
GCCCAGCGAGGAGGAGGCTGCGGTGGCGGCGGGGGGACCCCCGGGAGGTCCCCAGGTCAACCCCATCCCGGTGAC
CGACGAGGTCGTGTGACCTCGCCCCGGACCTGCCCTCCCGCCAGGTGCACCCACCTGCAATAAATGCAGCGAAGC
CGGG

3916/5332
FIGURE 3411

CAGTGTCCCAGCCGGGTTTCGTGTCGCCATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGCG
TCCGGCCTGAGTGAAGTGCACGTGAGGACGGTGGAGGCTGCAGCCTGGAGGGGTGTCCCAAGACCCCAGCCGGGA
CCTCGGGTACTTACAGGGTGGGGAAGTGGGGCGCCAGGCGGGCCAGGCCGGGCCGGGGTTCAGGCCAGGAGGGTG
CGGGGAACGGGGCGGGACCCCTCAGGCCGCGGGCTGGAAGGAGGAGTTCTGAGACCCCCAGTAATTCCCTTGCAG
ACCCTGCGGAGCGCGGGCGCCCTCCCCATTCCCTTCTCTCGGTCCCCCGACTCCGCGAAGGAGGAAGTTGCAGC
GCAGGGGAAGAGGCGGTTTCAGCCCCGGTGGTTTCCGGGGTACCCGCCCGAAGCCCCGAGTGGGGGCTCCGGCC
TGGGCATCGGGAGAAGCTCCCTGCCCCCTCGGTAGCCAGCTGGCCTGGAGGTGCTCTCCCTGGGCTTGGGGTGG
GGAATGGGCTCATGCCCTGGGGCTCAGCCCTTCTCATCTGGAGTCTGCGCTGGAGGCGGTCTGAGATTTACAAG
GCGCCGAAACCAACCAGTGAAGGCCCTGCCAGCCAGCTGCACAGGCACTTTGCTCTTGGGGTGGGATGGCACA
GCCCCAGTACCCCTCCTGTGCATTTGCTCAGAGGTTCTGGTGAGGGCAGCGGACTCCATTGGAATGGACCCCT
CTCGGGACCAGGGCCAGGGAGTGTCTGGCCAGCACGGGTGAGGCTGGGCTCAGGCGAGGTCTGAGGGCAGAGGC
ACCACTGCAGCAGCTCCAGGAAGGACCTGCACCGGGGAGGAGTGCTGGGAAGGGCCTGGGGGCTGAGGGTGA
GAGGAGGGGCGCGCTGCCACCACTCCCTGGGGCTCTGAGCGCCCTCCCTGTTGTCTGGAGGGTGCCTGGCAGCT
GGAGTGGGAGCAGAGACCTCAGGGTGGGAGGGCTGGAGGACGGGGCCCTGCAGCCTGTCTGTGCCAGGAAAGT
GACCGCCTGCTTCGAGTCAGCGGCCAAGAAGTCGGTGGGTGAGTTCAGACAGCTCTCCCCAGAGCTGCCCCGTGA
GACTCACCTGCCTGCCCCGCACTCCCTACAGGAAGTAGACGAGTGAAGGCAACCAGCTGGGAGCCAGGAGACC
TGGGCTCTAGTCTGGCCTCCTGCTGAAACCCTCCAGGGGCTCCTGGCCCCGAAGAGTTAGAGCCAGACTGGACGCC
CTGCACTGCCCGCCCTGGCCTCCCGGCTCTCCGGCCCCCTCCTCCAGCTGCCGTGCTTCTTTCTGTTCTTAGAT
CTCCTGAGCGTGCCCCAGGGCCTCGGCACAAGCTGCTGCTTCTGCAGAGCCTCATGGCTGTCTCATTATTTCTC
AATTCAAATGCCACCTGCCTGGGGAGGTCTTCCAGACCGTGCAGCCCCAGGAGGCAGCTGGCCCCGAGACAGCA
GGGCCTTGACAAAGAGTCCCCCTGTACACAGCAGGTGCTCTGTAATGTGGCTGGGTGCCAGAATACGTCCTCA
GACCTCCCTGGTGGCACCAGCGGCAGCTTTGCACCTCTTTCGGATGGCAGGCTCGGGACCAGGACGGTCCCCAA
AGATGCATGGACAATTGGCTGAGTAGACTCAAGGACACTGCCCTCCCCCTCCTCCGACGCAGACAGACAAACCCAG
AGAGTTAATGTGTAGCTGGGCTCAAACCAAGGATAGGAAATCTTCCAACAAGACCATGTGGAGACAAAAACAGAA
TGGCTGGCAGGGCAAGGTGGCTACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGCGGATCACGAGGTCA
GGAGATCGAGACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGTATGG
TGGCAGGCGCGCATAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTCAACCTGGGAGGTGGAGGTTG
TAGTGAGCTGAGATCACGCCACGGAACCTCAGCCTGGGTGACAGGGCAAGACTCTGTCTCC

3917/5332
FIGURE 3412

TGGGACCATGCCCTCGGAGAAGCCGCTGGCGGCAGTCACTTGTACAGCGCCGGTCAACATCGCGGTCATCAAGTA
CTGGGGCAAGCGCGATGAAGAGCTGGTTCTGCCCATCAACTCCTCCCTGAGCGTCACTCTGCACCAGGACCAGTT
AAAAACCACCACAACAGCCGTCATCAGCAAGGACTTCACCGAGGACCGGATTTGGCTGAATGGCCGGGAGGAGGA
TGTGGGGCAGCCGCGGCTGCAGGCCTGCCTGCGGGAGATCCGCTGCCTGGCCCGGAAGCGGAGGAACTCACGGGA
TGGGGACCCGCTGCCCTCCAGCCTCAGCTGCAAGGTGCACGTGGCATCGGTGAACAACCTCCCCACGGCTGCGGG
CCTGGCCTCCTCAGCGGCGGGCTATGCCTGCCTAGCCTACACCCTGGCCCGTGTCTACGGCGTGGAGAGTGACCT
CTCAGAAGTGGCTCGCCGGGGCTCAGGCAGCGCTGCCGGAGCCTGTATGGGGGCTTTGTGGAGTGGCAGATGGG
AGAGCAGGCCGACGGGAAGGACAGCATCGCTCGGCAAGTGGCCCCCGAGTCACACTGGCCTGAACCTCCGCGTGCT
CATCCTTGTGGTGAGCGCTGAGAAGAAGCTGACAGGCAGTACCGTGGGCATGCGGGCCAGTGTGGAGACCAGCCC
CCTGCTTCGGTTCCGGGCGGAGTCCGTGGTGCCCGCGCGCATGGCGGAGATGGCCCGCTGCATCCGGGAGCGAGA
CTTCCCCAGCTTCGCCCAGCTGACCATGAAGGACAGCAACCAGTTCCACGCCACCTGCCTCGACACCTTCCCGCC
CATCTCTTACCTCAATGCCATCTCCTGGCGCATCATCCACCTGGTGCACCGCTTCAACGCCACCACGGGGACAC
CAAGGTGGCGTACACCTTTGACGCGGGGCCCAATGCCGTGATCTTACCCTGGACGACACTGTGGCTGAGTTTGT
GGCTGCTGTGTGGCACGGCTTTCCCCCAGGCTCGAATGGAGACACGTTTCTGAAGGGGCTGCAGGTGAGGCCGGC
CCCTCTCTCAGCTGAGCTTCAGGCTGCGCTGGCCATGGAGCCGACCCCGGTGGGGTCAAATACATCATTGTAC
TCAGGTGGGGCCAGGGCCTCAAATCCTGGATGACCCCTGCGCCCACCTCCTGGGTCTGACGGCCTGCCGAAGCC
AGCTGCCTGACTGCCTCAGCAGGGACCGCATGCCGCTTGGAGAAGGGGTGGCCTCGCCGGAGCTAGGGAGCGGAT
GTGGTGGGCTGGCCGGACTCCTGGGACATGTGGGTGGTGGCTTGAQCCCGGGCCCATGGGCAGCTTGCTGTGGG
CAGTGCAGGGAGTCTGCGGCCGCCAGGTGTCAGGAGAGGTCCCGCCGAGTGCTTCAGCTGCCCTAAGCTGCA
CCAGCGCTTTGCCAAGATGGGATGGGGAGGGGGTATGAGAACTGGCAGAGCCTCGGTGCAGCAGGGCTGAAGGGC
TTTCTACCCCCAGCTCTGGCTATGCCAGTTCTCTGAGAAAGGAGCTCAGTGGGGAGGTGGTCCCTCCAGCGGAC
CAGGGAAGGGGTACCGTGCTGGGAGCAGCCTCCTTGGGCCTCAGGAAACCACCAAGTGCCTCGGATGGTGGCTG
CCCACGGCGCTTCTGCTGAGACCCTGCCCCGGGCCAGGTGTCTCGGAGGGTGGCTGCCACGGCCTGGGTGTGG
CTGGAATGGTGGCAGGAGTGGGCACCAGTGCGGCCCCGGTGGCCATGGGGAATAAACCAGCATTGCTGCC

3918/5332
FIGURE 3413

GGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGGCGGGCGGGCCTGGCCCCGGGATGGCTAT
GTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGGCGAGCAGCGGCCTGGA
GGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACC GGCCCGTGGCCATCGGCAGCTGCGGCCACACGTT
CTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCATGCCCTTCGACCC
CAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCTACAAAGCGCCCTGTGAGGCTGCAACAA
AAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTCTGTCCTGCCTGAAGGTCCAGGAGCAGATGGCCAACTGCCC
CAAGTTCTGTCCTCGTGGTGGCCACATCAGAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCGCCTGCCC
GTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAGCCACCGCAGCGACCCCAA
CCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCAGCTACAAGAGCGCCAACCTTCCTGCAGCA
CCTGCTTCACCGACACAAGTTCTCCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCGCCTTCAGGC
TGCTCTGGCCCTGTCTCTCTCTGAGAAGTGAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAAGGATGTCC
CCGCTCCTGTGTGCGACCTGGCACCTGCTCGGGAGTGCACCTCACCGGACTGAGCTCACAGGAGGAGCCTGCACC
CGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGGCCAGCCGCCGAGGCCGCCAGAGCAGGGCC
GCCTGGTCCACCGGCGTCTGCTGGGTTCTTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGGGCTGGAC
GCTGAGACCTGGAGCTGCCACCGTCTCTTCAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGACGCGCAGT
CGCGGCTGCGCAGTCGAGCCCGGGAGGAACCCAGGCTGCTGCCCTGGCCAGCCCGACCTGCCCCGGCCCCACTT
CCACCTTGCGCATTGGTACTGGCTTTTGTGATACTTAGGAACCCCTGGCATCTTTTCTATATTATCCAGTGTGAT
AATCTTTTACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACTAGGAAT
AATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGGATTGGG
GCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCTGCCCTG
GCCACCCACTGTGTGTCTGGGTCTTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAGCACCCC
AGCCACAGGCTGTGGCTGCTCCAGCAGAGGCGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTCTTGCC
TTGGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCACTGGTGGCAGAGCTT
GGGGGCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATCTTTTCTGTTCTTGGCATTAAATTAT
TGCTGTCTTTTTTTTTAAAAAAAAGTTAAATAAAATGTCTCAGAGC

3919/5332
FIGURE 3414

CTCCGACGTCATCGGGGCGCGCCCTCGCGCTGTCGCCGCCACAGTCTGCGACGGGACCCGGCGTGCCCATGTGTGTC
AGGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCGCGCGCCGCGGCCAGGGACTGTTTCAAGG
CCTTCTACGTCCACAAGTTCAGAGCCATGCTGGGCAAGAACC GGCTCATCTTTCCAGGCGAGAAGGTGCTCTTGG
CGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTTCTTGAGGGCCTGAGCCAAGATTCTGCCAAAA
GACTGCGCTTTGTGGCAGGAGTCATCTTTGTTGACGAGGGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAA
AGACCCTGGCCGAAGTGAAGCCCATTTCTGCAAGCAACTGGGTTCCCATGGCATGTGGTGGCCTTAGAGGAGGTGT
TCAGCCTGCCACCGTCGGTGCTTTGGTGCTCTGCCAGGAGCTAGTGGGATCCGAGGGGGCCTACAAGGCGGCCG
TGGACAGCTTCCTCCAGCAGCAGCATGTGCTGGGGGCGGGGGTGGTCCTGGCCCGACTCAAGGGGAGGAACAGC
CACCCAGCCCCCGCTGGACCCCCAGAACCTGGCAAGACCGCCTGCCCTGCCCAGACTGAGGCTCTTTCCCAAC
TGTTCTGCTCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACA
TGGCCCGAGCCACGGCTACTCCAAGGTCATGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATGACCA
ACCTGGCGCTGGGTGAGGGGCCTTCCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGGGACGTGGTGG
TGGTGCGGCCCATGCGGGACCACACCCTGAAGGAGGTGCTTTCTACAACCGCCTGTTCTCTGTTCTTCTGTCT
TCACACCAGCCGTCGACACCAAGGCCCCCTGAAAAGGCCAGCATCCACCGGCTGATGGAGGCCTTCATCCTCAGGC
TGCAGACCCAGTTCCTCCACTGTGACACTGTGTACAGGACAAGTGAGAAGCTGGTGAAGGGCCCCCGGGATG
GCCCTGCTGCTGGCGACTCCGGCCCCCGCTGCCTCCTCTGCATGTGTGCCCTGGACGTCGACGCCGCTGACAGTG
CCACGGCTTTTGGGGCTCAGACCTCCTCGCGTCTCTCCAGATGCAGTACCCATCCCCCTGACTGAGACCCGGA
CACCCCGGGGCCCTGCTGTTCTCCAGGGGTGGGCTGGGCCAGCGCTGCGGCCAGGGGGCCTGTAGGAGGGAGG
ACCCCAAGCCTGCATTGAGGAGCAGCTGTGCTACAGCTGCCGCGTGAACATGAAGGACTTGCCCTCACTGGACC
CCCTGCCGCCGTACATCCTGGCTGAGGCCCAGCTCCGCACACAGAGGGCCTGGGGCTTGCAAGGAGATCCGGGACT
GTCTGATTGAGGACAGTGACGACGAGGCGGGCCAGAGCTGAGCGTGAGGACGTGCTTGCCGGGACAGCAGGCAGT
GGCCACCTGGTACACCACACTGGAGCCGGAAGGCAAGGACGGGGACTGGCCTCTGATTGTCCATTTGTATAAAT
AAAACATTTTTTAATT

[illegible]

3921/5332
FIGURE 3415B

CCCACTCGGAGCTGCTCTGCTACTTCATCATCATCCTCAACCACATGGTCACGGCCTCCGCCGGCTCGCTGGTGC
TGCCCGTGCTCGTCTTCTGTGGGCCATGCTGTGATCCCGAGGCCAGCAAGCGCTTCTGGATGACGGCCATCG
TCTTCACCGAGATCGCGGTGGTTCGTCAGTACCTGTTCCAGTTTGGGTTCTTCCCTGGAACAGCCACGTGGTGC
TGCGGCGCTACGAGAACAAGCCCTACTTCCCGCCCCGATCCTGGGCCTGGAGAAGACTGACGGCTACATCAAGT
ACGACCTGGTGCAGCTCATGGCCCTTTTCTTCCACCGCTCCCAGCTGCTGTGCTATGGCCTCTGGGACCATGAGG
AGGACTCACCATCCAAGGAGCATGACAAGAGCGGCGAGGAGGAGCAGGGAGCCGAGGAGGGGCCAGGGGTGCCTG
CGGCCACCACCGAAGACCACATTAGGTGGAAGCCAGGGTCGGACCCACGGACGGGACCCAGAACCCCAAGTGG
AGCTCAGGCCCCGTGATACGAGGCGCATCAGTCTACGTTTTAGAAGAAGGAAGAAGGAGGGGCCAGCACGGAAAG
GAGCGGCAGCCATCGAAGCTGAGGACAGGGAGGAAGAAGAGGGGGAGGAAGAGAAAGAGGCCCCACGGGGAGAG
AGAAGAGGCCAAGCCGCTCTGGAGGAAGAGTAAGGGCGGCCGGGCGGCGCTGCAGGGCTTCTGCCTGTCCCTGG
CCCAGGGCACATATCGGCCGCTACGGCGCTTCTTCCACGACATCCTGCACACCAAGTACCGCGCAGCCACCGACG
TCTATGCCCTCATGTTCTTGGCTGATGTTGTGCGACTTCATCATCATCATTTTTGGCTTCTGGGCCCTTGGGAAGC
ACTCGGCCGCCACAGACATCACGTCCTCCCTATCAGACGACCAGGTACCCGAGGCTTTCCTGGTCATGCTGCTGA
TCCAGTTCAGTACCATGGTGGTTGACCGCGCCCTTACCTGCGCAAGACCGTGCTGGGCAAGCTGGCCTTCCAGG
TGCGCTGGTGTGCTGGCCATCCACCTATGGATGTTCTTCATCCTGCCCGCCGTCACTGAGAGGATGTTCAACCAGA
ATGTGGTGGCCAGCTCTGGTACTTCGTGAAGTGCATCTACTTCCGCTGTCCGCTACAGATCCGCTGCGGCT
ACCCACCCGCATCCTCGGCAACTTCCTCACCAAGAAGTACAATCATCTCAACCTCTTCTCTTCCAGGGGTTC
GGCTGGTGCCGTTCTGGTGGAGCTGCGGGCAGTGATGGACTGGGTGTGGACGGACACCACGCTGTCCCTGTCCA
GCTGGATGTGTGTGGAGGACATCTATGCCAACATCTTCATCATCAAATGCAGCCGAGAGACAGAGAAGAAATACC
CGCAGCCCAAAGGGCAGAAGAAGAAGATCGTCAAGTACGGCATGGGTGGCCTCATCATCTCTTCTCATCG
CCATCATCTGGTTCCCGCTGCTCTTCACTGTCGCTGGTGCCTCCGTGGTTGGGTTGTCAACCAGCCCATCGATG
TCACCGTCACCTCAAGCTGGGCGGCTATGAGCCGCTGTTACCATGAGCGCCAGCAGCCGTCCATCATCCCT
TCACGGCCCAGGCCTATGAGGAGCTGTCCCGCAGTTTGACCCCCAGCCGCTGGCCATGCAGTTCATCAGCCAGT
ACAGCCCTGAGGACATCGTCACGGCGCAGATTGAGGGCAGCTCCGGGGCGCTGTGGCGCATCAGTCCCCCAGCC
GTGCCCAGATGAAGCGGGAGCTCTACAACGGCACGGCCGACATCACCTGCGCTTCACTGGAATTCAGAGGG
ACCTGGCGAAGGGAGGCACTGTGGAGTATGCCAACGAGAAGCACATGCTGGCCCTGGCCCCAACAGCACTGCAC
GGCGGCAGCTGGCCAGCCTGCTCGAGGGCACCTCGGACCAGTCTGTGGTCATCCCTAATCTCTTCCCAAGTACA
TCCGTGCCCCAACGGGCCCCGAAGCCAACCTGTGAAGCAGCTGCAGCCCAATGAGGAGGCCGACTACCTCGGCG
TGCGTATCCAGCTGCGGAGGGAGCAGGGTGCGGGGCCACTGGCTTCTCGAATGGTGGGTATCGAGCTGCAGG
AGTGCCGGACCGACTGCAACCTGCTGCCATGGTCATTTTCAGTGACAAGGTGAGCCACCGAGCCTCGGCTTCC
TGGCTGGCTACGGCATCATGGGGCTGTACGTGTCCATCGTGCTGGTCATCGGCAAGTTCGTGCGCGGATTCTTCA
GCGAGATCTCGCACTCCATTATGTTTCGAGGAGCTGCCGTGCGTGGACCGCATCCTCAAGCTCTGCCAGGACATCT
TCTGGTGGCGGAGACTCGGGAGCTGGAGCTGGAGGAGGAGTTGTACGCCAAGCTCATCTTCTCTACCGCTCAC
CAGAGACCATGATCAAGTGGACTCGTGAGAAGGAGTAGGAGCTGCTGCTGGCGCCCGAGAGGGAGGAGCCGGCC
TGCTGGGCAGCGTGGCCACAAGGGGCGGCACTCCTCAGGCCGGGGAGCCACTGCCCGTCCAAGGCCGCCAGCT
GTGATGCATCCTCCCGGCTGCTGAGCCCTGATGCTGCTGTGAGAGAAGGACACTGCGTCCCCACGGCCTGCGT
GGCGCTGCCGTCCCCACGTGTACTGTAGAGTTTTTTTTTAATAAAAAATGTTTTATTTATACAAATGG

3922/5332
FIGURE 3416

CGCGCACTCCGCCGCCATGGAGCAGCGCCGCGTCACCGACTTCTTCGCGCGCCGCCGCCCGGGCCCCCGCAT
CGCGGCGCCCAAGCTGGCCTGCCGCACCCCGAGCCCGCCAGGCCCGCACTCCGCGCCCGGCCTCCGCTACCAG
TGGCAGCCGCAAGCGCGCCCGCCCGCCCGCCCGCCCGGACGCGACCAGGCCAGGACACCGGCCCGCAGGAGACT
GCGGCTGTCGGTGGACGAGGTTTCCAGCCCCAGTACCCCGAGGCCCGAGACATCCCAGCCTGCCCTTCTCCGGG
CCAGAAGATAAAGAAATCCACCCCGGCAGCAGGTACGCCGCCACCTGACATCCGCGCAGGACCAGGACACCAT
CTCTGAGCTTGGCTCATGCCTGCAACGGGCCCCGGGAGCTGGGGGCAAGAGTCCGGGCGCTGAAGGCCAGTGCCCA
GGATGCTGGGGAGTCTTGACCCCCAGAGGCCGAGGGCCGCCCTGAGGAGCCATGTGGCGAGAAGGCGCCCGCCTA
CCAGCGCTTCCATGCCCTGGCCCGAGCCCGGCCTGCCGGGACTCGTGCTGCCCTACAAGTACCAGGTGCTGGCGGA
GATGTTCCGCAGCATGGACACCATCGTGGGCATGCTCCACAACCGCTCCGAGACGCCCACCTTTGCCAAGGTCCA
GCGGGGCGTCCAGGACATGATGCGTAGGCGTTTTGAGGAGTGCAATGTTGCCCAGATCAAAACCGTGTACCCGGC
CTCCTACCGCTTCCGCCAGGAGCGCAGTGTCCCCACCTTCAAGGATGGCACCAGGAGGTGAGATTACCAGCTCAC
CATCGAGCCACTGCTGGAGCAGGAGGCTGACGGAGCAGCCCCCAGCTCACGGCCTCGCGCCTCCTGCAGCGACG
GCAGATCTTCAGCCAGAAGCTGGTGGAGCATGTCAAGGAGCACCACAAGGCCTTCCTGGCCTCCCTGAGCCCCGC
CATGGTGGTGGCGGAGGACCAGCTGACCCGCTGGCACCCGCGCTTCAACGTGGATGAAGTACCCGACATCGAGCC
GGCCGCGCTGCCCCAGCCACCCGCCACGGAGAAGCTCACCCTGCTCAGGAGGTGCTGGCCCGGGCCCGCAACCT
GATTTACCCAGGATGGAGAAGGCCTTGAGTCAATTGGCCCTGCGCTCTGCTGCGCCAGCAGCCCCGGGTCTCC
CAGGCCAGCACTGCCGGCTACCCACACAGCCACCCCGCCTGCAGCCTCTCCAGTGCTCTGAAGGGGGTGTCCCA
GGATCTGCTGGAGCGGATCCGAGCCAAGGAGGCACAGAAGCAGCTGGCACAGATGACGCGGTGCCCGGAGCAGGA
GCAGCGGCTGCAGCGCTTAGAACGGCTGCCTGAGCTGGCCCGCGTGCTGCGGAGCGTCTTTGTGTCCGAACGCAA
GCCTGCGCTCAGCATGGAGGTGGCCTGTGCCAGGATGGTGGGCAGCTGTTGTAATCATGAGCCCTGGGGAAT
GGAGAAGCACCTGCTGCTCCTCTCCGAGCTGCTGCCGGACTGGCTCAGCCTCCACCGCATCCGCACCGACACCTA
CGTCAAGCTGGACAAGGCCGCGGACCTCGCCACATCACTGCACGCCTGGCCACCAGACACGTGCTGAGGAGGG
GCTGTGAGCCTGGGGGCCACTGTGGACAGACGTGGGCTTCAAGAGCTCGCTGGCCTGGGCCCACAGCATTTTCT
TTTATGAACATGATACACTTGGCCTTCCTTTCCCGAGCGCCCTGAGGGCCAGAGGCAGATGTGGGCTGCAGGC
TGCACAGCCCGAGGGTCTCTGGCTGCGGGCGGTGGGCCCCCTTCATGGGGCTCACCTGGTGGATTACATTAAACC
GGTTTCTGTGGGC

3923/5332
FIGURE 3417

ACCCCTCGTGGCGGTCCCGCCCGTCCCCGCGCAGGCGCGCTCGGGCTGCCGCTGGCTCTTCGCACGCGGCCATGG
CCGACTCCGAGCTGCAGCTGGTTGAGCAGCGGATCCGCAGCTTCCCCGACTTCCCCACCCAGGCGTGGTATTCA
GGGACATCTCGCCCGTCCTGAAGGACCCCGCCTCCTTCCGCGCCGCCATCGGCCTCCTGGCGCGACACCTGAAGG
CGACCCACGGGGGCGCATCGACTACATCGCAGGCCTAGACTCCCGAGGCTTCCTCTTTGGCCCCCTCCCTGGCCCC
AGGAGCTTGGACTGGGCTGCGTGCTCATCCGAAAGCGGGGGAAGCTGCCAGGCCCCACTCTGTGGGCCTCCTATT
CCCTGGAGTACGGGAAGGCTGAGCTGGAGATTCAGAAAGACGCCCTGGAGCCAGGACAGAGGGTGGTCGTCGTGG
ATGATCTGCTGGCCACTGGTGGAACCATGAACGCTGCCTGTGAGCTGCTGGGCCGCCTGCAGGCTGAGGTCCTGG
AGTGCCTGAGCCTGGTGGAGCTGACCTCGCTTAAGGGCAGGGAGAAGCTGGCACCTGTACCCTTCTTCTCTCTCC
TGCAGTATGAGTGACCACAGGGCCTCCCAGCCCAACATCTCCAGCTGGATCCCAGGGAAATATCAGCCTTGGGCA
ACTGCAGTGACCAGGGGCACCGGCTGCCACAGGGAACACATTCTTTGCTGGGGTTCAGCGCCTCTCCTGGGGC
TGGAAGTGCCAAAGCCTGGGGCAAAGCTGTGTTTCAGCCACACTGAACCCAATTACACACAGCGGGAGAACGCAG
TAAACAGCTTTCCAC

3924/5332
FIGURE 3418

CGGACGCTCGCTAGGTCTGGCTCGCTGGCCGGGGCTCCGCGGCTCCCGTGGTTGCCATGGCGGCGGTTGTGCGGGC
GACGAGGTGGTGGCAGCTGTTGCTGGTGCTCAGCGCCGCGGGGATGGGGGCCTCGGGCGCCCCGAGCCCCCAA
CATCCTGCTCCTGCTCATGGACGACATGGGATGGGGTGACCTCGGGGTGTATGGAGAGCCCTCCAGAGAGACCCC
GAATTGGACCGGATGGCTGCAGAAGGGCTGCTTTTCCCAAACCTTCTATTCTGCCAACCCCTCTGTGCTCGCCATC
GAGGGCGGCACTGCTCACAGGACGGCTACCCATCCGCAATGGCTTCTACACCACCAACGCCCATGCCAGAAACGC
CTACACACCGCAGGAGATTGTGGGCGGCATCCAGACTCGGAGCAGCTCCTGCCGGAGCTTCTGAAGAAGGCCGG
CTACGTCAACAAGATTGTGGCAAGTGGCATCTGGGTACAGGCCCCAGTTCCACCCCCTGAAGCACGGATTGTA
TGAGTGGTTTGGATCCCCCACTGCCACTTTGGACCTTATGACAACAAGGCCAGGCCCAACATCCCTGTGTACAG
GGACTGGGAGATGGTTGGCAGATATTATGAAGAATTTCTTATTAATCTGAAGACGGGGGAAGCCAACCTCACCCA
GATCTACCTGCAGGAAGCCCTGGACTTCATTAAGAGACAGGCACGGCACCACCCCTTTTCCCTCTACTGGGCTGT
CGACGCCACGCACGCACCCGCTCTATGCCGCCAAACCCCTTCTTGGGCACCAGTCAGCGAGGGCGGTATGGAGACGC
CGTCCGGGAGATTGATGACAGCATTGGGAAGATACTGGAGCTCCTCCAAGACCTGCACGTCGCGGACAACACCTT
CGTCTTCTTACGTCGGACAACGGCGCTGCCCTCATTTCCGCCCCGAACAAGGTGGCAGCAACGGCCCCCTTTCT
GTGTGGGAAGCAGACCACGTTTGAAGGAGGGATGAGGGAGCCTGCCCTCGCATGGTGGCCAGGGCACGTCACTGC
AGGCCAGGTGAGCCACCAGCTGGGCAGCATCATGGACCTCTTACCACCAGCCTGGCCCTTGGCGGCCTGACGCC
GCCCAGCGACAGGGCCATTGATGGCCTCAACCTCCTCCCCACCCTCCTGCAGGGCCGGCTGATGGACAGGCCTAT
CTTCTATTACCGTGGCGACACGCTGATGGCGGCCACCCTCGGGCAGCACAAAGGCTCACTTCTGGACCTGGACCAA
CTCCTGGGAGAACTTCAGACAGGGCATTGATTTCTGCCCTGGGCAGAACGTTTCAGGGGTCACTCACTCACAATCT
GGAAGACCACACGAAGCTGCCCTTGATCTTCCACCTGGGACGGGACCCAGGGGAGAGGTTCCCCCTCAGCTTTGC
CAGCGCCGAGTACCAGGAGGCCCTCAGCAGGATCACCTCGGTCTCCAGCAGCACCAGGAGGCCTTGGTCCCCGC
GCAGCCCCAGCTCAACGTGTGCAACTGGGCGGTTCATGAAGTGGGCACCTCCGGGCTGTGAAAAGTTAGGGAAGTG
TCTGACACCTCCAGAATCCATTCCCAAGAAGTGCCTCTGGTCCCACTAGCACCTGCGCAGACTCAGGCCAGGCCT
AGAATCTCCGGTTGGCCCTGCAAGTGCTTGAGGAAGGATGGCTCTGGCCTCGGTCTCCCCCAACCCCTGCCCAA
GCCAGACAGACAGCACCTGCAGACGCAGGGGGACTGCACAATTCCACCTGCCCAGGACCTGACCCTGGCGTGTGC
TTGGCCCTCCTCCTCGCCACGGCGCCTCAGATTTAGGACCCCTCCTCCTCGCCACGGCGCCTCAGACCTCAGG
ACCCCTGCCGTCTCAGCCCTTTGTGAACCCCAAATATCTGAGACCAGTCTCAGTTTATTTGCCAAGGTTAAGGAT
GCACCTGTGACAGCCTCAGGAGGTCCTGACAACAGGTGCCTGAGGTGGCTGGGGATACAGTTTGCCTTTATACAT
CTTAGGGAGACACAAGATCAGTATGTATGGCGTACATTGGTTTCACTCAGCCTTCCACTGAATACACGATTGAG
TCTGGCCCACTGAATCCGCATTTTTATGTAAACAGTAAGGGAACGGGGCAATCATATAAGCGTTTGTCTCAGGGG
AGCCCCAGAGGGATGACTTCCAGTTCCGTCTGTCTTTGTCCACAAGGAATTTCCCTGGACGCTAATTATGAGGG
AGGCGTGTAGCTTCTTATCATTGTAACATATGTTATTTAGAAATAAACGGGAGGCAGGTTTGCCTAATTCCCAGC
TTG

3925/5332
FIGURE 3419

GTGACCAGCGGCGGGTCACGTGACGCGGTGCCTGGCGCCGAGCCTCCCAAGATGGCGGTGTGCATCGCGGTGATT
GCCAAGGAGAATTACCCCTCTACATTTCGCAGCACCCCTACGGAGAACGAGCTGAAGTTCCACTACATGGTGAC
ACATCTCTGGACGTGGTGGATGAGAAGATCTCCGCAATGGGGAAGGCCCTGGTCGACCAGAGGGAGCTGTACCTG
GGCCTGCTCTACCCACGGAGGACTACAAGGTATACGGCTACGTCACCAACTCCAAGGTGAAGTTTGTATGGTG
GTAGATTCTCCAACACAGCCCTTCGAGACAACGAAATTCGCAGCATGTTCCGGAAGCTACACAACCTCTACACA
GACGTGATGTGCAACCCCTTCTACAACCCGGGGGACCGCATCCAGTCCAGCAGGGCCTTTGATAACATGGTGACG
TCGATGATGATACAGGTGTGCTGAGTGAGCTGTGCTGCCAGCCATCGCAGAGGAGCCCGCGCACGACTGTGGTGG
GGCCGTCGGTCTGTTCTGGTTGCTCTTCCTGAATGGGACGCCTGGGGCTTTCAGGGCAGGCAGCTGTGCATGTT
CTCTCAACTAAAGGTCTTGTGAGAGGA

3926/5332
FIGURE 3420A

CTCCAGGTTGGCCCCCTGAGGGTGGCCTCCTCATGCGGGCTTCAAGACTGAGGGACAGGGCAGCCAGTTCAGCCTC
GGGATCCACCTGTGGCTCCATGTCCCAGACGCACCCTGTGCTGGAGAGCGGCCTCCTGGCATCTGCCGGCTGCTC
CGCACCCCGGGTCCCAGGAAGGGCGGCCAGCCCCAGTGGACAGGAAAGCTAAGGCCTCAGCGATGCCGGACTC
CCCAGCGGAGGTGAAGACGCAGCCCCGGTCCACACCCCCCAGCATGCCGCCCCACCGCCTGCCGCATCCCAGGG
GGCCACACGCCCCCTCCTTACGCCACACACATCGAGAGGACGGGCCTGCGACGCTGCCCCACGGCCGTTT
TCATGGCTGCTTAAAAATGGTCTATGGTCTGTCTCTTGATGAACGGCAGCAGCCACTCACCAACAGCCATCAATGG
TGCACCGTGCACACCCAACGGCTTCAGCAATGGCCCGGCCACCTCGTCCACAGCCTCCTTGTCCACACAGCACCT
GCCCCAGCCTGCGGGGCCCGGCAGCTCAGCAAGCTCAAGCGCTTCTCACCACACTGCAGCAGTTTGGCAGCGA
CATCTCCCCAGAGATTGGGGAGCGCGTGCACACTGGTGTGGGCTGGTGAACCTCGACATTGACGATCGAGGA
GTTTCATTCCAAGCTTCAGGAGGCCACCAACTTCCCTCTGCGGCCGTTTGTCAATTCCTTCTGAAGGCAAACCT
GCCCTTGCTGCAGCGGAGCTCCTGCACTGTGCACGCTGGCCAAGCAGACGCCCGCCAGTACTTGGCCACGCA
TGAGCAGCTCCTGTGGACGCCAGCGCTCCTCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAA
CGGCAAGAGGAGGACGCCGACAGGACCAAGAGAACGGGTGACACCGCGACCCGCTGCACCCGAGCACCTCAG
CAAACGGCCATGCACCTGAACCTGCCCAGCGCTACAGCCCCAGCAACGGGCCACCGCAGCCACACCGCCGCC
GCACTACCGCCTGGAGGACATAGCCATGGCCCACCATTCCGAGATGCCTACCGCCACCCAGACCCCGGGAGCT
ACGAGAGCGCCATCGGCCGCTTGTGGTGCCTGGGTCCCGGCAGGAAGAAGTGATCGACCACAAGCTCACAGACCG
TGAGTGGGCAGAAGAGTGGAAGCACCTCAACAACCTCCTGAACCTGCATCATGGACATGGTGGAGAAGACGCGCG
CTCGCTCACGGTGTGCGCAGGTGCCAGGAGGCCGACCGCGAGGAGCTCAACCACTGGGCGCGGCGCTACAGCGA
CGCCGAGGACACAAAGAAGGGCCCCGCTCCCGCCGCGGCCCGGCCCGCAGCAGCTCCGCCGGTCCCAGAGGGCC
TCAGCTAGACGTGCCTCGCGAGTTCTGCCGAGGACCCTCACC GGCTACGTGCCTGAGGACATCTGGAGGAAGGC
TGAAGAGGCGGTGAATGAGGTGAAGCGGCAGGCCATGTGCGAGCTGCAGAAAGCCGTGTGCGACGCGGAGCGCAA
AGCGCACGAGCTCATCACCACGGAGCGTGCCAAGATGGAGCGGGCCCTGGCCGAGGCGAAGCGGCAGGCCCTCCGA
GGACGCCCTGACGGTCATCAACCAGCAGGAGGACTCCAGCGAGAGCTGCTGGAACCTGCGGGCGGAAAGCCAGTGA
GACGTGCAGCGGTGCAACGCGGCACGCTACTGCGGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACCA
CGTGTGTGGCCAGAGCCTGCAGGGCCCCACAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCCGCCCA
CAGCCTGGGCCCCCTCCCTGCCTGTGGGTGTGTCAGCCCCAGCGAAGCCGGCTCTGCGGGGCCCTTCTCGCCCCGG
CTCCCCCAGCCACCTGGCCCACTGGACACCGTGCCCCGCTGACCCCACTGGCCCCCTGGCCTGCCGGACACAGCA
CCGTGCCAACCCCAACCAGCTCCAGGCCACCGGATGCTGTGCTGGCCTCCGATGCCTGGCCTGCCAGACACTG
CGCCCCGCTGACCTGGGGGAGCCGACCAATTAGTCACTGCTGCTACTGCCCCCTCTCCGAAAGAAGACACAGAAC
CAACAAAACCGCATTCACTGCACCTGCCTCAGCTACCTAATGATTCCGCGCGGAGACCTCCTGACAACGTCTCTT
CAAGCATCCTCAGAAGCCTCGACTGAGCTTTAGACAGCAGAGCAGATGCCGCGAGGCGGGCGGCTCTGCCACCT
CTCTTTCTCTCTGTCTGTCTCTCCCCCTCTGTCTTCTCTATCCTCTCTCTCTATGACTATCACACTTTC
TCTTCAATGAAAAATCGAATTGGTGGCTTATATTTTCAGCAAAGAAATTTGGGGGGTTTTGTGTGTTGGCAAAA
GAGCTACTCAGAAATGGACAAAGAAAACGGGGGGGTTCTCCCCCTCCTGATTAAAAAGGGAGAAAGAAAACCTGCG
ATTTTATAGCTGGAGATCTGAACCCAGCTGTGCCCTCCCCAGGGGCGTGAGGCTGATCAGCGAAGACGGGAGG
AAAGATTTTCGATTTCTGACTCAAGATGCATTTTGGTTTCAGATTTTCTTCTGTAATGTTAAACTCTTTGGC
TTTAAGTAAAAATCCAAAAAGTTTTTTTAAAAAAGCAAAGGAAGCATACTTGTGAACCTACCTTGCTAGCTAGCCA
GCCAAGGATACCGGACACACCTCTGCTCCAAAGGAAATCCAAAAAGCAAACACAAGAAATCAAATCCAAAAAT
TGTTTGTCACTGCCAAAGTATTTTTTTCACTGTTTCACTTGCTCTTGGGTTTGTGTTGGATGTGGGTCTTTTTCTC
TTCTGTTCTGATTTTGTGTTGTGGGIGTCGGGATATTTGGGTGCAGAGGGTTTGTGCCAGTTAGAAGCGACTTTT
GTTCTCTTCTGCGTAGGCGTTGGTGCCTCCGCCGCGTGTGCGTGGTCCGTGTGCCGTTGCTCCGGCCTGCGTCTC
CATATGTGTAGGAAAGGACACGCCGTCTGTCTCAGCCCCCTGTGACTTTTCAATTTCCGTTTTTCACTTGTG
GAAAAAAGTGCTAAAGTTTTCTTCCCAGAGAGAGCATAATCCGAAACAAAACCTGTGACAATCTTTGGGTGA
TTCTCGACTGCTTTTCGAGCATGCGGAGCCAGCAGGCCTCCCTGAAACACTGCTTCTCGGCCAGCCCGTCTCTCT
CTACCTCTCTCTCTCCGCGCCCTCCGACCTCTCTCGGCCCCCTCACCCAGCTCCGACCTCTCTCAGCCCCATC
GCCCCAATCCAACCTCTCGGCCCATCGCCCCACCGCAGCTACTCCCTTTCTTCCAACTTTTGCAGAAAAAA
CAAAAAAATAACAAACAAAAGCAGCCCTCTGCCTCTCCCCAGGGAAGACCCTGACCGTGTACATAGCCCTGGTG
CTCCTGCCAGCCACCCCTCAGATGCGTTGCGCTCTGGCCCTGGGGTGTGTCTCGGTGACGTTTTCTATCAGACG

3927/5332
FIGURE 3420B

TGCTCCCTCCCATCCTCCAGCCCTGCCCACCCTCCCTCCACTCCTCTCAACTGCCTCAGCGATTTCAGAAGGAA
ATAAAGGGATAAAGAAATTCATGCTTGCACCGAGTACAAGGACAGACAGCAGGCACGGCCCGCAGCCTGGCATCT
GTGCGTGTGGCGTGGCCCGTGGCTTGGCATCTGTGTGCGTGGTGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGC
GTGGCCCGTGGCCTGGCATCTGTGTGTGTGGCGTGGCCCGTGGCCTGGCATCTGTGCGCGTGGCGTGGCCCGTGG
CCTGGCATCTGTGTGCGTGGCTATCAGGAGTTCTAGGAACTCAGTGCAATACGGGAGTGACCCAGCTACTGAACC
AGCCACGAACAGCCCGCCAGAGGCCTGAAGCTGAGCGGTACGTTAATGTGAATGTATATAGTCTTGCAGAGGT
CCAAATGATATTCATGATGGTAATAAACGAGATGTTGCCAAATAAAAAA

3928/5332
FIGURE 3421

GGAGTCTCGCGAGGATCTTGTGACTTATCGCGGCATCGCCACGCGTTGCCGGGAAACGGCGTGGCTTCCGGGGG
CGGGCGCCCTGGTCCCGGAGTCGCCGCTGGGCCTGTCCGCTGGCGTCA**ATGG**CACCGAAAAAGAAAGGGAAGAAAG
GCAAAGCCAAAGGCACCCCCGATTGTGATGGGCTCGCTCCAGAGGACATGAGCAAGGAGCAGGTGGAGGAGCATG
TCAGCCGCATCCGGGAGGAGCTGGACCGCGAGCGGGAGGAACGAACTACTTCCAGCTGGAGCGGGACAAGATCC
ACACCTTCTGGGAGATCACACGGAGGCAGCTGGAGGAGAAGAAGGCTGAGCTGCGGAACAAAGACCGGGAGATGG
AAGAAGCCGAGGAGAGGCACCAGGTGGAGATCAAGGTGTACAAGCAGAAAGTGAAGCACCTGCTATATGAGCACC
AGAACAACCTGACAGAGATGAAGGCTGAGGGCACTGTAGTCATGAAGCTGGCACAGAAAGAGCACC GCATACAGG
AGAGTGTGCTGCGCAAGGACATGCGGGCACTGAAGGTGGAGCTCAAGGAGCAGGAGCTGGCCAGTGAGGTGGTGG
TGAAGAACCTGCGGCTGAAACACACCGAGGAGATCACCAGGATGCGGAATGATTTTGAGAGGCAAGTTCGAGAAA
TTGAGGCCAAGTATGATAAGAAGATGAAGATGCTGAGGGACGAACTCGACTTGCGGAGAAAGACTGAGCTCCACG
AAGTGGAGGAGAGGAAGAATGGCCAGATCCACACGCTGATGCAGCGCCACGAGGAGGCCTTCACCGACATTAAGA
ACTACTACAACGACATCACCTCAACAACCTGGCCCTCATCAACTCCCTCAAGGAGCAGATGGAGGACATGCGGA
AGAAGGAGGACCACCTGGAGAGGGAGATGGCAGAGGTGTCTGGGCAGAACAAAGCGCCTGGCAGACCTCTCCAGA
AGGCTCGGGAGGAGATGAGCGAGATGCAGAAACAGCTCGCAAACCTACGAGAGGGACAAGCAGATCCTGCTTTGCA
CAAAAGCCCGTTTTGAAAGTCAGGGAGAAAGAGCTGAAAGACCTGCAGTGGGAGCATGAAGTGTAGAGCAGCGAT
TCACCAAGGTGCAGCAGGAGCGGGACGAGCTCTATCGGAAGTTACCCGACGCCATCCAGGAGGTGCAGCAGAAGA
CAGGGTTCAAGAACCTCGTGCTAGAACGCAAGCTGCAGGCTCTGAGCGCCGCTGTGGAGAAGAAGGAGGTGCAGT
TCAACGAGGTCTGGCTGCCTCTAACCTGGACCTGCAGCCCTGACGCTGGTGTCCCGCAAGCTGGAGGATGTTT
TTGAGTCGAAGAACAGCACCATCAAGGACCTGCAGTATGAGCTGGCCCAGGTCTGTAAGGCCCATACGACCTGC
TGCGCACGTATGAGGCAAAGCTGCTGGCCTTCGGGATCCCTCTGGACAACGTGGGCTTCAAGCCCTTGGAAACAG
CTGTGATCGGACAGACACTGGGCCAGGGCCCCGCGGACTGGTGGGCACCCCGACG**TAG**CTGCCCCCTGGGGGG
CCACAGCCCAGAGAACCAGCCTAGGAACACTCGGGATGACACCCCTTATCACACCAAGGACAGCAAGTTTTTTAG
ATTTTATCATCAGCAAATGAAAGCTTTTACATGTTCTTGCCATCCTCTTTCTGGCTCTGTGGAGGAGAACCAC
CTGCAGGAACCTCACCCATGGTGTCCCTGTGCTCCCTTCCCTGGGTGCCGCACGTCCAGCCTGTGTCCAGGCCT
ACTCCCTGGTCTCACCTCCGACCACAGTCGGCGGCACCTTCTCAGAGTGCCCCGCACTCACCTGGGGGTGGGGC
AGTGCCGCGCTGTGCTGCCTGTCTTCGCGCCACTGTGTGCCACCGAATGGACAGCTTTGCAGGTGTGCGACTA
ACTTCATTGACACCTGAGTCACAGCTGCCCAGTGGGATTCTCCAGGGGGCCGGGACTTCCCTAGGAAGTGGTGAG
CCAATGCTCCCTGATGAGCACAAAGCCCGCTCTGTTGAGGGCTGGGTGGGTGCAGCCAGCGTGCQGAACGGGCA
GGCAGCCTCCCGCTGCCAGTCTTCGCTCTAACTCCCTCGGTAGGTGATGTAGGACCAGGGGCACGTGGAACCTTCT
GGCCTTGCTGGTGATGGTTAAACAACCTGAGATGGAGAGGCCAGGAGAGAGTATAAGGGGATAGCAGCAAACC
ACCTATCTGGCCCCAACACACCTGAGAGAATTACAGCAGCCAGACTGAGGGTCTGGGATGGGGTGAACCTTCCGC
ACCAGAGGGACACTCCACAGAAGCCACAGCCAGTAAGTCAGGCGCTTCTGCGCGGCTCCAGTGTGGGGTGAGG
CAGTGAGGTTAGGCCAGAGAGCTGGAGTTGGCTCAGATGAAAACCTCTGTCAACAAAGAGGGGATGAATCACCC
TTGGCCAGCCTCCCCACAAAGCCTGACCCTGGGCAGGTGAGTGACGGGTGTGCTCCTCGTAGAGTCTATTGCTGC
CTGGACACCTTTCTTTTGGGAGCTCAAAGCAAGTGAGCTACCTACCTGCCACCGCCAGGACCAGTCTGCCAC
TGCTTAAATGATGCCCAGGACAGCAGGACCTGGCCTGCAGATCCCAGTGAGTCATGAGCCTCAGCCCCCTCCAGCC
CACTGGGGCTCTCACCTCCACATGTGGGTAGAAGCTTTCCTGCCCCCTCTTCTCCTCAGTAGCCCTCAGTGTGAA
GGTGAGCTTGTAGGTGCCTGCCTTATCTGGTCCAGGACAGTGACCATCTGGGTCTGTGTAGCTGGGGAGAGGAT
GAGGCTGCAGAGATGGGGACCAGAAGCCCCCACCACAGCTTTCTGGGTCTGCATCCCAGTGGGCCTCAGACAC
TGCCCTGCCACCTGTGAGACTTGGGTGAGCAGACACAGTGAGGCTGTTAGGTCTGCAGTTCAGAGCAGTCTAG
GGACACCACTGCCCTGTCTTTAGGAAATCACACACAGAGAAGCAAAAAGGGAAAAAGTCTCCACAAATTTATCC
CATGAGCAAGAACCACCTTTATAGCTGGCATATATTTTCCAGATTTTCTCTATGCATAAGTATATTTGTTTAAAA
ACTTATAAAGTGGATTATACTATTTGTATTGTTTT

3929/5332
FIGURE 3422

GTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTAAAAAATAAATAAACA
TGGGAGAAACCTGGAAGAATATTTGCTCAACTGTGAGGCATGGTTGGTGGCTAAGGGATCACAGAAATGGCAGGCC
TGCCTATTCTCTCTGAGATCGTTAAGGAGGCTGAGGTGCCGAGGCTGCGCTGGGCGTCCCAGCCCAGGGGACAG
GGGACAATGGCCACACGCCTGTGGAGGAGGAGGTGGGGGCGATCCAGTACCAGCACCGGGGCTCCTGCAGGTCA
CGGAGAGGAGGCAGCCTCTGAGCAGCGTCTCCTCTCTGGAGGTCCACTTCGACCTCCTGGACCTCACTGAGCTCA
CCGACATGTGCGACCAGGAGCTGGCCGAGGTCTTTGCTGACTCGGACGACGAGAACCTCAACACCGAGTCCCCAG
CAGGTCTGCACCCGCTGCCCCGGGCGGCTACCTGCGCTCCCCCTTCTGGACGAGGACAAGGGCTGAGCAGAGCC
ACGAGAAGCAGCCCCCTAGGCGACCCGAGCGGCAGGCCACAGTCTGGACACGTTTCTCACTGTGGAGAGGCCCC
AGGAGGACTAGACCATCTCCACCTGCCCCAGCTCCTGCAGGGATGGGGTCCGAACACGATGGCAGATCTGGGCAG
TGCTGACCCAGCAGACACACTTCACCCGCCACGAGGCTCCAGCCGTACCTCCTGACACACACCTTGGGGGCGAG
CTCTCTGCCAGCCCCGAGACCGGCTTGCTGCTGGGCACGGGTCTTCGCCTCACTTGAGACCAGCCGGCTTTC
CTGGGGGACACACGGGGCCCCCGGATGCCTCTGGGAGCCCCAGCACAAAGCACAGCCCAGTGGCCTTACGTCCAGC
TCGTTTCTGGGCCCCGAGTCAGGAAGACAGCGTCACGGAGTCACTGCCAGGAACGTGCTGAGGAATGGAGTGGCC
CACGGCGGCCTTGGGGTGAAGGGGACCCAGGCCTGTGACAGCCACTCCAGGAACCTCTGGGGGTGCTCCAACCTC
CGCGTTTTTCTGTGCTGCCAAGCTCAGAAGCCAGAGGCGGGTTTGGTAGTGGCTAATGGGACAATGTGCTGTCCA
GCAAAGCACACATGGAGAAGCGGGCCCCAAAATTTCCACCTTGATTTCCATCCTGCCCTTCTTCTACTCCACGGA
GGCGCTGTCTCACTAGGGTCCCCCTCCCCAAGGCTCAGCTCTAAGACCTGCACCTGCTTCTCTTGGCCCCCTGCGTG
ACAGACAAGTCCATTCCCTCCTTAGCTCAGAACACCAAATATCACCAGACTGCCTAAGAGACTTGATGACACCTC
CCGGAATGCTCTCGGGGTGGGGTTCACTCTCCTTGCTGCTGACCCACTGCTAGGCCACATTCTCGTTTTCTGCTC
ACATCCCATTGCCCCGCTACAAGGCCTGCCACGGCCCTTAACTTGCTGGGCAGGTTTGGAGCCCATGGGACCC
CGTGGGTCTCTGTCCAGGAGCAGCAGAGGAGGCTGACAGGCCCTGCTCCCTCTGCTCTGGGGGTGCTGAGGAGCC
CCAGCTCACACCTCCCAATGCTTATATGCTGAAGCTCACAGAATGGGCTTCTTGCTGACAGCAAGTCAAAGAA
TGAGTTTAAATACAAAGTGTAAAGCTTACTTTCCATCCCCAAGCCAGCCTGCCCCCTGCCCCATTTCCCATGAGCA
CACTTCTGGGGAAGGAAAACAGGCTCCTGGCCTTCACTCTCAGCAGAGCTTTGGAGATGCCCCAGGCATGCCCTG
AGCTCCTTCTGTGTACCTGCTCCCACTTCTGAGCCACCCGCTGCCCCCTCCGCACTGCTGGCAAACCCAGTTCTTG
CCTCAGCCAGGTCTCCTTCCCTGGTTTCCAGTCACACAGAGCCCAGCAGCTTTCTTTTCACTCCATAAGGGCA
GCCTTGCTGCTCCCTGGCCACACTTCCACCCGCCAGGGTCTTCTCCCCATCTTTCCATCCTTCTGCTGAGCTTCC
ACAGAGCTCGTTTGCAAACAGGGGGATTAAAGCATCACTGCGCATTCG

3930/5332
FIGURE 3423

AGATGCGAGGCGGCGGTGAGCAGGTGCCGAACCCACGGCCAGGCTTCCGTGGCCAGCAGCCCTAGAGGAATGGCC
ATCCTGTCCCTGCGAGCCCCCTGGGCCCTGGCAGGCGATGCAGGTGGGATGCTATGGAATATGATGAGAAGCTGGC
CCGTTTCCGGCAGGCCCCACCTCAACCCCTTCAACAAGCAGTCTGGGCCGAGACAGCATGAGCAGGGCCCTGGGGA
GGAGGTCCCGGACGTCACCTCCTGAAGAGGCCCTGCCTGAGCTGCCCCCTGGGGAGCCGGAATTCGCTGCCCTGA
ACGCGTGATGGATCTCGGCCTGTCTGAGGACCACTTCTCCCGCCCTGTGGGTCTGTTCTGGCCTCTGACGTCCA
GCAGCTGCGGCAGGCGATCGAGGAGTGCAAGCAGGTGATTCTGGAGCTGCCCAGCAGTCGGAGAAGCAGAAGGA
TGCCGTGGTGCGACTCATCCACCTCCGGCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACAT
CCGAGTGCTCCTTGAGCACCGCTTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGTAACAC
CATCATCTGGGGGCTCATTGAGACCTGGTACACCTGCACAGGTGGGCCGAGACCCAGACGAGGAGTGAGGAATGA
GAGAGACCAAAGTTCCTGCCTCCGCTGGGCTCACATTGAGATGTGAGCTATCCAGTGTTGGTGGCCACTAGCCAAA
CATGGCCAGTCAAAGTTAAATTAATAAATATGCATTCCTCGTTGTACTGTCTACATTGGACAGGGCTGTTCTG
GATGAGAAATTAACTAGTGAATTAC

3931/5332
FIGURE 3424

AGCCCGGGGCAGCCAGCAGTACCGGGCCCTGACCGTGCCCGAGCTCAGCCAGCAGATGTTGATGCCAAGAACAT
GATGGCGCCGCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCG
TGGAGTGGATCCCCAACAAACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGCCTCAAGATGTCCTCCACCT
TCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCA
AGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACG
ACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGG
AGGAGTCGGAGGCCAGGGCCCCAAGTGAAGCTGCTCGCAGCTGGAGTGAGAGGCAGGTGGCGGCCGGGGCCGAA
GCCAGCAGTGTCTAAACCCCGGAGCCATCTTGCTGCCGACACCCTGCTTTCCCTCGCCCTAGGGCTCCCTTGC
CGCCCTCCTGCAGTATTTATGGCC

3932/5332
FIGURE 3425

GGAGAGGGTGTGAGGGCAGATCTGGGGGTGCCCAGATGGAAGGAGGCAGGCATGGGGGACACCCAAGGCCCCCTG
GCAGCACCATGAACTAAGCAGGACACCTGGAGGGGAAGAACTGTGGGGACCTGGAGGCCTCCAACGACTCCTTCC
TGCTTCCTGGACAGGACTATGGCTGTGCAGGGATCCCAGAGAAGACTTCTGGGCTCCCTCAACTCCACCCCCACA
GCCATCCCCCAGCTGGGGCTGGCTGCCAACCAGACAGGAGCCCGGTGCCTGGAGGTGTCCATCTCTGACGGGCTC
TTCTCAGCCTGGGGCTGGTGAGCTTGGTGGAGAACGCGCTGGTGGTGGCCACCATCGCCAAGAACCGBAACCTG
CACTCACCACATGTACTGCTTCATCTGCTGCCTGGCCTTGTGCGACCTGCTGGTGAGCGGGAGCAACGTGCTGGAG
ACGGCCGTCATCCTCCTGCTGGAGGCCGGTGCCTGGTGGCCCGGGCTGCGGTGCTGCAACAGCTGGACAATGTC
ATTGACGTGATCACCTGCAGCTCCATGCTGTCCAGCCTCTGCTTCCTGGGCGCCATCGCCGTGGACCGCTACATC
TCCATCTTCTACGCACTGCGCTACCACAGCATCGTGACCCTGCCGCGGGCGCGGCGAGCCGTTGCGGCCATCTGG
GTGGCCAGTGTCTCTTACGACGCTCTTCATCGCCTACTACGACCACGTGGCCGTCCTGCTGTGCCTCGTGGTC
TTCTTCCTGGCTATGCTGGTGCTCATGGCCGTGCTGTACGTCCACATGCTGGCCCGGGCCTGCCAGCACGCCAG
GGCATCGCCCGGCTCCACAAGAGGCAGCGCCCGGTCCACCAGGGCTTTGGCCTTAAAGGCGCTGTACCCCTCACC
ATCCTGCTGGGCATTTTCTTCTCTGCTGGGGCCCCCTTCTTCTGTCATCTCAGCTCATCGTCCTCTGCCCCGAG
CACCACAGTGCAGCTGCATCTTCAAGAACTTCAACCTCTTCTCGCCCTCATCATCTGCAATGCCATCATCGAC
CCCCTCATCTACGCTTCCACAGCCAGGAGCTCCGCAGGACGCTCAAGGAGGTGCTGACATGCTCCTGGTGAAGCG
CGGTGCACGCGGCTTTAAGTGTGCTGGGCAGAGGGAGGTGGTGATATTGTGTGGTCTGGTTCTGTGTGACCCTG
GGCAGTTCCTTACCTCCCTGGTCCCCGTTTGTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTTGAAG

3933/5332
FIGURE 3426

GCCGAGTTTTCTGCGCTTCCTTCTCCCTCTCTCCAGACGTCGTGGTCGTTTCGGTCCTATGTCGCGCCGGGCCCTC
CGGAGGCTGAGGGGGGAACAGCGCGGCCAGGAGCCCCTCGGGCCCGGCGCCTTGCATTTCGATCTCCGTGATGAC
GATGACGCGGAAGAAGAAGGGCCCAAGCGGGAGCTTGGTGTCCGGCGTCCCGGGGGCGCAGGGAAGGAGGGCGTC
CGAGTCAACAACCGCTTCGAGCTGATAAACATTGACGATCTTGAGGATGACCTGTGGTGAACGGGGAGAGGTCT
GGCTGTGCGCTCACAGACGCTGTGGCACCAGGGAACAAAGGAAGGGGTACGCGTGAAACACAGAGAGCAAGACG
GATGGAGATGACACCGAGACAGTGCCCTCAGAGCAGTCTCATGCAAGTGGCAAACCTCCGGAAGAAGAAAAAAA
CAGAAAAACAAGAAAAGCAGCACGGGAGAAGCATCGGAAAACGGACTAGAAGATATCGATCGCATCTTAGAGAGG
ATTGAGGACAGCACTGGGTTGAACCGTCCCGGCCAGCTCCCCTGAGCTCCAGGAAGCACGTTCTCTACGTGGAG
CACAGACACTTGAATCCAGACACAGAACTGAAAAGGTATTTTGGTGGCCGGGCAATCCTGGGGGAGCAAAGGCCA
CGGCAGAGACAACGTGTGTACCCCAAGTGACATGGCTGACCACCCCTAAAAGCACCTGGCCCCGCTACAGCAAA
CCAGGTCTGTCCATGCGGCTGTGGAATCAAAAAAGGCCTCTCCTTCTTTGCGTTTGAGCACAGTGAGGAGTAC
CAGCAGGCTCAGCACAAAGTTCTGGTGGCCGTGGAGTCTATGGAGCCGAACAACATCGTGGTTCTGCTCCAGACG
AGCCCTTACCACGTTGACTCACTCCTGCAGCTCAGCGATGCCTGCCGCTTTCAAGAGGATCAGGAGATGGCTCGA
GACCTCGTAGAGAGAGCGCTGTACAGCATGGAATGTGCGTTCCACCCCTGTTCACTCTCACCAGTGGGGCCTGC
CGGCTGGATTACCGCAGACCCGAGAACAGGAGCTTCTACCTGGCCCTCTACAAGCAGATGAGCTTCTTGAGAAG
CGAGGCTGCCCGCGCACGGCGCTGGAGTACTGCAAGCTCATCCTGAGTCTCGAGCCGGATGAGGACCCCTCTGC
ATGCTGCTGCTCATCGACCACCTGGCCTTGCGGGCCCGGAACACGAGTACCTGATCCGCTCTTCCAGGAGTGG
GAGGCTCATCGGAACCTGTCCAGCTCCCTAATTTTGCTTCTCTGTTCCACTGGCGTATTTCTGCTGAGCCAG
CAGACAGACCTCCCTGAGTGTGAGCAGAGCTCTGCCAGGCAGAAGGCCTCTCTCTGATACAGCAGGCGCTCACC
ATGTTCCCTGGAGTCTCTCTGCCCTGCTCGAGTCTTGCAAGTGTGCGGCCGACGCCAGCGTTTCCAGTCACCGC
TTCTTTGGACCCAATGCTGAAATAAGCCAGCCCCCTGCCCTGAGCCAGCTGGTGAACCTGTACCTTGGGAGGTCA
CACTTTCTCTGGAAAGAGCCCGCCACCATGAGCTGGCTGGAGGAGAACGTCCACGAGGTCTGCAAGCAGTGGAC
GCCGGGACCCAGCCGTGGAAGCCTGTGAGAACCGGCGGAAGGTGCTCTACCAGCGTGACCCAGGAATATCCAC
CGCCATGTGATCCTCTCTGAGATCAAGGAAGCCGTGCTGCCCTGCCCGGACGTGACCACGCAGTCTGTGATG
GGGTTTGATCCTCTGCCCTCCTTCGGACACAATCTACTCCTACGTCAGGCCAGAGAGGCTAAGTCTATCAGCCAT
GGAAACACCATTGCTCTCTTCTTCCGGTCACTGTTGCCAAACTATACCATGGAGGGGAGAGGCCCGAGGAAGGA
GTGGCTGGGGGTCTGAACCGCAACCAGGGCCTGAACAGGCTGATGCTGGCTGTGCGCGACATGATGGCCAACTTC
CACCTCAACGACCTGGAGGCGCCGACGAGGACGACGCTGAGGGGGAGGGGGAGTGGGACTGAGCGTCCGCAGAG
GTGACCGAAAAGCCGTATGATGATGTTCCCGATTTCTCTGTTGGTTCGGAGTCGGCCAGTTGCCTGAAGTAGGGAA
GCTGAGTGTGCTCGCTCCCTGGTCCACTGTTTCTCCTATAAATGTAAATGGGTC

3934/5332
FIGURE 3427

CTTGCTTTGTACCCAGGCTGGAGTGCAGAGGCCCGATCTCGGTTCACTGCAACCTCCACCTCCCAGGTTCAAGC
GATTCTCCTGCCTCAGCCTCCCAAGTAAATGGGATTTCAGGCGTGCACCACCACGCCAGCTAATTTTTGTATTT
TTAGTAGAGACGGGGTTTCATCATGTTGGTCAGGCTGGTCTTGAACCTCCTGACCTCGTGATCCGCCCGCCTCGGC
CTCCCAAAGTGCTGGGATTACAGGTGTGGGCCACCGCGCCCGGCCGGAACATCCTTTTCATCCGGTCCATGTCT
TGCTTGTGCCTTGGTCTCTTGTGGACCGACAGCTGCTGTCTCCCTGGCCGGGTGCTGGGCCCTCTGCACCCACCA
GCCGCGTTCTCCCGCCCCACCCCTGCAGTACCGCCAGTGACCGCGCCCTGTCCCGCAGACCGTGCAGTCC
CTCGGCTTCGCCATCTACCGCGCGCTGGACTGGGGGCTGGACGAGAGCGAGGAGCGCAACTCAGCCCTCAGCTG
GAGCGGCTCATCGACCTCATGGCCAACAACGACAGCGAGGACAGCGGCTGCGGTGCCGCCGATGAGGGCTACGGG
GGTCCCGAGGAGGAGGAGGAGGCCGAGGGCGTCCCCCGCAGCGTGCACACCTTTGCCAGGCCATGCGGCTGTGC
GCGGCGCGGCTGACCGACCCCGGGGCGCACAGGCGCATTACCAGGCCGTGTGCCGCGCTCTTCGTGGAGACG
CTGGAGCTGCGGGCTTCCTGGCCAGGGTCCGGGAGGCCAAGGAGATGCTGCAGAAGCTTCGGGAGGACGAGCCG
CATCTGGAGACGCCTCGGGCAGAGCTGGACAGCCTGGGTACACAGACTGGGCCCGACTGTGGGTTTCAGCTCATG
CGGGAGCTCCGCCCGGAGTGAAGCTGAAGAAGGTGCAAGAGCAGGAGTTCAACCCCTCCCCACCGAGTTCCAG
CTCACGCCCTTCGAGATGCTGATGCAGGACATCCGGGCCCGGAATAAGCTGCGCAAGGTCATGGTGGATGGG
GACATCCCGCCCCGGGTGAAGAAGGACGCTCACGAGCTCATCCTGGACTTTATCCGCTCACGGCCTCCACTGAAG
CAGGTCTCTGAGAGGCGGTGCGCCCGTGGCACCACAAAGCAAAGTCCCTGCATGAGAAGATCCTGGAGGAGATC
AAGCAGGAGCGGAGGCTGCGCCCGGTGCGGGGCGAGGGCTGGGCTGCCCGCGGTTTGGCTCTCTGCCCTGCATC
CTCAACGCCTGCTCCGGAGATGCCAAGTCCACCTCCTGCATCAACCTGTCACTCACAGATGCTGGGGGACGCGCC
CAGCGCCCGCGGCCCGCGTGTCTCAAGGCGCCTACCTTGGCTGAAATGGAAGAGATGAATACATCTGAGGAA
GAAGAGTCTCCGTGTGGGGAGGTGACGCTGAAACGGGACCGCTCCTTCTCAGAGCATGACCTGGCCCAGCTCCGA
AGTGAGGTGGCCTCTGGCCTGCAGTCGGCCACCCACCCCGAGGAGCGGAGCCACCACGGCCCCGAGCTGGC
AGTGCGCATGTGTGGAGGCCCGGTCCCGAGACAGGCTACCTGTCCCGGAGTGTCTCTGACCCACGCCACCC
CTACTCAGCAACCGGGCTCCTCGGGGACAGACCCGAGGCTCCATGACCCCGATGCCAAACACCTGTGGCTG
GAGTTACGCCACCCCGTGGAGAGCCTGGCGCTGACTGTGGAAGAGGTGATGGACGTGCGCCGTGTGCTGGTGAAG
GCCGAGATGGAAGGTTTTTGCAGAACAGGAGCTCTTCAGCAGTCTGAAGAAGGGGAAGATTGCTGCTGCTGC
CGGGCCAAGTTCCCGCTGTTCTCGTGGCCGCCAGCTGTCTCTTCTGCAAGAGAGCGTCTGCACTTCTGTAGC
ATAAGATGAAGATGCCTTCTAAGAAATTTGGACACATCCCTGTCTACACACTGGGCTTTGAGAGTCTCAGAGG
GTATCAGCTGCCAAAACCGCGCAATCCAGAGAAGAGACATCTTTCAGTCTCTGCAAGGGCCACAGTGGCAGAGC
GTGGAGGAGGCGTTCCCCACATCTACTCCACGGCTGTGTCTGAAGGATGTCTGCAGTGAGTGACCAGCTTT
GTGGCAGACGTGGTGCCTCCAGCCGCAAGAGCGTGGACGTCTCAACACTACGCCACGACGCAGTCGCCAGACC
CAATCCCTCTACATCCCTAACACCAGGACTCTTGACTTCAAGTGACAGCCCCAGGTGGCCAGGCCTCCAGGAGGC
ACCAGGCAGGCCCTGTATCAGGCTAGGACGCTCTGAGCTGTGCATGTACATATATACATATATAGATACATTTAT
AATATATACACACAGTCTATATATTTATATACACTGTTTCTGGCCCCAGAGCTCATTTGGGTTTCAGGCGCACTT
CAAAACCTCCCTGGGGGAGGCTGTTTCTTCTCAGGATTCTTGCCAGGGAGGAAGGGGAGGGAACAGGGTGGGT
TTTCTCACTGAAGAGAGAAAGCAGAAGGTTCTAGATCCTGGCACAGACTGCATCCCATGTTCCCATGCTCTTCTC
CGTCCCAGGAATGCGAACGGCAGTTTCCCTTCCCAGTGGACGTCTAGGTGGGGACAGGGTATCTTGGCTCCCA
GCTGGACCAGAGTGCCCTGCTTGCTCTGCTCTCCCTTTGTGGGACTCAGGCAGCAGAGGCATCTGGGAAGTCT
CTGAGTAGGCAGGTCCTCCTGGGAGGCACCCACCTGTTTGAAGGTCTGGCCAGGCGTGGTGGTTTCAGGCCT
GTAATTCCAGCACTTTGGGAGGCCGAGGAGGGAGGATCA

3935/5332
FIGURE 3428A

AGCCGCCGCCGGGGCTGTAGGCGCCAAGGCCATGTCGACTCGTGGGTCCCGAACTCCGCCTCGGGCCAGGACCC
AGGGGGCCGCCGGAGGCCTGGGCGGAGCTGCTGGCGGGAAGGGTCAAGAGGGAAAAATATAATCCTGAAAGGGC
ACAGAAATTAAAGGAATCAGCTGTGCGCCTCCTGCGAAGCCATCAGGACCTGAATGCCCTTTTGCTTGAGGTAGA
AGGTCCACTGTGTAAAAAATTGTCTCTCAGCAAAGTGATTGACTGTGACAGTTCTGAGGCCTATGCTAATCATTC
TAGTTCAATTTATAGGCTCTGCTTTGCGAGGATCAAGCCTCAAGGCTGGGGGTTCCCGTGGGTATTCTCTCAGCCGG
GATGGTTGCCTCTAGCGTGGGACAGATCTGCACGGCTCCAGCGGAGACCAGTCACCCTGTGCTGCTGACTGTGGA
GCAGAGAAAGAAGCTGTCTTCCCTGTTAGAGTTTGCTCAGTATTTATTGGCACACAGTATGTTCTCCCGTCTTTC
CTTCTGTCAAGAATTATGGAATAACAGAGTTCTTTGTTGCTTGAAGCGGTGTGGCATCTTCACGTACAAGGCAT
TGTGAGCCTGCAAGAGCTGCTGGAAAGCCATCCCACATGCATGCTGTGGGATCGTGGCTCTTCAGGAATCTGTG
CTGCCTTTGTGAACAGATGGAAGCATCCTGCCAGCATGCTGACGTCGCCAGGGCCATGCTTTCTGATTTTGTTC
AATGTTTGTGTTTGAAGGGATTTTCAGAAAACTCAGATCTGAGAAGAACTGTGGAGCCTGAAAAATGCCGCAGGT
CACGGTTGATGTACTGCAGAGAATGCTGATTTTGCACCTTGACGCTTTGGCTGCTGGAGTACAGGAGGAGTCCTC
CACTCACAAAGATCGTGAGGTGCTGGTTCCGAGTGTTTCAAGTGGACACACGCTTGGCAGTGTAATTTCCACAGATCC
TCTGAAGAGGTTCTTCAGTCATACCCTGACTCAGATACTCACTCACAGCCCTGTGCTGAAAGCATCTGATGCTGT
TCAGATGCAGAGAGAGTGGAGCTTTGCGCGGACACACCCCTCTGCTCACTTCACTGTACCGCAGGCTCTTTGTGAT
GCTGAGTGCAGAGGAGTTGGTTGGCCATTTGCAAGAAGTTCGGAACGCAGGAGGTTCACTGGCAGAGAGTGTCT
CTCCTTTGTGCTGCGCTGGTTGTCTGCTTTCCAGAAGCGCAGCAGCTGCTTGAAGACTGGGTGGCGCGTTTGAT
GGCCCAGGCATTCGAGAGCTGCCAGCTGGACAGCATGGTCACTGCGTTTCTGGTTGTGCGCCAGGCAGCACTGGA
GGGCCCCCTGCGTTTCTGTATATGCAGACTGGTTCAAGGCCCTCTTTGGGAGCACACGAGGCTACCATGGCTG
CAGCAAGAAGGCCCTGGTCTTCTGTTTACGTTCTTGTGCAACTCGTGCCTTTTGAGTCTCCCGGTACCTGCA
GGTGCACATTCTCCACCCACCCCTGGTTCCCGGCAAGTACCCTCCCTCCTCACAGACTACATCTCATTGGCCAA
GACACGGCTGGCCGACCTCAAGGTTTCTATAGAAAACATGGGACTCTACGAGGATTTGTATCAGCTGGGGACAT
TACTGAGCCCCACAGCCAAGCTCTTCAGGATGTTGAAAAGGCCATCATGGTGTTTGAGCATAACGGGAACATCCC
AGTCACCGTCATGGAGGCCAGCATATTAGGAGGCCTTACTACGTGTCCCACTTCTTCCCGCCCTGCTCACACC
TCGAGTGTCTCCCAAGTCCCTGACTCCCGTGTGGCGTTTATAGAGTCTCTGAAGAGAGCAGATAAAATCCCCC
ATCTCTGTACTCCACCTACTGCCAGGCCTGCTCTGCTGCTGAAGAGAAGCCAGAAGATGCAGCCCTGGGAGTGAG
GGCAGAACCCTACTCTGCTGAGGAGCCCTGGGAGCTCACAGCTGCACCTGGGAGAGCTGAGAGCTCCATGAC
AGACCCAGCCAGCGTGATGTTATATCGGCACAGGTGGCAGTGATTTCTGAAAGACTGAGGGCTGTCTGGGCCA
CAATGAGGATGACAGCAGCGTTGAGATATCAAAGATTACGTACAGATCAACACGCCGAGACTGGAGCCAGGGA
ACACATGGCTGTGGACCTCCTGCTGACGTTCTTCTGTGCAACTGATGGCTGCTCCAGTGCTCGCTCCCGGGA
GAGGCAGGGTCCCTGGGCTGCCCTCTTCTGTGAGGACCATGTGTGGACGTGTGCTCCCTGCAGTGCTACCCGGCT
CTGCCAGCTGCTCCGTACCCAGGGCCCGAGCCTGAGTGCCCCACATGTGCTGGGGTTGGCTGCCCTGGCCGTGCA
CCTGGGTGAGTCCAGGTCTGCGCTCCAGAGGTGGATGTGGGTCTCTGACCTGGTGCTGGCCTTCTGTCCC
TGCGCTCTTTGACAGCCTCTGACCTGTAGGACGAGGGATTCTTGTCTTCTGCTGAAATTTTGTACAGCAGC
AATTTCTTACTCTCTCTGCAAGTTTTCTTCCAGTCACGAGATACTTTGTGCACTGCTTATCTCCAGGCCTTAT
TAAAAAGTTTCAAGTTCTCTCATGTTTCAAGATTGTTCTCAGAGGCCGACAGCCTCTTTCTGAGGAGGACGTAGCCAG
CCTTTCTGGAGACCTTGCACCTTCTTCTGAGACTGGCAGAGAGCTGCCCTCTCTCTGACACACAGAAC
CTTCCGAGAGGTGTTGAAAGAGGAAGATGTTCACTTAACTTACCAAGACTGGTTACACCTGGAGCTGGAAATTC
ACCTGAAGCTGATGCTCTTTAGATACTGAACGGCAGGACTTCCACCAGTGGGCGATCCATGAGCACTTTCTCCC
TGAGTCTCGGCTTCAGGGGGCTGTGACGGAGACCTGCAGGCTGCGTGATACCATCTTGTCAACGCAGTATGGA
TTTCCACCAAAGCTCAAGGAGTTATGACCACTCAGAAAATTCTGATTGGTCTTTGGTGGCCGCACAGGAAATGA
GGATATTATTTCCAGATTGCAGGAGATGGTAGCTGACCTGGAGCTGCAGCAAGACCTCATAGTGCTCTCGGCCA
CACCCCTTCCAGGAGCACTTCTCTTTGAGATTTTCCGCAGACGGCTCCAGGCTCTGACAAGCGGTGGAGCGT
GGCTGCCAGCCTTCAGAGACAGAGGGAGCTGCTAATGTACAAACGGATCCTCCTCCGCTGCCTTCTGTCTGCT
CTGCGGCAGCAGCTTCCAGGCAGAACAGCCCATCACTGCCAGATGCGAGCAGTTCTTCACTTGGTCAACTCTGA
GATGAGAACTTCTGCTCCACGGAGGTGCCCTGACACAGGACATCACTGCCCACTTCTTCAAGGGCCTCTGAA
CGCCTGTCTGCGGAGCAGAGACCCCTCCCTGATGGTCACTTCACTGCGCAAGTGCCAGACGAAATGCCCTT
AATTTTGACCTCTGCTCTGGTGTGGTGGCCGAGCCTGGAGCCTGTGCTGCTCTGCCGGTGGAGGAGACACTGCCA

3936/5332
FIGURE 3428B

GAGCCCGCTGCCCCGGGAAGCTGCAGAAGCTACAAGAAGGCCGGCAGTTTGCCAGCGATTTCTCTCCCCCTGAGGC
TGCCTCCCCAGCACCCAACCCGGACTGGCTCTCAGCTGCTGCACTGCACTTTGCGATTCAACAAGTCAGGGAAGA
AAACATCAGGAAGCAGCTAAAGAAGCTGGACTGCGAGAGAGAGGAGCTATTGGTTTTCTTTCTTCTCTCCTT
GATGGGCCTGCTGTCGTACATCTGACCTCAAATAGCACCAAGACCTGCCAAAGGCTTTCCACGTTTGTGCAGC
AATCCTCGAGTGTTTAGAGAAGAGGAAGATATCCTGGCTGGCACTCTTTCAGTTGACAGAGAGTGACCTCAGGCT
GGGGCGGCTCCTCCTCCGTGTGGCCCCGGATCAGCACACCAGGCTGCTGCCTTTCGCTTTTACAGTCTTCTCTC
CTACTTCCATGAAGACGCGGCCATCAGGGAAGAGGCCTTCTGTCATGTTGCTGTGGACATGTACTTGAAGCTGGT
CCAGCTCTTCGTGGCTGGGGATACAAGCACAGTTTCACCTCCAGCTGGCAGGAGCCTGGAGCTCAAGGGTCAGGG
CAACCCCGTGGAAGCTGATAACAAAAGCTCGTCTTTTTCTGCTGCAGTTAATACCTCGGTGCCCCGAAAAAGAGCTT
CTCACACGTGGCAGAGCTGCTGGCTGATCGTGGGGACTGCGACCCAGAGGTGAGCGCCGCCCTCCAGAGCAGACA
GCAGGCTGCCCCCTGACGCTGACCTGTCCAGGAGCCTCATCTCTTCTGACGGGACCTGCCACTGCACACCAGCCC
AGCTCCCGTGTAATAATTTATTACAAGCATAACATGGAGCTCTTGTTGCACTAAAAAGTGGAATTACAAATCTCC
TCGACTGCTTTAGTGGGGAAAGGAATCAATTATTTATGAACTGTCCGGCCCCGAGTCACTCAGCGTTTGCGGGAA
AATAAACCACTGGTCCCAGAGCAGAGGAAGGCTACTTGAGCCGGACACCAAGCCCGCCTCCAGCACCAAGGGCGG
GCAGCACCTCCGACCCTCCCATGCGGGTGACACGAAGGGTGAGGCTGACACAGCCACTGCGGAGTCCAGGCTG
CTAGAGGTGCTCATCCTCACTGCCGTCCCTCAGGTGGGTTTCGGGCTTCACCGCCTGGCCCTCTGTGGTCACAGAGG
GGCTCGGTGGCCCAGGTGGTGGTTCCGCCCTCCAGGGGCAGGGCCTTGTCCTGGGTCTGTGTCAGCGGGTGACCA
TGGACATGTGTACATTGAGGTTGTGGGCCTTCTCAAACCGCCGGCCACACTGGTCACAGGCAAAGTCCAGCTCAG
TCTCAGCCTTGTTGTTTGGTCATGTGGTACTTGAGGGATGCCCGCTGCCTGCACTGGAACCCACAGACCTCACACC
TGGGGGACAGAGGCAGATAAGAAGGTGCGAGGGCCACAGCCCTGGGAGGGGGTCTGACTCACACTTACTGCAA
GGCTTGGCTCCCGAATGTCGCATTTGGTGGACGAGAAGGTGCTTCCGCTGCTTGAAGGTTTGTCCACATTCGTCA
CAGATATAGTTCCGCACCTCTGAGAGGGGAGAGTCCAGTGAGTCCAGGCCCTGATGCTCCAACCTCCCGGGGGG
ACGACGATGACAATGTGAAACCATCACAGCTGGGAAGACATTTCTGCACATGGTTCACCATGCAGTGGGCCCAAG
CAAGGGGCCTATGAGGGCCTCGTTTATTAAGATCTTTAAACTGCTTTATACACTGTCACGTGGCTTCATCAGCTG
TGTGCATTTCAGGATGGTTTTTAAAGAAACCTCAGAAAGCTATTTCTT

3938/5332
FIGURE 3429B

CTAAAATGGAGCTTATAAACTTACTTAGCAAGG

3939/5332
FIGURE 3430

GCGGCCGCGTCCCTTCTGCGGTCCGCTGCTCGGGCGGCTCCAGCACCAGCGCCGGCTGCGTTCCGGGCTCCGG
TCGCCCCGTCCAGCCCCTCGGCTACCGCCGCCGCTCCCCGCTCGGGCGCCATGGCGCTGCGGCCGGGGACGGCA
CGGTGAAGCCGCTGCAGAGCGCCATGAAGCTTGCCAACGGGGCCATCGAGCTGGACACCGGCAACCGCCCCGGG
AGGCATACACGGAATACCTGAGGAGCATCCACTATATCTCCCAGGTGTTACTAGAAGAAGTGGAACCACTAAAG
AAGCTGGGGAACTGTGCCCCCGACACCTCCAAGATGCTGAAGCTAGCACAGCAGTGTCTGGAGAGGGCCAGT
CGACGGCCGCCAAGCTTGGAACACGCCTGAAGCCAACCATGCCTGCAGCTGCTCCCATTCCCAGCCTGCCG
GCCGACACCGCCGTGTATACTCCGATGAAGGAGGAAAGCTCTCTCTTTTCTGCCACCCGAGATCTTCCAGAAGC
TTCAGGGGGCAGAGTCACAAAGCTGTAAGAAAGAGCTGACGCCACTGGAGGAGGCCCTCCCTGCAGAATCAGAAGC
TGAAGGCTGCGTATGAGGCCCAATGGCGCGGCTAGACCCAGCCAGGCCATGCAGAAGACATCCCTGACCCTCT
CTCTACAGCGGCAGATGATGGAGAACCTAGTGATTGCCAAAGCCCGGAGGAGACACTCCAGAGAAAGATGGAGG
AGCGCCGGCTGCGGCTCCAGGAGGCCCAACAGGAGGTTTTGCAGCCAAGTCGCCCTGACCCCGGAGGAACGGG
AGCAGCGGGCCCTTTACGCCGCCATCCTGGAGTACGAACAGGACCATGACTGGCCGAAGCACTGGAAGGCCAAGC
TCAAGAGGAATCCGGGGGACCTGTCACTCGTGACCAGCCTGGTCTCACACCTGCTCAGCCTCCCCGACCACCCGA
TCGCGCAGCTCCTGAGGCGGCTGCAGTGCTCCGTGTACAGCGCCCTGTATCCCGCCGTGAGCAGAGCAGCCGCGC
CAGCCCCAGGCTGCTGCCCCCGACCCCAACCCCGGAAGCCGACGGCTGCGGCCCTCGCAGAGCCTCCATTGCA
TGCTGTCCCCGCCCCGAGCCAGCGCAGCCCCGCGGCCCCAGGACAGTCCCCCACGCCCCACTCCAACCCGGCC
CCGTGGGGTCTCCCTCACCCCTGGGGGACACCGCATCTGGATTGCCAGACAAGGACAGCTCGTTCGAGGACCTGG
AGCAGTTCTGGGGACGTCTGAGCGGCAGGGCCGGGGCCGTGGGGTACAGCCGGAGCCCCAGCTGCAGCAGCTGA
AGACCGCGGTGGAGGAGATCCACAATGCCGTAGACAGGCTGCTCTCGCTGACCCTTCTGGCCTTCGAAGGCCTAA
ACACAGCTGCCTCCAAGGACCGCTGCCTGGCCTGCATTGAGGAACCCTTTTTCTCCCCGCTGTGGCCTCTGCTGC
TGGCCCTGTACAGGAGCGTGCACCGAGCCCCGGGAGGCTGCCCTGAGCAGGAGCATGGAGCTCTACAGGAATGCAC
CCCCACCGCCATTGGCATCCCCACCAAGCTCCTCCCCAGAACCCTGAGGCCAAGGGGGCCACTGGCCTACCCC
TACTGCGCGGCGGCCAGGAGCTCGGACTGCTGGTCTTGAGAGCTGCCCCCAGAAGAAGCTGGAGTGCATAGTG
CGGACCCTGCGGATCATCTGTGTCTGTGCGGAAGACTACTGCCCCACCCAGAGGCCACACCCAGGCCGGGCC
CCGCCCATCGCTGCAGCTGCCATTGGTGCCGATGACCTGCTGCCCATCCTGTCTTCGTGGTGCTGAGGAGCGGC
CTCCCTCAGCTGGTGTGCGAGTGCGCGGCCCTGGAGGAGTTTATCCACGAGGGGTACCTGATCGGAGAGGAGGGC
TACTGCCTCACATCACTGCAGAGTGCCCTGAGCTACGTGGAGCTGCTGCCCCGGGGAGGCCTGGCCAAGTAGTAC
AGCTAGAGCCCAGGGTCCCTGCAGGGCCTGGCCTCGCCTCCCAGGGCTGTCTCTCCTACACCTGGAGCCATGGGA
TCTACTGAGGACCATCCTGGAGCCTCACGCTGCTCTGCACATGGTGGGGGCTTGTTCACTGTGGTGTGCTCTCCA
GCTCTTACCTTCTCCTCACCTCACATCTGACCCTGGAGCTTGGGGTTGGCACCTCTGCCCCGACAGAATGGGGCTG
AATCAGCTCCAGGAGGAACCAGGCCCTGCTCTCCTGTGTAGGCCTCAGAGAGGCCAAGAAGGGAAGCTTTGGGCT
TCGGTGGGTGCAGGCTCAGCGATGAACATCTGGCTGGGGCAGCTCCTGGGGAGCATCAGGGAAGAGGGGGCATG
AGCCGGCCAGCAGTGGAGACGGCAGTCCAGTTTCTCTCCCCTCTGACCCTAGAAGGGGAGTTGTAGCCCCATGA
ACTAGTTTCTTGTCTGGGTGAGGAACAAGGGCCGGCTGGGGTGCAGCTGGTGTGAGGGTATGCTGTTT
GCTGATGGGCAGGGACACCCCTGCAGGGTCTCGGGCTCTGAGCCAGGACATTCCCTGCCCCCTTACTCACCTTGG
CTGTGGGCTGTGAACATTCCGGGACCCTGGGCATCTTATCTAGGTCCGTGCAGCCCAAGGGTCAGCCCTCTTGAC
TGTCACATGCTGCCCCACCCAGCCTAAAATAAAGAGCTCACTGCTGTG

3940/5332
FIGURE 3431

AGCGACTCACAAAAGGTCTCTCGCGCCAGCGGCGTGCGTACCATGGCGACCGCGCGCCGCGCAGCCGCGCCCCGC
CCCTCTGGCGGGACCGGCCACCATCCTCTCGCGAGAGCATCCCGTGCGACCGGAAGTGGGGCGGCGACCCCGGAA
GTCCCCCGCGGGTGCAGCTTGGTTCGGTTCGATCGCCGCGGGACCTGACACCGCCCGAGTTGGCGTCCCTTCTC
CCTCTCCGAGTGCTGCTCCTGTCTATTGTGGCCATGACGTTTACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAG
GCGGAGAAGGACTCCAAGGCGGAGCAGGCCAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGT
GTGTATGCCGAGAACGCCATCCGCAAGAAGAACGAAGGTGTGAAGTGGCTTCGGATGGCGTCCCGCGTAGACGCA
GTGGCCTCCAAGGTGCAGACAGCTGTGACTATGAAGGGGGTGACCAAGAATATGGCCCAAGGTGACCAAGCCCTG
GACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTTCGAGCAGCAGGTGCAGAAC
CTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCGAGGAGCAGGTG
GACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTGGACCAGCTCAGCCAGCTGCCCGAGGGC
GCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTACGGAGGTTGGCCGCTTGAGGAAC
TAGCCGTGCCCCGCCGGTGTGCACCGCCTCTGCCCCGTGATGTGCTGGAAGGCTCCTGTCTCTCCCCACCGCGT
CTTGCCCTTTGTGCTGACCCGCGGGGCTGCGGCCGCGCAGCCACTCTGCGTCTCTCACCTGCCAGGCCTGCGTGGC
CTTAGGGTTGTTTCTGTTCTTTTAGGTTGGGCGGTGGGTCTGTGCTCCTGGTGTGAGTTTCTGCAAATTTCTGGG
GGTGATTTCTGTGACTCTGGGCCCACAGCGGGGAGGCCAAGAGGGGGCCCTGTGGACTTTACCCAGCACTGTGGG
GGCCTTCAGACTCTGGGGCAGCAGACATGCTGCTTCCCATCAGCCAGAGGGGGTCAGGGCTGCCCTGTTGCCAAA
CAACTCCCTGAGGCCTCTCCGCACCACCTCAGCGGGCAGGAGGTCCCACCATGTGGACAGACATAGCCCAAGGAG
GCACCACAGGTCTATGTGTGCTGGGGGATGTGAGGTGCCACCCAACGCTGTCTGGTGGTATTTACAATGACATC
CTCCTCCTCCATCACTCCAGGGGTGGTGTCTCGGCCGCCCTACCAGCTGGCTGAGCCCCCTGGCCTCCTGCGCT
CCCTCACTTCCCTCAGTTCCCAAAGCTGCCAGTCCATGGGGACAGAACCCTCACTCAGATCCACATTCAAGTGT
GCCACCCCTGCAGTCTTCACTCCTCACTCAGCTGCTGCCTCTGGAGGTGCCTTTGGCCACATGTGCTGTGCTGTTT
GTCTCCTCGACAGGGAGCCTGTCCACCAGCAGGCTGCGGTCCCAGCGGGTGCCTGTGCAGCTCCTCCCTTGGGC
AGCCTGGTTCTCCCGGAGGACCTTTCCTTGGGGCCCTGCTTCATGACGATGCTGCCTGTGTACCCCTCTACCATC
TGTAACAACACTGGGTGCCTTCCCCGACCACACCCAATGCCTTCCCAGCTTGGAAGCCAAGGCAGCTGATGAAGG
GAGCTCAGGAGAGCCGTCTTCACTGGGCTGGGGTGGGGCTGCTGTGAGGAAAACCTGCCATTGTGGCCCTGGA
GAGTCACCAGCAGCTCTTGGGAAGGACTTGTGGGAGGCTGAGAGAGGCTTTGGGCACAGCCTGCTGTCTTTTCC
ATTTCTAAAGTTTACTTCATTGTCTTGAAGCTTCCAGGTTTTGTTTTTGTGTTTGGCAAAGTAGAAAAGGCAGG
TGGTGGGCGGCTGGCAGGGAGTGCGGGTCCCCGCCCTCTTCACTCCTGCCCTCCCCCTCCTCAGTCTGCCCCACC
CCGTGCAGCCCATGCTGAGGCTGCAGTGGTGTCTGTTGTTACGTGCAGGAACGTGGAGACCCTGACGTGGGCT
CACTGCGTTTTGTTTTCTTTTCAAGCTTGGGAGCCCCCAGGGAGGGGCTAGTGTGGTAGGTCTTAGACGTGGA
TCCCTCCAGCCTCCCCAAAATCAACCCTGGTGTGAGAGAACGTCTTCTGTCCATCGTGGGTAACAGCCTTGGG
GAGGGTGCAGAGCTCTGCAGAGCCATGGGCCAGGTGGGGCTGCCTCAGTCTGTCCCTTGGGCAGTGAAGAG
GGGCCATTACCTTTCTCCTAGAATGCTGTTGTAAATAAACAATGGATCCCTGG

3941/5332
FIGURE 3432

CTGGGTCTTGGCCTTTGGGCATCATCCAGCGCCATCGGCCTTGGCGCTTCAGCCAACGCGGGAGTGGATGGGCCCC
TTCTTCTTCGCAGACAGCGTTTCGGCCGCTGCCCCGGGCTCTAGGCGCGGCCGACGGCCCCAGTCTGGAGGGTTTCGG
GGCGGAGGCCCCGGGGGGGTGCGCGCGCCCCGGGGTCCGGCCTCTCACTCGCTCCCCCTCTCGTCCGCAGCCGCAGGG
CCGTAGGCAGCCATGGCGCCCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGGCGC
GTGGCCACGTGGTTCAACCAGCCGGCCCCGTAAATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATC
GCCCCGCGCCCCGCGTCGGGTCCCATCCGGCCCATCGTGCCTGCCCCACGGTTCGGTACCACACGAAGGTGCGC
GCCCGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTGGCCGGCATTACACAAGAAGGTGGCCCCGACCATCGGCATT
TCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGC
TCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTG
GCCACCCAGCTGACCGGACCGGTTCATGCCCGTCCGGAACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAG
GAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCCGTGCCAACGCCCCGGCTCTTCGGCATAACGGGCA
AAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAAAAGAAAAAATAAGCCCTCCTGGGGACTTGGAATCAGTC
GGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGTGGGAACAACCTGGGCCTGGGATGGGGCTTCACTGCTGTGA
CTTCCTCTGCCAGGGGATTTGGGGCTTTCTTGAAAGACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTT
GAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTAAAACGGTTTTCTTGTTGGGGAGGTTACAGAGGCTGACTTC
AGAGTGGACTTGTTGTTTTTTCTTTTAAAGAGGCAAGGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTG
AGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACATGTCAGAACTACTAAAAATAAAGAAATCAGCCATG

3942/5332
FIGURE 3433

TTTCAGGCCAACATGGCCGTGCTGCTGCTGCTGCTGCCGTGCCCTCCGCCGGGGTCCAGGCCCGGGTCTCGGCCG
CTGTGGGGCCCAGGCCCGCCCTGGAGTCCAGGGTTCCCGGCCAGGCCCGGGAGGGGGCGGCCGTACATGGCCAGC
AGGCCTCCGGGGGACCTCGCCGAGGCTGGAGGCCGAGCTCTGCAGAGCTTACAATTGAGACTGCTAACCCCTACC
TTTGAAGGGATCAACGGATTGTTGTTGAAACAACATTTAGTTTCAGAATCCAGTCAGACTCTGGCAACTTTTAGGT
GGTACTTTCTATTTTAACACCTCAAGGTTGAAGCAGAAGAATAAGGAGAAGGATAAGTCGAAGGGGAAGGCGCCT
GAAGAGGACGAAGAGGAGAGGAGACGCCGTGAGCGGGACGACCAGATGTACCGAGAGCGGCTGCGCACCTTGCTG
GTCATCGCGGTTGTCATGAGCCTCCTGAATGCTCTCAGCACCAGCGGAGGCAGCATTTCCTGGAACGACTTTGTC
CACGAGATGCTGGCCAAGGGCGAGGTGCAGCGCGTCCAGGTGGTGCCTGAGAGCGACGTGGTGAAGTCTACCTG
CACCTTGAGCCGTGGTGTGTTGGGCGCCCTCGGCTAGCCTTGATGTACCGAATGCAGGTTGCAATATTGACAAG
TTTGAAGAGAAGCTTCGAGCAGCTGAAGATGAGCTGAATATCGAGGCCAAGGACAGGATCCAGTTTCTTACAAG
CGAACAGGATTCTTTGGAATGCCCTGTACTCTGTGGGGATGACGGCAGTGGGCTGGCCATCCTGTGGTATGTT
TTCCGTCTGGCCGGGATGACTGGAAGGAAGGTGGATTTCAGTGCTTTTAATCAGCTTAAATGGCTCGTTTACC
ATTGTGGATGGGAAGATGGGGAAAGGAGTCAGCTTCAAAGACGTGGCAGGAATGCACGAAGCCAACTGGAAGTC
CGCGAGTTTGTGGATTATCTGAAGAGCCAGAACGCTTCTCCAGCTTGGCGCCAAGGTCCCAAAGGGCGCACTG
CTGCTCGGCCCCCCCGGCTGTGGGAAGACGCTGCTGGCCAAGGCGGTGGCCACGGAGGCTCAGGTGCCCTTCTG
GCGATGGCCGGCCAGAGTTTCGTGGAGGTCATTGGAGGCCTCGGCGCTGCCCGTGTGCGGAGCCTCTTTAAGGAA
GCCCAGCCCCGGGCCCCCTGCATCGTCTACATCGATGAGATCGACGCGGTGGGCAAGAAGCGCTCCACCACCATG
TCCGGCTTCTCCAACACGGAGGAGGAGCAGACGCTCAACCAGCTTCTGGTAGAAATGGATGGAATGGGTACCACA
GACCATGTATCGTTCCTGGCGTCCACGAACCGAGCTGACATTTTGGACGGTGTCTGATGAGGCCAGGCCGACTG
GACCGGCACGTCTTTCATTGATCTCCCCACGCTGCAGGAGAGGCGGGAGATTTTGGAGCAGCAGCTGAAGAGCCTG
AAGCTGACCCAGTCCAGCACCTTTTACTCCAGCGTCTGGCAGAGCTGACACCAGGATTCAGTGGGGCTGACATC
GCCAACATCTGCAATGAGGCTGCGCTGCACGCGGCGCGGGAGGGACACACTTCCGTGCACACTCTCAACTTCGAG
TACGCCGTGGAGCGCGTCTCTCGCAGGAGTGCACAAAAGAGCAAGATCCTGTCCAAGGAAGAAGAGAAAGTGGTT
GCGTTTCATGAGTCGGGCCACGCCTTGGTGGGCTGGATGCTGGAGCACACGGAGGCCGTGATGAAGGTCTCCATA
ACCCCTCGGACAAACGCCGCCCTGGGCTTGTCTCAGATGCTCCCCAGAGACCAGCACCTCTTACCAAGGAGCAG
CTGTTTGGAGCGGATGTGCATGGCCCTGGGAGGACGGGCCTCGGAAGCACTGTCTTCAACGAGGTCACTTCTGGG
GCACAGGACGACCTGAGGAAGGTACCCGCATCGCTACTCCATGGTGAAGCAGTTTGGGATGGCACCTGGCATC
GGGCCCATCTCCTTCCCTGAGGCGCAGGAGGGCTCATGGGCATCGGGCGGCGCCCTTCAGCCAAGGCCTGCAG
CAGATGATGGACCATGAAGCAAGACTGCTGGTGGCCAAGGCCTACAGACACACCGAGAAGGTGCTGCAGGACAAC
CTGGACAAGTTGCAGGCGCTGGCAAACGCCCTTCTGAAAAGGAAGTGATAAACTATGAGGACATTGAGGCTCTC
ATTGGCCCGCCGCCCATGGGCCGAAGAAAATGATCGCACCGCAGAGGTGGATCGACGCCAGAGGGAGAAACAG
GACTTGGGCGAGGAGGAGACCGAAGAGACCCAGCAGCCTCCACTTGGAGGCGAAGAGCCGACTTGGCCCAAGTAG

TTGGGAGGTGTTGGCTGCACGTGCGGGTGGTCCGGGAAGTGAGGGCTCACTCAGCCACCCTGAGTTGCTTTTTCAG
CTGAGGTTTGCATCTCTCTCGCGGCCCTCAGTAGTCCCTGCACAGTGAATCTGAGATCTGTTGATTGATGACC
CTTTTCATGATTTTAAGTTTCTCTGCAGAACTACTGACGGAGTCTGTGTTTGTGAGTCGTTTCCCTATGGGG
AAGGTTATCAGTGCTTCCCGAGTGAGCATGGAACACTTCGAGTTCCAGGGTTATAGACAGTCGTTCCAGTGTG
GCTGAGGCCACCCAGAGGACAGAGCATTGAGACTCCAAACAGACCCCTGTTTCATGCCGACGCTTGCACGACCG
CCCCAGTTCTGTGGCTCCCTCGGAATGCTAAGGGGATCGGACATGAAAGGACCCTGTGAGCCGATTGTCTTATC
TCCAGCGGCCCTGTATCCAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCCGGAGGACTCAC
CACTGCCCCCTGTGTCATCCAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCCGGAGGACTCAC
GGATGCCTTGGTTTTTACTGCTCTGAGAATTGTTGAGATACTTTACTAATAAACTGTGTAGTTGG

3943/5332
FIGURE 3434

GGGGAGGCGCCGCGCCGAGCCCGCGGCCAGACGCCCCATCAGTAGCGTCCGCACCGGGAGCCGCGGCTCTCGCC
CGAGCCGTGGGCGCGCCGAGGGGCGGGCTCGCCTCCCGCCGTCCCTCGCAGCTCTGCCGGGCCCCGAGCCCGCGC
CGCCGGCCGCGCGCCGCTTGCCGCTCGGCCGCGCGGCCCGGGAAACGCGGCCGCGGGCTGCATGGGCAGCGCCC
GCGCCCCGCGCTGAGCCGTGCGGGAACCTGGCAGCCCTCGGAGCACGAATATATACAGCCCTGCTCTGGGACAC
ACCTCCATTGGATTTAAAAGACAGTCCTCGTCAGCACTGACTTTCAGCTATGGAATCGCAGACGGTTGATGATGA
AGCGCCGGCCGTGTAAATGAAGATCGGGTGAGGAGCAGGACGATGCCCAAGGGTGGGTGCCCTAAAGCACCACAG
CAGGAAGAGCTTCCCCTCAGCAGCGACATGGTGGAGAAGCAGACTGGGAAAAAGGATAAAGATAAAGTTTCTCTA
ACCAAGACCCCCAAAACCTGGAGCGTGCGCATGGCGGGAAGGAGGTGAGGGAGCGAGCCAGCAAGCGGAAGCTGCCC
TTCACCGCGGGCGCCAATGGGGAGCAGAAGGACTCGGACACAGGACCGCCGGGGTCTGCTTGTCTGCGGGCAGC
CACGAGGGAGCCCTCGTCAGGAGCGCCATGGGCCGAAGCTGCCTGCCCTCTGCACGTGGATGTTTCTTTGGAACA
AGGGGAAAAATTATGATTTTCTTATTTTGCTTTGACCTGTGAATGACACCTGGTCTCTGGTGCCCTGGGGTGTGC
TCTCTGCAGTGCTGCCAGGCACATGCTGGTTCCTTCAGCGTTAGGTGCTTGGCACCTTCAGTCTTTCTGACGT
CATGTTTGTTCCTGGTGCCCTCAGATAGGAGACGGCTGTTCTGACGGCTCCTGCTTCCCCATTCTGGAGGGAAGA
CAGACTTAGCCACTGGTATCTGTGGGACTTCTTGGAACCTCTGAATGCCAGACCTTGCCAGTGCTAGAGGCGACA
AGTGTGTGAAGTTGAAGAGGCTTCTCCACCCGCTCAGCTGCAGTGGACCCGAGCGGGCAGAGAGCAGAGTGC
AGCAGGGGCCAGGCTGTGCTCGCAGGCGGGGCAGGTGCCTGGAGAGCATGGCGCCCCCTGGGAGCCTCTGGCCAGG
AAGGGCATGTGCACTGCAGTGTGCCGTGGACCAGTGGCCTCAGCTCAGTGTGTTGACGAGGGTCCCAAGGCACTC
ACGTGTGTGGGGATGTTAGCAACACACGGCGGGAAGCCCTGATGCAGTTTCTCACCAGCGTGTAGCAGACCCCA
CGCACCCACACAGGTCAGGCACCCACACAGGGCAGAGACCCACACACCCACACAGGGCAGGCACCCACAC
AGGGCACAGACCCACGCACCCACACAGGGCAGG

3944/5332
FIGURE 3435

TAGTTTTATCTCTATACCCAAAATGGAGGTTAAAAGTTACACTAAAAATAACACGATTGCACCAAAGAAAGCGTC
CCATCGTATCCTGTGACACACGTCGGACGAGGAGGACGCGAGTGTACCGTGGGGACAGGAGAGAAGCTGAGACT
CTCGGCACATACGATATTGCTGGTAGTAAGACACGAGAGCCTTCTAATGCCAAGCAGCAGAAGGAAAAAATAA
AGTGAAAAAGAAGCGAAAGAAAGAAACAAAAGGCAGAGAGGTTTCGCTTCGGAAAGCGGAGCGACAAGTTCTGCTC
CTCGGAGTCGGAGAGCGAGTCTCAGAGAGTGGGGAGGATGACAGGGACTCTCTGGGGAGCTCTGGCTGCCTCAA
GGGGTCCCCGCTGGTGTGAAGGACCCCTCCCTGTTTCAGCTCCCTCTCTGCCTCCTCCACCTCGTCTCACGGGAG
CTCTGCCGCCCAGAAGCAGAACCCAGCCACACAGACCAGCACACCAAGCACTGGCGGACAGACAATTGGAAGAAC
CATTCTTCCCCGGCTTGGTCAGAGGTCAGTTCTTTATCAGACTCCACAAGGACGAGACTGACAAGCGAGTCTGA
CTACTCCTCTGAGGGCTCCAGTGTGGAATCGTGAAGCCAGTGAGGAAGAGGCAGGAGCACAGGAAGCGAGCCTC
CCTGTCTGGAGAAGAAGAGCCCCCTTCTGTCCAGCGCGGAGGGCGCTGTCCCCAACTGGACAAGGAGGGGAAAGT
TGTCAAAAAACATAAAACAAAACACAAAACAAAAACAAGGAGAAGGGACAGTGTTCATCAGCCAAGAGCTGAA
GTTGAAAAGTTTTACTTACGAATATGAGGACTCCAAGCAGAAGTCAGATAAGGCTATCTGTTAGAGAATGATCT
TTCCACTGAAAACAAGCTAAAAGTGTTAAAGCACGATCGCGACCACTTTAAAAAGAAGAGAACTTAGCAAAAT
GAAATTAGAAGAAAAGAATGGCTCTTTAAAGATGAAAAATCACTGAAGAGAATCAAAGACACAAACAAAGACAT
CAGCAGGTCTTTCCGAGAAGAGAAAGACCGTTTCAATAAAGCAGAAAAGGAGAGATCGCTGAAGGAAAAGTCTCC
GAAAGAAGAAAAGTCTGAGACTGTACAAAGAGGAGAGAAAAGAAGAAATCAAAGACCGGCCCTCAAATTAGAGAA
GAAGAATGATTTAAAAGAGGACAAAATTTCAAAGAGAAAGGAGAAGATTTTAAAGAAAGATAAAGAAAAACTCAA
AAAAGAAAAGGTTTATAGGGAAGATTCTGCTTTTGACGAATATTGTAACAAAATCAGTTTCTGGAGAATGAAGA
CACCAATTTAGCCTTTCTGACGATCAGCGAGATCGGTGGTTTTCTGACTTGTCCGATTATCCTTTGATTTCAA
AGGGGAGGACAGCTGGGACTCGCCAGTGACAGACTACAGGGACATGAAGAGCGACTCTGTGGCCAAGCTCATCTT
GGAGACGGTGAAGGAGGACAGCAAGGAGAGGAGGCGGGACAGCCGGGCCGGGAGAGCGAGACTACAGAGAGCC
CTTCTTCCGAAAGAAGGACAGGGACTATTGGATAAAAACTCTGAGAAGAGGAAAGAGCAGACTGAAAAGCATAA
AAGTGTCCCTGGCTACCTTTCCGAAAAGGACAAGAAGAGGAGAGAGTCCGCAGAGGCCGGGCGGGACAGAAAGGA
CGCCCTGGAGAGCTGCAAGGAGCGCAGGGACGGCAGGGCCAAGCCGAGGAGGCGCACCGGGAGGAGCTGAAGGA
GTGTGGCTGCGAGAGTGGCTTCAAGGACAAGTCCGACGGCGACTTTGGGAAGGGCCTGGAGCCGTGGGAACGGCA
CCACCCAGCAGCAGAGAAGGAGAAGAAGGATGGCCCCGATAAGGAAAGGAAGGAGAAGACAAAACAGAAAGATA
CAAAGAGAAATCCAGTGACAAGGACAAAAGTGAGAAATCAATCCTGGAAAAATGTCAGAAGGACAAAGAATTTGA
TAAATGTTTTAAAGAGAAAAAGATACCAAGGAAAAACATAAAGACACACATGGCAAAGACAAAGAAAGGAAGC
GTCTCTCGACCAAGGGAAAGAGAAGAAGGAGAAGGCTTTCCCTGGGATCATCTCAGAAGACTTCTCTGAAAAAA
AGATGACAAGAAAGGCAAGAGAAAAGCTGGTACATCGCAGACATCTTACAGATGAGAGTGAGGACGACAGAGA
CAGCTGCATGGGGAGCGGGTTCAAGATGGGAGAGGCGCAGCACTTGCCGAGGACGGACGGCCTCCAGGAGAAGGA
GGAAGGACGGGAGGCCTATGCCCTCCGACAGACACAGGAAGTCTTCTGACAAGCAGCACCCCTGAGAGGCAGAAGGA
CAAGGAGCCAGAGACAGGAGAAAGGACCGAGGGGCTGCCGACGCGGGAGAGACAAAAAGAGAAAGTCTTTGA
AAAGCACAAAGGAGAAGAAGGATAAAGAGTCCACAGAAAAGTACAAGGACAGGAAGGACAGAGCCTCAGTGGACTC
CACGCAAGATAAGAAAAATAAACAGAAGCTCCCCGAGAAGGCTGAAAAGAAGCACGCTGCCGAAGACAAGGCTAA
AAGCAAACACAAAGAGAAGTCCGACAAAGAACATTCCAAGGAGAGGAAGTCTCGAGAAGTGCCGACGCGGAAAA
AAGCCTGCTTGAAAAGTTGGAAGAAGAGGCTCTCCATGAGTACAGAGAAGACTCCAACGATAAAATCAGCGAGGT
CTCCTCTGACAGCTTACCGACCGAGGGCAGGAGCCGGGGCTGACTGCCTTCTGGAGGTCTCTTTACGGAGCC
ACCTGGAGACGACAAGCCGAGGGAGAGCGCCTGCCTCCCTGAGAAGCTGAAAGAGAAGGAGAGGCACAGACACTC
CTCATCTTCATCCAAGAAGAGCCACGACCGAGAGCGAGCCAAGAAAGAGAAGGCCGAGAAGAAAGAGAAGGGCGA
AGATTACAAGGAGGGCGGTAGCAGGAAGGACTCCGGCCAGTACGAAAAGGACTTCTTGAGGCGGATGCTTACGG
AGTTTCTTACAACATGAAAGCTGACATAGAAGATGAGCTAGATAAAACCATTGAATTGTTTTCTACCGAAAAGAA
AGATAAAATGATTCCGAGAGAGAACCTTCCAAG

3945/5332
FIGURE 3436

CTGTCTTACAGCTGATCCGGTTCTTGCGGCGGTGCGTGCTGGCGCCGGAGAGTTCCGCGCGTGTCTCGGGCTGT
CCGCGGGGAAGCTGGTCCGGGAGTGGGCGCCCCGCCCTGCCTCGCGCCTTGCGCCCCGGCACCCTTCCAGA
AGGGAAAGTCGCCGCGCTCGCGGTAGACCCGGGCAGCGCTTCCATTCCGCGGAGCTGGAAATAGGGATCCAGCC
ATCCGTGGGTGAGGAGGAATGGAGACTGTACCTTCCACATAGATTACAAGCTGCCCTGCAGTGGCCTTGGCTTC
AGGAAAGGAGCATTAGACGCTTCCGTGAGCCTCCAGGATGGCAGCCCTGACCTGGCCACGGAGGTATGTT
TCTAGGGACTCAGTCTGCCTTCATGAAGAACAGACAGGCAGCAGGGATGGTGGCTGGCTGGCTGATAAATTGT
TACCAGGACGCGGTGACCTTTGACGACGTGGCTGTGGACTTCACCCAGGAGGAATGGACTTTACTGGACCCATCT
CAGAGAGACCTCTACAGAGATGTGATGCTGGAAACTACGAGAACCTGGCCTCAGTAGAATGGCGACTTAAACC
AAAGGGCCAGCACTTCGGCAGGATAGATCTTGGTTTCAGAGCATCAAATGAGACACAGACGGCAAGAAGCCACAAT
GGAGGGCAGCTCTGTGACCGCACGCAGTGTGGAGAAGCTTTCAGTGAACACTCAGGCCTCAGCACACACGTGAGA
ACTCAAAATACAGGAGACAGTTGTGTGTCTAATCATTATGAAAGGGACTTTTTTATTCCATGCCAGAAAACCTTG
TTCAAAATTGGAGAGCAGTTTTCCGTGTGGGTGAGTGTGGAAAAGCCTTCAGCTCTACTCCAAATGTTGTTTCC
CAGCAAGCATGCACTCGGGACAGATCTCTTGACTACAGCAGCTGTGGGGAAGTGTTCCTTAATCAGTCATACCTT
CAGGCACGTGCGGGAAGTCACAACGGAGAAGAAACATGGAAATGGAAGCCGTGTGGGAAAGCTCTAACTCACTCC
ATGGGCTGCGCCACACCTGTTGAAATGCATGCCGTGAGGAATCCCCACGTATGTAGGGAATGTGGGAAGGCCTTT
AGGTACACTGCCTACCTTACTGGTCGCGTGCAAGTCCACCCTGGGGAAGCCCTGTGAATTGGAAGAATGTGGA
AAAGCCTCCCCTGTTTCTTCCAGCCTAACTCAACATGTAAGAATTCATGCTGCAGAGAAACCTGTGAATGTAAA
GAATGCGGAAAAGCCTTCACTGGACTCTCAGGTCTTTCTAAACACGTCCAAACAGACCTTGACAGAAGCCCTAT
GAATGTAAGGACTGTGGGAAAGCCTGCGGTGGGTTTTATCTACTGAATGAGCATGGAAAACTCACACGAGGGAG
AAGCCCTTTGCATGTGTGGTTTTCGGAATAATTTAGAAATTCCTCATGCCTTAATAATCATGTTTGAATTCAC
ACTGGAATAAAACCTATACATGCAGCTACTGTGGGAAGGCCTTCACTGTGCGCTGTGGCCTTACTAGACACGTA
CGAACACACACGGGCGAGAAGCCATACAGTGTAAAGGACTGCGGGAAGCCTTCTGTACATCCTCGGGCCTTACT
GAGCATGTAAGGACTCACACTGGAGAGAAACCATATGAATGTAAAGATTGTGGGAAATCCTTCACTGTTTCTTCA
AGCCTGACTGAGCACGCGAGAATCCATACCGGAGAGAAACCTACGAATGTAAGCAGTGTGGCAAAGCCTTCA
GGGCGCTCAGGCCTCACTAAACACATGCGGACACACACCGGGGAGAAGCCCTATGAATGTAAGGACTGTGGGAAA
GCCTACAATAGGGTTTATCTACTGAATGAGCATGTGAAAACCTCACACAGAGGAGAAGCCCTTATATGTACGGTA
TGCAGGAAATCCTTCAGAAATTCCTCGTGCCTGAATAAGCACATTGAGATTACACTGGAAATAAACCTTATGAA
TGTAAGGACTGTGGGAAAACATTCACTGTTTCTTCGAGCCTAACCGAGCACATACGAACCTCACACTGGAGAGAAA
CCTTATGAATGTAAAGTATGCGGAAAGGCCTTACCACATCCTCACACCTTATCGTGCACATAAGAACCACACC
GGTGAGAAACCTTACATATGTAAGGAGTGTGGGAAAGCCTTTGCTTCCTCCTCACACCTTATCGAACACAGAAGG
ACTCACACAGGAGAGAAACCTTACATATGTAACGAGTGTGGGAAAGCCTTCCGTGCCTCCTCTCACCTGCATAAA
CATGGAAGAATTCACACTGGGCAGAAACCTTATAAATGTAAGGAATGTGGGAAAGCATACAATAGGTTTTATCTA
CTAAAAGAACATTTAAAAACTTACACTGAAGAGCAGTTTTTGTATGTAAGGACTGTGGAAAATCTTTTAAAGAT
TCTCATGCCTTAACCATCACACTCAAATTCACACTGATGAGAAACCTTTCTAATGTAAAGAAATGTGGGGAAGCT
GTCAGCTACACTCATTACGTTGAAGACATGAAAGACCTCTCGTTCTCCAGATGTCCATGACTTGAGGAATGTGG
CTAGGCAATCAGCATCTCATCACACCCGGCAGGCAGGAACTCACCTGGAGCCCTATGCAGCAGACACAGAGAA
AGCCCTCAGTGTCTCTAAGGTCTTGCTGAATATGGATGGTATCCAGTAGAGAGAACTCTATTGATGTGTGATAT
GCAGCAGCATTGTTGCTGTTCTGCTCAGTACTTTGATGATCCCTGTGATCTACAATGAAGAAAAACCTTAGGA
GGGTGAGAAATTGTTGGGAAGTCATTTTTTACATTACATCTTCTCACCTTTAGTAAACGTGGTGATTGAC

3946/5332
FIGURE 3437

AGGTGACCCAGGGTTTGAAGAAAAGGAGGGGGAGCTGCTGGTGAGGGGACCCTCCGTGTTTCGAGAATACTGGA
ATAAACCAAGAAGAACTAAGAGTGCATTACCCCTGGATGGCTGGTTTAAGACAGGGGACACCGTGGTGTITAAGG
ATGGCCAGTACTGGATCCGAGGCCGGACCTCAGTGGACATCATCAAGACTGGAGGCTACAAGGTCAGCGCCCTGG
AGGTGGAGTGGCACCTGCTGGCCACCCACAGCATCACAGATGTGGCTGTGATTGGAGTTCCGGATATGACATGGG
GCCAGCGGGTCACTGCTGTGGTGACCCTCCGAGAAGGACACTCACTGTCCACAGGGAGCTCAAAGAGTGGGCCA
GAAATGTCCTGGCCCCGTACGCGGTGCCCTCGGAGCTGGTGCTGGTGGAGGAGATCCCGCGGAACCAGATGGGCA
AGATTGACAAGAAGGCGCTCATCAGGCACTTCCACCCCTCATGACCCGGCAGACTGGGACTGCGGGTCTGGTGGG
GAGCAGCAGACGTCCCTTTCACACCGAGAACCACGGGGGCGCTCCAAGACCTGGCCTCCCTTAAACCTGAACCC
CCCAAATCAGGTACGTTAGTAATCAAGAACTGTTTGGGATGAAATCACCATGTGGGGTCCCCAGCCTCGGGCCAGT
TGTTGCAGCTCAAGGAGACCGTCCCTGGTGTACCTCTGCCTGGTCACCGCCGACCTCATCTGTGCAGCGCGGTG
CAGCCAGCCCCCTGGCCCCACGTGCTGAGGACCTCCCGCCCCACAGTGCCCTGCAGTTGCCAGGCTCTCCAGGGC
AGGTCCCAGAGGTTTCCACAAAAACAAGACTCCACTGGAGGAAAC

3947/5332
FIGURE 3438

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGGCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCCTCACCAACCTCATTACAAACATG
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTCACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTGGGAATCAATAAGTACTGAGAGTGCAGCCCC
TTCCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG
CCTCTGGACACTGCCAGAGATGGGGGTGAGCCTCTGGCCTAATTTCCCCCCTCGCTTCCCCCAGTAGCCAACCTT
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCCTCAGGCAGCCAAAGCACTTTAACCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCTAGGTTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCTGGTTGGGAGTGGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGGTTNCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAAGGA

3948/5332
FIGURE 3439

GGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTGTGCAGGCCCGGCTCGGCTCCTGGT
CCCCGGTGCGAGGGTTAACGCGAGGCCCGGCTCGGTCCCCGGACTAGGCCGTGACCCGGGTGCCATGAAGCA
GGAGGGCTCGGCGCGGCGCGCGCGGACAAGGCGAAACCGCCGCCCGGCGGAGGAGACAAGAACCCCCACC
GCCGCCGGCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCGACGGGGGAGGCAGACGG
CAAGACGGCGGCGGCGAGCGGCTGAGCACTCCAGCGAGAGCTGGACACAGTCACCTTGGAGGACATCAAGGAGCA
CGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTGCTGCGGGCCCTCGGGATGCTGCCTTC
CACATCACGCCGCCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTCAAATAATGCCACTCG
AGACTTTTGTCTCCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCGTCCCCGCACGGGAAA
AGCTGCGTCGACACCCCTCCTGCCTGAAGTGAAGCCTATCTCCAACCTCCTCGTGGTCATCTTCATGATGAACAG
CAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCAGAACC GCCGGGCCCT
AGACCTTGTAGCCGCAAAGTGTACTATTATCACGCCCGGGTCTATGAGTTCCCTGGACAAGCTGGATGTGGTGCG
CAGCTTCTTGCATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGCCACCCTGTTGAACCT
CCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAAGTCTGTGTTCCAGA
GCAGGCCAACAAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCATCCAGCTGGAGTACTC
AGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTGCGGCTTCAAACAGACGGT
GCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTTCCGCCAGCCCTCCCT
CAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTGAGGACAGGAAACCTAGCCAAGTTCAACCAGGT
CCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCTGCGGCACAACGTGAT
TAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGCCCAAGCTGCAGTT
GGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTGATTGAGGCCAGCATCAACCA
CGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCAGCTAGCCTTCCACCA
GCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCCCAAATCGTACAACAA
GGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAAGGAGATGGCAGAAGA
TGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAGGCTCTTCCCCCTTG
GGGGTCCCCTGCCAGGGCACTGTCCCCATTTCCACACACAGCTCATATGCTGCATTCTGTGACGGGGGTGGGG
GTGCTGGGAGCCAGCCACCCTGACCTCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTGTACAGCAGGCAGGAG
GGTGGGCAGGCAACCTCCNCCNNGGCAGGGTCTTGCCAGCAGTGTGGGAGCAGGAGGGGAAGGATAGTTCTGT
GTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCTTCGATTATGATT
TTTAAACAATAAAAAGTTCTCC

3949/5332
FIGURE 3440

CCAAACCGGCCTCCGTCCGGGCCCTGCTGTTTTGACATCTCCTTCCTCATGCTGTGCCATGTGGCCCAGACCTATG
GTTTCAGAGGTGATTCTGTCCGAGTCGCGCACAGGAGCTGAGGTGCCCTTCTTCGAGACCTGGATGCAGACCTGCA
TGCCTGAGGAGGGCAAGATCCTGAACCTGACCAACCTGCTTCCGCCCCGACTCCACCAAAGTGGAGTCCCTGG
TGGCCCTGCTCAACAACCTCCTCGGAGATGAAGCTAGTGCAGATGAAGTGGCATGAGGCTGTCTCAGCATCTCAG
CCGCCATCTTGGAATCCTCAATGCCTGGGAGAATGGGGTCTGGCCTTCGAGTCCATCCAGAAAATCACTGATA
ACATCAAAGGGNAAGGTATGCAGTCTGGCGGTGTGTGCTGTGGCTTNGGCTTGTGGCCACGTCCGGATGCTGGG
GCTGGATGAGCGTGAGAAGTCGCTGCAGATGATCCGCCAGCTGGCAGGGCCNACTGTTTAGTGAGAACACCTGTC
AGTTCTACAATGAGAGGGTGGTGATCATGAACCTCGATCCTGGAGCGCATGTGTGCCGACGTGCTGCAGCAGACAG
CCACGCAGATCAAGTTTCCCTCCACCGGGGTGGACACAATGCCCTACTGGAACCTGCTGCCCCCAAGCGGCCCA
TCAAAGAGGTGCTGACGGACATTTTGGCAAGGTGCTGGAGAAGGGCTGGGTGGACAGCCGCTCCATCCACATCT
TTGACACCCTGCTGCACATGGGCGGCGTCTACTGGTTCTGCAACAACCTGATTAAAGGAGCTGCTGAAGGAGACGC
GGAAGGAGCAGACGCTGCGGGCAGTGGAGCTGCTCTACTCCATCTTCTGCCTGGACATGCAGCAAGTGACCTGG
TCCTGCTGGGCCACATCCTACCTGGCCTGCTCACTGACTCCTCCAAGTGGCACAGCCTCATGGACCCCCGGGCA
CTGCTCTTGGCAAGCTGGCCGTGTGGTGTGCCCTCAGTTTCTACTCCTCCCAAGGGACAGGCGTCCACCCGCC
AGAAGAAGAGACACCGCGAAGACATTGAGGATTATATCAGCCTCTTCCCCCTGGACGATGTGCAGCCTTCGAAGT
TGATGCGACTGCTGAGCTCTAATGAGGACGATGCCAACATCCTTTCGAGCCCCACAGACCGATCCATGAGCAGCT
CCCTCTCAGCCTCTCAGCTCCACACGGTCAACATGCGGGACCTCTGAACCGAGTCTGGCCAACCTGTTCTCTGC
TCATCTCCTCCATCCTGGGGTCTCGCACCGCTGGCCCCACACCCAGTTCGTGCAGTGGTTCATGGAGGAGTGTG
TGGACTGCCTGGAGCAGGGTGGCCGTGGCAGCGTCTGCAGTTCATGCCCTTCACCACCGTGTGGAACTGGTGA
AGGTGTGAGCCATGTCCAGCCCCAAGGTGGTTCTGGCCATCACGGACCTCAGCCTGCCCCCTGGGCCGCCAGGTGG
CTGCTAAAGCCATTGCTGCACTCTGAGGGGCTTGGCATGGCCGAGTGGGGGCTGGGGACTGGCGCAGCCCCAGG
CGCCTCCAAGGGAAGCAGTGAGGAAAGATGAGGCATCGTGCCTCACATCCGCTCCACATGGTGCAAGAGCCTCTA
GCGGCTTCCAGTTCCCCGCTCCTGACTCCTGACCTCCAGGATGTCTCCCGGTTTCTTCTTTCAAATTTCTCTC
CATCTGCTGGCACCTGAGGAGAGTGAGCAGCCTGGACCACAAGCCCAGTGGTCACCCCTGTGTGCGCCCCGCCCA
GCCCAGGAGTAGTCTTACCTCTGAGGAACTTTCTAGATGCAAAGTGTGTATGTGTGTGTGTGTGTGTGTGTGT
GTGTTTGTGTGTATTTTGTAAATATGTGAGGGAAATCTACCTTCGTTTCATGTATAAATAAAGCTCCTCGTGGCTCC
CTT

FIGURE 3441A

CACACACACACACACACACACACACACCCCAACACACACACACACACCCCAACAGCGGGATGGCCGAGCGCCGCACGCGTAGCACGCCGGGACTAGCTATCCAGCCTCCCAGCAGCCTCTGCGACGGGCGCGGTGCGTAAGTACCTCGCCGGTGGTGGCCGTTCTCCGTAA
GATGGGCGGACCGGCGGCGGCAGCGCCTTCGCAAGACACCAGGACGAGGAATCTGGTGTCTTCGGGCTCCGACAGCGCGGCTCCCCGTTGCGGGGAGGCGGGAGCTGCAGCGGTAGCGCCGGAGGCGGCGGCAGCGGCTCTCTGCCTTACAGCGCGGAGGCCGAACCGGGGCCCTTCATCTGCGGCGGTTGGAGAGCGGGGGCGCCAAGAGTGTCTGAGGAGTGGAGTGTGTGAGTGAAGATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAAGTGCAGAAGACTCGGAAGGTGAAGAAGGTGAATACAGTGAAGAGGAAAACCTCCAAAGTGGAGCTGAAATCAGAAGCTAATGATGCTGTTAATTC
TTCAACAAAAGAGAAGAGAAGGGAGAAGAAAAGCCTGACACCAAAAGCACTGTGACTGGAGAGAGGGCAAAGTGGGGCGGACAGGAGACAGAGCCTGTGGAGAACAAGTGGGTAAAAAGGGCCCTAAGCATTGATGATGAAGATCGGAAGAATCCAGCATACATACCTCGGAAAGGGCTCTTCTTTGAGCATGATCTTCGAGGGCAAACCTCAGGAGGAGGAAGTTCAGACCCAAGGGGCGTCAGCGAAAGCTATGGAAGGATGAGGGTCGCTGGGAGCATGACAAGTTCGGGGAAGATGAGCAGGCCCCAAAGTCCCGACAGGAGCTCATTGCTCTTTATGGTTATGACATTGCTCAGCTCATAATCCTGATGACATCAAACCTCGAAGAATCCGGAACCCCGATATGGGAGTCTCCACAAAGAGATCCAACTGGAACGGTGAGCGGTAAACAAGTCTCATCGCCACCAGGGTCTTGGGGGCACCCTACCACCAAGGACATTTATTAACAGGAATGCTGCAGGTACCGGCCGTATGTCTGCACCCAGGAATTATTCTCGATCTGGGGGCTTCAAGGAAGGTCTGTCTGGTTTTAGGCCTGTGGAAGCTGGTGGGCAGCATGGTGGCCGGTCTGGTGAGACTGTTAAGCATGAGATTAGTTACCGGTCACGGCGCCTAGAGCAGACTTCTGTGAGGGATCCATCTCCAGAAGCAGATGCTCCAGTGTCTGGCAGTCTGAGAAGGAGGACGCTCAGAGCCACAGCTCAGAGTCTGTGAGGGATGCTGCTGCTCTGATGCTGCACCACCACCCCTGATAGGCCCATTTGAAGAATACTTATTTCCCGGGCAAGAAGAACTCGAACCAAAGTTGGAGATGCAGTCAAGCTTGCAGAGGAGGTGCCCACTCTCTGTAAGGACTGATTCCAGCACCTCCAGTCCAGAAACCACCCCAACTCCACCTACTAAGACTGGGACCTGGGAAGCTCCGGTGGATTCTAGTACAAGTGGACTTGAGCAAGATGTGGGCACAACTAAATATAGCAGAACAGAAATGGAGTCCGGGGCAGCCTTCTTTCTGCAACCACGGGAACCTTCGAGGTATGCCCAACCATATACACATGGGAGCAGGACCTCCACCTCAGTTTAACCGGATGGAAGAAATGGGTGTCAGGGGTGGTTCGAGCCAAACGCTATTTCATCCCAAGCGGCAAGACCTGTGCCAGAGCCCCCGCCCCCTCCAGTGCATATCAGTATCATGGAGGGACATTACTATGATCCACTGTCAGTTCCAGGGACCAATCTATACCCATGGTGACAGCCCTGCCCGCTGCCTCCACAGGGCATGCTTGTGCAGCCAGGAATGAACCTTCCCCACCCAGGTTTACATCCCCACCAGACACCAGCTCCTCTGCCCAATCCAGGCCCTCTATCCCCACCAAGTGTCCATGTCTCCAGGACAGCCACCACCTCAGCAGTTGCTTGTCTCTACTTACTTTTCTGTCTCAGGCGTCATGAACCTTGGTAATCCAGTTACCCTTATGCTCCAGGGGCACTGCCTCCCCACCACCGCCTCATCTGTATCCTAATACACAGGCCCCATCACAGGTATATGGAGGAGTGACCTACTATAACCCCGCCAGCAGCAGGTGCAGCCAAAGCCCTCCCCACCCCGGAGGAGTCCCAGCCAGTCACCATCAAGCCCCCTCCACCTGAGGTTGTAAGCAGGGGTTCCAGT**TA**ATACAAGTTTCTGAATATTTTAAATCTTAACATCATATAAAAAGCAGCAGAGGTGAGAACTCAGAAGAGAAATACAGCTGGCTATCTACTACCAGAAGGGCTTCAAAGATATAGGGTGTGGCTCCTACCAGCAAACAGCTGAAAGAGGAGGACCCCTGCCTTCTCTGAGGACAGGCTCTAGAGAGAGGGGAGAAACAAGTGGACCTCGTCCCATCTTCACTCTTCACTTGAGTTGGCTGTGTTTCGGGGGAGCAGAGAGAGCCAGACAGCCCCAAGCTTCTGAGTCTAGATACAGAAGCCCATGTCTTCTGCTGTTCTTCACTTCTGGGAAATTGAAGTGTCTTCTGTTCCCAAGGAAGCTCCTTCTGTTTGTGTTTCTAAGATGTTTCAATTTTAAAGCCTGGCTTCTTATCCTTAATATTATTTTAAATTTTTCTCTTTGTTTCTGTTTCTTGCTCTCTCTCCCTGCCTTTAAATGAAACAAGTCTAGTCTTCTGGTTTTCTAGCCCCCTGGATTCCCTTTTGACTCTTCCGTGCATCCAGATAATGGAGAATGTATCAGCCAGCCTTCCCCACCAAGTCTAAAAAGACCTGGCCTTCACTTTTAGTTGGCATTGTTATCCTCTTGTATACTTGTATTCCCTTAACTCTAACCCTGTGGAAGCATGGCTGTCTGCACAGAGGGTCCCATTGTGCAGAAAAGCTCAGAGTAGGTGGGTAGGAGCCCTTCTCTTTGACTTAGGTTTTAGGAGTCTGAGCATCCATCAATACCTGTACTATGATGGGCTTCTGTTCTCTGCTGAGGCCAATACCTACTGTGGGGAGAGATGGCACACCAAGATGCTTTTGTGAGAAAGGGATGGTGGAGTGAGAGCCTTGCCTTTAGGGGTGTATTCCTACATAGTCTCCTCAGGGCTCAGTCTTTTGGAGTAAAGTGAATAGAGGGCCTTGCTTCTCTTTAGGGTGTCTTCTGCTACACCCCTTTCCAGTTGCTGTGGACCAATGCATCTCTTTAAAGGCAATATATCCAGCAAGCAGTCTACCCTGTCTTTGCAATTGCTCTTCTCCACGCTTCTCTGCTACAAGTGTGTTTAGATGTTACTACCTTATTTTCCCGAATTCTATTTTTGTCTTGCAGACAGAATATAAAAACTCCTGGGCTTAAGGCCTAAGGAAGCCAGTCACCTTCTGGGCAAGGGCTCCTATCTTTCTCCCTATCCATGGCACTAAACCACCTTCTCTGCTG

3951/5332
FIGURE 3441B

CCTCTGTGGAAGAGATTCTATTACTGCAGTACATACGTCTGCCAGGGGTAACCTGGCCACTGTCCCTGTCCTTC
TACAGAACCTGAGGGCAAAGATGGTGGCTGTGTCTCTCCCGGTAATGTCAGTGTTTTATTCCCTTCCATCTAGC
AGCTGGCCTAATCACTCTGAGTCACAGGTGTGGGATGGAGAGTGGGGAGAGGCACTTAATCTGTAACCCCAAGG
AGGAAATAACTAAGAGATTCTTCTAGGGGTAGCTGGTGGTTGTGCCTTTTGTAGGCTGTTCCCTTTGCCTTAAAC
CTGAAGATGTCTCCTCAAGCCTGTGGGCAGCATGCCAGATTCCCAGACCTTAAGACACTGTGAGAGTTGTCTCT
GTTGGTCCACTGTGTTTAGTTGCAAGGATTTTCCATGTGTGGTGGTGTTTTTTGTACTGTTTTAAAGGGTGCC
CATTTGTGATCAGCATTGTGACTTGGAGATAATAAAATTTAGACTATAAACTTG

3952/5332
FIGURE 3442

ATGAGATCCGCGGTGTTCAAGGCGGCCGCGGCCCTGCCGGCGGCAATCCTGAGCAGCGACTGGACTACGAGCGG
GCTGCGGGCGCTGGGCGGGCCCCGAGGACGAGCCTGGGGCGGGCCGAAGCCCACTTCTCCCCCGGCACCGTAAGCTC
AAGGAGCCGGGGCCCCCGCTGGCCTCCTCCCAGGGCGGGAGCCCCGCGCCTTCCCCGGCCGGCTGCGGCGGCAAG
GGCCGGGGCTTGTTACTCCCCGGCCGGGGCGGCCCCCGGGCAGCAGGAAGAGAGCTGGGGCGGTTCCGGTGCCCTTG
CCCTGTCCGCCCCCGGCCACCAAGCAAGCCGGCATTGGGGGGGAGCCTGCCGAGCCGGAGCCGGCTGCAGCCCC
CGGCCCAAGTATCAGGCGGTGCTGCCATTGAGACGGGCTCTCTCGTGGCGGCGGCCAAAGAGCCTACGCCCTGG
GCTGGGGACAAGGGTGGGGCGGCCTCCCCCGCTGCCACCGCCTCGGACCCGGCGGGACCCCCACCACTACCTCTG
CCCGGGCCGCCACCCCTCGCGCCACCGCCACCGCGGGACCCTGGCGGCCAGCGAGGGCAGATGGAAGAGTATG
AGGAAGAGCCCTCTCGGGGGTGGTGGCGGCTCGGGAGCCTCCAGTCAGGCCGCTGCCTCAAACAGATCCTTCTG
CTGCAATTGGACCTCATCGAACAGCAGCAGCAGCAGCTGCAGGCCAAGGAAAAGGAGATCGAGGAGCTGAAGTCA
GAGAGAGACACGCTCCTTGCTCGGATTGAACGTATGGAAGGCGGATGCAGCTGGTAAAGAAGGATAACGAGAAA
GAAAGGCACAAGCTGTTTCAGGGCTATGAAACTGAAGAGAGAGAGGAAACAGAGCTATCTGAGAAAATTAACTG
GAGTGCCAGCCGGAGCTTTCCGAGACATCCCAGACTCTGCCTCCCAAGCCCTTCTCATGTGGGCGGAGTGGAAG
GGACATAAAAGGAAATCCCCATTGGAAGTACAGAAAGAAAGACTCCTGTTAAAAAGCTGGCTCCTGAATTTTCA
AAAGTCAAAACAAAACTCCTAAGCACTCTCCTATTAAAGAGGAACCCTGTGGTTCCTTATCTGAAACTGTTTGT
AAACGTGAATTGAGGAGCCAAGAAACCCAGAAAAGCCCCGGTCTTCAGTGGACACCCCAAGACTCTCCACT
CCCCAAAAGGGACCCAGCACCCATCCCAAGGAGAAAGCCTTCTCAAGTGAGATAGAAGATTGCCGTACCTTTCC
ACCACAGAAATGTATTTGTGTCGTTGGCACCAGCCTCCCCCATACCGTTACCATTACGGGAATCCTCTCCAAAG
AAGGAGGAGACTGTAGCAAGTAAGGCATAGAGAACACTTGCTCTTATACCCTAGTGGTGGCGGTCAAGCTAACAA
GTGTGAAAATGCCTTTGGCATTTTTAAAAAAGTGCAATCAATAAAGCAGAGTTCTGTCAAGAATGAGTAAGTTAA
CAGCCAGAGACAGACACTGTGCAGGCATTGCAATAGATGGAATTACAGCAAAATGTGCTCAATGTATTTGCCTG
CTTACAACACTGGGAGATGTGTTTGCCAGTAAGTTGCTCATCACAAGAGCACCAGACTTGGGGGTGTAATCTCCG
GCAACTTGATGCCCTCTGAAAGAAGGGTTTTCTGTGCTGTGAAATGCATAGAACTATACTTTGCCATGCACGAC
TGTTCTGCAATTGATATTGTGTGAAATCT

3953/5332
FIGURE 3443

CCAGGGACAGCGCCGCTCAGATATCCTGCTGGATGACATTGTCCTTACCCATTCTCTCTTCTCCCGACGGAGA
AATTTCTGCAGGAGCTACACCACTACTTTGTTTCGGGCAGGAGGCATGGAGGGCCCTGAAGGGCTGGGCCGGAAGC
AAGCCTGTCTAGCCATGCTTCTCCATTCTTGGACACCTACCAGGGGCTGCTTCAAGAGGAAGAGGGGGCCGGCC
ACATCATCAAGGATCTATACCTGCTAATTATGAAGGACGAGTCCCTTTACCAGGGCTCCGAGAGGACACTCTGA
GGCTGCACCAGCTGGTGGAGACGGTGGAACTAAAGATTCCAGAGGAGAACCAGCCACCCAGCAAGCAGGTGAAGC
CACTCTTCCGCCACTTCCGCCGGATAGACTCCTGTCTGCAGACCCGGGTGGCCTTCCGGGGCTCTGATGAGATCT
TCTGCCGTGTATACATGCCTGACCACTCTTATGTGACCATACGCAGCCGCCTTTCAGCATCTGTGCAGGACATT
TGGGCTCTGTGACGGAGAACTTCAATATTTCAGAGGAGCCCGGGGGCTGAGGATTCCCTCATCCTGGTAGCTG
TGTCTCTCTGAGAGAAAGTCTTCTCCAGCCCACTGAGGACTGTGTTTTACCGCACTGGGCATCAACAGCC
ACCTGTTTGCCTGTACTCGGGACAGCTATGAGGCTCTGGTGGCCCTCCCGAGGAGATCCAGGTCTCCCTGGAG
ACACAGAGATCCACCGAGTGGAGCCTGAGGACGTTGCCAACCACTAAGTGCCTTCCACTGGGAGCTGTTCCGAT
GTGTGCATGAGCTGGAGTTCGTGGACTACGTGTTCCACGGGGAGCGCGGCCCGGGAGACGGCCAÀCTTGGAGC
TGCTGCTGCAGCGCTGCAGCGAGGTACGCACTGGGTGGCCACCGAAGTGCTGCTCTGCGAGGCCCCGGGCAAGC
GCGCGCAGCTGCTCAAGAAGTTCATCAAGATCGCGGCCCTCTGCAAGCAGAACCAGGACCTGCTGTCTTTCTACG
CCGTGGTTCATGGGGCTGGACAACGCCGCTGTACGCCGCTTCGACTCACCTGGGAGAAGCTGCCAGGGAAATTCA
AGAACTTGTTCGCAAATTTGAGAACCTGACGGACCCCTGCAGGAACCACAAAAGCTACCGAGAAGTGATCTCCA
AAATGAAGCCCCCTGTGATTCCCTTCGTGCCTCTGATCCTCAAAGACCTGACTTTCCTGCACGAAGGGAGTAAGA
CCCTTGATAGATGGTTTGGTGAACATCGAGAAGCTGCATTCACTGAGTGGCCGAAAAAGTGAGGACAATCCGCAAATACC
GGAGCCGGCCCCCTTGCCTGGACATGGAGGCATCCCCCAATCACCTGCAGACCAAGGCCTATGTGCGCCAGTTTC
AGGTATCGACAACCAGAACCTCCTCTCGAGCTCTCCTACAAGCTGGAGGCAACAGTCAGTGAGAGTGGAGGC
TCCAGTCAGACCCGCCAGATCCTTGGGCACCTGGCACTCAAGCACTTTCACGATGTCTCAACCAACATCTGACA
TCTTTCCCGTGGAGCAACTTCCTGCTCCACGGGAAAGAGGTGCATGGATTACCCCTGGACCCATAAGTCTGTTTC
ATCCTGCTGAAGTCCCTCCCAATTGCTCCTTCAAGCCAAAACCTACACTTTCGTGGTTCCTGTCCCTCTGAGAA
AGGGGATAGAAAGCTCCTTCTCTATGTCTCCCATCGAGATCTGTTCTGGGGATGGAGCTTCCAACCTTCTCTT
GCAGCAGGAAAGAATGCTGCTCACCTTCTGTCTTGAGAGTGGGATTGTGGGAGGGATTGGCAGCCTTCTTCTC
CACCACCTGTCCAGCTTCTTCTGGTCAGGGCTGGGACCCCCAGGAATATTATGTTGCCGTGTGTGTGTGTGTGT
GT
TGAGGGTGGATGTTGTGTGTGTGTGGGAGGGGTCTTCTGTTTGGTGTACCTTGTCTACTCTGCCCTGGATG
GTGCGGGGTGCTTTCTCCACCCCCACACTCCCTGCTCAGCTCCTCGTGTGCCCTGCATGCCAGGCTTGTGAGC
CAAGCTGCTTTTTGGGGCAGGGAGTAGCAGCAGGTGGGAGGGGTACCCATCAGCCCTTGCAAGTCCCCACTCA
GGCCTCTGGAAGGTCCAGGGATGGGCTCTGATGAGAGGGTAAAGATGCTCAGGGAAACACAGGCCTCAGCTGCC
TAGAGGACCCTCCCCCTGCCTTGCACTGGGCTCGGGTAGAGCAGTATCAGGAGCTAGGGTGTCTGCTGCCACA
CTCCTGCTTTTTGGGATATCTAACTGCTAAGGAGGGAGTTGACATCCCCCTTCTGGCTCATGTGTCTGACACCA
CAACATGGTCTCTGTCCCTCTCTTTGACTCTCCCTTGTCTCTCCCATAGAGCTGGGGTGGGGTGGATCCCTA
TACCTGGGGCAGGCAGCCCCAAGTGGGGGAGGGGGATGGCAGAGACTGTAAAGCGCCACTGGACTCTGGCAAG
GCCTTTATTACCTTTACTCCCCCTCTCCCATCACCAGCCTCAAGGCCTGAGGGGTGCAGGGGCTCTTGGCAG
CTACTGGGTGAGGTTTCTGGCACAGACTCACCTTCTTTCTGGCACCACTCTTCCCTTTTGAAGAGACAGCA
ACAGCCGTAGCAAAAGCAGCTGCTGCTCCTGCTATGAGGGTGTATATATTTTTTACCCTAAGCTCTGGAATTGTA
CATTTATTTTTTAAACTCAAAGAGGGAAAGAGCCTTGTATCATATGTGAACATTGTATCATAGGTAATGTTGTA
CAGACCTTTTATACAGTGATCTGTCTTGTTCCTGCAGCAAAAATCCTCTATGGACATAGGAGGTGCTGTGTCCC
ATGCCCTCTTGGCCTGACAGTGTCCCATGGGCCCCCTTCTGCTCCCTGCCCTCCCTGCTACTGCTGATGCAC
CTCCTCTCCCTGCAGCCCTGGCTTCCAGCCTTCTCCTGACCCCTTCCAACAGCCTTGGAACTCCAGCTGCCA
CCACCTCTGGGTGGACACTGGGACCCACTGGCCAGCTTGGCTGTGCTTACCCCTAGCCTTGATGCGCTGCC
CAGGGACCCCGAGCCCCCTCCCGTTGCCCTGCAGCTTAAACAGAGTGAACCATGTGTATTGTACAGGCGCGGTTG
TCATTGCAGAAACCGCTGGGTGGAGAAGAAGCCGATAAAGTCTATGAATC

3954/5332
FIGURE 3444

CGAGGCGCTCCCTGGGATCACATGGTACCTGCTCCAGTGCCGCGTGCGGCCCGGGAACCCCTGGGCTGCTGGCGCC
TGCGCAGAGCCCTCTGTCCCAGGGAAGGCTCGGGCAAAAGGCGGCTGAGATTGGCAGAGTGAAATATTACTGCC
GAGGGAACGTAGCAGGGCACACGTCTCGCCTCTTTGCGACTCGGTGCCCCGTTTCTCCCCATCACCTACTTACTT
CCTGGTTGCAACCTCTCTTCTCTGGGACTTTTGCACCGGGAGCTCCAGATTGCCACCCCGCAGCGCTGCGGAG
CCGGCAGGCAGAGGCACCCCGTACACTGCAGAGACCCGACCCTCCTTGCTACCTTCTAGCCAGAATACTACTGCAGG
CTGATTCCCCCTACACACTCTCTGCTCTTCCCATGCAAAGCAGAACTCCGTTGCCTCAACGTCCAACCCCTTCT
GCAGGGCTGCAGTCCGGCCACCCCAAGACCTTGCTGCAGGGTGCTTCGGATCCTGATCGTGAGTCGCGGGGTCCA
CTCCCCGCCCTTAGCCAGTGCCAGGGGCAACAGCGGCGATCGCAACCTCTAGTTTGAGTCAAGGTCCAGTTTG
AATGACCGCTCTCAGCTGGTGAAGACATGACGACCCTGGACTCCAACAACAACACAGGTGGCGTCATCACCTACA
TTGGCTCCAGTGGCTCCTCCCCAAGCCGCACCAGCCCTGAATCCCTCTATAGTGACAATCCAATGGCAGCTTCC
AGTCCCTGACCCAAGGCTGTCCACCTACTTCCCACCATCCCCACTGGCTCCCTCACCCAAGACCCGGCTCGCT
CCTTTGGGAGCATTCCACCCAGCCTGAGTGATGACGGCTCCCCTTCTTCTCATCTTCTCTCGTCATCTCCT
CCTCCTTCTATAATGGGAGCCCCCTGGGAGTCTACAAGTGGCCATGGAGGACAGCAGCCGAGTGTCCTCGGGCT
AGAGCACCAGCAACATCACCAAGCTGAATGGCATGGTGTTACTGTGTAAAGTGTGTGGGGACGTTGCCTCGGGCT
TCCACTACGGTGTGCACGCCTGCGAGGGCTGCAAGGGCTTTTTCCGTGCGAGCATCCAGCAGAAATCCAGTACA
AAAGGTGTCTGAAGAATGAGAATTGCTCCATCGTCCGCATCAATCGCAACCGCTGCCAGCAATGTCTGCTTCAAGA
AGTGTCTCTCTGTGGGCATGTCTCGAGACGCTGTGCGTTTTGGGCGCATCCCCAAACGAGAGAAGCAGCGGATGC
TTGCTGAGATGCAGAGTGCCATGAACCTGGCCAACAACAGTTGAGCAGCCAGTGCCCGCTGGGAGACTTCAACCA
CCCAGCACCCACCCAGGCCCTCGGCCACCCCTGCTCCGGTCCCCCTCACCCCTGGTGGGCTTCT
CCCAGTTTCCACAACAGCTGACGCCTCCAGATCCCCAAGCCCTGAGCCACAGTGAGGATGTGATATCCAGG
TGGCCCGGGCCATCGAGAGATCTTACCTACGCCCATGACAAGCTGGGCAGCTCACCTGGCAACTTCAATGCCA
ACCATGCATCAGGTAGCCCTCCAGCCACCAACCCACATCGCTGGGAAAATCAGGGCTGCCACCTGCCCCCAATG
ACAACAACACCTTGGCTGCCAGCGTCATAACGAGGCCCTAAATGGTCTGCGCCAGGCTCCCTCCTCCTACCCCTC
CCACCTGGCCTCCTGGCCCTGCACACCACAGCTGCCACCAGTCCAACAGCAACGGGCACCGTCTATGCCCCACCC
ACGTGTATGCAGCCCCAGAAGGCAAGGCACCTGCCAACAGTCCCCGGCAGGGCAACTCAAAGAATGTTCTGCTGG
CATGTCTATGAACATGTACCCGCATGGACGCAGTGGGCGAACGGTGCAGGAGATCTGGGAGGATTCTCCATGA
GCTTACGCCCCGCTGTGCGGGAGGTGCTAGAGTTTGCCAAACACATCCCGGGCTTCCGTGACCTTCTCAGCATG
ACCAAGTCACCTGCTTAAGGCTGGCACCTTTGAGGTGCTGATGGTGCCTTTGCTTCGTTGTTCAACGTGAAGG
ACCAGACAGTGATGTTCTTAAGCCGCACCACCTACAGCCTGCAGGAGCTTGGTGCCATGGGCATGGGAGACCTGC
TCAGTGCCATGTTGACTTCAGCGAGAAGCTCAACTCCCTGGCGCTTACCGAGGAGGAGCTGGGCCTCTTACCG
CGGTGGTGCTTGTCTCTGACACCGCTCGGGCATGGAGAATTCCGCTTCGGTGGAGCAGCTCCAGGAGACGCTGC
TGCGGGCTCTTCCGGCTCTGGTGCTGAAGAACCGGCCCTTGAGACTTCCCGCTTACCAAGCTGCTGCTCAAGC
TGCCGGACCTGCGGACCCTGAACAACATGCATTCCGAGAAGCTGCTGTCTTCCGGGTGGACGCCCAGTGACCCG
CCCGGCCGGCTTCTGCGCTGCCCTTGTACAGAATCGAACTCTGCACTTCTCTCTCTTACGAGACGAAAA
GGAAAAGCAAACAGAAATCTTATTTATTTGTTATAAAATATTCCAAGATGAGCCTCTGGCCCCCTGAGCCTTCT
TGTAATAACCTGCCTCCCTCCCCATCACCGAACTTCCCTGCTCCTTTTTTAAACCACTCTGTCTCCCCACA
ACCTCCCCCTGGCCCTCTGATTTGTTCTGTTCTGTCTCAAATCCAATAGTTCACAGCTGAGCTGG

3955/5332
FIGURE 3445

AGGGCTTCTTTTCGCCGCACAATCCAGAAGAACCTNCCATCCCACCTATTCCCTGCAAATATGACAGCTGCTGTGTC
ATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGATCGCCGTGGGCATGGCCATGGAC
TTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAGAACCAGGAGCGGGCGGGAAGGAG
GAGATGATCCGATCACTGCAGCAGCGACCCAGAGCCCACTCCTGAAGAGTGGGATCTGATCCACATTGCCACAGAG
GCCCATCGCAGCACCAATGCCCAGGGCAGCCATTGGAAACAGAGGCGGAAATTCCTGCCCGATGACATTGGCCAG
TCACCCATTGCTCTCATGCCGACGGAGACAAGGTGGACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACC
CCGGCCATCACCCGTGTGGTGGACTTTGCCAAAAAACTGCCCATGTTCTCCGAGCTGCCTTGCGAAGACCAGATC
ATCCTCCTGAAGGGGTGCTGCATGGAGATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACC
CTGACGCTGAGTGGGGAGATGGCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCTGGGCGTAGTCTCCGACGCC
ATCTTTGAACTGGGCAAGTCACTCTCTGCCTTTAACCTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTG
CTAATGTCAACAGACCGCTCGGGCCTGCTGTGTGTGGACAAGATCGAGAAGAGTCAGGAGGCGTACCTGCTGGCG
TTCGAGCACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCCAAGCTGCTGATGAAGGAGAGAGAA
GTGCAGAGTTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGCGGGTCACTGGGCGTCCACCCGGA
GGACAGCAGCTTCTCGGAATGCATGTTGTTTCAGGGTCCGCAGGTCCGGCAGCTTGAGCAGCAGCTTGGTGAAGCG
GGAAGTCTCCAAGGGCCGGTCTTCAGCACCAGAGCCCGAAGAGCCCGCAGCAGCGTCTCCTGGAGCTGCTCCAC
CGAAGCGGAATTCTCCATGCCCAGCGGTCTGTGGGGAAGACGACAGCAGTGAGGCGGACTCCCCGAGCTCCTCT
GAGGAGGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCCCTGAAGCCCCCAGAAGGCCGATGG
GGAAGGAGAAGGAGTGCCATACCTTCTCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCTGAAAGCTGGGAGCGT
GGGCTCAGCAGGGCTGGTCACCTCCCATCCCGTAAGACCACCTTCCCTTCCTCAGCAGGCCAAACATGGCCAGAC
TCCCTTGCTTTTTTGCTGTGTAGTTCCTCTGCCTGGGATGCCCTTCCCCCTTCTCTGCCTGGCAACATCTTACT
TGTCCTTTGAGGCCCAACTCAAGTGTCACCTCCTTCCCCAGCTCCCCAGGCAGAAATAG

3956/5332
FIGURE 3446

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACCAATGACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCCGCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAAGTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGCAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCTGCTGGAGGGAGAGGATGCCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTCACTCCTCCCGCAGCAGGTCCACCAGACCACCGCTGAGGA
CTCAGCTACCCCGGCCGCCACCCAGGAGGCAGGGAGGCAGCCGCCCATCTGCCCCACAGTCTCCGGCCTCTCC
AGCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCTGATGACAATAAAGCTTGTTGACTCAGCT

3957/5332
FIGURE 3447

ATGACCACCTGCAGCCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCTGGCCGGAGGGTCTGCCGTGCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAAGTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTCTTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGAT
GCCACCTTTCTCCAGCAAGCATCTGGCCAATCTATTCTTCCCGCGAGGTCTTACCTCCTCCTCGTCCTCT
TCGAGCCGTCAGACCCGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

3958/5332
FIGURE 3448

GGGTTCCTCCGTCCGTGCTCCGCCCTCGCCATGACTTCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCTTCG
GAGGCCTGGGCGGGCGGCTCCGTGCGTTTTGGGCCGGGGGTGCGCTTTCGCGCGCCAGCATTACGGGGGCTCCG
GCGGCCGCGGCGTATCCGTGTCTCCGCCCGCTTTGTGTCTCTGTCCTCCTCGGGGGCCTACGGCGGGCGGCTACG
GCGGCGTCTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACCGCC
TGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACTGGT
ACCAGAAGCAGGGGCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACAAGA
TTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCTGCAGATCGACAATGCCCGTCTGGCTGCAGATGACTTCC
GAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGCTGG
ATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGAAGA
AGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCAGTGTGGAGGTGGATTCCGCTC
CGGGCACCAGTCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTCATGGCCGAGCAGAACCGBAAGG
ATGCTGAAGCCTGGTTACCCAGCCGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCCAGA
TGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCA
TGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGGCGC
TGATCAGCGGTATTGAAGCCCAGCTGGGCGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGCGGC
TCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATCACT
ACAACAATTTGTCTGCCTCCAAGGTCTCTGAGGCGAGCAGGCTCTGGGGCTTCTGCTGTCTTTGGAGGGTGTCT
TCTGGGTAGAGGGATGGGAAGGAAGGACCCCTTACCCCCGCTCTTCTCCTGACCTGCCAATAAAAAATTTATGGT
CCAAGGG

3959/5332
FIGURE 3449

GGTACCTCCTGCCAGCATCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCCATGACCACCACATT
TCTGCAAACTTCTTCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTGGTGGAGGGGCTGGTAGTGTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCCTGGCCTCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAACAGCCCAAGATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACCTCCGGGTCATCCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCCTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACCGCCGGGATGTGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGCCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCACAAGAGAGA
AATCTAAGTGTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTAGGG
CTTGCATGCGCTCTAATCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTTGTACAGTGTCTGTTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAT

3960/5332
FIGURE 3450

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCCGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGTCTGTGATGGCGGCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAAACAACCGGGTCATCCTGGAGATTGACAAATGCCAGGC
TGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGGCCAGGTCAACG
TGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACACCAAGAGTGAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTGAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCAGCTGAGCGAGCTCCGAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCTGTCTGACTCTCTCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCCGA
TCTCTCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCTGCCTTTCTGCAAACATA

3961/5332
FIGURE 3451

ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACCACCTGCAG
CCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCTGGCCGGAGGGTCTGCGCGCCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGTATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT
GGACAAGGTGCGTGTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGTGGACGAACCTGACCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCAATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAGGTCGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAGGGCGAGGACGCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCTTTCGCACCAAGAACTGAGGCTGCCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTACCTCACCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

3962/5332
FIGURE 3452

ACCCGAGCACCTTCTCTTCACTCAGCCAACCTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACCACCTGCAG
CCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCTTGGCCGGAGGGTCTGCGCGCGCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTGC
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACTGACCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAAGGTCGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAGGGCGAGGACGCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTGATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCCTTCGCACCAAGAACTTGAGGCTGCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTACCCCTCACCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

3963/5332
FIGURE 3453

AGTTCTGCGGTGCCAGGGAGTGGAGCAGAGCTCAGCCCCGTCCCAAACACAGATGGGACCATGAACTCCGGACAC
AGCTTCAGCCAGACCCCCCTCGGCCTCCTTCCATGGCGCCGGAGGTGGCTGGGGCCGGCCAGGAGCTTCCCCAGG
GCTCCCACCGTCCATGGCGGTGCGGGGGAGCCCGCATCTCCCTGTCTTCACCACGCGGAGCTGCCCACCCCT
GGAGGGTCTTGGGGTCTGGAAGAAGCAGCCCCCTACTAGGCGGAAATGGGAAGGCCACCATGCAGAATCTCAAC
GACCGCTGGCCTCCTACCTGGAGAAGGTTGCGGCCCTGGAGGAGGCCAACATGAAGCTGGAAAGCCGCATCCTG
AAATGGCACCAGCAGAGAGATCCTGGCAGTAAGAAAGATTATTCAGTATGAGGAAAACATCACACACCTGCAG
GAGCAGATAGTGGATGGTAAGATGACCAATGCTCAGATTATTCTTCTCATTGACAATGCCAGGATGGCAGTGGAT
GACTTCAACCTCAAGTATGAAAATGAACACTCCTTTAAGAAAGACTTGGAAATTGAAGTCGAGGGCCTCCGAAGG
ACCTTAGACAACCTGACCATTGTCACAACAGACCTAGAACAGGAGGTGGAAGGAATGAGGAAAGAGCTCATTCTC
ATGAAGAAGCACCATGAGCAGGAAATGGAGAAGCATCATGTGCCAAGTGACTTCAATGTCAATGTGAAGGTGGAT
ACAGGTCCCAGGGAAGATCTGATTAAGGTCTGGAGGATATGAGACAAGAAATATGAGCTTATAATAAAGAAGAAG
CATCGAGACTTGGACACTTGGTATAAAGAACAGTCTGCAGCCATGTCCCAGGAGGCAGCCAGTCCAGCCACTGTG
CAGAGCAGACAAGGTGACATCCACGAAGTGAAGCGCACATTCCAGGCCCTGGAGATTGACCTGCAGACACAGTAC
AGCACGAAATCTGCTTTGGAAAACATGTTATCCGAGACCCAGTCTCGGTACTCCTGCAAGCTCCAGGACATGCAA
GAGATCATCTCCCACTATGAGGAGGAACTGACGCAGCTACGCCATGAACTGGAGCGGCAGAACAAATGAATACCAA
GTGCTGCTGGGCATCAAAACCCACCTGGAGAAGGAAATCACCACGTACCGACGGCTCCTGGAGGGAGAGAGTGAA
GGGACACGGGAAGAATCAAAGTCGAGCATGAAAGTGTCTGCAACTCCAAAGATCAAGGCCATAACCCAGGAGACC
ATCAACGGAAGATTAGTTCTTTGTCAAGTGAATGAAATCCAAAAGCACGCATGAGACCAATGAAAGTTTCCGCCT
GTTGTAAATCTATTTTCCCCCAAGGAAAGTCCTTGCAACAGACACCAGTGAGTGAGTTCTAAAAGATACCCTTGG
AATTATCAGACTCAGAACTTTTATTTTTTTTTTCTGTAACAGTCTCACCAGACTTCTCATAATGCTCTTAATAT
ATTGCACTTTTCTAATCAAAGTGCAGTTTATGAGGGTAAAGCTCTACTTTCCTACTGCAGCCTTCAGATTCTCA
TCATTTTGCATCTATTTTGTAGCCAATAAACTCCGCACTAGC

3964/5332
FIGURE 3454

CGGA ACTAAACGGGGTGAGGTCACATTCGGTTATCTCTAACGTTGGAAAACGATGGAGCTAACACCCATTATGGA
GATTAACCACTTTTCATCAGGTTTTTAACTTAAGTCGTGAGGAATACAACGGTGAACACAAGATTCATTTTATTT
TCATCACCATGGGACGTATCCTGTTGTTGAGTACTCTGGGTCAGACCTCTGAAGACTTCTCAGATGGATCCTAGT
CTCTGGGCTTGCCCTGAAATTACTCGCTGCTCAGGGAGAGAGTTGAAATGTTGGCATCCTCCCÁCTCTGTTGCT
CCGGCTGTGTCCCCTCGCTCTGTTGTTCCAGCTATGTCCCCTCTGTTGCTCCAAGTGCAGCTCATTCTGTTAGAG
TTCCTCATTAGCTGGTCACTGTGGCCAGAGGGTGTGGCCTGCTCCCTTCCTCAAGTATTCTTAAAGCCATGGA
TTTTTGTGGAGCATTTTTCTTCCTGGCTCTCCCTTGAGTTATTTTCTTTCTTCGCTATCTTGGGACTCTTCTTT
GTGCTTGCGGACATCGGTTGAGAGAAGGACTTCTTCTTCTTGCTCCTTGGTGTGGCTCGTGGTTGCTCTTCA
ACAAGTGGACTGGAGGCTCTTGTTTTCTCTTCATCTTCAACAAGTCAGTCTCTCTCAAGGCTCTCACGTTGCAG
CATTCTTACCAGAGGCCATTGGGCCTGGAGTTCCAGTTCCAGTGTCTGGAGAGTCCACCTCAGCTCAGCAATCTC
ATGCCGGTTGGCAATTGTGTCAGCAGAAGCCGATGCCTGCCCATCAGTTCTTTACTCTGAGGTGTTAGAGTGAATA
AAAATATAAAACTTATACTAGTTTTCATGACTTCTGCTTAATATTGGGTATTTTTTTGTTTTGTTTTGTTTTGG
CGGTGATAGGCTTACCTTACATTAAACCAGGCCTTAGCCTTTCTGTGGCTTTGTTATGGCAAAGCCTCATATTAC
TCTCTAGTCTGGTTTCAGCAGGACAGTCAGGTCCACACCTGGGGCTGTTTGTTTTCTACGTTTACCTCAACATAAG
GTACCTTATCATTGTGTCAGCCTTCATCTCCTGATCCAAAATAAAATAAAATGCCACAGGTTACTTGATTTTGCATC
TGGAATATGATTATTTAAAGAAATTAATAATTAATACTGAAAATGTAGAGTTTAGAAATCTTTTTTAAGGTTTC
AAAAAAATTTCTAGGAGACAACAAAATAGTGTTACTAGATTTAGCAAATAAAATACAGAATGCCAATTAAATTTG
AATTTCAAATGAACATTGAATACTTTTTTTGGTATAACTATATTCCATGCAATATTTGGGACATATCTGTTATAT
TATTCATTGTTTACCTGAAATTATAATTTAAACTGAGAGTTCTGTATTTTATCTGGCAACCTTATTATGAAAATA
TTTAGGATCAATATAAAGGAATAATTTTTTAATTTTACAACTATTTTAATATAAGTAATTTATTTGATTTTC
ATTGTCATCCTGAGAGTTAAGTT

3965/5332
FIGURE 3455

AACAGCATCACCATGCTCTGTTTCGATACAGCTCAAGCAAGCACTACTCTTCCTCCCGCAGTGGAGGAGGAGGAGGA
GGAGGAGGATGTGGAGGAGGAGGAGGAGTGTTCATCCCTAAGAATTTCTAGCAGCAAAGGCTCCCTTGGTGGAGGA
TTTAGCTCAGGGGGGTTTCAGTGGTGGCTCTTTTAGCCGTGGGAGCTCTGGTGGGGGCTGCTTTGGGGGCTCATCA
GGTGGCTATGGAGGATTAGGAGGTTTTGGTGGAGGTAGCTTTCGTGGAAGCTATGGAAGTAGCAGCTTTGGTGGG
AGTTATGGAGGCATCTTTGGAGGGGGCAGTTTCGGAGGTGGCAGCTTTGGTGGGGGCAGCTTTGGTGGAGGCGGC
TTTGGTGGAGGCGGCTTTGGAGGAGGCTTTGGTGGTGGATTGGAGGAGATGGTGGCCTTCTCTCTGGAATGAA
AAAGTAACCATGCAGAATCTGAATGACCGCCTGGCTTCTACTTGGACAAAGTTCGGGCTCTGGAAGAATCAAAC
TATGAGCTGGAAGGCAAAATCAAGGAGTGGTATGAAAAGCATGGCAACTCACATCAGGGGGAGCCTCGTGACTAC
AGCAAACTACTACAAACCATCGATGACCTTAAAAATCAGATTCTCAACCTAACAACCTGATAATGCCAACATCCTG
CTTCAGATCGACAATGCCAGGCTGGCAGCTGATGACTTCAGGCTGAAGTATGAGAATGAGGTAGCTCTGCGCCAG
AGCGTGGAGGCTGACATCAACGGCCTGCGTAGGGTGTGGATGAGCTGACCCTGACCAAGGCTGACCTGGAGATG
CAAATTGAGAGCCTGACTGAAGAGCTGGCCTATCTGAAGAAGAACCACGAGGAGGAAATGAAAGACCTTCGAAAT
GTGTCCACTGGTGTATGTGAATGTGGAATGAATGTGCCCCGGGTGTTGATCTGACTCAACTTCTGAATAACATG
AGAAGCCAATATGAACAACCTTGCTGAACAAAACCGCAAAGATGCTGAAGCCTGGTTCAATGAAAAGAGCAAGGAA
CTGACTACAGAAATTGATAATAACATTGAACAGATATCCAGCTATAAATCTGAGATTACTGAATTGAGACGTAAT
GTACAAGCTCTGGAGATAGAACTACAGTCCCAACTGGCCTTGAACAATCCCTGGAAGCCTCCTTGGCAGAAACA
GAAGGTCGCTACTGTGTGCAGCTCTCACAGATTGAGGCCAGATATCCGCTCTGGAAGAACAGTTGCAACAGATT
CGAGCTGAAACCGAGTGCCAGAATACTGAATACCAACAACCTCCTGGATATTAAGATCCGACTGGAGAATGAAATT
CAAACCTACCGCAGCCTGCTAGAGGAGAGGGAAGTTCCGGAGGCGGCGGACGCGGCGGCGGAAGTTTCGGCGGC
GGCTACGGCGGCGGAAGCTCCGGCGGCGGAAGCTCCGGCGGCGGCCACGGCGGCGGCCACGGCGGCGAGTTCCGGC
GGCGGCTACGGAGGCGGAAGCTCCGGCGGCGGAAGCTCCGGCGGCGGCTACGGGGGCGGAAGCTCCAGCGGCGGC
CACGGCGGCAGTTCCAGCGGCGGCTACGGTGGTGGCAGTTCCGGCGGCGGCGGCGGCGGCTACGGGGGCGGCAGC
TCCGGCGGCGGCAGCAGCTCCGGCGGCGGATACGGCGGCGGCGAGCTCCAGCGGAGGCCACAAGTCTCTCTTCC
GGGTCCGTGGGCGAGTCTTCATCTAAGGGACCAAGATACTAAACAAAACCAGAGTAATCAAGACAATTATTGAAGA
GGTGGCGCCGACGGTAGAGTTCTTTTCATCTATGGTTGAATCAGAAACCAAGAAACACTACTATTAACTGCATC
AAGAGGAAAGAGTCTCCCTTCACACAGACCATTATTTACAGATGCATGGAACCAAGTCTCCAAGAAACACTT
CTGTCTTGATGGTCTATGGAATAGACCTTGAAAATAAGGTGTCTACAAGGTGTTTTGTGGTTTTCTGTATTTCTT
CTTTTCACTTTACCAGAAAGTGTCTTTAATGGAAGAAAAACAACCTTTCTGTTCTCATTTACTAATGAATTTCA
ATAAATTTCTTACTGATGCAAACTATCCCAATTTGTCAGAATTTATCTTTACTTAAGTACATAATACTCT

3966/5332
FIGURE 3456

CCGGACGCGAGGGGCGGGGCGAGCGCGGGACAAAGGGAAGCGAAGCCGGAGCTGCGGGCGCTTTTTCTGCCCCGCG
GTGTCTCAGATTCAITCTTAAGGAAGTGAAGAACTTAATCTTCCAAATGTCAAAAAGACCATCTTATGCCCCACC
TCCCACCCAGCTCCTGCAACACAAATGCCAGCACACCAGGGTTTGTGGGATACAATCCATACAGTCATCTCGC
CTACAACAACACTACAGGCTGGGAGGGAACCCGGGCACCAACAGCCGGGTACAGGCATCCTCTGGTATCACGATTCC
AAAACCCCCAAAGCCACCAGATAAGCCGCTGATGCCCTACATGAGGTACAGCAGAAAGGTCTGGGACCAAGTAAA
GGCTTCCAACCCTGACCTAAAGTTGTGGGAGATTGGCAAGATTATTGGTGGCATGTGGCGAGATCTCACTGATGA
AGAAAAACAAGAATATTTAAACGAATACGAAGCAGAAAAGATAGAGTACAATGAATCTATGAAGGCCTATCATAA
TTCCCCCGCGTACCTTGCTTACATAAATGCAAAAAGTCGTGCAGAAGCTGCTTTAGAGGAAGAAAGTCGACAGAG
ACAATCTCGCATGGAGAAAGGAGAACCGTACATGAGCATTAGCCTGCTGAAGATCCAGATGATTATGATGATGG
CTTTTCAATGAAGCATAACAGCCACCGCCGTTTCCAGAGAAACCACCGCCTCATCAGTGAAATTCTTAGTGAGAG
TGTGGTGCCAGACGTTCCGGTCAGTTGTCAACAGCTAGAATGCAGGTCTCAAACGGCAGGTCCAGTCCTTAAT
GGTTCATCAGCGAAAAGTGAAGCTGAACCTTCTTCAAATAGAGGAACGACACCAGGAGAAGAAGAGGAAATTCCT
GGAAAGCACAGATTCAITTAACAATGAACCTTAAAGGTTGTGCGGTCTGAAAGTAGAAGTGGATATGGAGAAAAT
TGCAGCTGAGATTGCACAGGCAGAGGAACAGGCCCCGCAAAAGGCAGGAGGAAAGGAGAAGGAGGCCGAGAGCA
AGCTGAGCGCAGTCAGAGCAGCATCGTTCTTGAGGAAGAACAAGCAGCTAACAAAGGCGAGGAGAAGAAAGACGA
CGAGAACATTCCGATGGAGACAGAGGAGACACACCTTGAAGAAACAACAGAGAGCCAAACAGAATGGTGAAGAAGG
CACGTCTACTCCTGAGGACAAGGAGAGTGGGCAGGAGGGGGTCGACAGTATGGCAGAGGAAGGAACAGTGATAG
TAACACTGGCTCGGAGAGCAACAGTGCAACAGTGGAGGAGCCACCAACAGATCCCATAACCAGAAGATGAGAAAAA
AGAATAAGTGTGTGCTTGTGTGTGTCTTAAATACTTTTTTAAATGAAAAATGTTTTTGGTTTTAATGGTG
TTACGTGGTTTTGTGTATTAATTTTTTTCTTGTCCATATCACACCACCAAGGCTTTTGGACCATTTAGCATCAT
GAGCCTAATGGCTCAGTCAGTCACCTTTCTTAAGTGTGTGAAGATGGCTCTTTCTTTGGATCTTGTCTTAGC
CCTCAACTGCTGAAAGCCTCAGAATTTAGATTAATTGAGAAAAACCCACCTCTTTAGAGAATTATCCTTTGAT
GCTGCAGAATCTACTCTTACAATGCCCTTCTACAGCTCACTGGGGTGCTTACCAAAGCCATAGCTTTAAACCTTC
CCAGTCCCCATCAGTAGCTTCTGAAAGTCTCCTCTCTTGTCTTACTTCTGCAAAGGGTAGCTTCTTAAAAACGTG
ATCATGTATGAGTATGTATTTGTTCACTTACCCTTTTTTACTTTTTAATCAATGTCAGATACCAAGAGTTGTGTTA
AGCTGAGTGTAGTGTGTAACCTAACAACACTTGGATCTTACTGATCCAGAAATAGTCCCCATAGTTAGAGTAGTTA
CTTATGAAGTGGTTATTAAAGTGAACACAGCACATATACATTATCTATACTGCTTTTTGTTATGATTAATACTGG
GTATGTTCTGGTAAATCCATCCTTATTGTATAGAAAAAAATTACTTTTTTACCAGGTTTTCCAAAGACAGAATA
GATCACAAGCTCAAGGAATTTAATATTCTTGTAAATGGACTAGATAATTCAAAGTATTAGCCCATTCAGAAGA
AAAACAGCTGGGAATTAAGTTAATCCACTTGAATTTGTGTACAATAATCAGAACATCCAAACCTCAAGGCTCAG
GATCCCATAGACCAGAGCCACCTTTTTGATAAACTTAGTAAAGTCTTGGAGACTAGAAGCAAGATAGTTTGTGA
CACATAAGCTTCCAAAAACTAGAATAGATTTTTACTGAATAGTGGTATATCTGATGGTATATGTTTCTTAAAGG
TCCAAATGTAAT

3967/5332
FIGURE 3457

AGACAGGGGTAGTGCAGAGCCGGGCACAGCCTTCCTGTGTGGTTTTACCGCCCAGAGAGCGTCATGGACCTGGGG
AAACCAATGAAAAGCGTGCTGGTGGTGGCTCTCCTTGTCATTTTCCAGGTATGCCTGTGTCAAGATGAGGTCACG
GACGATTACATCGGAGACAACACCACAGTGGACTACACTTTGTTTCGAGTCTTTGTGCTCCAAGAAGGACGTGCGG
AACTTTAAAGCCTGGTTCCTCCCTATCATGTACTCCATCATTTGTTTCGTGGGCCTACTGGGCAATGGGCTGGTC
GTGTTGACCTATATCTATTTCAAGAGGCTCAAGACCATGACCGATACCTACCTGCTCAACCTGGCGGTGGCAGAC
ATCCTCTTCCTCCTGACCTTCCCTTCTGGGCCTACAGCGCGGCCAAGTCCCTGGGTCTTCGGTGTCCACTTTTGC
AAGCTCATCTTTGCCATCTACAAGATGAGCTTCTTCAGTGGCATGCTCCTACTTCTTTGCATCAGCATTGACCGC
TACGTGGCCATCGTCCAGGCTGTCTCAGCTCACCGCCACCGTGCCCGCGTCCTTCTCATCAGCAAGCTGTCCTGT
GTGGGCATCTGGATACTAGCCACAGTGTCTCCATCCCAGAGCTCCTGTACAGTGACCTCCAGAGGAGCAGCAGT
GAGCAAGCGATGCGATGCTCTCTCATCACAGAGCATGTGGAGGCCTTTATCACCATCCAGGTGGCCCAGATGGTG
ATCGGCTTTCTGGTCCCCCTGCTGGCCATGAGCTTCTGTTACCTTGTCTCATCCGCACCCTGCTCCAGGCACGC
AACTTTGAGCGCAACAAGGCCATCAAGGTGATCATCGCTGTGGTCTGTTCTCATAGTCTTCCAGCTGCCCTAC
AATGGGGTGGTCTGGCCCAGACGGTGGCCAACTTCAACATCACCAGTAGCACCTGTGAGCTCAGTAAGCAACTC
AACATCGCCTACGACGTACCTACAGCCTGGCCTGCGTCCGCTGCTGCGTCAACCCTTTCTTGACGCCTTCATC
GGCGTCAAGTTCGCAACGATCTCTTCAAGCTCTTCAAGGACCTGGGCTGCCTCAGCCAGGAGCAGCTCCGGCAG
TGGTCTTCTGTGCGCACATCCGGCGCTCTCCATGAGTGTGGAGGCCGAGACCACCACCACCTTCTCCCCATAG

GCGACTCTTCTGCCTGGACTAGAGGGACCTCTCCCAGGGTCCCTGGGGTGGGGATAGGGAGCAGATGCAATGACT
CAGGACATCCCCCGCCAAAGCTGCTCAGGGAAAAGCAGCTCTCCCTCAGAGTGCAAGCCCCCTGCTCCAGAAG
ATAGCTTCACCCCAATCCCAGCTACCTCAACCAATGCCAAAAAAGACAGGGCTGATAAGCTAACACAGACAGA
CAACACTGGGAAACAGAGGCTATTGTCCCTAAACCAAAAAGTGAAGTGAAGTCCAGAACTGTTCCACCTG
CTGGAGTGAAGGGGCCAAGGAGGTGAGTGCAAGGGGCGTGGGAGTGGCCTGAAGAGTCCCTCTGAATGAACCTTC
TGGCCTCCACAGACTCAAATGCTCAGACCAGCTCTTCCGAAAACCAGGCCTTATCTCCAAGACCAGAGATAGTG
GGGAGACTTCTTGGCTTGGTGAGGAAAAGCGGACATCAGCTGGTCAAACAACTCTCTGAACCCCTCCCTCCATC
GTTTTCTTCACTGTCTCCAAGCCAGCGGAATGGCAGCTGCCACGCCGCCCTAAAAGCACACTCATCCCTCAC
TTGCCGCGTCGCCCTCCAGGCTCTCAACAGGGGAGAGTGTGGTGTTCCTGCAGGCCAGGCCAGCTGCCTCCGC
GTGATCAAAGCCACACTCTGGGCTCCAGAGTGGGGATGACATGCACTCAGCTCTTGGCTCCACTGGGATGGGAGG
AGAGGACAAGGGAAATGTCAGGGGCGGGGAGGGTGACAGTGGCCGCCCAAGGCCACGAGCTTGTCTTTGTTCT
TTGTACAGGGACTGAAAACCTCTCCTCATGTTCTGCTTTTCGATTGTTAAGAGAGCAACATTTTACCCACACAC
AGATAAAGTTTTCCCTTGAGGAAACAACAGCTTTAAAG

3968/5332
FIGURE 3458

CCCCAGCACTGCTCCAGCCCCCTCTGTACCCCCGCCCTTCGGCTCCCTTCGCAGTGGTGGCCTCCTCCTTTCCAG
AGACGTCCCCCGAGAGACACGAAGCAGCAGTGAGAGCCTCATCTTCTCTGGGAACCAGGGCAGGGGGCACCAGCG
CCTCTGCCCCCCTCAGAGGGTCTCTCCCTCGACCCCCAAATTCCCCCAGCATCTCAATCCCTTGCATGGGGAG
CAAGGCCTCGAGCCCCCATGGTTTGGGCTCCCCGCTGGTGGCTTCTCCAAGACTGGAGAAGCGGCTGGGAGGCCT
GGCCCCACAGCGGGCAGCAGGATCTCTGTGCTGTAGCCAGCCCAGTGTCTGATGTCAGCTATATGTTTGAAG
CAGCCAGTCCCTCCTGCACTCCAGCAACTCCAGCCATCAGTCATCTTCCAGATCCTTGGAAAGTCCAGCCAACTC
TTCTCCAGCCTCCACAGCCTTGGCTCAGTGTCCCTGTGTACAAGACCCAGTGAATCCAGGCTCCAGAAACCC
CACCCTAACCATGGGCCAACCCAGAACACCCCACTCTCCACCAGTGGCCAAAGAACATGCCAGCAGTGGCCCCC
ATCCATCACCAACTCCATGGTGGACATACCCATTGTGCTGATCAACGGCTGCCAGAACCAGGGTCTTCTCCACC
CCAGCGGACCCAGGACACCAGAACTCCGTTCAACCTGGAGCTGCTTCTCCAGCAACCCCTGTCCAGCCACCAG
GAGCAACAGCCAGACCCCTGTGATGCCCCCTTACCACATGCCAGAGGGTCCCGCCAGGGACATGCAGCCCCAC
CATGAAGTTCGTGATGGACACATCTAAATACTGGTTTAAGCCAAACATCACCCGAGAGCAAGCAATCGAGCTGCT
GAGGAAGGAGGAGCCAGGGGCTTTTGTCTAAGGGACAGCTCTTCATACCGAGGCTCCTTCGGCCTGGCCCTGAA
GGTGCAGGAGGTTCCTCGCTGTCTCAGAGTCGACCAAGTGAGGACAGCAATGACCTCATCCGACACTTCCTCAT
CGAGTCGTCTGCCAAAGGAGTGCATCTCAAAGGAGCAGATGAGGAGCCCTACTTTGGGAGCCTCTCTGCCCTTCGT
GTGCCAGCATTCATCATGGCCCTGGCCCTGCCCTGCAAACTCACCATCCACAGAGAGAAGTGGGAGGTGCAGA
TGGGGCTCGGACTCTACAGACAGCCAGCCTCCTGCCAGAAGAAATCTGCGGGCTGCCACACCCTGTACCTGAG
CTCAGTGAGCGTGGAGACCCCTGACTGGAGCCCTGGCCGTGCAGAAAGCCATCTCCACCACCTTTGAGAGGGACAT
CCTCCCCACGCCACCGTGGTCCACTTCAAAGTCACAGAGCAGGGCATCACTCTGACTGATGTCCAGAGGAAGGT
GTTTTTCCGGCGCCATTACCCACTCACCACCCTCCGCTTCTGTGGTATGGACCCTGAGCAACGGAAGTGGCAGAA
GTACTGCAAACCTCCTGGATCTTTGGGTTTGTGGCCAAAGGCCAGACAGAGCCTCAGGAGAACGTATGCCACCT
CTTTGCGGAGTATGACATGGTCCAGCCAGCCTCGCAGGTCACTCGGCTGGTGAATGCTCTGTCTGCAGGACGCAGA
AAGGATGTAGGGGAGAGACTGCCTGTGCACCTAACCAACACCTCCAGGGGCTCGCTAAGGAGCCCCCTCCACC
CCTGAATGGGTGTGGCTTGTGGCCATATTGACAGACCAATCTATGGGACTAGGGGGATTGGCATCAAGTTGACAC
CCTTGAACCTGCTATGGCCTTCAGCAGTCACCATCATCCAGACCCCCGGGCTCAGTTTCTCAATCATAGAAG
AAGACCAATAGACAAGATCAGCTGTTCTTAGATGCTGGTGGGCATTGAACATGCTCCTCCATGATTCTGAAGCA
TGCACACCTCTGAAGACCCCTGCATGAAAATAACCTCCAAGGACCCTCTGACCCCATCGACCTGGGCCCTGCCCA
CACAACAGTCTGAGCAAGAGACCTGCAGCCCCTGTTTCGTGGCAGACAGCAGGTGCCTGGCGGTGACCCACGGGG
CTCCTGGCTTGCAGCTGGTGATGGTCAAGAACTGACTACAAACAGGAATGGATAGACTCTATTTCTTCCATAT
CTGTTCTCTGTTCTTTTCCACTTTCTGGGTGGCTTTTGGGTCCACCCAGCCAGGATGCTGCAGGCCAAGCT
GGGTGTGGTATTTAGGGCAGCTCAGCAGGGGGAACCTGTCCCATGGTCAGAGGAGACCCAGCTGTCTGCACCC
CCTTGCAGATGAGTATCACCCCATCTTTCTTTCCACTTGGTTTTTATTTTATTTTTTTTGGAGACAGAGTCTC
ACTGTCACCCAGGCTGAAGTGCAGTGGTGTGATCTAGGCTCACTGCAACCTCCACCTCCAGGTTCAAGCAATTA
TCCTGCCTCAGGCTCCCAAGTAGCTGGGATTACAGGCATGTGCAACTCACCCAGCTAATTTTGTATTTTGTAG
AGACAGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCTGACCGCAGGTAATCCACCTGCTTCGGCCTCCC
AAAGTGCTGGGATTACAGGCGCAAGCCACCCAGCCTTCTTTCCATTCTTGATAGGCGAGTATTCCAAAGC
TGGTATCGTAGCTGCCCTAATGTTGCATATTAGGCGGCGGGGCGAGAGATAAGGGCCATCTCTCTGTGATTCTGC
CTCAGCTCCTGTCTTGCTGAGCCCTCCCCAACCCACGCTCCAACACACACACACACACACACACACACACAC
ACACACACACACACACACACACACACACGCCCCCTCTACTGCTATGTGGCTCAACCAGCCTCACAGCCACACGGG
GGAAGCAGAGAGTCAAGAATGCAAAGAGNGCCGCTTCCCTAAGAGGCTTGGAGGAGCTGGGCTCTATCCACACC
CACCCCCACCCACCCACCCAGCCTCCAGAAGCTGGAACCATTTCTCCCGCAGGCCTGAGTTCTTAAGGAAAC
CACCCCTACCGGGGTGGAAGGGAGGGTCAGGGAAGAAACCACTCTTGCTCTACGAGGAGCAAGTGCCTGCCCCCT
CCCAGCAGCCAGCCTGCCAAAGTTGCATTATCTTTGGCCAAGGCTGGGCCTGACGGTTATGATTTACGCCCTGG
GCCTGCAGGAGAGGCTGAGACCAGCCACCCAGCCAGTGGTCGAGCACTGCCCCGCCGCCAAAGTCTGCAGAATG
TGAGATGAGGTTCTCAAGGTCACAGGCCCACTCCAGCCTGGGGGCTGGCAGAGGCCCCCATATACTCTGCTAC
AGCTCCTATCATGAAAAATAAATGTTTGTCTTTC

3969/5332
FIGURE 3459

AGCCCCCTGCCCCCTCGCCGCCCGCCGCCTGCCTGGGCGGGCCGAGGATGCGGCGCAGCGCCTCGGCGGCCAGGC
TTGCTCCCCCTCCGGCACGCCTGCTAACTTCCCCCGCTACGTCCCCGTTGCCCCGCCGGGCGGCCCGTCTCCCCG
CGCCCTCCGGGTCCGGTCTCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCCGCTCGCCCGCGCGCCG
CGCTCCCCCGCTGCGCCAGCGCCCCGCGCCCGCGCCAGTCCTCGGGCGGTCATGCTGCCCCCTCTGCCTCGTGG
CCGCCCTGCTGCTGGCCGCCGGGCCCCGGGCCGAGCCTGGGCGACGAAGCCATCCACTGCCCCGCCCTGCTCCGAGG
AGAAGCTGGCGCGCTGCCGCCCCCGTGGGCTGCGAGGAGCTGGTGCAGAGCCGGGCTGCGGCTGTTGCGCCA
CTTGCGCCCTGGGCTTGGGGATGCCCTGCGGGGTGTACACCCCCGTTGCGGCTCGGGCCTGCGCTGCTACCCGC
CCCAGGGGTGGAGAAGCCCTGCACACACTGATGCACGGGCAAGGCGTGTGCATGGAGCTGGCGGAGATCGAGG
CCATCCAGGAAAGCCTGCAGCCCTCTGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCCTGTAGCG
CCCATGACCGCAGGTGCCTGCAGAAGCACTTCGCCAAAATTGAGACCGGAGCACCAGTGGGGGCAAGATGAAGG
TCAATGGGGCGCCCCGGGAGGATGCCCGGCCTGTGCCCCAGGGCTCCTGCCAGAGCGAGCTGCACCGGGCGCTGG
AGCGGCTGGCCGCTTCACAGAGCCGCACCCACGAGGACCTCTACATCATCCCCATCCCCAACTGCGACCGCAACG
GCAACTTCCACCCCAAGCAGTGTACCCAGCTCTGGATGGGCAGCGTGGCAAGTGTGGTGTGTGGACCGGAAGA
CGGGGGTGAAGCTTCCGGGGGGCCTGGAGCCAAAGGGGGAGCTGGACTGCCACCAGCTGGCTGACAGCTTTCGAG
AGTGAGGCCTGCCAGCAGGCCAGGGACTCAGCGTCCCCCTGCTACTCCTGTGCTCTGGAGGCTGCAGAGCTGACCC
AGAGTGGAGTCTGAGTCTGAGTCTCTGCTGCGGCCAGAGTTTCCCTCAAATGCGCGTGTGCACGTGT
GCGTGTGCGTGCCTGT
TTGGTGTACACAGCCCAAGAGGACTGAGACTGGCACTTAGCCCAAGAGGTCTGAGCCCTGGTGTGTGTTCAGAT
CGATCCTGGATTCACTCACTCACTCATTCTTCACTCATCCAGCCACCTAAAAACATTTACTGACCATGTACTAC
GTGCCAGCTCTAGTTTTTCAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAGACACTCCTA
TAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAGAGGAGAAGAGACATGTACCTTGAC
CATCGTCTTCTCTCAAGCTAGCCAGAGGGTGGGAGCCTAAGGAAGCGTGGGGTAGCAGATGGAGTAATGGTCA
CGAGGTCCAGACCCACTCCCAAAGCTCAGACTTGCCAGGCTCCCTTTCTCTTCTTCCCCAGGTCTCTCTTTAGG
TCTGGTTGTTGCACCATCTGCTTGGTTGGCTGGCAGCTGAGAGCCCTGCTGTGGGAGAGCGAAGGGGGTCAAAGG
AAGACTTGAAGCACAGAGGGCTAGGGAGGTGGGGTACATTTCTCTGAGCAGTCAGGGTGGGAAGAAAGAATGCAA
GAGTGGACTGAATGTGCCTAATGGAGAAGACCCACGTGCTAGGGGATGAGGGGCTTCCTGGGTCTGTTCCCTAC
CCCATTGTGGTACAGCCATGAAGTCACCGGGATGAACCTATCCTTCCAGTGGCTCGCTCCCTGTAGCTCTGCC
TCCCTCTCCATATCTCCTTCCCTACACCTCCCTCCCCACACCTCCCTACTCCCTGGGCATCTTCTGGCTTGAC
TGGATGGAAGGAGACTTAGGAACCTACCAGTTGGCCATGATGTCTTTTCTT

3970/5332
FIGURE 3460A

CCCTTCACGACCGTCACCATGGAAGTGTACCAATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAG
AAAAATGAAGATGCTAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAAGAAAACACAATTGGAACATATTTTG
CTCCGCCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGCAAATGTGGGTTTACGATGAAGATGTTGGC
ATTAACTATAGGGAAGTCACTTTTTGTTCTGGTTTGTACAAAATCTTTGATGAGATTCTAGTTAATGCTGCGGAC
AACAAACAAAGGGACCCAAAATGTCTTGTATTAGAGTCACAATTGATCCGGAACAAATTTAATTAGTATATGG
AATAATGGAAAAGGTATTCTGTGTTGTTGAACACAAAGTTGAAAAGATGTATGTCCAGCTCTCATATTTGGACAG
CTCCTAACTTCTAGTAACTATGATGATGATGAAAAGAAAGTGACAGGTGGTCGAAATGGCTATGGAGCCAAATTG
TGTAACATATTTCAGTACCAAATTTACTGTGGAAACAGCCAGTAGAGAATACAAGAAAATGTTCAAACAGACATGG
ATGGATAATATGGGAAGAGCTGGTGAGATGGAACCTCAAGCCCTTCAATGGAGAAGATTATACATGTATCACCTTT
CAGCCTGATTTGTCTAAGTTTAAAATGCAAAGCCTGGACAAAGATATTGTTGCACTAATGGTCAGAAGAGCATAT
GATATTGCTGGATCCACCAAAGATGTCAAAGTCTTTCTTAATGGAAATAAAGTCCAGTAAAAGGATTTCTGTAGT
TATGTGGACATGTATTGAAGGACAAGTTGGATGAACTGGTAACTCCTTGAAAGTAATACATGAACAAGTAAAC
CACAGGTGGGAAGTGTGTTTAACTATGAGTGAAAAGGCTTTTCAGCAAATTAGCTTTGTCAACAGCATTGCTACA
TCCAAGGGTGGCAGACATGTTGATTATGTAGCTGATCAGATTGTGACTAACTTGTGATGTTGTGAAGAAGAAG
AACAAAGGGTGGTGTGTCAGTAAAAGCACATCAGGTGAAAATCACATGTGGATTTTGTAAATGCCTTAATTGAA
AACCCAACCTTTGACTCTCAGACAAAAGAAAACATGACTTTACAACCCAAGAGCTTTGGATCAACATGCCAATTG
AGTGAAAATTTTATCAAAGCTGCCATTGGCTGTGGTATTGTAGAAAGCATACTAACTGGGTGAAGTTTAAAGGCC
CAAGTCCAGTTAAACAAGAGTGTTCAGCTGTAAAACATAATAGAATCAAGGGAATTCCTCAAACCTCGATGATGCC
AATGATGCAGGGGGCCGAACTCCACTGAGTGACGCTTATCCTGACTGAGGGAGATTTCAGCCAAAACCTTTGGCT
GTTTCAGGCCTTGGTGTGGTGGGAGAGACAAATATGGGGTTTTCCCTCTTAGAGGAAAAATACTCAATGTTTGA
GAAGCTTCTCATAAGCAGATCATGAAAATGCTGAGATTAACAATATCATCAAGATTGTGGGTCTTCAGTACAAG
AAAACTATGAAGATGAAGATTCAATTGAAGACGCTTCGTTATGGGAAGATAATGATTATGACAGATCAGGACCAA
GATGGTTCCACATCAAAGGCTTGTGATTAATTTTATCCATCACAACTGGCCCTCTCTTCTGCGACATCGTTTT
CTGGAGGAATTTATCACTCCCATTGTAAAGGTATCTAAAAACAAGCAAGAAATGGCAATTTTACAGCCTTCCTGAA
TTTGAAGAGTGAAGAGTTCTACTCCAAATCATAAAAATGGAAAGTCAAATATTACAAAGGTTTGGGCACCAGC
ACATCAAAGGAAGCTAAAGAATACTTTGCAGATATGAAAAGACATCGTATCCAGTTCAAATATTCTGGTCCTGAA
GATGATGCTGCTATCAGCCTGGCCTTTAGCAAAAAACAGATAGATGATCGAAAAGGAATGGTTAACTAATTTTCATG
GAGGATAGAAGACAACGAAAGTTACTTGGGCTTCCTGAGGATTACTTGTATGGACAACTACCACATATCTGACA
TATAATGACTTCATCAACAAGGAACTTATCTTGTCTCAAATCTGATAACGAGAGATCTATCCCTTCTATGGTG
GATGGTTTGAACCAGGTGAGAGAAAGGTTTTGTTTACTTGCTTCAAACGGAATGACAAGCGAGAAGTAAAGGTT
GCCCAATTAGCTGGATCAGTGGCTGAAATGTCTTCTTATCATCATGGTGAGATGTCACTAATGATGACCATTATC
AATTTGGCTCAGAATTTTGTGGGTAGCAATAATCTAAACCTCTTGACGCCATTGGTCAGTTTGGTACCAGGCTA
CATGGTGGCAAGGATTCTGCTAGTCCACGATACATCTTTACAATGCTCAGCTCTTTGGCTCGATTGTTATTTCCA
CCAAAAGATGATCACACGTTGAAGTTTTTATATGATGACAACCAGCGTGTGAGCCTGAATGGTACATTCTTATT
ATTCCCATGGTGCTGATAAATGGTGTCTGAAGGAATCGGTACTGGGTGGTCTGCAAAATCCCCAATTTGATGTG
CGTGAAATTTGTAATAACATCAGGCGTTTGATGGATGGAGAAGAACCTTTGCCAATGCTTCCAAGTTACAAGAAC
TTCAAGGGTACTATTGAAGAACTGGCTCCAAATCAATATGTGATTAGTGGTGAAGTAGCTATTCTTAATTCTACA
ACCATTGAAATCTCAGAGCTTCCCGTCAGAACATGGACCCAGACATACAAAGAACAAGTTCTAGAACCCATGTTG
AATGGCACCGAGAAGACACCTCCTCTCATAACAGACTATAGGGAATACCATACAGATACCACTGTGAAATTTGTT
GTGAAGATGACTGAAGAAAACTGGCAGAGGCAGAGAGAGTTGGACTACACAAAGTCTTCAAACCTCCAACTAGT
CTCACATGCAACTCTATGGTGCTTTTTGACCACGTAGGCTGTTTAAAGAAATATGACACGGTGTGGATATTCTA
AGAGACTTTTTTGAACCTCAGACTTAAATATTATGGATTAAGAAAAGAAATGGCTCCTAGGAATGCTTGGTGCTGAA
TCTGTAACTGAATAATCAGGCTCGCTTTATCTTAGAGAAAATAGATGGCAAAATAATCATTGAAAATAAGCCT
AAGAAAGAATTAATTAAGTTCTGATTGAGGGGATATGATTTCGGATCCTGTGAAGGCCTGGAAAGAAGCCCAG
CAAAAGGTTCCAGATGAAGAAGAAAATGAAGAGATGACAACGAAAAGGAACTGAAAAGAGTACTCCGTAACA
GATTCTGGACCAACCTTGAACATCTTCTTGATATGCCCTTTGGTATTTAACCAGGAAAAGAAAGATGAACTC
TGCAGGCTAAGAAATGAAAAGAAACAAGAGCTGGACACATTAAAAAGAAAGAGTCCATCAGATTTGTGGAAAGAA
GACTTGGCTACATTTATTGAAGAATTGGAGGCTGTTGAAGCCAAGGAAAAACAAGATGAACAAGTCCGACTTCCT

10/531147

3971/5332
FIGURE 3460B

GGGAAAGGGGGAAGGCCAAGGGGAAAAAACACAAATGGCTGAAGTTTTGCCTTCTCCGCGTGGTCAAAGAGTC
ATTCCACGAATAACCATAGAAATGAAAGCAGAGGCAGAAAAGAAAAATAAAAAGAAAATTAAGAATGAAAATACT
GAAGGAAGCCCTCAAGAAGATGGTGTGGAACTAGAAGGCCTAAAACAAAGATTAGAAAAGAAACAGAAAAGAGAA
CCAGGTACAAAGACAAAGAAACAAACTACATTGGCATTAAAGCCAATCAAAAAAGGAAAGAGAAAATCCCTGG
TCTGATTAGAATCAGATAGGAGCAGTGACGAAAGTAATTTTGATGTCCCTCCACGAGAAACAGAGCCACGGAGA
GCAGCAACAAAAACAAAATTCACAATGGATTGGATTGAGATGAAGATTTCTCAGATTTTGATGAAAAAAGTAT
GATGAAGATTTTGTCCCATCAGATGCTAGTCCACCTAAGACCAAAACTTCCCCAAACTTAGTAACAAAGAAGT
AAACCACAGAAAAGTGTCTGTGTCAGACCTTGAAGCTGATGATGTTAAGGGCAGTGTAACCACTGTCTTCAAGCCCT
CCTGCTACACATTTCCCAGATGAAACTGAAATTACAAACCCAGTTCTTAAAAGAATGTGACAGTGAAGAAGACA
GCAGCAAAAAGTCAGTCTTCCACCTCCACTACCGGTGCCAAAAAAGGGCTGCCCAAAAGGAAGTAAAAGGGAT
CCAGCTTTGAATTCTGGTGTCTCTCAAAAGCCTGATCCTGCCAAAACCAAGAATCGCCGCAAAAGGAAGCCATCC
ACTTCTGATGATTCTGACTCTAATTTTGAGAAAATTGTTTCGAAAGCAGTCACAAGCAAGAAATCCAAGGGGGAG
AGTGATGACTTCCATATGGACTTTGACTCAGCTGTGGCTCCTCGGGCAAAATCTGTACGGGCAAAAGAAACCTATA
AAGTACCTGGAAGAGTCAGATGAAGATGATCTGTTTTAAAATGTGAGGCGATTATTTAAGTAATTATCTTACCA
AGCCCAAGACTGGTTTTAAAGTTACCTGAAGCTCTTAACCTCCTCCCCTCTGAATTTAGTTTGGGGAAGGTGTTT
TTAGTACAAGACATCAAAGTGAAGTAAAGCCCAAGTGTCTTTAGCTTT

3972/5332
FIGURE 3461

CCATCTGGGCCCAGGCCCCATGCCCCAGGAGGGGTGGTCTGAAGCCCACCAGAGCCCCCTGCCAGACTGTCTGC
CTCCCTTCTGACTGTGGCCGCTTGGCATGGCCAGCAACAGCAGCTCCTGCCCGACACCTGGGGGCGGGCACCTCA
ATGGGTACCCGGTGCCTCCCTACGCCTTCTTCTTCCCCCTATGCTGGGTGGACTCTCCCCGCCAGGCGCTCTGA
CCACTCTCCAGCACCAGCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGCA
GTTCTGAAGAGATAGTGCCAGCCCTCCCTCGCCACCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGTC
AGGACAAGTCCTCAGGCTACCACTATGGGGTCAGCGCTGTGAGGGCTGCAAGGGCTTCTTCCGCCGAGCATCC
AGAAGAACATGGTGTACACGTGTACCCGGGACAAGAAGTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAGT
ACTGCCGACTGCAGAAGTGCTTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGA
AGGAGGTGCCCAAGCCCGAGTGCTCTGAGAGCTACACGCTGACGCCGGAGGTGGGGGAGCTCATTGAGAAGGTGC
GCAAAGCGCACCAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACGAACAACAGCTCAGAACAAC
GTGTCTCTCTGGACATTGACCTCTGGGACAAGTTCAAGTGAAGTCTCCACCAAGTGCATCATTAAGACTGTGGAGT
TCGCCAAGCAGCTGCCCGGCTTACCACCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTGG
ACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCGAGCAGGACACCATGACCTTCTCGGACGGGCTGACCC
TGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCGACCTGGTCTTTGCCTTCGCCAACCCAGCTGC
TGCCCTTGGAGATGGATGATGCGGAGACGGGGCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGACC
TGGAGCAGCCGGACCGGGTGGACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGGA
GGCCCAGCCGCCCCCACATGTTCCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCCAAGGGGG
CTGAGCGGGTGATCACGCTGAAGATGGAGATCCCGGGCTCCATGCCGCCTCTCATCCAGGAAATGTTGGAGAAGT
CAGAGGGCCTGGACACTCTGAGCGGACACCGGGGGGTGGGGGGCGGGACGGGGGTGGCCTGGCCCCCCCCGCCAG
GCAGCTGTAGCCCCAGCCTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCTGACCGCCACGC
CACATGGACACAGCCCTCGCCCTCCGCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACAGCC
CTGCCCCACCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCCT
TGGACAGAGGCCTGGGCCCTCAGTGGACTGCCTGCTCCACAGCCTGGGCTGACGTGAGAGGCCGAGGCCAGGAA
CTGAGTGAGGCCCCCTGGTCCTGGGTCTCAGGATGGGTCTGGGGGCTCGTGTTCATCAAGACACCCCTCTGCCC
AGCTCACCACATCTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAACTCACAAGCCATTGCTC
CCCAGCTGGGGAACCTCAACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGTGGGACAGGGGCGGGGGGTCCC
CCTGTACATACCCTGCCATACCAACCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAAATTTTTTGT
TGATTTTTTTAATAAGAATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGAGCT
GGATCCAGAGCTGGAGGGGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCACTCTCCTTTCATGTCCC
TGTGCCCCCAGTTCTCCTCCTCAGCCTTTTCTCCTCAGTTTTCTCTTTAAACTGTGAAGTACTAACTTTCCA
AGGCTTGCTTCCCCCTCCCTCCACTGGAGAAGCCGCCAGCCCCCTTTCTCCCTCTGCCTGACCACTGGGTGTGGA
CGGTGTGGGGCAGCCCTGAAAGGACAGGCTCCTGGCCTTGGCACTTGCTGCACCCACCATGAGGCATGGAGCAG
GGCAGAGCAAGGGCCCCGGGACAGAGTTTCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCCAC
ATCATCTAGGCTCCCCAGCCCCACTGTGAAGGGGCTGGCCAGGGGGCCGAGCTGCCCCACCCCCGGCCTCAGC
CACCAGCACCCCCATAGGGCCCCAGACACCACACACATGCGCGTGCGCACACACAAACACACACACTGGA
CAGTAGATGGGCGGACACACACTTGGCCCGAGTTCTCCATTTCCCTGGCCTGCCCCCACCCTGCACCCCCAGCTGG
ACCCCCGTGCCCCCTCCTTACCCCGCAGGACGGGCTACAGGGGGGTCTCCCTCACCCTGCACCCCCAGCTGG
GGGAGCTGGCTCTGCCCCGACCTCCTTACCAGGGGTGGGGCCCCCTCCCTGGAGCCGTGGGTGCACCTGTT
ACTGTTGGGCTTCCACTGAGATCTACTGGATAAAGAATAAAGTTCTATTTATTCT

3973/5332
FIGURE 3462

GAGCGCGGCTGGAGTTTGCTGCTGCCGCTGTGCAGTTTGTTCAGGGGCTTGTGGTGGTGAGTCCGAGAGGCTGCG
TGTGAGAGACGTGAGAAGGATCCTGCACTGAGGAGGTGGAAGAAGAGGATTGCTCGAGGAGGCTGGGGTCTGT
GAGGCAGCGGAGCTGGGTGAAGGCTGCGGGTTCCGGCGAGGCCTGAGCTGTGCTGTGCTCATGCTCAAAACCCGA
TCCCAGGCACAGGCTACAATCAGTTTTCAAAAAGGAAGCTGTCTCGGGCATTGAACAAAGCTAAAACTCCAGT
GATGCCAACTAGAACCAACAAATGTCCAAACCGTAACCTGTTCTCCTCGTGTAAAAGCCCTGCCTCTCAGCCCC
AGGAAACGTCTGGGCGATGACAACCTATGCAACACTCCCCATTTACCTCCTTGTCTCCACCAAGCAAGGCAAG
AAAGAGAATGGTCCCCCTCACTCACATACACTTAAGGGACGAAGATTGGTATTGACAATCAGCTGACAATTAAG
TCTCCTAGCAAAAGAGAACTAGCCAAAGTTCACCAAAACAAAATACTTTCTTCAGTTAGAAAAAGTCAAGAGATC
ACAACAAATTCTGAGCAGAGATGTCCACTGAAGAAAGAATCTGCATGTGTGAGACTATTCAAGCAAGAAGGCACT
TGCTACCAGCAAGCAAAGCTGGTCCTGAACACAGCTGTCCAGATCGGCTGCCTGCCAGGGAAAGGGAGATGGAT
GTCATCAGGAATTTCTTGAGGGAACACATCTGTGGGAAAAAAGCTGGAAGCCTTACCTTTCTGGTGCTCCTGGA
ACTGGA AAAA ACTGCCTGCTTAAGCCGATTCTGCAAGACCTCAAGAAGGAAGTGAAGGCTTTAAACTATCATG
CTGAATTGCATGCTCTTGAGGACTGCCAGGCTGTATTCCAGCTATTGCTCAGGAGATTGTGAGGAAGAGGTA
TCCAGGCCAGCTGGGAAGGACATGATGAGGAAATTGGA AAAA ACATATGACTGCAGAGAAGGGCCCCATGATTGTG
TTGGTATTGGACGAGATGGATCAACTGGACAGCAAAGGCCAGGATGTATTGTACACGCTATTTGAATGGCCATGG
CTAAGCAATTCTCACTTGGTGCTGATTGGTATTGCTAATACCCTGGATCTCACAGATAGAATTCTACCTAGGCTT
CAAGCTAGAGAAAAATGTAAGCCACAGCTGTTGAACTTCCACCTTATACCAGAAATCAGATAGTCACTATTTTG
CAAGATCGACTTAATCAGGTATCTAGAGATCAGGTTCTGGACAATGCTGCAGTTCAATTCTGTGCCCGCAAAGTC
TCTGCTGTTTCAGGAGATGTTCCGAAAGCACTGGATGTTTGCAGGAGAGCTATTGAAATTGTAGAGTCAGATGTC
AAAAGCCAGACTATTCTCAAACCACTGTCTGAATGTAAATCACCTTCTGAGCCTCTGATTCCCAAGAGGGTTGGT
CTTATTCACATATCCCAAGTCATCTCAGAAAGTTGATGGTAACAGGATGACCTTGAGCCAAGAAGGAGCACAAGAT
TCCTTCCCTCTTCAGCAGAAGATCTTGGTTTGCTCTTTGATGCTCTTGATCAGGCAGTTGAAAATCAAAGAGGTC
ACTCTGGGGAAGTTATATGAAGCCTACAGTAAAGTCTGTGCGAAACAGCAGGTGGCGGCTGTGGACCAGTCAGAG
TGTTTGTCACTTTTCAGGGCTCTTGGAAGCCAGGGGCATTTTAGGATTAAAGAGAAACAAGGAAACCCGTTTGACA
AAGGTGTTTTTCAAGATTGAAGAGAAAGAAATAGAACATGCTCTGAAAGATAAAGCTTTAATTGGAAATATCTTA
GCTACTGGATTGCCTTAAATTCTTCTCTTACACCCCAACCCGAAAGTATTACAGCTGGCATTTAGAGAGCTACAGTC
TTCATTTTAGTGCTTTACACATTCGGGCCTGAAAACAAATATGACCTTTTTTACTTGAAGCCAATGAATTTTAAT
CTATAGATTCTTTAATATTAGCACAGAATAATATCTTTGGGTCTTACTATTTTACCCATAAAAGTGACCAGGTA
GACCTTTTTTAATTACATTCACACTTCTACCACTTGTGTATCTCTAGCCAATGTGCTTGCAAGTGTACAGATCT
GTGTAGAGGAATGTGTGTATATTTACCTCTTCGTTTGCTCAAACATGAGTGGGTATTTTTTGTGTTGTTTTTTT
GTTGTTGTTGTTTTTGAGGCGGCTCTCACCTGTGCCCAGGCTGGAGTGCAATGGCGCGTCTCTGCTCACTAC
AGCACCCGCTTCCAGGTTGAAGTGATTCTCTGCCTCAGCCTCCGAGTAGCTGGGATTACAGGTGCCCCACCAC
CGCGCCCAGCTAATTTTTTAATTTTTTAGTAGAGACAGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCTG
ACCCTCAAGTGATCTGCCACCTTGGCCTCCCTAAGTGCTGGGATTATAGGCGTGAGCCACCATGCTCAGCCATT
AAGGTA TTTTGTTAAGAACTTTAAGTTTAGGGTAAGAAGAATGAAAATGATCCAGAAAAATGCAAGCAAGTCCAC
ATGGAGATTTGGAGGACACTGGTTAAAG

3974/5332
FIGURE 3463

GGTATATGAATGACCTAAAGGTACAAATAAAGACGGAGAGAGAACAGTGCCAACTGGGAGCAGGGCAAGAATGCC
AATTCTCTCTCCCCGCCACCCCCACCTGGTCTCTCTCCACCTCCACATTTTCATCAGGCAAACACAGAGCAGCC
CAAGCTGAGTAGAGATGAGCAGCGGGGTGAGGCGCCCTCTTACAGGACATTTGCAAAGGGACCAAGCTGAAGAA
GGTGACCAACATTAATGATCGGAGTGCTCCCATCTCGAGACTCTCCACCCCCACCACCTGTGATCCGAAATGG
TGCCAGGGATGCTCCCCCTCCCCCACCACCATAACGAATGCATGGGTGAGAACCCCGAGCCGAGGAAAGCCCCC
ACCTCCACCCTCAAGGACGCCAGCTGGGCCACCCCTCTCTCTCCACCGCCCTGAGGAATGGCCACAGAGATTCT
TATCACCCTGTCCGGTCTTTCTTGGATGATTTTGAGTCAAAGTATTCTTCCATCCAGTAGAAGACTTTCTCTGC
TCCAGAAGAATATAAACACTTTTCAGAGGATATATCCCAGCAAACAAACCGAGCTGCCCGTGGAGCCCCACCTCT
GCCACCATTTCTCAGGTGAAGCCTGGCTTGGTCCCGTTCTCTCAGGAAAAGGATGGACCTTCTCTTCTCTCAGAT
GGTCCCTTCCATTCCCCTGAAACCTGCATGAGAGCTCCTAACATGTTTCTCCAATGCAATCAAGCCCTAGACTCC
AAATGTCTCTCCAGCTCACCTCCATCTATGCATCTCATCTCTGGATTGGTGATCAGACTCTATATTGACAGTAG
GATCTCAAACCTGCATCCATCCTTCTCTCCAGCAAGCCCTGCTAGCCACATGAGGAACAAGTTTCCGTGTCTTCT
GCCTTCTCTTGGGGAAAGGTGCCTTGTGTGATGAATTAACCTCACTGTTAGGGCAGGGTGGAGAATGGTACTCC
TTCCTTCTCTGTCCACTGTGGGGGAAGCTTGGCAGGTATATTATATTTTCATCATTTAGGAGGCTGGCATGACCA
GGACTTATGGGTGGGAGGGGAGCATTTTTAGTGAAGCAAGAAAGGAGTTTGCCAAGAAGTGATCTGTTTTAAAGG
TCATATTTGGAGAAAGGGCAAGGAATTGGGTCTGCTTTATTTTTGGGGGTATTTTGTGTTTTGTCTCACCTGCTG
CCCCCCCCACCCACCACCCACGGGATAAATTGGATATAAACTAAATACTAATCAGTTGAACCTAACATTTAAT
AAAAAGAAAGGGTGAAATAAACTGAAGACCATTTTAGAACTAGTCAGTTCTCTGCAGCAAAGGGAACAGGAGCCA
TTTGAACCTCTCTGGGACCCCTCACCCACCTGCTTCAGGGTGCTAGGCTGAGGGATGTTTTCTCTCCCTTACCG
CCCATGCCCTTGAAAGAAAGTCATTTTTGTGGAGGGCATCATTCATTCTGATTACAAACCCCAAAACCTC
TGGTGGGAGATAGGAAGATAGGGCGTGGGCCTGGGCCTTAACCTCAATCTTGTGTCTGCCTCAGTCTTTCTGAC
TGGCCCTGAAGTTGTCTAGTGGCTCTTTCTGTCTTCAGCCCTGGAAGGTGCTCCAGGATAACAAAGAGGGCAG
GTTGAAGCCCTCATGGAAGGAGCTGGCTTTGTGGGGCTGCAAAGGACTTTTAAGTCCTGCCTGTACTGAAGTTC
ACAGCCCACCTGACTGAGCAGACTCTTCTGTCTTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
AGCACAAAGACTTTGTGAGATTTGCCTCAGTTCAGTAGATCTTCTTGGCAGCCAGCCATAGGTTGTTTCTTTG
TCTTCCGGGTCTTAAAGAGCACAGAGAAAATGGAGGTCCCCAGTCTAGGTAGGAAGCTGATTGGATGAGGACTTC
TTTTTTTCCGACAGCAGGATGGGGCTCTTGGGCTCCACACACCAGATGCTTTGGTTTTCTACAAGTGTGCTATG
TGTAAGGGTGCTCAGAGCGTGGCATGAGAGCAAGGAGACCATGGCTACTCTTTGAAATGGATGGGGAAATTAG
CTTAAAAATTTAATCACGAGATTGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGACTCCGTCTC

3975/5332
FIGURE 3464

GCGCGGCGGGCATGGCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGGGCGCAGTACGAGA
AGTACAGCTTCCGGGGCTTCCCGCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCACGCTCTGGAGCAGT
ACGAGGGAGAGAGCTGGCGCGAGAGCGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGGCTCCTGCGCGACA
GCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCCGCGCCGCGGCCAAGCCCGATCCCGACGGCGGCGCGCAG
ACGAGTGGGCTGCGAGCTGCGGCTCTTCGGCCGCGTCTGGAGCGAGCCGCTGCCTGCGGCGCTGCAAGCGGA
CGCTGCCCCGCTTCCAGGTGCCCTACCCGCGCGGCAGCTGCTGCGTGACTTCCAGAGCCGCTGCCCTACCACT
ACCTGCACTACGCGCTGTTCAAGGCTAACCGGCTGGAGAAGGCGGTGGCGGCGGCTACACCTTCCCTCCAGAGGA
ACCCGAAGCACGAGCTGACCGCCAAGTATCTCACTACTATCAGGGGATGCTGGACGTCGCGGACGAGTCCCTCA
CGGACCTAGAGGCCAGCCCTACGAGGCGGTTCCTCCGGGCTGTGAAGCTCTACAACAGCGGGGATTTCCGCA
GCAGCACGGAGGACATGGAGCGGGCTTGTGAGAGTACCTGGCAGTCTTTGCCCGGTGCCTGGCCGGCTGTGAAG
GGGCCCATGAGCAGGTGGACTTCAAGGACTTCTACCCGGCCATAGCAGATCTCTTGCAGAGTCCCTGCAGTGCA
AGGTGGACTGTGAGGCCAATTTGACCCCAATGTGGGTGGCTACTTCGTGGACAAGTTCGTGGCCACCATGTACC
ACTACCTGCAGTTTGCTACTATAAGTTGAATGATGTGCGCCAGGCTGCCCGCAGCGCCCGCAGCTACATGCTCT
TCGACCCCAAGGACAGCGTCATGCAGCAGAACCTGGTGTATTACCGGTTCCACCGGGCTCGCTGGGGGCTTGAAG
AGGAGGACTTCCAGCCCCGGGAGGAGGCCATGCTCTACCACAACAGACCGCCGAGCTGCGGGAGCTGCTGGAGT
TCACCCACATGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCTGGAGCCTGAGGATG
CCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGCATGTATGCTGACTGGTGGCAGGAGCCGG
ATGCCAAGGGTGACGAGGCCGAGGCTGAGCCAGAGCCTGAACCTCGCATGAGAAGGGGACACCCACACCGCTCAA
GCTTGGGAAGCCTGGTGCCGATGGCCCCACCTCACCAGCCTGGGCAGCAGCAAGAATATTTATTAATACTTA
AGATGGGCCAGGTGCGGTGGCTCACACCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGG
CCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAGACCTCCGTCTCTACTAAAATACATAAATTAGCCGGGTGT
GGTGGCAGGCGCCTGAAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAAGCAAAGGT
TGCACTGAACTGAGATTGCGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATCTTTAAAAAAAACAA
GACGGGCCGGCACGGTGGCTCACGCCTGTAATCCAGCACTGAGAGGCCGATCACTTGAGGTGAGGAGTTCAAGA
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAAATTAGCCAGGCATGGTGGCACACACC
TGTAATCGTAGCTGAGGCAGGAGAATCGCCTGAACCCAGGAGGCGGAGCTTGCACTGAGCCGAGATCGTGCCACT
GCACTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAATTAGATGGACACAGCTGAC
TGGACCCCATCCTGCCTACCCATGGGTGCTGCACCCAGACCCATCCTGCCACTTCTATGTCTCTGGACCACA
GGATGGTGGTGGCAATTGCAGGTTGGCAAGTGGGCTGATGGGGTCCGCCCTCCTCACTGCTGAGCTCCTCACCTGG
ACAGTCTCCTGGACAAGGAGTTTCCAGCTGCTGGCTGGAGTCTCAGGCCAAATTGCAGAGGGTCTCCAGGGTCC
TGAAGAGCACTGGACTAAGAGTCTAGTGGTTCAGGGCCCTGACCAGTAGGTGCTCAATAAATGTTTGTGTGA
ATG

3976/5332
FIGURE 3465

AGCTATGATCGCAACACCTTGGTGGCCATCGTGGTGGGTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTC
ATGGGCATGTGTGTCAACGAGCGGCGACGCCTCATTGTGCCTCCCCACCTGGGCTATGGGAGCATCGGCCTGGCG
GGGCTCATTCCACCGGATGCCACCCTCTACTTCGATGTGGTTCTGCTGGATGTGTGGAACAAGGAAGACACCGTG
CAGGTGAGCACATTGCTGCGCCCGCCCCACTGCCCCGCATGGTCCAGGACGGCGACTTTGTCCGCTACCACTAC
AATGGCACCCCTGCTGGACGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCACCTATGACACCTACGTCGGC
TCTGGTTGGCTGATCAAGGGCATGGACCAGGGGCTGCTGGGCATGTGTCCTGGAGAGAGAAGGAAGATTATCATC
CCTCCATTCCCTGGCCTATGGCGAGAAAGGCTATGGGACAGTGATCCCCCACAGGCCTCGCTGGTCTTTACGTC
CTCCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGCTAGAGACGCTGGAGCTCCCCCGGGCTGTGTCCGC
AGAGCCGGGGCCGGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCCCTCTTCGATTCCAGC
TACTCCCGCAACCACACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGACCAGGGGCTGCAG
GGTGCCTGCATGGGGGAACGCCGGAATTACCATCCCCCGCACCTCGCCTATGGGGAGAATGGAAGTGGAGAC
AAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCAATTGACTTCCACAACCTGCGGATGTGGTGGAA
ATCAGGACACTGTCCCGGCCATCTGAGACCTGCAATGAGACCACCAAGCTTGGGGACTTTGTTTCGATAACCATTAC
AACTGTTCTTTGCTGGACGGCACCCAGCTGTTTCACTCGCATGACTACGGGGCCCCCAGGAGGCGACTCTCGGG
GCCAACAAGGTGATCGAAGGCTGGACACGGGCCTGCAGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTG
CCCCCGCACCTGGCCACGGGGAGAGTGGAGCCCCGGGGAGTCCCAGGCAGTGCTGTGCTGTGTTGAGGTGGAG
CTGGTGTCCCGGGAGGATGGGCTGCCACAGGCTACCTGTTTGTGTGGCACAAGGACCCCTCCTGCCAACCTGTTT
GAAGACATGGACCTCAACAAGGATGGCGAGGTCCCTCCGGAGGAGTTCTCCACCTTCATCAAGGCTCAAGTGAGT
GAGGGCAAAGGACGCCTCATGCCTGGGCAGGACCCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGC
AACCAGGACGGCAAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAG
CTCTGAGGGGACAGGGAGCCTGGCCAGGCCTGAGACACAGAGGCCCACTGCGAGGGGGACAGTGGCGGTGGGACTG
ACCTGCTGACAGTCACCCCTCCCTCTGCTGGGATGAGGTCCAGGAGCCAACTAAACAATGGCAGAGGAGACATCT
CTGGTGTTCACACCACCCTAGATGAAAATCCACAGCACAGACCTCTACCGTGTTCCTCTCCATCCCTAAACCAC
TTCCTTAAATGTTTGGATTGCAAAGCCAATTTGGGGCCTGTGGAGCCTGGGGTTGGATAGGGCCATGGCTGGT
CCCCCACCATACTCCCTCCACATCACTGACACAGCTGAGCTTGTTATCCATCTCCCCAAACTTTCTCTTTCTT
TGTACTTCTTGTATCCCCACTCCCAGCCCCTTTTCTCTATGTGACAGCTCCCTAGGACCCCTCTGCCTTCCTC
CCCAATCCTGACTGGCTCCTAGGGAAAGGGGAAGGCTCCTGGAGGGCAGCCCTACCTCTCCCAIGCCCTTTGCCCT
CCTCCCTCGCCTCCAGTGGAGGCTGAGCTGACCCTGGGCTGCTGGAGGCCAGACTGGGCTGTAGTTAGCTTTTCA
TCCCTAAAGAAGGCTCCTTTCCCTAAGGAACCATAGAAGAGAGGAAGAAAACAAAGGGCATGTGTGAGGGAAGCT
GCTTGGGTGGGTGTTAGGGCTATGAAATCTTGGATTGGGGCTGAGGGGTGGGAGGGAGGGCAGAGCTCTGCACA
CTCAAAGGCTAAACTGGTGTAGTCCCTTTTTCTTTGTTCCAAATAAAAGATTAAACC

10/531147

3977/5332
FIGURE 3466

GGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCCGGACTCCGACCCCCGGGGCGCTT
CGAGCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCTCGCGCACCCCGGCC
CGCCTCACACGCGCGCCCCGAGCGAGCCCCGGGCTCCCTCGGGCCCAGCGTGGCGCAGGGGTGAGTGGTTCTCTC
GGGTCTCGGGACAGGTGAGCACCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGCAGGAGATCG
TGGGCGCCCTCCGCAAGGGCGGGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGAGCAGGTTTG
CATATAATGGAAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTCTGGA
AAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTAC
CTCATATGGTGGAAATGGTGGACCAAAGCACACAATCTCCTATGTGAGCAGAAGATTCAGAAGTTTCAGATAGCCC
AGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAACAACA
TTCCCCTTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAGTGTTCCACC
CCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGGGCCAGCTCA
TACACACATAACAAGAACAGCTCTGCGTGTGAGAACTCTGGTTACTTCCAGCAACTTGAGGGCAAAACCAATG
TCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCCTGGTGTGCAGAACATTCTCAAAA
TTGGCTTCCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGCTGGAGAAGG
ACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGATGCAAGGCC
CCTGAAGGCGCAGGCTCCAGCCCGGCCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTGCTCCCCCGT
GAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCTTCCGCGCCCCCTCCGTCTCTTTCCCTGAGC
ACCTTCATCACCAGAGGCTTGAAGGAACCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGAACCTTGGAC
CACAGCATGTGAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTAAACATGGGAAGTTCAAA
CAAATATAATGTGTGAAACAG

3978/5332
FIGURE 3467A

CCGGATTTTTCGGGGTTTCGTGGGCCTGTGGAAGAAGCGCCGCGCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAACTCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAAACCTTGGTCTCGTT
GGGGTCAACCTCACTCTGGATGGGGTCAAGTCTTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAACTTTCTGATCGAGCCCTTCGTCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCTGAAGACAAGAAAGAAATTTCTGGCCAGTTTTATCTCCGGCCTCTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCCTTGTAGTGACCAAGATGGAGTCTATGTCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCTCCCCCTTCGGGCGGGAGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCCTCTGTCTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGAAACTTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCCTGGGCCACCGG
CCCATCCCCAACCCAGCCACCCACAGCGGGCCACACTGCAAACCTTCCTCCTCAACGCCAGCGGGAGCACATCGACG
CCAGCCCCCAGCAGGACAGCATCTTTTTCTGAGTCCAGGGCCGATGAGGTGGCGCCTGCAAAGAAGGCCAAGCCT
GCCATGCCACAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGCACCACCTCTTCAGCCGCCACACC
AAGGCCATTGTGTGGGCGATGCAGACCCGGGCGGTGCAAGGCATGCTGGACTTTGACTATGTCTGCTCCCGAGAC
GAGCCCTCAGTGGCTGCCATGGTCTACCCCTTCACTGGGGACCACAAGCAGAAGTTTACTGGGGGCACAAAGAG
ATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCATCCGGAGGTAGATGTGCTCATCAACTTT
GCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCAGATCCGGACCATCGCCATCATA
GCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGCGGACCAGAAGGGAGTGACCATCATCGGA
CCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTGGACAACATCCTG
GCCTCAAACCTGTACCGCCAGGCAGCGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAACGAGCTCAACAAT
ATCATCTCTCGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCGGGCTCCCAATTC
ATGGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAATGATTGTGTTCTTGAGAGATTGGGGGCACT
GAGGAATATAAGATTTGCCGGGGCATCAAGGAGGGCGCCTCACTAAGCCCATCGTCTGCTGGTGCATCGGGACG
TGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCTTCTGAAACTGCA
GTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGTCGCCCGGAGCTTTGATGAGCTTGGAGAGATCATC
CAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCATTGTACCTGCCAGGAGGTGCCGCCCCAACCGTGCCC
ATGGACTACTCCTGGGCCAGGGAGCTTGGTTTGATCCGCAAACCTGCCTCGTTTCATGACCAGCATCTGCGATGAG
CGAGGACAGGAGCTCATCTACGCGGGCATGCCATCACTGAGGTCTTCAAGGAAGAGATGGGCATTGGCGGGGTC
CTCGGCCTCCTCTGGTTCCAGAAAAGGTTGCCTAAGTACTCTTGCCAGTTTCATTGAGATGTGTCTGATGGTGACA
GCTGATCACGGGCCAGCCGTCTCTGGAGCCCAACACCATCATTTGTGCGCGAGCTGGGAAAGACCTGGTCTCC
AGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGATGCAGCAGCCAAGATGTTAGT
AAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAGCTGATCATGGGC
ATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTACGTCAGGCAGCAC
TTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAGCCAAATCTTATC
CTGAATGTAGATGGTCTCATCGGAGTCGATTTGTAGACATGCTTAGAACTGTGGTCTCTTACTCGGGAGGAA
GCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGGTTTATTGGACAC
TATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTTATATGTTCTTCCGAA
CACATGAGCATGTAACAGAGCCAGGAACCCCTACTGCAGTAAACTGAAGACAAGATCTCTTCCCCCAAGAAAAGT
GTACAGACAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTGGGGTACAGGCA
CCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTTTATAAGCATAG

3979/5332:
FIGURE 3467B

AAATAAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAGCATCTAAGTAC
TGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTTCCATTAGTTAAACATTTTTTTC
TCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATAACATTTAAAGCACCCCAATGTCTCTCTTT
TTTTTTTTTTACTTCCCTTTCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGATTTTTAAAGATCTT
TTTGTATGTTACGTGTTAAGGGCTTGTTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCAGAGTCTGTTTAT
GTCAGGGGGATGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTAATATGTAAAGTT
GTAACATACATACATTTAAATGGAAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTCTCTGTATTTATG
CAGCTGATTTGTCTGTCTGTAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTGTAATCCACAAAG
ATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTATATAGTAACA

3980/5332
FIGURE 3468

GTTACACACAGGCAGTGGTATCTGTGAGCAGCTCTGTGGACTCAAAGGTTTTCTCCCTGAGAGGCATGACCCAGG
CCAGCTGATTCATCAGAATCAGGATGGACGTGGTAGAGGTGCGGGCAGTTGGTGGGCACAAGAGCGAGAGGACA
TCATTATGAAATACGAAAAGGGACACCGAGCTGGGCTGCCAGAGGACAAGGGGCCTAAGCCTTTTCGAAGCTACA
ACAACAACGTCGATCATTGTTGGGATTGTACAAGTGAGACGGAGCTGCCTCCTCTGACTGCGCGGGAGGCGAAGCA
AATTCGGCGGGAGATCAGCCGAAAGAGCAAGTGGGTGGATATGCTGGGAGACTGGGAGAAATACAAAAGCAGCAG
AAAGCTCATAGATCGAGCGTACAAGGGAATGCCCATGAACATCCGGGGCCCGATGTGGTCAGTCCTCTGAACAC
TGAGGAAATGAAGTTGAAAAACCCCGGAAGATACCAGATCATGAAGGAGAAGGGCAAGAGGTCATCTGAGCACAT
CCAGCGCATCGACCGGGACGTAAGCGGGACATTAAGGAAGCATATATTCTTCAGGGATCGATACGGAACCAAGCA
GCGGGAACACTCCACATCCTCCTGGCATATGAGGAGTATAACCCGGAGGTGGGCTACTGCAGGGACCTGAGCCA
CATCGCCGCCCTTGTTTCTCCTCTATCTTCTGAGGAGGATGCATTCTGGGCACTGGTGCAGCTGCTGGCCAGTGA
GAGGCACTCCCTGCAGGGATTTACAGCCCAAATGGCGGGACCGTCCAGGGGCTCCAAGACCAACAGGAGCATGT
GGTAGCCACGTCACAACCCAAGACCATGGGGCATCAGGACAAGAAAGATCTATGTGGGCAGTGTCCCCGTTAGG
CTGCCCTCATCCGGATATTGATTGACGGGATCTCTCTCGGGCTCACCTGCGCTGTGGGACGTGTATCTGGTAGA
AGGCGAACAGGCGTTGATGCCGATAACAAGAATCGCCTTTAAGGTTACAGCAGAAGCGCTCACGAAGACGTCCAG
GTGTGGCCCCGTGGGCACGTTTTTGCAACCGTTTCGTTGATACCTGGGCCAGGGATGAGGACACTGTGCTCAAGCA
TCTTAGGGCCTCTATGAAGAACTAACAAGAAAGCAGGGGGACCTGCCACCCCCAGCCAAACCCGAGCAAGGGTC
GTGCGCATCCAGGCCTGTGCCGGCTTCACGTGGCGGGAAGACCCTCTGCAAGGGGGACAGGCAGGCCCTCCAGG
CCCACAGCCCGGTTCCCGCGGCCCATTTGGTCAGCTTCCCGCCACGGGCACCTCGTTCTTCCACACCTGTCC
TGGTGGGGCTGTCCGGGAAGACACCTACCCTGTGGGCACTCAGGGTGTGCCCAGCCCGGCCCTGGCTCAGGGAGG
ACCTCAGGGTTCTTGAGATTCTTGCAGTGGAACCTCATGCCCCGCTCCCAACGGACCTGGACGTAGAGGGCCC
TTGGTTCCGCCATTATGATTTTACAGACAGAGCTGCTGGGTCCGTGCCATATCCCAGGAGGACCAGCTGGCCCCCTG
CTGGCAGGCTGAACACCCTGCGGAGCGGGTGAGATCGGCTTTTCGTGCAACCCAGCACTGATTCCGACCAGGGCAC
CCCCTTACAGAGCTAGGGACGAACAGCCGTGTGCTCCACCTCAGGGCCTTGCTCTGCGGCCTCCACTTGGAAG
TTCTCAGTTCCCTCCAGGCTTCTAGAAAGCATCTGGGCCAGGGCTCATGGCTGGATAATTTCCCTAGGCTTAACAA
CCCAAGCAAGCTTCGCATCCTCGTTTTATTTTTGGTTAACTTATGAAAATGTATTAAGAAAGAGTGCAGCTCGA
GAGAGATTACAGAGATGGAACACACCAGACCCAGATCACAAGCCAACCATGCCCAGCCCCTCCCAGCACCCCCA
GCCCCACGACCATCGTTCTGAATTCTGACGACACCGTGAGCCTGCCTTTGTACTTCAAACCTCATGGAAGGATAAC
CACCTTCATGTTTTGAAATAAATGTTTCTGTTGAAATG

3981/5332
FIGURE 3469

CCGGCGTCCCAAGTGAGTGGAGGGGGATCCCGACTCCAGTCCGGGGCCTTGGCCAGCGGAGCCGCGCTATTCCG
AAGCGGGAATCCCCTCAGAGCCCGGGCCTGTAGGGGCGGGCGTCCCGGGCACCCGGGATTGGGGCGTCTCCCG
TCGTGCACCGGGGCACCGGCGACTCACCCGGAAGGAGAAGCCGTGATCTGGCTATATGGTGGGGCGCGGGCGGTG
TCGCTGTGGGGAGCTGGTGTCTTCTCAGATGTTTCCTTCCAATGGGCTTTTGGTGTAGGATGTCGGAGAACC
GAACAGGAGGAGGTGATTACAGTGGCTGTTTCAGGACCCCGAGTGCAGAATGAGGGCTCCTGGAACCTCTTATGTG
GATTATAAGATATTCTCCATACCAACAGCAAAGCCTTTACTGCCAAGACTTCCTGTGTGCGGCGCGGCTACCGT
GAGTTCGTGTGGCTGAGAAAGCAGCTACAGAGAAATGCTGGTTTGGTGCCTGTTCCTGAACTTCCTGGGAAGTCA
ACCTTCTTCGGCACCTCAGATGAGTTCATTGAGAAGCGACGACAAGGTCTGCAGCACTTCCTTGAAAAGGTCTG
CAGAGTGTGGTTCTCCTGTGCAGACAGCCAGTTGCACCTATTCTGCAAAGCCAGCTCTCGGTGCCTGAGATAGAA
GCCTGTGTCCAGGGCCGAAGTACCATGACTGTGTCTGATGCCATTCTTCGATATGCTATGTCAAACCTGTGGCTGG
GCCCAGGAAGAGAGGCAGAGCTCTTCTACCTGGCTAAAGGAGACCAGCCTAAGAGTTGCTGCTTTCTTCCAAGA
TCGGGTAGGAGGAGCTCTCCCTCACCGCCTCCAGTGAAGAAAAGGACCATTAGAAAGTGTGGGCTCCAGTTGTT
GACTCTGAGGTTCTTCTTGGAAAGTCCCACTCTCCACCCCTCTCCTCACCATTATGCTGTGATTTTGAAGA
CCCAAAGAGGGAACCTCCACTCTTCACTGTGTGAGGAGGGCTGTGGGAGGAGATCATGCTGTGCCTTTGGACCCT
GGTCAGTTAGAAACAGTTTTTGGAAAAGTGAAGCTCTGGGTTCTGCTCTGAGATGGTCAGAGAAGATGCGGGCCAGG
AGACTTACTCAGGTGGGACTGGGCACAGGGCAGGTATGTGGGAGGCTGGGCTGCTTAGTGTCTTCTAGTCACCTC
TGCTTGGGCTGATTGACAGAGGTCAGTCATTACAGCCCCCTTATGCCTCTTCCATGGGAACAAATACTGTGCAGAT
GTTTGTAAGTTAAACATAAGACACAGGGGCTGTTGCTTTTGAACAGAACCCTATATTACTCTCCTGGGATCTGAG
TTTCTGCAGGTCATTTGTATGTAGGACCAGGAGTATCTCCTCAGGTGACCAGTTTTTGGGGACCCGTATGTGGCAA
ATTCTAAGCTGCCATATTGAACATCATCCCCTGGGAGTGGTTATGTTGTATCCCCATCTTGGCTGGCTTCAGTT
TTTGCTGTAGCCCTAGAGCACTTTGTTTGTGGGAGGCTGGCCTCTTGCCTACCTCCTTGCATGGACAGGGGGATG
AATATTTACTTTCCACCTCCTTGCTTTTCTTTCACTGATACCACTGAATGGAACTGGTGCTGTGACTCCTGCT
GCTGGGGATTTATGTCCCGAGACCTTAGCCTGGCTGAGTGGAGCCTGAGACCTGCACAACAGCTCATGGTCATGC
ATGAGAGAGAAGTGGCTGGCCACAGCCAGAGGGAACAGTAACAGCCCAGGGGCCTTTATTTGGGAAAGGCTGTC
CCGGGCTGTTACTGTCTCTTCTGGTTATAAAGCAGACATGTGGCCATCTTTTCCGCAGGGTTAGAGTGGGCTCCT
TTCTTTTTTGAATCCTTTTTCTTCTCCTTTGGTAGCAGCTCCCTGCCTCCAGGGCTTCCGCCACCAGCGTCTCTGC
TGTGTTGCGCAGTGCAGTGGGGTGCAAGGGCTTTGTTTCTGCCTGCCTGAAAGAGAGGGCTCTGGGGATGGAGAT
GAGAAACAACACGCTCTCCTTCAGACAATGAGGCATTCTGTCTCCTGCTGCCATTCTTCATCTCCACTGAGAGC
CAGAGCTGGTAGGAGCCGAGTGCCACAGGCATTCTGCATTGCTCTACTCTTAGGTTTGTGTGTGATCCTTCCC
CTCCCTGTGCGCCACTCCTCCTCCTCTGGCTATCCTACCTGTCTGTGGGCTCTTTTACTACCAGCCTATGCTG
TGGGACTGTCATGGCATTAGTTTCAGAGTGGAGGGGCTTGGCCTGAAATAAAATGCAAGTATTT

3982/5332
FIGURE 3470

GGCTGAGGGGAGGGCCGTTGGCCGGGGCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGGCCACCCGGCT
TGCTGCCCTTCTGGGCGCCACTCCCCAGGCGACCCGACGCGACGCGCCAGCAGCGCAGCACCGATTCTCTCGG
GCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCTTTACACCAGAAAAGCTGGCGGGCACTATGGGGAAAAAACAAA
CAAGAAGAAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGGAAAAAGTTCTCGACCGTCGAGT
GGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGGAAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGA
GAACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAATCAGA
GGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCAAAGAAGAAGAAAGAAGA
GTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGA
GCTCATGTTCTGATGAAATGGAAAACTCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTG
CCCACAGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAAAA
AGATGACAAGAACTAACGCTCCTGAGTACCAGCCCTGTACATCTGACTGTGGGTTTCAAGTGGGAAGGGAAGG
AGTTCTACTTGTCTTGACACCATAGAGGTGGCTTGAGAAGATGTCTTTGAAGAGCCAGTATAGTTTCTGTGCC
TGCAGCAGCCCAAGTGCTTTAAAGCCGTTTCAAGCTGTATAGTTTGCACACCCATCCCAGTGGAGGGGAAAGGGG
ATAAGTGTTCGAAGGCAACCTTTTCTGCACTTTGTGCGAAAAGCAAAGGGCCTTCTATGAAGGACAAAACCTTGC
AGAATTGGGTGTGTGGGAGAGCAAAAAAATACTGTAGATCTTCAAAGAGCATCTCCACAACCCACAGCCTTCTTC
CCAATAGTGTAACTCTGCATTTTTACAGCGTAGCATGTGTGTAGTTTTTGGCTATTACTGGTGTATTATTTGGG
GGAGGGAGGGATGGGAGGGGAGAAAGGGAGATGGGTAGCATCATTTTGATTAAACATTTGGGGCCTGATAGGGGA
AATGGTGAAGCAATGGAAAAGAACAGACAATAATGATTGCTTCTATGTCCAGAATATTTTACCTTTAAAAAAA
TGTCATTGGCACCATAAATAAGGACTGTGAGAGACTGTTTAAAGCTGTGAAAGTCTGAAACCTATAAGCCAAGG
TGTTCCCTGCCTAACTTATTGCTGTTCCACAAAAGGACTAAGCCTGTTTCATAAGTTACCAAAGTTGCCATTTTG
GAGATGGAAATTGACGAGGAGGGAAGGTCTTTTATTGGAGAGTATACAGTACAAGCAGATCATTCTGCCTTAGAG
GTGCTAATTCCCGAAATTAGAAGACCCTTTCTTTTCCAGTAACGAAGTTATAAATATCAGCTTGTTTCATCCAAGC
CACTGGCTGAGGTGTTAGGAAGAGGAAGAGGGTGGTAGAGGAGGTAAGACAGTAGGGAAAGACAAGGGCCCATGC
TCTTAGTGGGGAACCTCTTGGAGCCGTTTACTTTGAGCTTTGAACACTGAAACCATGTTGGCAGGGTTTCAGTC
ACTGACAGCACAAAGTTTCACTGAATTGATCCAAGAGTTTAGTGATTTCAAAGCCTTGGTCTCAGGAGAAGATTA
AACTTTTCATATTGGGCAGTGGTTCACTTTAAACACACACATACACACAAAAACAATTTTTTAAGAAATCCTAA
TAAGTAACATACCCAAATGCTCTGTCTTGAGTCATGAGAACCATCAGTTCTTGATATTGTCTAGACTTGCATCT
AGAGCTACGTTGTAAATTTCTTTAGGCATGTGTTAGATTTCTGTGTAACTTTGTTTAAATGTAACTTCATAC
TACATTGTGAGTTTTTGTCTTAATAAACTATAGATTTAT

3983/5332
FIGURE 3471A

GGCCGGCGGTGGCGGCGGCGAGGCCGGGACTCGGGCTTAGGGCCTGCTGTGGAGGCAGCGGCGGACGCCGAGCTA
AGCAGTTTCTCTGGAAACCCCCCTGGTAAGTGTGGAGGAGGCGGGACACTCTGACCCAAGACGAAAGGCCTGTAG
CTCCAGCCAAAGAAAATAAACCTTAGGAGGGAGAAAGGAAAAAATCCATCAGCTGTTCTGAGAACAGCCTG
CATTGGAATCTACAGAGAGGACAATAATGTGAGTGAGGAAGTGACTGTATGTGGACTGTGGAGAAAGTAAGTCA
CGTGGGCCCTTGAGGACCTGGACTGGGTAGGAACAGTTGTACTTTTCAGAGGTGAGGTGTCGAGAAAGGAAAGTG
AATGTGGTCTGGAGTGTGTCTTGGCCTTGGCTCCACAGGGTGTGCTTTCTCTGGGGCCGTCAGGGAGCTCATC
CCTTGTGTTCTGCCAGGGTGGGGTACGGGGTTTGACACTGAGGAGGGTAACCTGCTGGCTGGAGCGGCAGAGCAG
TGGCCTTGATTTGTCTTTTGGAAAGATTTAAAAACCAAAAAGCATAAACATTCTGGTCCTTCAGCAATGCTTTCT
CTGAAGAAATACTTAACGGAAGGACTTCTCCAGTTCACCATTTCTGCTGAGTTTGATTGGGGTACGGGTGGACGTG
GATACTTACCTGACCTCACAGCTTCCCCACTCCGGGAGATCATCTGGGGCCAGTTCTGCCTATACTCAGACC
CAGTTCCACAACCTGAGGAATACCTTGATGGCTATGGTATCCACCCCAAGAGCATAGACCTGGACAATTACTTC
ACTGCCCCGGCGGCTCCTCAGTCAGGTGAGGGCCCTGGACAGGTTCCAGGTGCCAACCCTGAGGTAAATGCCTGG
CTGGTTACCGAGACCCAGAGGGGTCTGTCTCTGCCAGTCAGCCCAACTCAGGCCTCGCCCTCGAGAGTTCCAGT
GGCCTCCAAGATGTGACAGGCCAGACAACGGGGTGCGAGAAAGCGAAACGGAGCAGGGATTTCGTGAAGATTTG
GAGGATTTGGGGGCTGTAGCCCCCAGTCAGTGAGACTTAACCAAGAGGACATAGATCTGATTGACATCCTT
TGGCGACAGGATATTGATCTGGGGGCTGGGCTGAGGTTTTGACTATAGTCACCGCCAGAAGGAGCAGGATGTG
GAGAAGGAGCTGCGAGATGGAGGCGAGCAGGACACCTGGGCAGGCGAGGGCGCGGAAGCTCTGGCACGGAACCTG
CTAGTGGATGGAGAGACTGGGGAGAGCTTCCCTGCACAGGTGCCTAGTGGGGAGGACCAGACGGCCCTGTCCCTG
GAAGAGTGCCTTAGGCTGCTGGAAGCCACCTGCCCTTTGGGGAGAATGCTGAGTTTCCAGCAGACATTTCCAGC
ATAACAGAAGCAGTGCCTAGTGAGAGTGAGCCCCCTGCTCTTCAAAACAACCTCTTGTCTCCTCTTCTGACCGGG
ACAGAGTCACCATTTGATTTGGAACAGCAGTGGAAGATCTCATGTCCATCATGGAATGCAGGCCATGGAAGTG
AACACATCAGCAAGTGAAATCCTGTACAGTGCCCTCCTGGAGACCCACTGAGCACCAACTACAGCCTTGCCCCC
AACACTCCCATCAATCAGAATGTGAGCCTGCATCAGGCGTCCCTGGGGGGCTGCAGCCAGGACTTCTTACTCTTC
AGCCCCGAGGTGGAAGCCTGCCTGTGGCCAGTAGCTCCACGCTGCTCCCGTTGGCCCCAGCAATTCTACCAGC
CTCAACTCCACCTTCGGCTCCACCAACCTGACAGGGCTCTTCTTTCCACCCAGCTCAATGGCACAGCCAATGAC
ACAGCAGGCCCAGAGCTGCCTGACCTTTGGGGGGTCTGTTAGATGAAGCTATGTTGGATGAGATCAGCCTTATG
GACCTGGCCATTGAAGAAGGCTTTAACCTGTGACGGCCTCCAGCTGGAGGAGGAATTTGACTCTGACTCAGGC
CTTTCTTCTAGACTCGAGCCATAGCCCTTCTTCCCTAAGCAGCTCTGAAGGCAGTTCTTCTCTTCTTCTCTCTC
TCTTCTCTTCTTCTCTGCTTCTTCTCTGCTCTTCTCTCTTCTTCTGAGGAAGGTGCGGTTGGCTACAGCTCT
GACTCTGAGACCTGGATCTGGAAGAGGCCGAGGGTGTGTGGGCTACCAGCCTGAGTATTCAGGTTCTGCCGC
ATGAGCTACCAGGATCCAGCTCAGCTCTCATGCTGCCCTACCTGGAGCACGTGGGCCACAACCACACATAACAAC
ATGGCACCCAGTGCCCTGGACTCAGCCGACCTGCCACCACCCAGTGCCCTCAAGAAAGGCAGCAAGGAGAAGCAG
GCTGACTTCTTGGACAAGCAGATGAGCCGGATGAGCACCGAGCCCGAGCCATGAAGATCCCTTCCACCAATGAC
AAAATCATCAACCTGCCTGTGGAGGAGTTCAATGAACTGCTGTCCAAATACAGTTGAGTGAAGCCCAGCTGAGC
CTCATCCGAGACATCCGGCGCCGGGGCAAGAACAAGATGGCGGCGAGAAGCTGCCGCAAGCGCAAGCTGGACACC
ATCCTGAATCTGGAGCGTGATGTGGAGGACCTGCAGCGTGACAAAGCCCGGCTGCTGCGGGAGAAAGTGGAGTTC
CTGCGCTCCCTGCGACAGATGAAGCAGAAGGTCCAGAGCCTGTACCAGGAGGTGTTTGGGCGGCTGCGAGATGAG
AACGGACGACCCTACTCGCCAGTCAGTATGCGCTCCAGTACGCGGGGACGGCAGTGTCTCTCATCCCCCGC
ACGATGGCCGACCAGCAGGCCCGGCGGCAGGAGAGGAAGCCAAAGGACCGGAGAAAGTGAGCCTGGGGAAGAAGG
GGGTTTGAAGCCCACCAAGACCGAAACTGGAGAAGGGCTGGACCTGGACCTGGACCTGGACCTACAGCGGGGACT
TAAATGCCTTCTTATCCAATATATCTTCTCAGATGGGATGACTGCGGGTCAGTGTACAGGAAGAGGCAGGCACTG
GCTGGCTCAGCTCCACTCGGGTGGAGTGGAAAGTGGCCAGACCATTTAGACGGACAGGGTCTCACCCTACCCCTT
TCTGTGAGGCAGGGGTGGTGGTGGAGTTGCTGGAGGTAGAGGAGCTATGTGGAGCAAAGGCCGACAGAGGGGAA
GGAATGGACCTGTGAGAGGAAGGGAAGGTGGCAGAAAGTCTCATTTTTCAGGAAGGAGGGATAGAAGGAAGGAAGGA
AGGAACCCCCCCCCCCCCGAAAAAAAATCAAAGCGGGAAGAAAAATCAGAGGGAAGGTTAAGGTTGGCTCTGGCC
AGGATTCCAGGCAGCAGGTTGGAGTGACTGGTGGGCTAGATCACTGGTGTGATAAACCCCAATTTTACCCCCG
GGGGGGTGGGGTACACAGACACAGGGTGGGGTGGGGAGGGACGGTGTAACTCTTTCTGCTCCTTGCAATTTGA
CATCCCTGAAGGGGAGCTCTTGATATCATTTGGCCATGTTTCAATCGAATGGAGCCACTGGGCCCCAACACTGGC

3984/5332
FIGURE 3471B

TTTGAGATTTAGAGTCAAAGGGTAGAGTGAACAGGAAAGGGTCACGTGGTCCCATGTTGCAACAGCCCCAACATC
ACGCATGTCATTCACTGCCTTGCCACTCCATCTCCCTCCGTGCTCCAGCCACCCCTGAGCTGAGGCTCCCATTTGT
CTCCATCAGAGCCTGCATGTGTATGCCGTCCTCCCTGGTCCGGTGTGTTGTGTTCCCCACCCCTCACAGACTGCC
TGAGCTCTTCTGTAAGCTGGGGTAGGGTGATGGCAGTGCTCCGGGAAGTGGGCCTGCAGCCTTCCTCTTCTGGGA
CTGCTGTGAGGCAGAGGAATGATGGAGAATCTAGTGTAGCAGCCTCCAGGCAGGATTCAGCACAACTGGGGAG
TCACCCCTCCCTCGGGCCTCTGCCTACCAACAAGTGGGCTTATCACTGGGAAAACACAAAAAATTACACAACCCA
GCAACAACAAAAGAACTAGTCCTCTTAGAATTTCTTGCCTTTGATTTTTTTAGGGCTTGTGCCCTGTTCACTT
ATAGGGTCTAGAATGCTTGTGTTGAGTAAAAAGGAGATGCCCAATATTCAAAGCTGCTAAATGTTCTCTTTGCCA
TAAAGACTCCGTGTAAGTGTGTGAACACTTGGGATTTTCTCCTCTGTCCCGAGGTCGTCGTCTGCTTTCTTTTT
TGGGTTTCTTTCTAGAAGATTGAGAAGTGCATATGACAGGCTGAGAGCACCTCCCCAAACACACAAGCTCTCAGC
CACAGGCAGCTTCTCCACAGCCCCAGCTTCGCACAGGCTCCTGGAGGGCTGCCTGGGGGAGGCAGACATGGGAGT
GCCAAGGTGGCCAGATGGTTCCAGGACTACAATGTCTTTATTTTTAACTGTTTGCCACTGCTGCCCTCACCCCTG
CCCGGCTCTGGAGTACCGTCTGCCCCAGACAAGTGGGAGTGAAATGGGGGTGGGGGGAAGCACTGATTCCCAGTT
AGGGGGTGCCTAACTGAGCAGTAGGGATAGAAGGTGTGAACCTGGGAGTGCTTTTATAAATTATTTTCCTTGTAG
ATTTTATTTTTTAATTTATCTCTGTGACCTGCCAGGGAGAGGGGAGAGAGAGAGATGCTGTTGAGCACATGACA
AAATAAAATAAAATGGATGATTC

3985/5332
FIGURE 3472

GGCGGCGAGCGGAATGCAGCGGCCCCGAGGCTGGCCACGTCCGCACCCGGGGGAGGGGGCCGCGGCGGCAGGCCGG
GGGCCGGCGCCGCCTGCTCGAGCCGGGGAGCCCTCGGGGCTGCGGTTGCAGGAACCTTCCCTCTACACCATCAAG
GCTGTTTTTCATCCTAGATAATGACGGGCGCCGGCTGCTGGCCAAGTATTATGATGACACATTCCCCTCCATGAAG
GAGCAGATGGTTTTTCGAGAAAAATGTCCTTCAACAAGACCAGCCGGACTGAGAGTGAGATTGCATTTTTTTGGGGGT
ATGACCATCGTCTACAAGAACAGCATTGACCTCTTCCTATACGTGGTGGGCTCATCCTACGAGAATGAGCTGATG
CTCATGTCTGTTCTCACCTGCCTGTTTGAGTCTCTGAACCACATGTTAAGGAAGAACGTGGAGAAGCGCTGGTTG
CTGGAGAACATGGACGGAGCCTTCTTGGTGCTGGACGAGATTGTGGATGGCGGTGTGATTCTGGAGAGTGACCCC
CAGCAAGTGATCCAGAAGGTGAATTTTAGGGCAGATGATGGCGGCTTGACTGAACAGAGTGTTGGCCAGGTTCTT
CAGTCTGCCAAGGAACAAATTAATGGTCGTTATTGAAATGAAGGCTGTGGATTCAAGGCTCCCTGCCCCCAGA
TCATTTCCCCAATCCTGGCAAAAGCCCCAAAGATCCCAGGGTCAGGAGAGACCCCTCTGTATCCCCAGGTCCCTCC
CAGAACTGACTCCTAAGGTCTCCAGCCAGGGCTTCTGAGATGCAAAGGTTTGGCCTCAGGAGAGTCACCTTTTCT
CACGGCCCTGGCCTTAATCATATCTTAGGCATTCTGGCCCCAGGGCCCTAATAAACCTGCTTTTGTCTTCTGC

3986/5332
FIGURE 3473

CTGAAGCGGAAGTGGAGGAAAGATGGAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGA
TTGGCTGGTGGACAGAAGGCCTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGC
TGCCATCCAGGACATGCCAGAGAGCGAAGAGATCGCCAGCTGCTGTCTGGGTCCTACATTCACTACTTTCACTG
CCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAATATTTTTGGCCGATACTCTTCACAGCG
GATGAAGGATTGGCAGGAGATTATAGCTCTGTATGAGAAGGACAACACCTACTTAGGTAAAGTGGCCCGGCCTGG
GAGCCCTGGTATCCATGGGGAAGCCCACTCTCAGAGTTCTGAGATACCAGGCTTATAGGAGGCACAGTCTGTGAG
TGGGAAGAGACTGGAGTGTAGATGTTGCCCATTTGTAGGTGGTAAAATCAATTGTTTTTGATGGAATTGATTTTC
CCTGAGTGGAGTGTGGGGGAAGGAGAGGTCCAGGCCGGTAGTGGCCATTGCGCGTGCCTCAGCGAGCAGGTGT
GTGTGGGTCCTCCACCACTCACCTCTTGGTTAGCGGGAGTGTGCTGCCCCACCCCCACCCCCGACCCCCATTTC
TACACAAGGCAGAAGAGGCACGGGTTTTCTGGGAGCGAATATCAAGTGCCTGAGAGCAACTACAGGACTAACTG
TGTTTTGGGTTGGGTGTAGTATAAATAATAATAATGGCTAATATTTCTGAGCATCTACTAAATGCAAGGAATTGT
GCTTGGTGTGTCAIGTGGATTCTCTCTTGCATCTTCATGATAAATGTTATTGTGCTGTTTTACCGATGAGGGTT
GGATTAGAGGGGTTAAACAACCTTGTCTTAGGCTCCACAGCTGGGAACAAGTGGGGCTGGGAAGCTGACTTCGTGC
TCTTCACCACCACAAAGGATGTGTGTGCATCCTGGGGCATGCCTGCCTCATGTGGGGGTGTCTGGGCTGAATTT
CCTGGGCACTTCTCAGTGGAACTCTCTAGCCTCCTGGTTCCGAATGTCAACTATGAGATCCCTCACTGAAGAAG
CAGATTGCCAAGTGCCAGCAGCTGCAGCAAGAATACAGCCGCAAGGAGGAGGAGTGCCAGGCAGGGGCTGCCGAG
ATGCGGGAGCAGTTCTACCACTCCTGCAAGCAGTATGGCATCACGGGCGAAAATGTCCGAGGAGAAGTGTGGCC
CTGGTGAAGGACCTGCCGAGTCAGCTGGCTGAGATTGGGGCAGCGGCTCAGCAGTCCCTGGGGGAAGCCATTGAC
GTGTACCAGGCGTCTGTGGGGTTTGTGTGTGAGAGCCCCACAGAGCAGGTGTTGCCAATGCTGCGGTTTCGTGCAG
AAGCGGGGAACTCAACGGTGTACGAGTGGAGGACAGGGACAGAGCCCTCTGTGGTGGAAACGACCCACCTCGAG
GAGCTTCCTGAGCAGGTGGCAGAAAGATGCGATTGACTGGGGCGACTTTGGGGTAGAGGCAGTGTCTGAGGGGACT
GACTCTGGCATCTCTGCCGAGGCTGTCTGGAATCGACTGGGGCATCTTCCCGGAATCAGATTCAAAGGATCCTGGA
GGTGATGGGATAGACTGGGGAGACGATGCTGTTGCTTTGCAGATCACAGTGCTGGAAGCAGGAACCCAGGCTCCA
GAAGGTGTTGCCAGGGGCCCAGATGCCCTGACACTGCTTGAATACACTGAGACCCGGAATCAGTTCTTGTATGAG
CTCATGGAGCTTGAGATCTTCTTAGCCCAGAGAGCAGTGGAGTTGAGTGAGGAGGCAGATGTCCTGTCTGTGAGC
CAGTTCCAGCTGGCTCCAGCCATCCTGCAGGGCCAGACCAAAGAGAAGATGGTTACCATGGTGTGAGTGCTGGAG
GATCTGATTGGCAAGCTTACCAGTCTTCAGCTGCAACACCTGTTTATGATCCTGGCCTCACCAAGGTATGTGGAC
CGAGTGACTGAATTCTCCAGCAAAAGCTGAAGCAGTCCCAGCTGCTGGCTTTGAAGAAAGAGCTGATGGTGCAG
AAGCAGCAGGAGGCACTTGAGGAGCAGGCGGCTCTGGAGCCTAAGCTGGACCTGCTACTGGAGAAGACCAAGGAG
CTGCAGAAGCTGATTGAAGCTGACATCTCCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG
TGACACCCTCCGTGTTCTTGCTGCCATCTTCTCCGCTTTTGGGATGAAGATGATAGCCAGGGCTGTTGTTTTG
GGGCCCTTCAAGGCAAAAGACCAGGCTGACTGGAAGATGGAAGCCACAGGAAGGAAGCGGCACCTGATGGTGAT
CTTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTGATTGGCCCTGTGGTCTACCAGGCGAAAACACAGATT
CTCCTTCTAGTTAGTATAGCGGACTTAATAAAAGAGGAAAAAAC

3987/5332
FIGURE 3474

CCGAGTCTCACCTCCCAGGCAGCTCCTACACTCAACTGCTTCTCTAGGAAAGGTCTCACCTCCAGCCTGGAGCA
GTCGGGATTACAGAAAGCCCCATCCTTGGCTTAGGGAGCGCCATGACGACTGAAATTGGTTGGTGGAAGCTGACT
TTCTCCGGAAAAAGAAATCCACTCCCAAAGTGCTGTATGAGATCCCTGACACCTATGCCCAAACAGAGGGAGAT
GCAGAACCCCGAGGCCTGACGCTGGAGGCCCAACAGCGACTTTAACACCCGCCTGGAGAAGATTGTGGACAAG
AGCACAAAGGGCAAGCACGTCAAGGTCTCCAACCTCAGGACGCTTCAAGGAGAAGAAGAAAGTGAGAGCCACGCTG
GCAGAGAACCCTAACCTCTTTGATGATCACGAGGAAGGACGGTCATCAAAGTGAAGGGCTGAGGAGGGTGCTAGC
ACCTCTTGGCTCCCTGCCATCAGCCAGATCTGAGACAGGACCTTGCCACGCTGGCCTCTTTGGCCATAGCTGAAG
CTGTGGGGCCAGTTGATACCTGCTGGCAGGAAATGGCTGTTTTTTAGGTTTGTATTTATGTGCCGCCACTTTTGT
AAGGCCTGGGAGATCCCAGGGTCCTCCACCCTCCCCCTGACCACATACAAAGGCACTCTAGTTCAAGAGTGAAAA
GTCTCACCCAGGAGGAACAGCCCTCCTTGAAGCAATGGCAGGGCCAGCAGGGAGGTGGGCATGGCAGGGAATGGA
GAGAGTGAGCCAGACAGACTTCACCTCCTTACTGGACACAGGGTCAAGGGCGAGTTTCAATTGCTGCTCCCTTTA
CTTTCTCTACCTGTGACTACTCCCTGGACCAATCCTGAGGAGGGCACATTTTCCAGAAGCCACGTGATAGGGGCT
GGTTTCTGTGGAGCCAGAGGCAGAGACACTGAACCTTGAGCTCACCTCCTAACACCGGCAGTAAACTTCCTGGAAC
TTTGCCCTCAGGTGCGGAGGGGACAGAGGACCCTGGCACTCTGTTAGGGTGCTGTAGAAGACTAGATTGATGGTA
GTTTGGCCTGTTAGTTCCTGTTTTGGCCATGACTTTTGAGATGGCAAGTCACACACCCTCAAAGGGAAGCTACA
CGGGCCAAATCGGGGGAGTGGGTGGGGAATTTTCTCCTCTCCCTTTCTACTATAATAGTATTTAAGACATATCA
GCTCCAGAGATGAGTCCTGGAGCCTTGAATTTTGTTTAACAAAATAATTGTAGGTTTCTCTGTATAAACAACG
CTGGAAGGCAGAGAACCTCTTTATGCTCATGTCTTGCATTTATTGAGATGACTGTTTCTCATGCCTTTATGTT
CCTTCATGTAAGTAAAGTGGACCTTTGTGCTC

3988/5332
FIGURE 3475

GAAGAGGGTCGGGTATCTGGGCATGCGCAGGGCCGAGGACTCTTGGTGGGGTAGCGAGGGGGACGGTCCCACGA
CTGCTCCGAAGGGCCGGGACTCCCAGTGGGGGCGGGACCCCGGAGTGCCCGCCTGCGGACTCCCAAGCCTGGAG
CCTGGGGAGAGGGTGGGCACCTCCGTTCGCGCACACCCGTCCATGGTGTGTGCGCCGAGCGTCCAGGAGCCACGG
CGGTGTCTTCCTTGCGCGTCTTTTACACGTGTGGGGGTAGGCTGCTCCTCGGGGCTGAGCCGTGGCCAGGGTTAT
GGAGAGSCCCGCTCTCCCCAGATGGCGTGTGAGCCCTGACTCCCCATGTTCTGCGACTGCTTTGTCTCCGT
GCCCCGGCCTCAGCCATCCCGGCTGTGATCTTTGCCAAGAAGTCTGGACCGACCCCGGGACGAGGTGCAGGAGGT
GGTGTGTTGTCCCCGAGGCACTCACACTCCTGGGAGCCGGCTCCAGTGCACCTACATTGAAGTGGAACAGGTGTC
GAAGACGCACGCTGTGATTCTGAGCCGTCTTCTTGCTATGGGGGGCTGAGATGGGCGCCAACGAGCATGGTGT
CTGCATTGGCAACGAGGCTGTGTGGACGAAGGAGCCAGTTGGGGAGGGGGAAGCCCTGCTGGGCATGGACCTACT
CAGGCTGGCTTTTGAACGGAGCAGCTCTGCCCAGGAGGCCTTGTCATGTGATCACAGGGTTACTGGAGCACTATGG
GCAGGGGGGCAACTGCCTGGAGGATGCTGCGCCATTCTCTACCATAGCACCTTCCTGCTGGCTGACCGCACTGA
GGCGTGGGTGCTGGAGACAGCTGGGAGGCTCTGGGCTGCACAGAGGATCCAGGAGGGGGCCCGCAACATCTCCAA
CCAGCTGAGCATTGGCACGGACATCTCGGCCCCAACCCCGGAGCTGCGGACTCATGCCAGGCCAAGGGCTGGTG
GGATGGGCAGGGTGCCCTTTGACTTTGCTCAGATCTTCTCCCTGACCCAGCAGCCTGTGCGCATGGAGGCTGCCAA
GGCCCCGCTTCCAGGCAGGGCGGGAGCTGCTGCGGCAACGGCAAGGGGGCATCACGGCAGAGGTGATGATGGGCAT
CCTCAGAGACAAGGAGAGTGGTATCTGTATGGACTCGGGAGGCTTTTCGCACCACGGCCAGCATGGTGTCTGTCT
GCCCCAGGATCCCACGCAGCCCTGCGTGCACTTTCTTACCGCCACGCCAGACCCATCCAGGTCTGTGTTCAAACC
TTTCATCTTCGGGATGGGGGTGGCCAGGCCCCCAGGTGCTGTCCCCACTTTTGGAGCACAAGACCCTGTTTCG
GACCCTGCCCCGATTCCAGACTCAGGTAGATCGTCGGCATAACCCTCTACCGTGGACACCAGGCAGCCCTGGGGCT
GATGGAGAGAGATCAGGATCGGGGGCAGCAGCTCCAGCAGAAACAGCAGGATCTGGAGCAGGAAGGCCTCGAGGC
CACACAGGGGCTGCTGGCCGGCGAGTGGGCCCCACCCCTCTGGGAGCTGGGCAGCCTCTTCCAGGCCTTCGTGAA
GAGGGAGAGCCAGGCTTATGCGTAAAGCTTCATAGCTTCTGCTGGCCTGGGGTGGACCCAGGACCCCTGGGGCCTG
GGTGCCCTGAGTGGTGGTAAAGTGGAGCAATCCCTTCACGCTCCTTGCCATGTTCTGAGCGGCCAGCTTGGCCT
TTGCCTTAATAAATGTGCTTTATTTTC

3989/5332
FIGURE 3476

GGCTTCCGTCCATTCTTCCGGTGGAGATGGCTGCGGCCGTGGCGGGGATGCTGCGAGGGGGTCTCCTGCCCCAGG
CGGGCCGGCTGCCTACCTCCAGACTGTCCGCTATGGCTCCAAGGCTGTTACCCGCCACCGTCGTGTGATGCACT
TTCAGCGGCAGAAGCTGATGGCTGTGACTGAATATATCCCCCGAAACCAGCCATCCACCCATCATGCCTGCCAT
CTCTCCCAGCCCCCACAGGAGGAGATAGGCCTCATCAGGCTTCTCCGCCGGGAGATAGCAGCAGTTTTCCAGG
ACAACCGAATGATAGCCGTCTGCCAGAATGTGGCTCTGAGTGCAGAGGACAAGCTTCTTATGCGACACCAGCTGC
GGAAACACAAGATCCTGATGAAGGTCTTCCCCAACAGGTCCTGAAGCCCTTCTTGAGGATTCCAAGTACCAA
ATCTGCTGCCCCTTTTTGTGGGGCACAACATGCTGCTGGTCAGTGAAGAGCCCAAGGTCAAGGAGATGGTACGGA
TCTTAAGGACTGTGCCATTCTGCGCTGCTAGGTGGCTGCATGATGACACCATCCTCAGCAGGCAGGGCTTTA
TCAACTACTCCAAGCTCCCCAGCCTGCCCCTGGTGCAGGGGGAGCTTGTAGGAGGCCTCACCTGCCTCACAGCCC
AGACCCACTCCCTGCTCCAGCACCAGCCCCTCCAGCTGACCACCTGTTGGACCAGTACATCAGAGAGCAACGCG
AGAAGGATTCTGTCATGTGCGCCAATGGGAAGCCAGATCCTGACACTGTTCCGGACTCGTAGCCAGCCTGTTTAG
CCAGCCCTGCGCATAAATACTCTGCGTTATTGGCTGTGCTCTCCTCAATGGGACATGTGGAAGAACTTGGGGT
CGGGGAGTGTGTTTGTCACTTGGTTTTTCACTAGTAATGATATTGTCAGGTATAGGGCCACTTGGAGATGCAGAGG
ATTCCATTTTCAGATGTCAGTCACCGGCTTCGTCTTAGTTTTTCCCAACTTGGGACGTGATAGGAGCAAAGTCTCT
CCATTCTCCAGGTCCAAGGCAGAGATCCTGAAAAGATAGGGCTATTGTCCCCTGCCTCCTTGGTCACTGCCTCTT
GCTGCACGGGCTCCTGAGCCCAACCCCTTGGGGCACAACCTGCCACTGCCACAGTAGCTCAACCAAGCAGTTGTG
CTGAGAATGGCACCTGGTGAGAGCCTGCTGTGTGCCAGGCTTTGTGCTGAGTGCTGTACATGTATTAGTTCCTT
ACTGCTGACCACATTGTACCCATTTACAGAGAAGGAGCAGAGAAATTAAGTGGCTTGCTCAAGGTCATGCAGTT
AGTAAGTGGCAGAACAGGGACTTGAACCAAGCCCTCTGCTCTGAAGACCGCGTCCTGAATTTCTTCACTAGAGCT
TCCTCATCAGGTTACCCAGAAGTGGGTCCCATCCACCATCCAGGTGTGCTTGGATGTTAGTTCTCCACCCTCGAG
GTGTACGCTGTGAAAAGTTTGGGAGCACTGCTTTATAATAAAATGAAATATATTCTACTTCCTT

3990/5332
FIGURE 3477A

GAGAGAAGTACACACGCACCCCTCACTGCCTACTCCTGCTTTTCGGGAGCCTGAGTCATTCTGCCCCCTCGTAG
GGTTCCCCATTTCCCGGTGCGCGGCACCCCTGAGACAGCCTTGGGAATTTCGTTTCGCGTCCCCTTCCACCTGGGTG
CCCTTCCCCAGTTTTCGCCCCGTAACTCACTCAGCCAAGGACTTCTGTGGGTCCCAGGTCAGGGGCCAAGGGGTCC
TGGACCGCTGCCACAGCCCCGTGCGCCCGGGGAGGCGCTTCTTTTCTGAACTCTGGGATCCTGCGGGAGGA
AGTGGGGAAGTTGGGCGGGGTGCGCCGAGGGCGTGCCGACTGTGGAGGGGCGACCCCTCGCGCAGCTCTGGGC
CTTCTTGGGGAGGAGCTGGGGTGCCAGAGGCCAGGCTGAGGAGCTTGGCGGCGAGGTATTTGGGGAAGTAAGG
CCTGGGGTGGAGAAGCGCGGAGGAATGGGCCGGGCCCCGGCTGGGAAGGCAGCCCTCTCCCATCCACAGGTCTCCC
TGGGTTCTGGCAGGAGCCTGCCCTGCTGCCGGCCTGGCTTACTTGTCCCTACTTGTCAACACCCCTGGCAGCGGG
GTCTTCACTGGTTCCAGCCCCCTTTTCCCCAAGGCGGCAGAGAGGATGGGGCTGAGGAGTCTGGGAAGGGGCCAT
GGGAGTCCCTGCTGAGCTCGGGGCAGGAAGTTTCTGGGTTGCATCTTAGCCGGCCCCAGGGAGTGCAGAGCCAGG
GAGAGGGGTACAGGGACAAACCCTAGACAGACGGCCCTGTCCACGGTTGCTCCTGCTCTCCTAGGAGGCCCCGT
GTGGGCCCGGGCCCCGGCCCTCACCATGGAGTCCATGTTTCGAGGACGACATCAGCATCCTGACGCAGGAGGCCCTG
GGGCTAGTGAGGTGTGGCTGGACAGTCCCGAGACCCCTCGCTTGGGGGCGACATGTGCTCCGCTCCCACTTT
GCCCTCATCACTGCTTACGGAGACATCAAGGAACGGCTGGGGGGCCTGGAGAGGGAGAACGCCACCCCTCCGACGC
CGCCTCAAAGTCTACGAGATCAAGTACCCACTGATCAGTGACTTTGGAGAGGAGCATGGCTTTTCTCTGTATGAA
ATCAAGGATGGCTCCCTGCTGGAGGTGGAGAAGTTCAGCCTGCAGCAACGGCTCAACCAGTTCAGCATGAGTTA
CAGAAGAACAAGGAGCAGGAAGAACAGCTTGGAGAGATGATCCAGGCCCTACGAGAACTCTGCGTGGAGAAGAGT
GACTTGGAGACAGAGCTGAGGGAGATGAGGGCCCTGGTGGAGACGCACCTGCGTCAGATCTGTGGTTTGGAGCAG
CAGCTGCGGCAACAGCAAGGCCTCCAGGATGCAGCCTTCTCCAACCTGAGCCCACCGCCAGCCCCCGCCCTCCC
TGCACTGATTTAGACCTGCACTACCTGGCACTGAGAGGGGGATCTGGCTTGAGTCATGCAGGCTGGCCGGGGCTCC
ACACCCAGTGTGAGTGACCTGGAGCGCGCGCGCTAGAAGAGGCTTTGGAGGCCGCGCAGGGAGAGGCCCGGGG
GCTCAGCTCCGGGAGGAGCAGCTCCAGGCCGAGTGCAGAGCGGCTGCAGGGGGAGCTGAAGCAGCTGCAGGAGACC
CGGGCCCAGGATCTGGCCTCCAACAGTTCGGAGCGAGACATGGCGTGGGTGAAAAGAGTTGGGGATGATCAGGTG
AATTTGGCGCTGGCCTACACCGAGCTGACGGAGGAGCTGGGCCGGCTTCGGGAGTTGAGTTCCCTACAGGGGAGA
ATCTTGAGGACTCTGTTGCAGGAACAGGCCGGAGTGGCGGCCAGAGGCACTCGCCGCTGTCAACGCCACTCC
CCGGCCCCCAGTGCCCCCTCCCCCTCCCCGCTGCCGAGCGGCTCCCCCGTGCCCCCGTGCCAGTCCCCCGTC
CCCCAGCGCCGCTCTCCCGTGCCCCCGTGCCCCCTCGCCGAGCAGCGCCGCTCTCCGGCCTCACCCCTCCTGCCCG
TCGCCCCGTCCCGCAGCGCCGCTCGCCGCTGCCCGCTCGTGCCAGTCCCCAGCCCGCAGCGCCGTTCGCCGGTG
CCCCCAGCTGCCCCGGCCCCGAGCCCCGGCCACCGCCGCGCCCCCGCGGGCGAGAGGACGCTGGCCGAGCGC
GCCTACGCCAAGCCGCCAGCCACCAGTGAAGGCCGGCTTCCAGGGCCGCCGAGCTACTCTGAGCTGGCCGAG
GGCGCGGCTACGCGGGCGCCTCCCCGCCCTGGCTGCAGGCCGAAGCGGCCACTCTCCCCAAGCCCCGGGCCTAC
GGCAGCGAGCTCTACGGCCCTGGCAGGCCCTCAGCCCGCGGCGCGCCTTCGAGGGCATCCGGCTGCGCTTCGAG
AAGCAGCCGTCCGAGGAGGACGAGTGGGCTGTGCCACCAAGCCCGCCAGCCCGGAGGTGGGCACCATCCGCTGC
GCCTCCTTCTGCGCGGGCTTCCCCATCCCCGAGTCCCGCGCGCCACCGCCTACGCCACGCCGAGCAGCGCGAG
TCCTGGCCGTCCATCAACTTGCTGATGGAGACGGTGGGCTCCGACATCCGCAGCTGCCCCCTCTGCCAGCTGGGT
TTCCCTGTGGGTACCCGGATGATGCCCTCATCAACACATTGACTCCACCTGGAGAACAGCAAGATCTAGGGC
ACCAGCCCCACCCACTGGCTGTTTCTCCGTCTCTCTATCACCCCCAACACTCACTTTGAATGCTGCATGAAT
CTCGTGGGGGGTCCCTGCCCTTGGCAGCCCCAGATACCTCCACTTGCTACCGAGTCAACGTGTGTGCCATCTTCC
CTGGTCCAGGCACCACTCAGCTCAGCTCTGGCTCTTCTGGGAGGTCAGCCGAGGCTCCCCCATGCTCCTGGTTTCTGC
TTAGGAGGTGGGACTTGGGCTGGGATGGGGACGGCATACCCCTCCAGGCCTCTCCCTCTGCCCTTCTGTCTT
AATCAGGGTTGGATCCAAGAAGGTGTCCAGTGCTTGGGCTGGGGTGGGGGAAGGTGTTAGAGGACTCCAGGAG
CTCCTGCACCCCTCCCCAAATGTCCATCTTTCTCAGACGGGGCTCTGTCTGGGGAGCACCCACAGGCTGCCCTTG
GGGTCCAGAGCCTGCTCTGTGCACTGACCCAGTTCCTCCATCCTGTGGCCAGCCTAGGGCTCATGGCATGGGC
CCCCACTGGGGGAGGGAGGCATCTTGTTTCTTGTGGTTCCCTGCAGGCCAGTCTGTCTCCTTTCCCTGTTCTG
CCCACTCTGGGGAATAGGGAGGGGAGGAGAGGAGAGGAGAGGAGGATCCTGGAGGACTGGGAAGATCTAGCCTA
AAGAGGCTTCTCTGAGGGCCAGGGCCCTACAGCATGCCCTACGGCCAGGGGACTGTCTGCCAGCCTCCAGGCC
CATGCCCTCCTGGTGCCCTGGCACTGAGGCACAGATCGTCAAGGCAGGTACCCCTCAACCCTTCTTCCACTGG
AGCCCTGACACCACAGGTGCCCTGGAGCCCTTGTGTGACTCAGCCTCTGTAGCTGGGTGGGTGTCATCAGCCC

3991/5332
FIGURE 3477B

CTGCCTCCCAGGCCAGAACCTGAGAACGGGCCCAGGGTGCTGTGGAGATCAACTTCAAAAGAGCTAACCCCTTCC
CACACTCCACCCACCCACCTACATTTCTCTGTGAAATCTACCTCAGAGTTGTACCCTCAGAAGGACGGGTAAGC
AGGAGGCCAGGGGGTCCCCAGGGCTGAGGTGGGGAGCCTTCTACGGCGAAAGCCTGCCACCCACAAATGAATCCA
CCCTGCTCCACTGCGCGCCTCTCCCAGGTCTCAGCTCTGGGTGGGGAGCAGTGGCCGCTACCGACAGCGCATGTC
CCGCTCTTATCCAACCTCTTCCAGGCCCCACCTCCCTGCACCCCTCCCTCTATAGAGCAGGGGAGTGAAGGGGTA
TGTCAGGCGGGGAAGGGGCCAAGGACACGTCATTGTACCCTGAGCGTCCCCAGGGAGTGGAAATGGGGAAGGGG
CCTGGAGAGGGGAGGCAGGGGCCCTGTGCTCTCTGAACAAGTTGAAAGTCCAAATAAACTTACCTGTTC

3992/5332
FIGURE 3478A

CTCCCTCGCTCCCTCCCTGCGCGCCGCTCTCACTCACAGCCTCCCTTCCTTCTTTCTCCCTCCGCTCCCGAGC
ACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCATTGAGGGGAGGAAGTAAGGGA
AGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTTTGTGGTGACCCCCGCCCCC
ACCCACCCCTCCCTTCCCACCCGACCCCCAACCCCATCCCCAGTTCGAGCCGCCGCCGAAAGGCCGGGCCGTC
GTCTTAGGAGGAGTCCGCCGCCGCCACCTCCGCCATCGAGCTGATCACCATTCTCGAGAAGACCGTGTCTCCC
GATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGAACCTGCCACTTTCCTTGTG
GAACTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAGCTGGTCTACAAATCAAGAAC
TCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTGCTATTGATGCTAATGCTCGA
CGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAACTTACCGCCCTAGTTCTGCCTCACAGTGTGTG
GCTGGTATTGCTTGTGCAGAGATCCCAGTAAACAGTGGCCAGAACTCATTCTCAGCTGGTGGCCAATGTCACA
AACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATATTTGCCAAGATATAGACCCA
GAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGAGGAAAGAAGAGCCTAGTAAT
AATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAGCAAACCTTTGATAAAGAGTCT
GAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGAGGGTACGAGTGGCTGCTTTA
CAGAATCTGGTGAAGATAATGTCTTATATTATCAGTACATGGAGACATATATGGGTCTGCTCTTTTGTCAATC
ACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAATTCTGGTCCAATGTCTGTGAT
GAGGAAATGGATTGCGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCCCTGAGCACACCAGCAAGTTT
TATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTAAACAGGACGAAAATGATGAT
GACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCACCTGCTGTGAAGATGACATT
GTCCACATGTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGTACCGGGATGCAGCAGTGATG
GCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTATACAGGCTATGCCACCCTA
ATAGAATTAATGAAAGACCCAGTGATGTTGTTCCAGATACAGCTGCATGGACTGTAGGCAGAAATTTGTGAGCTG
CTTCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCTGTCTACAGTGTCTGATTGAGGGTCTCAGTGTGAA
CCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTTATGAAGCTGCAGACGTTGCT
GATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCAATTTGAACTCATAGTTTCAAGCTCCTAGAGACT
ACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCGTCATATGAATCTCTGATGGAAATTGTGAAAAAC
AGTGCCAAGGATTGTTATCTGTGTCCAGAAAACGACTTTGGTCATCATGGAACGACTGCAACAGGTTCTTCAG
ATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGTCTTTACTCTGTGCAACTCTT
CAGAATGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGGTTATGGCCTCCCTGTTAAGG
ATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAGTTAGCACACTGGTGGAAAGTG
TTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCTGGGCATTGGATTAAAAAATTATGCTGAA
TACCAGGTTTGTGTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGCAATCCAACATCATACCTTTC
TGTGACGAGGTGATGCAGCTGCTTCTGGAATAATTTGGGGAATGAGAACGTCACAGGTCTGTGAAGCCGCAGATT
CTGTCAGTGTTTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACTTAGAGGTTGTATTGAATACT
CTTCAGCAGGCCTCCCAAGCCAGGTGGACAAGTCAGACTATGACATGGTGGATTATCTGAATGAGCTAAGGGAA
AGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGAACGTACACCCGGATGTGATG
CTGGTACAACCCAGAGTAGAATTTATCTGTCTTTCAATTGACCACATTGCTGGAGATGAGGATCACACAGATGGA
GTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGGAAGGATGTACTGAAATTAGTAGAA
GCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACAAAGCAAAAACCTTGCTACA
TGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTGGGATGATAACCTGAGGACCC
CCACTGGAATCTCCCATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGATGCTGAATGTTTGGGAATGAG
AGGATGAGTGAGTGAGGCTTGAACACACACCACATTGAAAATCCTGCCACAGCAGCAGCCGAGCCGCCAACAGC
AGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGCCATCTTGGAAAAGAGAAAAA
CAATGGAGTTACTTATTTAAAAAAGAAAGAAAGTTATCTCTCCAGGAGAGGCTAGAAGTAGCTTTTCTGT
CTTTTGGCCAGTGCCGAGTGGAATGCCTGGTTTGGGGGAGGAGGAGGACTGGGTTCACTGTGGTGTCTTGTG
TAAAGGCAGCCTGGCCTTTGCTACTGAGGAGAAAAGATGGAGCCTGGGTCTCAAGCCACCTTCGCTGTACCTTT
GCCACATGGTACTGTATGCTTGCCAGCTAGAAGGAGGGTCAGGGATTTTTTACAGTCTGAGAATGAGTGTGTGTG
AGTGAGGCGGTATCCACATTTCAACTTCAAGTCATTGCAGTTTCTTTTCCAGAAAACAAGGGGTTAGATGTT

3993/5332
FIGURE 3478B

GCATTTTCATAAACTAACCGAAGTTTGTGTTTACTGATGCAGCACAAAGAGATGTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAACACACACACAGAGGAAAGACGCTCTTTAGGTTTTGTTTTGTTTTTTTTTTTTTGGTTTTGTTTTTGT
TTTTTTACTCTAGGGAAAACACTGACGAATGGTCAGAGCTCCTATCCTGATCTTTTCATCAAGGCGCCTTTCCTA
ATAATATGGTTCAACTGTGAATGTAGAAGTGGGGGGGAGGGGGGAGAAAAAGAAAACCTCTGGCGTTAGAGGATAT
AGAAAAATATAAGTACAATTGTTACAAATAACGCAGACTTCAAAAACAAAAAATCACAACCCAAACAAACCAA
ATTTAAATGATCAGAATTGGCAGCACAAAGAAAACGCCCTCTCCTGACTTGTATTGTGGCAGTCTGAACGCCCC
AGAAAATTGTGCCAAAGAGTTTAGAAAAATAAATATACAATAAAAGTAAACACATACACACAAAACAGCAAACCT
CAGGTAACATTTTTGGATTGCAACAGGATAAATTAAATGTTCAAACAATCTGATAAAATAACCATTTGG

3994/5332
FIGURE 3479

GGGGGGGTCCCTTCCGATCCTCCCTCCTGACGCCCCCCCCAGCAGCCCCCTCCCCACCATTGAAAGCCATGAAT
TTTGAATTTGAGAGGGAGATTGGGTTTATAAACAGCCAGCCGTCGCTCGCCGAGTGTCTGACTTCCTTCCCCGCT
GTCTTGGAGACATTTCAAACCTTCATCAATCAAGGAGTCGACATTAATTCCTCCTCCTCCTCTTTCGAGCAAACC
TTCCCCAGCCTCCAGCCCCGGCGCCTCCACCCTTCAGAGACCCAGGAGCCAAAAGCGAGCCGAAGATGGGCCTGTG
CTGCCGCCGCCACCGCCGCCGCCACTCCCCGCTGCCCCCCCGGCCCCGAGTTCCCTTGGATGAAAGAGAAGAAA
TCCGCCAAGAAACCCAGCCAATCCGCCACGTCTCCTTCTCCGGCCGCTCCGCCGTTCCGGCCTCCGGGGTCGGA
TCGCCTGCAGATGGCCTGGGACTGCCGGAGGCTGGTGGCGGCGGGGCGCGCAGGCTGCGCACGGCTTACACCAAC
ACGCAGCTGCTGGAACCTGGAGAAGGAATTCACCTTTAATAAGTACCTGTGCCGGCCACGCCGCGCTCGAGATCGCG
GCCTTGCTGGACCTCACCGAAAGGCAGGTCAAAGTCTGGTTTCAGAACCGGCGCATGAAGCACAAAGCGGCAGACG
CAGCACCGAGAGCCGCCGGATGGGGAGCCTGCCTGCCCGGGAGCCCTGGAGGACATCTGCGACCCTGCCGAGGAA
CCCGCGGCCAGCCCCGGGCGGCCCTCCGCCTCGCGGGCGGCGTGGAAGCCTGCTGTCAACCGCCGGAGGTGGTG
CCGGGGGCCTTAAGCGCGGACCCCCGGCCTTTAGCCGTTTCGCTTAGAGGGCGCAGGCGCGCTCGAGTCCCGGCTGC
GCGCTGCGCGGGGCCGGCGGGGCTGGAGCCCCGGGCCATTGCCAGAAGACGTCTTCTCGGGGCGCCAGGATTACCT
TTCTTCCCGACCTCAACTTCTTCGCGGCCGACTCTGTCTCCAGCTATCCGAGGCTCTCCCCTAGCCTACAG
GGTTCTCTCGACAGCCCGGTCCTCTTTTCCGAGGAAGAGCTGGATTTTTACCAGGACTACGCTCTGTGCCATCGAC
CTGCAGTTTCCCTTAACCTGTTTCTCCTCCTCCGGTCTTTTCGACCCCGCGCTCCTTGCCGCTCTACTGGAATAAT
CGAGCCTCTCCCAACCTCAGTCGCATAGACTTATGTGTTTTGCTAAAATTCAGGTATTACTGAATTAGCGTTTTAA
TGACCTTCTCTTCTTCTTCTTCTAAAATATTGGGCACTCGGTTATCTTTTAAAATTCACACAGAAAATTCGGTT
TGGTAGACTCCTTCCAATGAAATCTCAGGAATAATTAACTCTAGGGGGACTTTCTTAAAATAACTAGAGGGAC
CTATTTTCTCTTTTTTATGTTTTAGACTGTAGATTATTTATTAAATTCCTTTAATAATAGGAAAAGGGGAAAGT
ATTTATTGTAC

3995/5332
FIGURE 3480

CATTGAATCGGCCCTAACGATTCTCGGATCGTCATTATTTGTAACCATAGAGCATGAATTACCTCTTGAGGTCAT
CAGCGAGAATTTACGACTGGTCAACAAAAGCACGTGATTCCCTAACGCCCCCCCCACCCCCCTTCCAACCCCCCCC
CCCATATTTGGCCGCATACATAGCAAAACGAAGTACAGTGCATCGCTATAATTCATTAATACATCATAAATCGTG
AAGCACAGGGTTATAACGACCACGATCCACAAATCAAGCCCTCCAAAATCACCCAAATGAGCTCGTACTTTGTAA
ACTCCTTCTCGGGCGTTATCCAAATGGCCCGGACTATCAGTTGCTAAATTATGGCAGTGGCAGCTCTCTGAGCG
GCTCTTACAGGGATCCCGCTGCCATGCACACCGGCTCTTACGGCTACAATTACAATGGGATGGACCTCAGCGTCA
ACCGCTCCTCGGCTCCTCCAGCCACTTTGGGGCGGTGGGCGAGAGCTCGCGCGCCTTCCCCGCGCCCGCCAGG
AGCCCCGCTTCAGGCAAGCGGCTTCGAGCTGCTCCCTGTCTCGCCCGAGTCCCTGCCCTGCACCAACGGCGACA
GCCACGGCGCCAAGCCCTCTGCTTCGTCCCCCTCCGACCAGGCGACCTCAGCCAGCTCCAGCGCCAATTTACCG
AAATAGACGAGGCCAGCGCTCCTCGGAGCCTGAGGAAGCGGCAAGCCAGCTAAGCAGCCCCAGCCTAGCTCGGG
CGCAGCCAGAGCCCATGGCCACCTCCACAGCCGCGCCCGAGGGGCGAGCTCCGCAGATATTTCCCTGGATGAGGA
AGCTTCACATCAGCCATGATATGACCGGGCCGGACGGGAAAAGGGCCCGGACCGCGTATACCCGCTACCAGACCC
TGGAGCTGGAAGAGGAGTTCACTTCAACCGCTACCTGACCCGGCGACGGCGCATCGAGATCGCCACGCACTCT
GCCTGTCCGAGCGCCAGATCAAGATCTGGTTCCAGAACCGCGCATGAAGTGAAGAAGGACAACAAATTGAAAA
GTATGAGCCTGGCTACAGCTGGCAGCGCCTTCCAGCCCTGAGCCCGCCAGAGGAGCCAGCGGCCCAAGAGCCC
GTGCCACCCCCAGCCCTGGCCCTCCAATCCTCCCCGCTCTGCCGCGCCCGCTGGGGACCGGTTCCCAAGCC
TGCCTCGCCTTGTGTTACGATATTTGTTTATCTTAGGTCTTCCCTGTGGCTCCCTCTCTCCTGGACTGGTTATC
TTGTTATTATTGTTAATAATAATAATTATTATTATTTTCTTCCATGCTCCCACTCCCTTCTGCTTGTCCCAA
TCCGCCAGTGTCTGAATGTTTGTGTCTGTGGTTGCAGTCTTTCCCCAGGAAAAAAAAAAAAAGAAATTCGCA
TGTTTAAATGTGAATCTCCCTCCCCATCTGTGTTCTAACTTATTTATAAAAAGATGATCGCTGTATTTTGAGTT
TCAGCTGGAACTTCTGTAAGGGGAGCAGTTGAGGTGGGGTAGTGCCGAGTGGGGTCAAGCTGAGCTGGCTTC
GGAGATGGAGTCCCTTTTATTCTCCTCCTCCTCCTCCTCACTCCCTAGGCCCAAGTCTCCTAGGGGCTTGGTC
CTAGGGTGGGAAGGGGCTAGGGAGGACCAAGGGATGGTATTGAGAAGAGAGAAAGAGATAGTGAGATTTAAGT
TCCTGCTGCCTGGGTAGGCCCCACAAGGCCTGGTCTGGGAGTATACGAAACAAAAATGATCCTCAGTGCAAAAT
GTCTTGTGTATTTCTCTGTGAATCCATGGGTCTGGCTAGAGGGGCCAAAGCTTGTAATATGGGGATAGTCTGGG
TCAGACCCATCTCTCCCTTACCCATCTTGCTTCCAAGACCATTTGTAGTGAGCGAGTGGATGCTGTGCTACGTGT
GAAATCTGTCTTTGCGGGGCTGTCTCAGTGATTGCTTTTGGTATTTGTTTGTAGCTTTCCTGGAAGTCAAATA
AATGTTTCCCCACTCC

3996/5332
FIGURE 3481

CACCACACCTAGGTCGGAGCACTGTCGTCCTTCAGGGCTCCAGCCTCTTGATATTTTGTACTTCAGTATCAGCT
CGATAGAGCAAAAGAGAGAGAGGACGAGAGGGGGGTGAGGAGAAAAGAGAGAGAGCGCGAGAGGGAGAGGGAG
AGAAGGAGGGGTGGGAATTACACAAAGAGAGAACCAAAAATAATTTTGATTCTTAAGTTAATTTGCTCACTGATC
TGGGATTTTAGTCACCATGGAGGGTAAATGGACAATCTGCCAGGACTGCAGCCCGATACTATTTTTCAAAGCCA
GAACTTACTCCATTTTCTATGCAATGTGAGAAAATGAAACACCTCTCTCCCAAGTCAGAGAAGGGGAAGCAA
CGGCTCTCACGTTGGGACAATATTATCTGGAAGCTGAAGAAGAACTGAATACTCCTTCCTTCCCTCCCAACCCAT
TCCTTTAAATCCGGAGGGGGGAAAAATCCCAAGGTCTGCAAGCTAAAACCCCAATCTCGGATATACTACTAATAG
GCGCGGCGCTCGGACTATAAAACACAACAAATCATAAACCCGGCGGAGCAGCAGCGGCCGCGCGCCTCCCTC
CCAATGAGTTCTTATTTCTGTAACCTCCACCTTCCCCGTCACCTCTGGCCAGCGGGCAGGAGTCTTCTGGGCCAG
CTACCGCTCTATTCTGTCGGGCTATGCGGACCCGCTGAGACATTACCCCGCGCCCTACGGGCCAGGGCCGGGCCAG
GACAAGGGCTTTGCCACTTCTCTCTATTACCCGCGCGCGGGCGGTGGCTACGGCCGAGCGGCGCCCTGCGACTAC
GGGCGGCGCGCGGCTTCTACCGCGAGAAAGAGTCGGCCTGCGCACTCTCCGGCGCCGACGAGCAGCCCCCGTTT
CAGCCCGAGCCGCGGAAGTCGGACTGCGCGCAGGACAAGAGCGTGTTCGGCGAGACAGAAGAGCAGAAGTGCTCC
ACTCCGGTCTACCCGTGGATGCAGCGGATGAATTCGTGCAACAGTGAGTGAGACTTCCCGTCGCCGTCGCCCGG
CTCCCTTGGGCGCCACCCCGGGACACAGAAGTAGTGAGCGCCCCCTGCCCAATCTCCACAGGGTGCTGGGTG
GGCATCTCAGTTAGGAGATAGAAGAAGATTGGGCGCCGGCCGGGGGTCTCTCGCTGTGTCCCTATTAGGCAGGA
GTTACAAAGTTTGCAAGTCCAGCCGCACTGGGAGCCATGGGGAGCAAGTGCTCTCTGGGGCGCCTGGCCA
GAGCCGGGGTTCCAGGACAGGGAAGGGAGCAGGAGCCTGCAGTCACTGGCTTGGCTTACTTTGAGCCCCCAACC
CCCCCTCTCCAGCCCTGGTAGGGTTCCCAACCAAGACGGCTCCATTAAAAACGGAGTGCCTCATGCAAGGGGG
TAGGGGGTGACGCTGAAGAGGAAGAGTTGAGTCTGTCTGGGACTGTGTTTCCCTGTGGGTGGGGAGCTGGGGCAA
GATGAGGCCACAGGAAGGGGTGGTAGTCAGAGGAGGGAGGAGGAATAAGGGGAAGGAAGAGAGAGGGAGCAGGC
GGAGCGAGAGAGGGGAGAAACAGGCGCGGGGTCTCAGGTTGGATTATTTGTTGGCCTTAAGTCCCAACTGATGTCC
ATTAGCCGGACTCGAAAGTGAGGAGCCGTTAATGTGGACTATGGATCGATCTACGTCATTACGGATTAACGGCCT
GGATTTATCATTGGGTTGGGGGGATGACGGGGGTGGGAACAAGATGGATGGAAAGGGAGGGAAAGACAAGATGC
AACTAGGAAGAGACACACCTGACCAGCCCCCTCCCCCAGGCTCAGGTGGGAGTTCAAAGTCTCTCTCCCTCCCC
CATCTAGAGTCTAGACAGACGGCACAGGCCTAGGAGACTAGGAGGGAATCTGGAGGGGGCGCTGGAGGAGTGCGA
AACGGGGGAAGGGAGCCGGCAGAATAGAGGGCATCCCGGTACTGGCTGGAGTCTGTGTTGAGGGTGCAGTAGGG
GAGGGGGTCTGGGCCCGGTGACCGCAGGCCTCAGCATCTCCACTCTGCGTAACAGGTTCCTCCTTTGGGCCAG
CGGCCGGCGAGGCCGCCAGACATACACGTTACAGACGCTGGAGCTGGAGAAGGAGTTTCACTACAATCGCTA
CCTGACGCGGCGGCGGCGCATCGAGATCGCGCACGCCCTGTGCTGACGGAGAGGCAGATCAAGATATGGTTCCA
GAACCGACGCATGAAGTGGAAGGAGGAGCAAACTGCTCAGCGCGTCTCAGCTCAGTGCCGAGGAGGAGGAAGA
AAAAACAGGCCGAGTGAAGGTGCTGGAAGGGGAGGGAGGACGCGAGGGGAAGGCCGTGTTGGGAGCCACGGGCGTC
AGAGAGACCCGGGAAGGAAGGCTCTCGGGTGGGGGAGCCAGGAGACCTGCTCTCCGGCGCAGACAGGCGGGGCC
AGCGCTCTCCTGGACGCCCCCGCCGACAGCTCCCGGCGGGTGTCTGAGGCCTCACTACTCGAGCCCACCCAG
CATCCCGCGCGCCCTTCTTCCCGAGGAAGTCCGCTCAGCCTGATCAGGCTTCTTGGTGAGAACTGAGGAGCGGA
CTCACTTGATGTTTCTTGAAGCAGAGCAAAATGCTCTTGCCCTGTGCGTCTCATTTTGTCATGTCCCCCGT
GCACGGTTCAATGGTAGATTGCTGTCCCTCAGCGGGGGCCTTGAAGACTCCCTGATCCAGACCTGTCTGCTC
TCCCACCCCTCCCCAAAGCCACTGGAAGGAGCACATACTACCTAGAAGTAAGAAGAGGAGCCTCAGAAGAAAAC
AAAGTTCTATTTTATTAATTTTCTATGTGTTGTGTTGTAGTCTTGTCTTAGCTCTGGACGTGAAATACTTCGAT
GATGATGATGATGATGATGATAATAATAATAATAACAACAACAACAATAATAAGATGTGAAAAC
CGA

3997/5332
FIGURE 3482

CTTTTGGTGTAATCTGGACTCTAATTCTGTAATATATCAAGGAATCTCGTAAAACCGACACTAAAACGTCCCT
GCCTACAAATCATCCGGCCAAATTATGAGTTCATTGTATTATGCGAATGCTTTATTTTCTAAATATCCAGCCTCA
AGTTCGGTTTTTCGCTACCGGAGCCTTCCCAGAACAACTTCTTGTCGTTTGCTTCCAACCECCAGCGCCCGGGC
TATGGAGCGGGTTTCGGGCGCTTCCTTCGCCGCCCTCGATGCAGGGCTTGTAACCCGGCGGGGGGGGCATGGCGGGC
CAGAGCGCGGCCGGCGTCTACGCGGCCGGCTATGGGCTCGAGCCGAGTTCCTTCAACATGCACTGCGCGCCCTTT
GAGCAGAACCTCTCCGGGTGTGTCCCGGCGACTCCGCCAAGGCGGGCGGCCAAGGAGCAGAGGGACTCGGAC
TTGGCGGCCGAGAGTAACTTCCGGATCTACCCCTGGATGCGAAGCTCAGGAACTGACCGCAAACGAGGCCGCCAG
ACCTACACCCGCTACCAGACCCTGGAGCTGGAGAAAGAATTTCACTACAATCGCTACCTGACGCGCGCGCGCGC
ATCGAGATCGCGCACACGCTCTGCCTCACGGAAAGACAGATCAAGATTTGGTTTTCAGAACCGGCGCATGAAGTGG
AAAAAGGAGAACAAGACCGCGGGCCCGGGGACCACCGGCCAAGACAGGGCTGAAGCAGAGGAGGAAGAGGAAGAG
TGAGGGATGGAGAAAGGGCAGAGGAAGAGACATGAGAAAGGAGAGGAAGAGAAGCCCAGCTCTGGGAAGTGAAT
CAGGAACTCAAATCGAATAGGGAAGTAAAAAACAAAAACAAAAAACAAAAAACAAAAAACCCCTATTTA
AATGAAAGGAGTTTAAAAACATTTTTTAAGGAGGGAGAAAGGAGAAATTTGGTTTTTCAACACTGAAAAATAC
TACCTATAGGAAAGTCTGTGAGGTTTGGTTTTTTTGTACAATATGAAAAGGATATTATCTACCTGTTCTGTAGCT
TTCTGGAATTTACCTCCCTTTTCTATGTTGCTATTGTAAGGTCTTTGTAAAATCTTGCAAGTTTTGTAGCCCTC
TTAATGCTGTCTTTGTGGACTGTGGGTCTGGACTAACCTGTGGTTGCCTGCCCTCCTGAGCCTCCGCCTTCCC
AGCAGCGGCACCAAGGGGCCTTAGGGAGCCCCAAAACCTACCACTCGCGTGTTCCCAAGCGCCTGGCTGCTGCT
TCTTGCTTCCCGTCCCCCAGCCCCATGCTCCCTTTTACATTCTGTGTGTATCTAAAGGATGGAAAAATAAAACGC
AATTAATAAT

3998/5332
FIGURE 3483

CCGGTCCGGGTGCCACCTCTCCCTGCTTGGGCGCCGCCGCGCGAGCGCTTCCCTTCCCCCTGCAAGCGCCCGGAT
AATGTCTGAGAATGTCATTCTGGGACGCTTAGCAGCTATTATGTCGACTCGATCATAAGTCACGAGAGTGAGG
ACGCGCCTCCAGCCAAGTTTCTTCTGGCCAGTACGCGAGCTCGCGGCAGCCGGGCCACGCGGAGCACCTGGAGT
TCCCCCTCGTGACGCTTCCAGCCCAAAGCGCCGGTGTTCGGCGCCTCCTGGGCGCCGCTGAGCCCCGACGCGTCCG
GGAGCCTGCCGTCCGTCTACCACCCTTACATCCAGCCCCAGGGCGTCCCGCCGGCCGAGAGCAGGTACCTCCGCA
CCTGGCTGGAGCCGGCGCCGCGCGCGAAGCGCCCCGGGGCAGGGCCAGGCGCGGTGAAGCGGAGCCGCTGC
TGGGCGCGCCTGGGGAGCTGTCAAACAGGGCACGCCCCAGTACAGTTTGGAACTTCGGCGGGCAGGGAGGCCG
TGCTGTCTAATCAAAGACCCGGCTACGGGGACAATAAAATTTGCGAAGGAAGCGAGGACAAAGAGAGGCCGGATC
AAACCAACCCCTCCGCCAAGTGGCTGCACGCTCGCTCTTCCCGGAAAAAGCGTGTCCCTACACCAAATACCAGA
CGCTGGAGCTAGAGAAGGAGTTTCTGTTCATATGTACCTACCAGGGACCGTAGGCACGAAGTGGCCAGACTCC
TCAATCTGAGTGAGAGACAAGTCAAAATCTGGTTTTCAGAACCGGCGGATGAAATGAAGAAAATGAATAAGGAGC
AGGGCAAAGAGTAAAGATTAAAGATTACCCCCAGTCTCCTAGCTCTTCCCCATCTCACTCTTAGTTATGTGAC
GACTGCAAAGCCAGTGCTGTCTGGGATGTATTCAAGTGAATGGGGAAGGGAGTCTCTTCCAAGTCCTTTATCT
GCACCTAGAACCTCCCTCCTTTCTTTGCCCTTACCTGTCTCTCTCTCTCTAGGTGTGAGCCCTCAGACTGT
CAGGCAAGCCCGGGTTCTACCCCTAATGCAAAATACCCACCAGGGAGATGTCTAGAGGCAGACTCCTGAGTGAGGA
GTTGCAGCCCAAAGGCTGCAGCATTGCCATACCATTTCCATGGAGTTGCCAACTATTCTCAGGCCAAGGGCCATG
GGGAAGATGGAGCAAACCTAGCCCCCAAGCCGGTGGGCTAGAAAGTACAAGAAAAGGCAGCACGTGGTTTTATGA
AGGTATCTTAGGTGGAGCTACTCCCCACCTCCCAACATATACATTTTGTTCAGGAAATGTTTAATTCCGCA
TGATGTTTCCCTCTCCTTCCAACAAAAGAAGGTCAAACCTGTGGGTCTGTAGACCTTGACAATGTTGTCTCTCTGT
TCATCTGTGCACCACTTGACAGACTGTAGCTTCTCTTGCTCTCGACCGCCCTGCATTCTTCCGCACCTTCCTA
GCTCTGAAATCAACTCTCTTCGGTCGTATCCACCTTGACCCGCAAGTCAAGCCGCCCTTGTAGAAAAATCCCT
CCACCTTCCGTTCCCCGCTAGGTCAACCCCACTGTAGACAGGAAAGCCAGGCCAGGAGAGTCCGAATGAGAATTT
ATTGTGAATCGATTCCCAAGCTCCCTTCCGGGACAAGTGGTCTGGGACAGGGAGGAGCAACGGCCCCAGCGCGCA
ACGCTCTGCGCGTTTCTCCGAATCCCGTCCGCTTCTCGACCCACGCAGAGAAGCCCCGGGCTTGGCGGCTCTAGC
CCCAGCGCCAAAGGAGACCCGCCCCAGGGCCGGGCTTGGCCCTCTGCTTCATGGGCCTGGATGCAGATCTGCGTG
GCTGGTGCCTGCGCGCGCTTCTGGGAAACAGTCCCGCGTGCAAAGGAAAGGGGCAAAATGGCACCTAAGCATCAG
ATGGAAGCTTACTCTCTGCTTCCGTTCCCTCCCCCTGCTCCCTACTTCTCAGTCCCTTCAATTTGTAGACTCTT
GCTCCTGCTTCTCCTGATCCTGCAAGGGGACATTCCAGTAGAAGTTTTTGTCTTGTGCGGTGGCTGTGCGTGAAT
TGTGCTTGTGTTTTGATTTCTTTGGGGGTGATTGTCTCGCTTGTTCAGTTGTGATTATATGGGAGGGTTT
TGGGTGGGAGTGGGAGGGCGAGGGCCCTAGAGCTCTAATTGTTTGTTCAGGAAAAAAGAAAAAGAACAAA
AAATATATATCACTCTAGAAAAT

3999/5332
FIGURE 3484

ATGGGTAAGATCCGGAAGGCCCAAGGAGAAGGGCTGCCCCGCCCACTGCCCCTGCTGGTCCAGCCCAACCTCCCC
TTTGGGTACCCAGTCCACGGAGTGGAGGTGATGCCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGA
CCCGATGCCCCCGTCTATGAGGTACCCCTGACAGCTTCTCTGGGGACACTGAACACCCTTGCTGATGTCCCAGAC
AGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTT
CAGCACGTGACATACACCAGCACGGGGTACCAGCACCAGAAGTACTATCCCCACATTGCCATTGACCCCATAGAG
CCACTCGAGGAGAGAACAATCATGCTGTGCGCTTTGCACCTGTGAGTCTGGAGTCCAGGTCCTCAGTGGCCAAG
TTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCTGGACCAGTGTCTTTCAGTGTAGTCTT
AATCAGACTATTCAACTCCTCATCCCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGGGAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTTACTTTGCCCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGTATCTTTTGA

GGGTGCTTAGCCCCGCCCCCGTCCCACCTCTGCCCTGTTGCTGTGCGCGCGCTGCTGGTTGCTGTCCCTGGACCCC
TACCATGGGAGGAGACCATCAAAGATCCCCCACCATCAGCTGTCTTGCTGGATCACTGTCAATTTCTCTCAGGTCAT
CTTTAACAGTGTGGAGAAGTTCTACATCCCTGGAGGGGACGTCACATGTCAATTATACCTTCACCCAGCATTTTCAT
CCCTCGTCGAAAGGATTGGATTGGCATCTTTAGAGTGGGGTGAAGACAACCCGTGAGTATTACACCTTCATGTG
GGTTACTTTGCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAATTCAAAGCTTACTACCTGCC
CAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGGGGAGCAAGTATTCCTTTCCA
ATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCCTCAGGGAGAGGTGGAAGAGATTGAGCAGCACAA
CAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAGAAGCAGAAGCTCAGACATGCA
GGCTGAGCTCCAAAAGAAGCAGGAGGAGCTAGAAACCCTACAGAGCATCAATAAGAAGTTGGAAGTCAAAGTCAA
AGAACAGAAGGACTATTGGGAGACAGAGCTGCTTCAACTGAAAGAACAAAACCAGAAGATGTCCTCAGAAAATGA
GAAGATGGGAATCAGAGTGGATCAGCTTCAGGCCCAGCTGTCAACTCAAGAGAAAGAAATGGAGAAGCTTGTTCA
GGGAGATCAAGATAAGACAGAGCAGTTAGAGCAGCTGAAAAGGAAAATGACCACCTCTTTCTCAGTTTAACTGA
ACAGAGGAAGGACCAGAAGAAGCTCGAGCAGACAGTGGAGCAAATGAAGCAGAATGAAACTACTGCAATGAAGAA
ACAACAGGAATTAATGGATGAAAACTTTGACCTGTCAAAAAGACTGAGTGAGAACGAAATTATATGTAATGCTCT
GCAGAGACAGAAAGAGAGATTGGAAGGAGAAAATGATCTTTTGAAGAGGGGAGAACAGCAGATTGCTCAGTTACAT
GGGTCTGGATTTTAATTCTTTGCCGTATCAAGTACCTACTTCAGATGAAGGAGGCGCAAGACAAAATCCAGGACT
TGCTATGGAACCCATATTCTGGTATCCAAGAAAGTTCTTCCCCAGCCCCGTCTCCATCAAGAAATGCCCTAT
CTGCAAAGCAGATGATATTTGTGATCACACCTTGGAGCAACAGCAGATGCAGCCCCCTTTGTTTCAATTGTCCAAT
TTGTGACAAGATCTTCCCAGCTACAGAGAAGCAGATCTTTGAAGACCACGTGTTCTGCCACTCTCTCTGAGTATC
CCAACCTCTTGATGTATACAGAGATTTTATAGAATAGAACCCTATAGCTTCTACCATGAGTTATATGAGTCAAGA
TCCTGCCTAACCTGAAATTATTAGGGATTTACTCAGCCCTGCTGCCGCTAACAGTGGAGTTATGTCACGTGATCTG
AAGGTCACGTGTTAAGGGCTTCTGCTGCCATCCTTGIGGGTTGCTACCTTTAAGTGCATAACTCTAGCTGTATCA
TCCTCTCACCTGTCAATTCTTCTGAGGGTCTCAGTACAAGGGCCCTGGGATGGAGCCAACCTGGGTATTACACA
GGCCTGACTTGATACTAAGTGATTAGTTTTTCCAAGTTGTCCCACTGCCATTCAAAGTCAGCCCTTGAGTGTATTT
GTTCTCAGTCTTAACCTTGGGGCCAGAGATTGGTCCGAGGTTGAGAATTCCTTCCTCCTCATCTTGGTGTGCT
TTCTCCAAATGATTGTTTTAGACTAGCCAAAAATGCCGTGGCAAAGAGCTCAGAAATCCAATTTGGATACCAAG
GTTTCTCATGTTAATTTCTCAGCCCCCAAAGAAGCATCTTACTCCTGAACCTTAGACAGGAAGTATTGTTTCAGT
CACAGAAAGCTTTTCTGGGTACCTCTGGTTAGCACTTTCTACTCTCTGATATTTCTATGTACATAGCTTTTATT
GTTGTAATCCTTTCTTAATGGTTAAATAGGATTGTTAGCAACTATGGGTTTGCAATTTTCTGAGTAGGTGAGTT
TTGAATATGGGTAAATCAGAATAATGAGACAACCTTGTTAATCTCTTAACTAAAAATAAATTTACTCTTCTATT
TCAGGGACTTAGGTAATTTAAAATAAACCTTCAATTTATGGTCTTCTGTTTTGAAGCTCATGGGAAAATTGTGAT
CAAAAGGGCTATGGGAAGGGCAGACCCCGCCAAATGATTCTCTTACCTGTCTTAAGATTAAATAAAAAAGAGTG
TCCTGGCAGTTATCTTGAGGTGGGGAAGGAGGTGATGAACACTATAGTTTGTGAAATCCAAGGCCCTGGCTTGCTT
CTTCTCTTTTTTTTTTTTTTTTTTTTGAAGAGCTCTCTCTGTCAACCAGGCTGGCGTGCAATGGCGCAGTTGA
CTCACTACAGCCTTGCCCTCCAGGTTTCAAGCGATTCTCATGCCTTAGCCTCCCAAGTAGCTGGGATTACAGGTG
TGTGCCGCAATGCCCAGTAAATTTTTGTGTTTTTAGTAGAGACAGGGTTTCACTATGTTGGCCAGGCTGGTCTCG
AACTCCTGGCCTCAGTGATCTGTCCACTTCAGCCGTCCAAAGTGCTGGGATTACAAGCGTGAGCCACTGTGCTG
GGCCCCGAGGCCCTGACTTCTTGCTGTAACTTTCCATGCATTTTTTTTTTAAAGGAGCAGTGTGGATTTTCGCACCC
TTTGTGAACATAAGTTCAATGCGCTCTATCCAAATTTGCCTAATTGAACATAAGAAAAGTAATAATTCCATTTTCT
ATCCCCCTCAGGGACTGAACAAATGGAAAATAACTCCCAGGCAGTATCAGGTGGTCACTACAGAGACTTCCACAAAA
ACTTTTGAATGATGTGAAACACGATGTGATGAATAAGGGTTGAGCCAACCTATAGCTCTGTGTTCTACTGGGCTT
TCCCTAATGTGGTTGGGAGTTATGCCCTAGACTAACTGTATTGTCCTAGTCACAGCTCCTTGCTTTGATTTTCATC
CTTGATAAAATGAAGATGAAACTT

4001/5332
FIGURE 3486

ACCGCCACCATGAACAAGCTTTACATCGGCAACCTCAACGAGAGCGTGACCCCCGCGGACTTGGAGAAAGTGTTT
GCGGAGCACAAGATCTCTACAGCGGCCAGTTCTTGGTCAAANTCCTACGCCTTCGTGGACTGCCCGGACGAGCA
CTGGGCGATGAAGGCCATCGAACTTTCTCCGGGAAAGTAGAATTACAAGGAAAACGCTTAGAGATTGAACATTC
GGTGCCCAAAAAACAAAGGAGCCGGGAAAATTCAAATCCGAAATATTCCACCCCAGCTCCGATGGGAAGTACTGGA
CAGCCTGCTGGCTCAGTATGGTACAGTAGAGAACTGTGAGCAAGTGAACACCGAGAGTGAGACGGCAGTGGTGAA
TGTCACCTATTCCAACCGGGAGCAGACCAGGCAAGCCATCATGAAGCTGAATGGCCACCAGTTGGAGAACCATGC
CCTGAAGGTCTCTACATCCCCGATGAGCAGATAGCACAGGGACCTGAGAATGGGCGCCGAGGGGGCTTTGGCTC
TCGGGGTCAGCCCCGCCAGGGCTCACCTGTGGCAGCGGGGGCCCCAGCCAAGCAGCAGCAAGTGGACATCCCCCT
TCGGCTCCTGGTGCCCAACCCAGTATGTGGGTGCCATTATTGGCAAGGAGGGGGCCACCATCCGCAACATCACAAA
ACAGACCCAGTCCAAGATAGACGTGCATAGGAAGGAGAACGCAGGTGCAGCTGAAAAAGCCATCAGTGTGCACTC
CACCCCTGAGGGCTGCTCCTCCGCTTGTAAGATGATCTTGAGATTATGCATAAAGAGGCTAAGGACACCAAAAC
GGCTGACGAGGTTCCCCTGAAGATCCTGGCCATAATAACTTTGTAGGGCGTCTCATTGGCAAGGAAGGACGGAA
CCTGAAGAAGGTAGAGCAAGATACCGAGACAAAAATCACCATCTCCTCGTTGCAAGACCTTACCCTTTACAACCC
TGAGAGGACCATCACTGTGAAGGGGGCCATCGAGAATTGTTGCAGGGCCGAGCAGGAAATAATGAAGAAAAGTTG
GGAGGCCTATGAGAATGATGTGGCTGCCATGAGCCTGCAGTCTCACCTGATCCCTGGCCTGAACCTGGCTGCTGT
AGGTCTTTTCCCAGCTTCATCCAGCGCAGTCCCGCCGCTCCCAGCAGCGTTACTGGGGCTGCTCCCTATAGCTC
CTTTATGCAGGCTCCCGAGCAGGAGATGGTGCAGGTGTTTATCCCCGCCAGGCAGTGGGCGCCATCATCGGCAA
GAAGGGGCAGCACATCAAACAGCTCTCCCGTTTGCCAGCGCTCCATCAAGATTGCACCACCCGAAACACCTGA
CTCCAAAGTTCGTATGGTTATCATCACTGGACCGCCAGAGGCCAATTCAAGGCTCAGGGAAGAATCTATGGCAA
ACTCAAGGAGGAGAAGTTCTTTGGTCCCAAGGAGGAAGTGAAGCTGGAGACCCACATACGTGTGCCAGCATCAGC
AGCTGGCCGGGTCATTGGCAAAGGTGGA AAAACGGTGAACGAGTTGCAGAATTTGACGGCAGCTGAGGTGGTAGT
ACCAAGAGACCAGACCCCTGATGAGAACGACCAGGTATCGTGAAAATCATCGGACATTTCTATGCCAGTCAGAT
GGCTCAACGGAAGATCCGAGACATCCTGGCCCAGGTTAAGCAGCAGCATCAGAAGGGACAGAGTAACCAGGCCCA
GGCACGGAGGAAGTGAACAGCCCTCCCTGTCCCTTCGAGTCCAGGACAACAACGGGCAGAAATCGAGAGTGTGC
TCTCCCCGGCAGGCCTGAGAATGAGTGGGAATCCGGGACACCTGGGCCGGGCTGTAGATCAGGTTTGGCCACTTG
ATTGAGAAAGATGTTCCAGTGAGGAACCTGATCTCTCAGCCCCAAACACCCACCCAATTGGCCCAACACTGTCT
GCCCCTCGGGGTGTGAGAAATCTAGCGCAAGGCACTTTTAAACGTGGATTGTTTAAAGAAGCTCTCCAGGCCCC
ACCAAGAGGGTGGATCACACCTCAGTGGGAAGAAAAATAAAATTCCTTCAGGTTTTAAAAACATGCAGAGAGGT
GTTTTAATCAGCCTTAAAGGATGGTTCA

4002/5332
FIGURE 3487

GGGGAAGCTGAGCGCTGAGACCAAGGGCTAAAGCTGGGAGGTGAGTCTGTCACCTTGAGCCGGGCGAGCGCTGTG
GGCCAAGCAGGGGTTGCAGGGTAGTAGGAGTGCAGACTGAAAAAATGCAGACCGCCGGGGCATTATTCATTTCTC
CAGCTCTGATCCGCTGTTGTACCAGGGGTCTAATCAGGCCTGTGTCTGCCTCCTTCTTGAATAGCCCAGTGAATT
CATCTAAACAGCCTTCCTACAGCAACTTCCCACTCCAGGTGGCCAGACGGGAGTTCAGACCAGTGTGTCTCCC
GGGACATTGACACAGCAGCCAAGTTTATTGGTGCTGGGGCAGCCACAGTTGGTGTGGCTGGTTCAGGGGCTGGCA
TTGGAACCGTGTTTGGCAGCTTGATCATTGGCTATGCCAGGAACCCGTCTCTCAAGCAGCAGCTCTTCTCCTATG
CCATTCTTGGCTTTGCCCTGTCTGAGGCCATGGGGCTTTTCTGTTTGATGGTCGCCTTCCTCATCCTCTTCGCCA
TGTAAGGCTCCATGGGGGGTCACCGGCCTGTTGCTACTGCAACTCCACACCATTCCTGGTGCTGGGGTGTGTTAA
GCTTTACCATTAAACACAACGTTTCTCTAAA

4004/5332
FIGURE 3489

GGGACGTGGAGACCCGGGGTCCCGGCAGCCGGGCGGCCCGCGGGCCAGGGTGGGGATGCACCGCCGCGGGGTGG
GAGCTGGCGCCATCGCCAAGAAGAACTTGCAGAGGCCAAGTATAAGGAGCGAGGGACGGTCTTGGCTGAGGACC
AGCTAGCCCAGATGTCAAAGCAGTTGGACATGTTCAAGACCAACCTGGAGGAATTTGCCAGCAAACACAAGCAGG
AGATCCGGAAGAATCCTGAGTTCCGTGTGCAGTTCAGGACATGTGTGCAACCATTGGCGTGGATCCGCTGGCCT
CTGGAAAAGGATTTTGGTCTGAGATGCTGGGCGTGGGGGACTTCTATTACGAACTAGGTGTCAAATTATCGAAG
TGTGCCTGGCGCTGAAGCATCGGAATGGAGGTCTGATAACTTTGGAGGAACTACATCAACAGGTGTTGAAGGGAA
GGGGCAAGTTCGCCCAGGATGTCAGTCAAGATGACCTGATCAGAGCCATCAAGAACTAAAGGCACTTGGCACTG
GCTTCGGCATCATCCCTGTGGGCGGCACCTACCTCATTAGTCTGTTCCAGCTGAGCTCAATATGGATCACACCG
TGGTGCTGCAGCTGGCAGAGAAGAATGGCTACGTGACTGTCAGTGAGATCAAAGCCAGTCTTAAATGGGAGACCG
AGCGAGCGCGGCAAGTGCTGGAACACCTGCTGAAGGAAGGGTTGGCGTGGCTGGACTTACAGGCCCCAGGGGAGG
CCCACTACTGGCTGCCAGCTCTCTTCACTGACCTCTACTCCCAGGAGATTACAGCTGAGGAGGCCAGAGAAGCCC
TCCCCTGACTGCATGTGGAAGGGCACACAGCAGCAGGCAGGGAGGAGGCGGAGGTGGCAAATAAACCTGGGCAAT
TTTGTTTATACAAAAAATAGAAAAAA

4005/5332
FIGURE 3490A

AGCAGACGGGAGTTTCTCCTCGGGGTCGGAGCAGGAGGCACGCGGAGTGTGAGGCCACGCATGAGCGGACGCTAA
CCCCCTCCCCAGCCACAAAGAGTCTACATGTCTAGGGTCTAGACATGTTTCAGCTTTGTGGACCTCCGGCTCCTGC
TCCTCTTAGCGGCCACCGCCCTCCTGACGCACGGCCAAGAGGAAGGCCAAGTCGAGGGCCAAGACGAAGACATCC
CACCAATCACCTGCGTACAGAACGGCCTCAGGTACCATGACCGAGACGTGTGGAAACCCGAGCCCTGCCGGATCT
GCGTCTGCGACAACGGCAAGGTGTTGTGCGATGACGTGATCTGTGACGAGACCAAGAACTGCCCGGCGCCGAAG
TCCCCGAGGGCGAGTGTGTCCCGTCTGCCCGACGGCTCAGAGTCACCCACCGACCAAGAAACCACCGGCGTCG
AGGGACCCAAGGGAGACACTGGCCCCCGAGGCCCAAGGGGACCCGAGGCCCCCTGGCCGAGATGGCATCCCTG
GACAGCCTGGACTTCCCGGACCCCGGACCCCGGACCTCCCGGACCCCTGGCCTCGGAGGAACTTTGCTC
CCCAGCTGTCTTATGGCTATGATGAGAAATCAACCGGAGGAATTTCCGTGCCTGGCCCCATGGGTCCCTCTGGTC
CTCGTGGTCTCCCTGGCCCCCTGGTGACCTGGTCCCCAAGGCTTCCAAGGTCCCTGGTGAGCCTGGCGAGC
CTGGAGCTTCAGGTCCCATGGGTCCCCGAGGTCCCCAGGTCCCTGGAAAGAATGGAGATGATGGGGAAGCTG
GAAACCTGGTCTGCTCCTGGTGAGCGTGGGCCTCCTGGGCCTCAGGGTGCTCGAGGATTGCCCGGAACAGCTGGCC
TCCCTGGAATGAAGGGACACAGAGGTTTCAGTGGTTTGGATGGTGCCAAGGGAGATGCTGGTCTGCTGGTCTCTA
AGGGTGAGCCTGGCAGCCCTGGTGAAAATGGAGCTCCTGGTGAGATGGGCCCCCGTGGCCTGCCTGGTGAGAGAG
GTCGCCCTGGAGCCCCCTGGCCCTGCTGGTGCTCGTGAAATGATGGTGCTACTGGTGCTGCCGGGCCCCCTGGTC
CCACCGGCCCCGCTGGTCTCCTGGCTTCCCTGGTGCTGTTGGTGCTAAGGGTGAAGCTGGTCCCCAAGGGCCCC
GAGGCTCTGAAGGTCCCCAGGGTGTGCGTGGTGAGCCTGGCCCCCTGGCCCTGCTGGTGCTGCTGGCCCTGCTG
GAAACCTGGTGCTGATGGACAGCTGGTGCTAAAGGTGCCAATGGTGCTCCTGGTATTGCTGGTGCTCCTGGCT
TCCCTGGTGCCCGAGGCCCTCTGGACCCCAAGGGCCCCGGCGGCCCTCCTGGTCCCAAGGGTAACAGCGGTGAAC
CTGGTGCTCCTGGCAGCAAAGGAGACACTGGTGCTAAGGGAGAGCCTGGCCCTGTTGGTGTTCAAGGACCCCTG
GCCCTGCTGGAGAGGAAGGAAAGCGAGGAGCTCGAGGTGAACCCGGACCCACTGGCCTGCCCGGACCCCTGGCG
AGCGTGGTGGACCTGGTAGCCGTGGTTTCCCTGGCGCAGATGGTGTTGCTGGTCCCAAGGGTCCCGCTGGTGAAC
GTGGTTCTCCTGGCCCTGCTGGCCCCAAAGGATCTCCTGGTGAAAGCTGGTCTGCTCCCGGTGAAGCTGGTCTGCCTG
GTGCCAAGGGTCTGACTGGAAGCCCTGGCAGCCCTGGTCTGATGGCAAACTGGCCCCCTGGTCCCGCCGGTC
AAGATGGTGCSCCGGACCCCAAGGCCACCTGGTGCCCGTGGTCAGGCTGGTGTGATGGGATTCCCTGGACCTA
AAGGTGCTGCTGGAGAGCCCGCAAGGCTGGAGAGCGAGGTGTTCCCGGACCCCTGGCGCTGTGGTCTGCTG
GCAAAGATGGAGAGGCTGGAGCTCAGGGACCCCTGGCCCTGCTGGTCCCGCTGGCGAGAGAGGTGAACAAGGCC
CTGCTGGCTCCCCCGATTCCAGGGTCTCCCTGGTCTGCTGGTCTCCAGGTGAAGCAGGCAAACCTGGTGAAC
AGGGTGTTTCTGGAGACCTTGGCGCCCCCTGGCCCCCTCTGGAGCAAGAGGCGAGAGAGGTTTCCCTGGCGAGCGTG
GTGTGCAAGGTCCCCCTGGTCTGCTGGTCCCCGAGGGGCCAACGGTGCTCCCGGCAACGATGGTGCTAAGGGTG
ATGCTGGTGCCCTGGAGCTCCCGGTAGCCAGGGCGCCCCCTGGCCTTCAGGGAATGCCTGGTGAACGTGGTGACG
CTGGTCTTCCAGGGCCTAAGGGTGACAGAGGTGATGCTGGTCCCAAAGGTGCTGATGGCTCTCCTGGCAAAGATG
GCGTCCGTGGTCTGACTGGCCCCATTGGTCTCCTGGCCCTGCTGGTGCCCTGGTGACAAGGGTGAAAGTGGTC
CCAGCGGCCCTGCTGGTCCCACTGGAGCTCGTGGTGCCCCCGAGACCGTGGTGAGCCTGGTCCCCCGGCCCTG
CTGGCTTTGCTGGCCCCCTGGTGCTGACGGCCAACCTGGTGCTAAAGGCGAACCTGGTGATGCTGGTGCTAAAG
GCGATGCTGGTCCCCCTGGCCCTGCCGACCCGCTGGACCCCTGGCCCCATTGGTAATGTTGGTGCTCCTGGAG
CCAAAGGTGCTCGCGGCAGCGCTGGTCCCCCTGGTGCTACTGGTTTCCCTGGTGCTGCTGGCCGAGTCGGTCCTC
CTGGCCCCCTCTGGAATGCTGGACCCCTGGCCCTCCTGGTGCTGCTGGCAAAGAAGGCGGCAAAGGTCCCCGTG
GTGAGACTGGCCCTGCTGGAGCTCCTGGTGAAAGTTGGTCCCCCTGGTCCCCCTGGCCCTGCTGGCGAGAAAGGAT
CCCCTGGTGCTGATGGTCTGCTGGTGCTCCTGGTACTCCCGGCCCTCAAGGTATTGCTGGACAGCGTGGTGCTG
TCGCCCTGCCTGGTGAGAGAGGAGAGAGAGGCTTCCCTGGTCTTCCCTGGCCCCCTGCTGGTGAACCTGGCAAACAAG
GTCCCTCTGGAGCAAGTGGTGAACGTGGTCCCCCTGGTCCCATGGGCCCCCTGGATTGGTGGACCCCTGGTG
AATCTGGACGTGAGGGGGCTCCTGGTGCCGAAGGTTCCCTGGACGAGACGGTTCTCCTGGCGCCAAGGGTGACC
GTGGTGAGACCGGCCCGCTGGACCCCTGGTGCTCCTGGTGCTCCTGGTGCCCCCTGGCCCCGTTGGCCCTGCTG
GCAAGAGTGGTGATCGTGGTGAGACTGGTCTGCTGGTCCACCGGTCTGTCGGCCCTGTTGGCGCCCGTGGCC
CCGCCGACCCCAAGGCCCGCTGGTGACAAGGGTGAGACAGGCGAACAGGGCGACAGAGGCATAAAGGGTCACC
GTGGCTTCTCTGGCCTCCAGGGTCCCCCTGGCCCTCCTGGCTCTCCTGGTGAAACAAGGTCCCTCTGGAGCCTCTG
GTCCTGCTGGTCCCCGAGGTCCCCCTGGCTCTGCTGGTGCTCCTGGCAAAGATGGACTCAACGGTCTCCTGGCC

4006/5332
FIGURE 3490B

CCATTGGGCCCCCTGGTCCCTCGCGGTGCGACTGGTGATGCTGGTCCCTGTTGGTCCCCCGGGCCCTCCTGGACCTC
CTGGTCCCCCTGGTCCCTCCCAGCGCTGGTTTCGACTTCAGCTTCCTGCCCCAGCCACCTCAAGAGAAGGCTCAGG
ATGGTGGCCGCTACTACCGGGCTGATGATGCCAATGTGGTTCGTGACCGTGACCTCGAGGTGGACACCACCTCA
AGAGCCTGAGCCAGCAGATCGAGAACATCCGGAGCCCAGAGGGCAGCCGCAAGAACCCCGCCCGCACCTGCCGTG
ACCTCAAGATGTGCCACTCTGACTGGAAGAGTGGAGAGTACTGGATTGACCCCAACCAAGGCTGCAACCTGGATG
CCATCAAAGTCTTCTGCAACATGGAGACTGGTGAGACCTGCGTGTACCCCACTCAGCCCAGTGTGGCCCAAGA
ACTGGTACATCAGCAAGAACCCCAAGGACAAGAGGCATGTCTGGTTCGGCGAGAGCATGACCGATGGATTCCAGT
TCGAGTATGGCGGCCAGGGCTCCGACCCTGCCGATGTGGCCATCCAGCTGACCTTCCTGCGCCTGATGTCCACCG
AGGCCTCCCAGAACATCACCTACCACTGCAAGAACAGCGTGGCCTACATGGACCAGCAGACTGGCAACCTCAAGA
AGGCCCTGCTCCTCCAGGGCTCCAACGAGATCGAGATCCGCGCCGAGGGCAACAGCCGCTTCACCTACAGCGTCA
CTGTGATGGCTGCACGAGTCAACCGGAGCCTGGGGCAAGACAGTGATTGAATACAAAACCACCAAGACCTCCC
GCCTGCCCCATCATCGATGTGGCCCCCTTGGACGTTGGTGGCCAGACCAGGAATTCGGCTTCGACGTTGGCCCTG
TCTGCTTCCTGTAACCTCCCTCCATCCCAACCTGGCTCCCTCCCACCCAACCAACTTTCCCCCAACCCGGAAC
AGACAAGCAACCCAACTGAACCCCTCAAAAGCCAAAAATGGGAGACAATTTACATGGACTTTGGAAATAT
TTTTTTCCTTTGCATTCTCTCAAACCTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTG
CATTCAACCTTACCAAAAAAAAAAAAAAAAAAAGAATAAATAAAATAACTTTTTAAAAAAGGAAGCTTGGTCCACT
TGCTTGAAGACCCATGCGGGGTAAAGTCCCTTTCTGCCCGTTGGGCTTATGAAACCCAATGCTGCCCTTTCTGC
TCCTTTCTCCACACCCCTTGGGGCTCCCTCCACTCCTTCCCAAATCTGTCTCCCAGAAGACACAGGAAAC
AATGTATTGTCTGCCAGCAATCAAAGGCAATGCTCAAACACCCAAGTGCCCCCACCCTCAGCCCGCTCCTGCC
CGCCAGCACCCCAAGCCCTGGGGGACCTGGGGTCTCAGACTGCCAAAGAAGCCTTGCCATCTGGCGCTCCCA
TGGCTCTTGCAACATCTCCCTTCGTTTTTGAGGGGGTCATGCCGGGGAGCCACCAGCCCTCACTGGGTTCGG
AGGAGAGTCAGGAAGGGCCACGACAAAGCAGAAACATCGGATTGGGGAACGCGTGTCAATCCCTTGTGCCGAG
GGCTGGGCGGAGAGACTGTTCTGTTCTTGTGTAACGTGTGTGCTGAAAGACTACCTCGTTCTTGTCTTGATGT
GTCACCGGGCAACTGCCTGGGGGCGGGGATGGGGGAGGGTGGAAGCGGCTCCCCATTTTATACCAAAGGTGCT
ACATCTATGTGATGGGTGGGGTGGGGAGGGAATCACTGGTGCTATAGAAATTGAGATGCCCCCAGGCCAGCAA
ATGTTCCTTTTTGTTCAAAGTCTATTTTTATTCCTTGATATTTTTCTTTTTTTTTTTTTTTTTTGTGGATGGGG
ACTTGTAATTTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAGCCAGCCCGCTGCTCA
CTTCCACCCTCTCTCCACCTGCCTCTGGCTTCTCAGGCCTCTGCTCTCCGACCTCTCTCTCTGAAACCTCCT
CCACAGCTGCAGCCCATCCTCCCGGCTCCCTCCTAGTCTGTCTGCGTCTCTGTCCCCGGGTTTCAGAGACAAC
TTCCCAAAGCACAAAGCAGTTTTTCCCCTAGGGGTGGGAGGAAGCAAAAGACTCTGTACCTATTTGTATGTGT
ATAATAATTTGAGATGTTTTTAATTATTTTGATTGCTGGAATAAAGCATGTGGAATGACCCAAACATAA

CGGAAGCGCGGCGCTGCGGGCCGGGGCCGGGGACAGCCGGGGGCGGCGGCGCGCGGACTCCGCATCCCG
CACCCCGATGGTAGCCGAGGAGCTGGTGTAAATTACTTCAAGCCTCCAGGATGGCAATCCAGTTCGGTTCGCTCTT
CCCCTTGGCATTGCCTGGGATGCTGGCGCTCCTCGGCTGGTGGTGGTTTTTCTCTCGTAAAAAAGGCCATGTCAG
CAGCCATGATGAGCAGCAGGTGGAGGCTGGTGTCTGTGCAGCTGAGGGCTGACCCTGCCATCAAGGAACCTCTCCC
CGTGGAAGACGTCTGTCCCAAAGTAGTGTCCACACCCCCCAGTGTACACAGAGCCTCCAGAAAAGGAACTGTCCAC
CGTGAGCAAGCTGCCTGCAGAGCCCCCAGCATTGCTCCAGACACACCACCTTGCCGAAGATCAGAGTCTCTGGG
CAITCTTCTTAACACCACAGACATGAGATTGCGACCAGGAACACGCAGAGATGACAGTACAAAGCTGGAGCTAGC
CCTGACAGGTGGTGAAGCCAAATCGATTCTCTAGAGTGCCCCCTTTCATCCCCAAAGGGTGTACTATTCTCCAG
CAAAATCAGCTGAGGTGTGTAAGCAAGATTCCCCCTTCAGCAGGTTGCCAAGGAAGGTCCAGCCAGGCTACCCCG
AGTCCCCCGCAGAGAAGCGTAGCTCTGGGGGAGAGGGCAAGAGAGACAGGTGGGGCCGAAGGGACTGGTGATGCCGT
GTTGGGGGAAAAAGGTGCTTGAAGAAGCTCTGTTGTCTCGGGAGCATGCTTGGAAATTGGAGAACAGCAAGGGCCC
CAGCCTGGCCTCTTTAGAGGGGGGAAGAAGATAAAGGGGAAGAGCAGCTCATCCCAGGTGGTGGGGCCAGTGCAGGA
GGAAGAGTATGTAGCAGAGAAGTTGCCAAGTAGGTTTCATCGAGTCGGCTCACACAGAGCTGGCAAAGGACGATGC
GGCGCCAGCACCCCCAGTCGCAGACGCCAAAGCCCAGGATAGAGGTGTGCGAGGGGAGAACTGGGCAATGAGGAGAG
CTTGGATAGAAAATGAGGAGGGCTTGGATAGAAATGAGGAGGGCTTGGATAGAAAATGAGGAGAGCTTGGATAGAAA
TGAGGAGGGCTTGGATAGAAAATGAGGAGATTAAAGCGGGCTGCCTTCAGATAATCTCCCAAGTGATCTCAGAAGC
AACCGAACAGGTGCTGGCCACCACGGTTGGCAAGGTTGCAGGTCGTGTGTGTCAGGCCAGTCAGCTCCAAGGGCA
GAAGGAAGAGAGCTGTGTCCAGTTCCACAGAAAACCTGCTTTGGGCCAGACACTGCGGAGCCTGCCACAGCAGA
GGCAGCTGTTGCCCCCGGATGCTGGCCCTCCCTTGTCCAGGCTACCAGCAGAGGGCTCACCACCACCAAAAGC
CTACGTGAGCTGCCTGAAGAGCCTTCTGTCCAGCCCCACCAAGGACAGTAAGCCAAATATCTCTGCACCCACAT
TCCCTGGCCTCCTGCCTGGCACTGACCACCCCCAGTGAAGAGTTGCCGACCAGGGCAGGCATCTGTGTTGGAAGA
TGCCACCTGTGTCACTGTCATGTGACAGCAGCAGCCAAAGTGTCCCTTTGGTGGCTTCTCCAGGACACTGTGAGA
TTCTTTTACGACTTCAGGGCTTGAAGACTCTTGCACAGAGACCAGCTCGAGCCCCAGGGACAAGGCCATCACCCC
GCCACTGCCAGAAAAGTACTGTGCCCTTCAGCAATGGGGTGTGAAAGGGGGAGTTGTGCACTTGGGGGCTGAGGA
TGGATGGACCATGGATGCGGAAGCAGATCATTAGGAGGTTCTGACAGGAACAGCATGGATTCCGTGGATAGCTG
TTGCAGTCTCAAGAAGACTGAGAGCTTCCAAAATGCCCAGGCAGGCTCCAACCCTAAGAAGGTCGACCTCATCAT
CTGGGAGATCGAGGTGCCAAAGCACTTAGTCGGTCGGCTAATTGGCAAGCAGGGGCGCTATGTGAGTTTTCTGAA
GCAAAATCTGGTGCCAAAGATCTACATTTCAACCCCTGCCTTACACCCAGAGCGTCCAGATCTGCCACATAGAAGG
CTCTCAACATCATGTAGACAAAGCGCTGAACCTTGATTGGGAAGAAGTTCAAAGAGCTGAACCTCACCAATATCTA
CGCTCCCCCATTGCCTTCACTGGCACTGCCTTCTCTGCCGATGACATCTTGCTCATGCTGCCTGATGGCATCAC
CGTGGAGGTCATTGTGGTCAACCAGGTCAATGCCGGGCACCTGTTCTGTGCAGCAGCACACACACCCTACCTTCCA
CGCGCTGCGCAGCCTCGACCAGCAGATGTACCTCTGTTACTCTCAGCCTGGAATCCCCACCTTGCCCACCCAGT
GGAAATAACGGTCATCTGTGCCGCCCCCTGGTGCAGGACGGGGCTGTTGGCGAGCCCAAGTGTTGCCTCCTACGA
GGAGACCAACGAAGTGGAGATTGATACGTTGACTACGGCGGATATAAGAGGGTGAAAGTAGACGTGCTCCGGCA
AATCAGGTCTGACTTTGTCAACCCTGCCGTTTCAGGGAGCAGAGTCTTCTGGACAGTGTGATGCCCTGTGAGA
CGATGACCAGTTTTCAACCGGAAGCAGATGCCGCCATGAGCGAGATGACGGGGGAATACAGCACTGCTTGCTCAGGT
GACAAGTTACAGTCCAACCTGGTCTTCTCTGATTACAGCTGTGGAGTGTGGTTGGAGATGAAGTGGTGTGATAAA
CCGGTCCCTGGTGGAGCGAGGCCTTGCCAGTGGGTAGACAGCTACTACACAAGCCTTTGACACCCCATGCTGCTT
CCTGAGAGTCTTTTTTTGCACTGTTGAAATTGGGCTTGGCACTCAAGTCAAAGATGAACATCGGAATAACAAACA
TTGTCTCTCCAGAAAGTCTTTCTTTCTCCATACTGTAGTCTTATTGAGAAGACATTTCTGCTCTTGAGAAAAA
GGATGGAACATATGGGTTCTCTTCGCAAAGCCAAAGGATAGTGTTAACAAGCCAGCTGGCTTATGCTGGTTCTCA
GCTGTTTAAAAAAAAAAAAAAAAAAGGAATAGAAACAGTTTCAACCAGATTGTCTATTCCCCCTGTTCCATTCCC
CTCTTCTTCTTCTATCTCTTCCCCGGCAAAAACCAAACTGGCAGACAGGCCAGGGATGTATGTTGCTTG
CTTGAGAGGGTTTCTTTTACTTCAAATCTTTTTCAGGGAGCAAGACATGAACCTGACTAATTGGTATCCACTAC
TTGTACAGGCTTACATAAATGAGTTGATGATATTTAACCAGTTTTTATAAATCTCATTAGGTCTTAAACACAGA
CTTTTAAATTGCAACTGTAAATATGAAATGGTCATCACATCTGACCTTGCTCAGTGGGGAGGGGAAGCTGGTATC
TGCCAAAGCCTGGTTGTAATTTGTAACCATTTTCTATTTTGTGCAAACTCTGTAATATGTGTTTAAACAAATGTA
ATATTTTGTACAAGATACACTGGAGAACAAGGGGAACCTCAAGATCTTCCAGCCACATGTACCTGTAGGTAGAA

4008/5332
FIGURE 3491B

GTAAACTCTGCAGTGCAGCTTCTGCTCTTGGCCCCCTCTGGCCAGGGCCCCCTGTGGCTTCCTGCACACTGGACAGG
TGACTGTATGGTAGAGACTGTGATCTGGGAACTTTTGTCTGTACAAATCTGTTTAAAAAAAAAAAAAAGTAACTC
ATTGAATTAA

4009/5332
FIGURE 3492A

CAAGTGCCGTCGCCGCGCCCTTCCCCCTCCCGCTCCCGGCCCTCCCGGAACCGGCGGTTCGAGCTACGGT
CGCGGAGCAGTGGAAACGNAGACTGCCCCGCGGAGCGCCGGTATGAGCGCCCCCTCGCCACCCCGTGTCCCAGGC
CCGGCCTTTCTGACAAGAGCTAGACTTCGGGCTCCTTGAGGATATTCAGTTTGTATGTTTGAATATCCTCTCAC
CATGTTTCAGCATAAAGTACCATTCTTAATGATTATCCTCAACAAGACAGGTGTGAGAGGGTTGCTGTTGTATTGC
AATCATGGTGCAGAAATACCAGTCCCCAGTGAGGGGTGTACAAATACCCCTTGAATTAATTATGGCTGCCTATGA
AAGGAGGTTCCCTACATGTCTTTGATTCCGATGTTCTGTTGGGAGTGACACTGTGAATGAATTCAAGAGCGAAGA
TGGGGCTATTGATGTCATTGAAAGGCGCTGCAAGCTGGATGTAGATGCACCCAGACTGCTGAAGAAGATTGCAGG
AGTTGATTATGTTTATTTTGTCCAGAAAACTCACTGAATTCTCGGGAACGTACTTTGCACATTGAGGCTTATAA
TGAAACGTTTTCCAATCGGGTCATCATTAAATGAGCATTGCTGCTACACCGTTCACCCTGAAAATGAAGATTGGAC
CTGTTTTGAACAGTCTGCAAGTTTAGATATTAAATCTTTCTTTGGTTTTGAAAGTACAGTGGAAAAAATTGCAAT
GAAACAATATACCAGCAACATTAAAAAAGGAAAGGAAATCATCGAATACTACCTTCGCCAATTAGAAGAAGAAGG
CATAACCTTTGTGCCCCGTGGAGTCCGCTTCCATCACGACCTCTTCAGAGACATCTTCATCATCTCCAGAA
ACAAGCAGCGTCCATGGCCGTGCTCATCCCAGAAGCTGCCCTCAAGGAGGGGCTGAGTGGTGATGCCCTCAGCAG
CCCCAGCGCACCTGAGCCCGTGGTGGGCACCCCTGACGACAACTAGATGCCGACTACATCAAGAGATACCTGGG
CGATTTGACTCCGCTGCAGGAGAGCTGCCTCATTAGACTTCGCCAGTGGCTCCAGGAGACCCACAAGGGCAAAAT
TCCAAAAGATGAGCATATTCTTCGGTTCTCCGTGCACGGGATTTTAATATTGACAAAGCCAGAGAGATCATGTG
TCAGTCTTTGACGTGGAGAAAGCAGCATCAGGTAGACTACATTCTTGAAACCTGGACCCCTCCTCAGGTCTTTCA
GGATTACTACGCGGGAGGCTGGCATCATCACGACAAAGATGGGCGGCCCTCTACGTGCTCAGGCTGGGGCAGAT
GGACACCAAAGGCTTGGTGAGAGCGCTCGGGGAGGAAGCCCTGCTGAGATACGTTCTCTCCATAAATGAAGAAGG
GCTAAGGCGATGCGAAGAGAATACAAAAGTCTTTGGTTCGGCCTATCAGCTCATGGACCTGCCTGGTGGACTTGA
AGGGCTGAACATGCGCCACTTGTGGAGACCTGGTGTGAAAGCGCTGCTGCGGATCATCGAGGTGGTGGAGGCCAA
CTACCTGAGACACTGGGCCGCTTCTCATCTGCGGGCGCCAGGGTATTTCTGTGCTCTGGACGCTGGTTAG
TCCGTTCTATTGATGACAACACCAGAAGGAAGTTCTCATTTATGCAGGAAATGACTACCAGGGTCTGGAGGCT
GCTGGATTACATCGAACAAGAGATTATTCCAGATTCTGAGTGGGGAGTGCATGTGCGAAGTGCCAGAGGGTGG
ACTGGTCCCCAAATCTCTGTACCGGACTGCAGAGGAGCTGGAGAACGAAGACCTGAAGCTCTGGACTGAGACCAT
CTACAGTCTGCAAGCGTCTTCAAAGGAGCCCCACATGAGATTCTCATTGAGATTGTGGATGCCTCGTCAGTCAT
CACTTGGGATTTGACGTGTGCAAAGGGGACATTGTGTTAACATCTATCACTCCAAGAGGTGCCACAACCACC
CAAAAAGGACTCCCTGGGAGCCACAGCATCACCTCTCCGGGTGGGAACAATGTGCAGCTCATAGACAAAGTCTG
GCAGCTGGGCCGCGACTACAGCATGGTGGAGTCGCTCTGATCTGCAAAGAAGGAGAAAGCGTGCAGGGTTCCCA
TGTGACCAGGTGGCCGGGCTTCTACATCCTGCAGTGGAAATCCACAGCATGCCTGCGTGCGCCGCCAGCAGCCT
TCCCCGGGTGGACGACGTGCTTGCCTGCCCTGCAGGTCTCTTCGCACAAGTGTAAGTGATGTACTACACCGAGGT
GATCGGCTCGGAGGATTTTCAGAGGTTCCATGACGAGCCTGGAGTCCAGCCACAGCGGCTTCTCCACCTGAGTGC
CGCCACCACCTCCTCCAGCCAGTCCCCTCCAGTCCATGATCTCCAGGTAGTGCCGCGCTGCTGCACCTAGTG
TGCAGAGGGGACGGCCGCCCTCCTCGGACAGCCAGCTGCACCCGCCACCCAGCGGCGACATTGTACAGACTCC
TCTCACCTCTAGATAGCAATAGCTCTCAGATGGTAAACGTAGTTCGTTTGTATCCCAAACTACCTTGGCAGGTAG
TTTTAACTCTGATCCTAACTTAATAGCCATAGATTTTGTATACGTTGTGCACAAAATCCAACCAGAGCGC
AAGGGCTCTCTTGAAAGAAAAGTAGTTTCTGTACCAATTAAAGGATTGACGTGGTCTCAGATATTGATGCAAAAA
ATTTTCCAACGAACTCCGCATTGTCCATTAGTGAATGAATTCCTGTGACATCCTCCAGAGATGGCCCCCTCTCA
CCTGGGACGGAAGCTGCCAGCTCGCTTCCCCAAGCTGCCTCATGGCCCGCACGCCGCTCACGGCCCCCATGCT
TCCCGCCAGTCAAGATGGTCTGTGGACTTAGGGCCAGCCCTTGAGGTCTTATCCTCTGAGGATTACAGAGGTGC
CTGCGGAGTACCTTGTCCCAGGGCCAGACACACCCACACCCACTGTCTGAGTGGGGCCGGGGGCTCAGGA
GGGGCTCTCAGGGACTCCTGGTGACTCCAGGAAATGCTGCCATCGTTAAACATTACTTTCTTTCTCTCTTTT
CAAACTTTTTGATACTTTTTAGAGCAGGATTTTCTGTATGTGAACCTGGGTGGGGGGTCTTCCCGTTTCTCT
TCCGTGCGTGCCTCTCACCTGCAGTCAGTCCAGCCAGTGTAGGCCATCTCCTCTGTGCCCTCTGGTGGC
TCATTGTCTCAGAGCCAGACAGTTCCAGCCACTAGGAGGCCGTCTTGAACCAGCAAGTCGCATTGCCACTT
GACACTGTCCATGGGGTTTTATTAGTAGCTAAGCAGCAGCTCTCGCATCCACTTCAGGGTGGCGTGTGGCATGTA
GGAGTCTCTCTTTGTACATGGGAATTGTGGACTCATGCGTGTGTGTGTGTGCATGTGCTGTGTGTGTGCATG
TGTGCATGACGGTGGGGGTGCTGGGGGACGGGGTGAGTGAAACTTAGTTTGAGTAATGAAGGAATCTTCACAG

4010/5332
FIGURE 3492B

AAGCAATCAGAAATATGGGAATTTGTTTGCCCTTTTACATTTTGTTTAAATTCCTGATTTTAAAGCCTGCTCTATCT
 GTACAGGCCCTTATTTTTTTCAGCTTTTTATGGGAAAAGCAGGTTATTTGAGAATCTGTCCAGAAGTTCATAGGG
 GATGGCCTCCACGATAAGGACATGCAACACGTGTTCTGTGTGCAGCAGAGGCCGTGTTTTTCATGCCAAACCCC
 ACGCGGCTGTCAACTGTGTGCGTGGTAGGCATGGAGATCCTGGTTGTGCCGTCTCAGCTCCGCTCTGAAGGCAC
 GTGTGGGTGCTGCGTGAAGAGCTGTGTGGAGGCCATGTGTGCCCCGTGCAGGGATCAGGAGGGCGGGGGAG
 GGACCGAGCAGCCCTCTTGCCCGGTGCGGTGAGCCCTAGTGGCTGCCTGCACACTGTAGACGTCCAGGGCCTGT
 GCTGTGATCACCTGCCTTTGGACCACATTTGTGTTTGCTCTTAGAGATCGAGCTCCTCAGTGGTACCTGAAGCCT
 TTGCTTCCGAAAAGCGCGGTAGGGTTCGTAGGTAGGGCTAGTAGGTAGGGTTAGTAGGTAGGGCTAGTAGGTAGG
 GCTAGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTGGTAGGTAGGGTTAGTAGGTAGGGCTAGTAGGT
 AGGGTTAGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTAGTAGGTAGGGTTCGTAG
 GGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTAGTA
 GGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTAGTA
 GTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGG
 TTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTAGTAGGTAGGGCTAGTAGGTAGG
 GGGCTAGTAGGTAGGGTTCGTAGGTAGGGCTAGTAGGTAGGGCTAGTAGGTAGGGCTAGTAGGTAGGGCTAGTAG
 GTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGTTCGTAGGTAGGGCTAGTAG
 GTGCTTCCGTGTTCCCAAATCACAAGGGCCTGAAGGTGGTCCCTGCTTTCTCTTTCTCTTTCTCTGTTCTCAGAT
 GGCATTTTGTGACAGCTGCCAAGAAAATGCTTCACTCAACAGTCCCTCATGTGCCCAGAGATGTTTATAGAAT
 GTTTGAATTGCAGCCATCCCCTGCCCCCTCCAGGCTGAAGATCTGTTCTTTTAAAGTTGATTGCGGAGTGCCAT
 TCTTTATACCAAAGACTGTAGTGCATCTTGAAGAGCTCAAAGCACATGACCGCACAAATGCTTACAGGGTTTC
 CTCCCGAGTAATCCAATCTCACTCCCCTTTGTAAGGGAATTCTGGGGCAGCTATGGTTTGAGTATGCAGTTTGCAT
 CGTGGTTTCTAATTTTAGTACCTTGCCACTCTTTTAAACGCTGCTGTCAATTTCCCATTTCTTAGTACTAATGATT
 CTTTGATTCTCCCTCTATTATGTCTTAATTCACCTTTCCTTCCTAAATTTGTTATTTGCATATCAAATTCGTAAAT
 TGTTTTGTAAACATATTACCTCACTTGGTAATACAATACTGATAGTCTTTAAAAGATTTTTTTTATTGTTATCAAT
 AATAAATGTGAATCTTTAAAG

4011/5332
FIGURE 3493

AGGTCACCATGGCTGTTATTGGCTCCCTTGCTGTCCCCAGCTGTTCCCCAGGTCACCTCCCCACCTTGCTGCCTG
TGTCCAGAAGGCGTGACCGGTTCCAGTGGATCAGAAACCTGGTTCCAGAATTTGGAGTCTCCAGTTCTCACGTT
AGGGTGCTTTCTTCCCCGGCAGAGTTTTTCGAGCTCATGAAGGGGCAGATAAGAGTAGCCAAGAGGCGGGTCGTG
ATGGCATCCCTCTACCTGGGGACAGGTCCTTTGGAACAGGAGCTGGTGGACTGCCTGGAAAGTACTCTAGAAAAG
TCACTCCAAGCAAAGTTTTCTTCAAATCTCAAGGTCTCCATTCTCTTAGACTTCACGCGGGGCTCACGAGGCCGG
AAGAACTCCCGCACAAATGCTGCTCCCACTCCTGCGGAGGTTCCCAGAGCAGGTCCGAGTCTCCCTCTTTCACACG
CCGCACCTCCGTGGGCTGCTTCGGCTCCTCATCCCTGAGCGCTTCAACGAGACCATCGGCCTCCAGCACATTAAG
GTGTACCTCTTTCGACAACAGCGTCATCTTGAGCGGTGCAAACCTGAGTGAATCCTACTTCACCAACCGCCAGGAC
CGCTACGTGTTTCTGCAGGACTGTGCGGAGATTGCCGACTTCTTCACGGAGCTGGTGGACGCGGTGGGGGATGTG
TCCCTGCAGCTGCAGGGGGACGACACGGTGCAGGTGGTGGATGGGATGGTGCATCCTTACAAAGGGGACCGGGCC
GAGTACTGCAAGGCAGCCAATAAGAGGGTCATGGATGTGATCAACTCAGCCAGGACCCGCCAGCAGATGCTGCAT
GCCCAGACCTTCCACAGCAACTCTCTTTTGACCCAGGAAGATGCAGCAGCTGCTGGGGATCGCAGACCAGCCCT
GACACCTGGATTTATCCGCTGATTGAGATGAAGCCCTTCGAGATTCAAATCGATGAGATTGCTACTGAGACCCCTG
TTGACTGAGGCGGAGCGCGGGGCAAAGGTCTACCTCACCCTGGCTATTTCAACCTGACCCAGGCCTACATGGAC
CTGGTCTTGGGCACTCGGGCTGAGTACCAGATCCTGCTGGCCTCACCAGAGGTGAATGGCTTCTTTGGGGCCAAG
GGGGTGGCCGGGGCCATCCAGCGGCCTATGTGCACATCGAGCGACAGTTCTTCAGTGAGGTGTGCAGCCTGGGA
CAGCAGGAGCGGGTCCAGCTTCAGGAGTACTGGCGGAGGGGCTGGACGTTCCACGCCAAAGGCCTCTGGCTGTAC
CTGGCAGGGAGCAGCCTGCCCTGTCTCACGCTGATTGGCTCTCCTAATTTTGGGTACAGGTCAGTTCACCGGGAC
CTGGAGGCCAGATTGCGATCGTGACGGAGAACCAGGCCCTGCAGCAGCAGCTTCACCAGGAGCAAGAGCAGCTC
TACCTGAGGTCAGGTGTGGTGTCTCTGCCACCTTCGAGCAGCCGAGTCGCCAGGTGAAGCTGTGGGTGAAGATG
GTGACTCCACTGATCAAGAACTTCTTCTGAGGACAGACAGGAATGGCCTTGATGAAGATGACAGGCATGGCCGGG
GTCAGCTCTTTCAGCCGCGCTTCAGCGATGACTCCAGTCTGGGTGTCCCAGCGAGCCCCTGCAGGGACAGTATGG
CTGAGGGTCAGGTGTGCTGCCAGTAAGTGAGGGAGGGGCTGGCAGGAAGGGTGGGGTCTCACACTCCCCGCCCT
CTGCAGAGCTGGGCTCTACCCCAAAGGCTTCAGGCCAGCTGCCACGGCTGGAAGCAGAGGCCTTCGTAGGTGAT
GGCTGCTGATGTTGTAACCTACCCGCTCCGCTGGGCTCAAGGAACAGCTCAGCTAAAGCCCTCGGGTTCATCCGT
TTAAATCTGTGGCATTTCAGAGCCTCATCTGTGAGCCTTAATGTGAGTGGCAGGAAGTCATAACTCCAGCTAAA
AATTACAGAGTAAAGTTCCCTGATTCTTAATGTGTAATGTCTGCCCTATGTGTACATACACAATATAATTATACA
TCTGTGCATAT

4012/5332
FIGURE 3494A

AAGGCGGCCAAGATCATGATGGGCAAGGTGGACACCTTCCTAGACTCCCTGAAGAAGTTCGACAAGGAGCACATC
CCTGAGGCCTGCCTGAAGGCCTTCAAGCCCTACCAAGGCAACCCGACGTTTCGACCCCGAGTTTCATCCGCTCCAAG
TCCACGGCCGCCGCCGCCCTGTGCTCCTGGTGCATCAACATCGTCCGCTTCTACGAGGTCTACTGCGACGTGGCG
CCCAAGAGGCAGGCACTGGAGGAGGCTAATGCAGAGCTGGCAGAGGCACAAGAGAAGCTGTCCCGGATCAAAAAC
AAGATTGCCGAACCTTAACGCCAACCTGAGCAACCTAACCTCAGCGTTTGAAAAAGCAACAGCTGAGAAAATCAAG
TGTCAGCAAGAGGCCGATGCCACGAACAGGGTGATCTTACTGGCGAACAGGCTGGTCGGGGGATTAGCATCGGAA
AACATCCGCTGGGCTGAGTCTGTGGAGAACCTTCAGGAGCCAGGGGGTCACGCTGTGTGGGGACGTCTGTCTCATC
TCTGCCTTCGTGTCTTACGTGGGCTACTTCACCAAGAAATACCGGAATGAGCTGATGGAGAAATCTGGATCCCT
TACATACATAACTTAAAGGTCCCCATCCCGATCAGCAATGGCTGGATCCCTTGAGCCTGCTGACAGATGACGCG
GACGTGGCCACCTGGAACAACAGGGCCTCCCCAGCGACCGCATGTCCACCGAGAATGCCACCATCCTGGGCAAC
ACCGAGCGGTGGCCCTGATCGTGGACGCCAGCTCCAAGGAATCAAGTGGATCAAAAACAAATACAGGAGTGAA
CTGAAAGCCATCCGCTGGGACAGAAGAGCTACCTGGATGTATCGAGCAGGCCATCTCGGAAGGGGACACCTTG
CTCATTGAGAACATCGGCGAAAACCGTGGACCCCGTGTGGACCTCTACTGGGCAGGAACACGATTAAAAAGGGA
AAGTACATTAAGATCGGTGACAAGGAGGTGGAGTACCACCCCAAGTTCGCGCTGATCCTACACACCAAGTACTTC
AACCACACTACAAGCCAGAGATGCAGGCTCAGTGCACCTCATCAACTTCCTGGTCACCAGGGATGGACTCGAG
GACCAACTCTTGCCGCTGTGGTGGCCAAAGAGCGCCAGATCTGGAACAGCTGAAGGCAAACCTCACCAAGTCT
CAAAACGAATTTAAGATTGTTCTGAAAGAGCTGGAAGATTGCTCCTGGCCCGTCTGTGGCTGCGTGGGGAAC
TTTCTGGGAGACACGGCCTTGGTGGAGAATCTGGAGACCACCAAGCACACAGCCAGCGAGATCGAGGAGAAGGTG
GTGGAGGCAAAAATCACAGAAGTTAAATCAACGAAGCGAGAGAGAACTACCGCCCGGCTGCGGAGAGGGCATCT
CTGCTCTACTTCACTGAACGATCTCAACAAAATCAACCCCGTCTACCAGTTCTCCCTCAAGGCCCTTCAACGTG
GTGTTTGAGAAAGCCATCCAGAGGACCACCCCTGCCAACGAGGTGAAGCAGCGGGTGATCAACCTGACGGACGAG
ATCACCTACTCCGTCTACATGTACACGGCCCGGGGACTCTTCGAGAGGGACAAACTCATTTTCTGGCACAAGTT
ACGTTTCAGGTCTGTCCATGAAGAAGGAGCTGAACCCAGTGGAGCTGGATTTCTCTCTGCGGTTCCCTTTTAAG
GCCGGAGTGGTCTCACAGTGGACTTCTCCAGCATCAAGGCTGGGGCGGGATCAAGGCCCTCTCGGAGATGGAT
GAGTCAAAAATCTGGACAGTGACATCGAAGGATCTGCCAAGCGCTGGAAAAAGCTGGTGGAGTCGGAAGCCCCC
GAGAAGGAGATCTTCCCCAAGGAGTGAAGAACAAGACGGCCCTGCAGAAGCTGTGCATGGTGGCTGCCTGCGG
CCAGATCGCATGACCTACGCTATCAAGAACTTCGTGGAGGAAAAGATGGGCAGCAAGTTCGTGGAAGGCCGGAGT
GTGAGTTTTCTAAGTCTTACGAGGAGAGCAGCCCTCCACGTCAATCTTCTCATCTCTCCCCGGGGGTTGAC
CCCTTGAAAGAGCTGGAAGCCCTGGGAAAAAACTAGGGTTTACCATAGACAATGGAAACTCCATAATGTGTCC
CTGGGGCAGGGACAAGAGGTGGTGGCTGAGAAGCCCTGGACGTGGCTGCAGAGAAAGGACACTGGGTCAATCTG
CAGAATATCCACCTGGTGGCCCGGTGGTGGGAACACTGGACAAGAAGCTGGAGCACTACAGCAGGGGCAGCCAT
GAGGACTACCGGGTGTTCATCAGCGCGGAGCCTGCCCGGAGACCCCGAGACCCACATCATCCCCAGGGCATTCTG
GAGAACGCCATCAAGATCACCAACGAGCCCCCAGGGCATGCACGCCAAGTTGCACAAGGCCCTGGACCTGTTT
ACCCAGGACACCCTGGAGATGTGCACCAAGGAGATGGAGTTCAAGTGCAATGCTCTTCGCCCTGTGCTACTTCCAC
GCTGTGGTGGCAGAGAGGCGCAAGTTCGGCGCCAGGGCTGGAACCGGTCTGACCCCTCAACAACGGGGACCTC
ACCATCTCCATCAACGTGCTCTACAACCTACCTGGAGGCCAACCCCAAGGTGCCCTGGGACGATCTCCGCTACCTT
TTTGGTGAAATCATGTATGGCGGCCACATCACAGATGACTGGGACCGTGGCTGTGCAGGACCTACCTGGCTGAA
TACATCCGGACGGAGATGCTGGAGGGAGACGTCTGCTGGCCCCCGGCTTTCAGATCCCCCAACCTGGACTAC
AAGGGTTACCACGAATACATCGATGAGAACCTGCCCCCTGAGAGTCCCTATCTGTATGGCTGCACCCCAACGCA
GAGATTGGCTTTCTGACGGTCACCTCAGAGAAGCTGTTCCGCACTGTCTGGAAATGCAGCCAAAAGAGACGGAC
TCGGGGGCAGGCACGGGAGTGTCCCGGAGGAGAAGGTGAAGGCCGTGCTGGACGACATCCTGGAGAAGATTCCG
GAGACTTTCAACATGGCTGAGATCATGGCAAAGGCAGCGGAAAAGACCCCTACGTGGTAGTCGCCTTTCAAGAA
TGTGAAAGAATGAACATCCTGACCAACGAAATGCGCGGTTGCTCAAGGAGCTGAACCTGGGGCTGAAGGGAGAA
CTGACCATCACGACCGACGTGGAAGATCTGTCCACGGCTCTCTTCTATGACACCGTGCCTGATACGTGGGTGGCC
CGGGCCTACCCCTCCATGATGGGCTGGCGGCTGGTACGCAGACCTGCTGCTCCGCATCAGGGAACCTGAGGCC
TGGACGACAGACTTTGCCCTGCCACCACCGTGTGGCTGGCCGGCTTCTTCAACCCCCAGTCGTTCTCACGGCC
ATCATGCAGTCCATGGCCAGGAAGAAGAGTGGCCCTGGACAAGATGTGTCTGTCTGTGAGGTGACCAAGAAA
AACCGAGAGGACATGACCGCTCTCCGCGAGAGGGCTCTACGTGTACGGACTCTTCATGGAAGGGGCTCGCTGG

4013/5332
FIGURE 3494B

GACACCCAGACTGGAGTCATCGCTGAAGCGCGGCTGAAAGAGCTGACCCCGGCCATGCCTGTCATCTTCATCAAG
GCCATTCTGTGGACCGCATGGAGACCAAGAACATCTATGAGTGTCCCGTGTACAAAACACGCATCCGCGGCCCC
ACCTATGTCTGGACCTTTAACTTGAAGACCAAAGAGAAGGCAGCGAAGTGGATCCTGGCAGCCGTGGCGCTGCTC
CTACAGGTTTTAGCTCGCTCCTGCCTCACAGCCCACACTCCCTGGGGCTGGACCACAACCTCAGCCCTTCACCTGTG
CACCTGTGACTTATTCTTTACAGGAAC TGGTGGTGGTTTTTCGTTCTCTTAAATAATCAGGTGCTTTGTAACCAA
GCACATCGGAACCAGAGGGTGGAGGTTGGTGTGGAAGAGGTGGGGCAGATTAAAGCCAGTGGAGCCAC

4014/5332
FIGURE 3495

AGTCGAACCACAACATTTCGCCGGGCGGGCGGGCGGGAGCGGGCGGGAGCGGGCGGCAGCAGCGGTGAGCGCGA
GCCCCGGAGCCCCGGGGCGGCCCGCCTCCCGCGCCCGCGCAGCCCCGCGTCTGCGTCCGGCCGGAGACGCCGGGCC
CCGCGCCGCGCCGCGCCATGTCGGTGAACATGGACGAGCTGCGGCACCAGGTCATGATCAACCAGTTCGTGCTGG
CCGCGGGCTGCGCGGCCGACCAGGCGAAGCAGTTGCTGCGAGGCGGCCCACTGGCAGTTCGAGACCGCGCTGAGCA
CGTTCTTCCAAGAAACCAACATTCCCAACAGCCACCACCACCAGATGATGTGCACTCCAGCAACACCCCTG
CCACGCCGCCAACTTCCCCGATGCGCTGGCCATGTTCTCCAAGCTCCGCGCCTCCGAGGGCCTGCAGAGCAGCA
ACAGCCCCATGACAGCCGCAGCCTGCTCCCCACCTGCAAACCTTCAGCCCCCTTCTGGGCCTCGTCCCCGCCAGCC
ACCAGGCGCCCTGGATCCCGCCCTCCTCCCCACCACCTTCCACCACCTCCACCGCCACAGCCCACGTGGCCCC
CAGGAGCACAGCAGGGGGCGCCCAGCAGAAAGCCATGGCGGCCATGGACGGCCAGAGATTGAGACTGGACGCCGC
CGGGCGCTGGGCTGGAGCTGGGGGCGAGCCAGGGTTGTGGGGACACAGGAGGGCCAGGGAGGGGGAGCCGGGGA
GGGCAGGGGGTTTTCCCGAAGATCGCACTGGAAGATTTTATAAAAGAAATTTTGTGGGTGCGGGGGACAGTAAACT
TCCTGGGCCACGTGGGTCCCTTCAGGAGTTTTTTCAGGCAAGTTTTTCTCTGTTTTTAATATATAACTATAATATA
TATGAATAGATAAATATAACTAATGTGCGTGAGAATGGGCCTGGCACACCTGGGGTGCTCGGGGGTAGGGCTGCC
ATGCTGCAGAGCTGATGGAGTGATGTTGTGGGCACAAGGCATCTGTCAGCTGCCTCCTTTAACAGCCATGCCTTC
TGGAATCTGGAAGAGGACACCACTCCTGCAGTCACTGGGCAGCCACATAGCAGCTGCAGGTCCCAGGAGGGCCTG
AGGTCAAAGCTGTGGAAGGCCCTCTTGGTATCAGGGCTCTCTCCCATGGCCTCTTCCCCACCTCTGATTGCTGG
TTGTGGCCCCATAGCTCATCACCCCTGTCTCCTGCTGAATGTGCAGGGCTGATGTGGCACTGAGGAGCTGACTTT
GGTCAAAGGCCAGGCTCTGCCCAGCAGGGGACTTGACTGCCCTGGGCGCCCTGCCCTCCCGCTGCGTGTCCAGG
TCCAAAGTGAGAGCCTGCCTTTGGGTTTAGTTCCCGAATCAGAATCCCATCTCACCAGGGCGAAATTTAATTT
AAAACTTAAAAAGAGACTTTTCT

4015/5332
FIGURE 3496

CAGATGTAGTTTTTCCGCACGTGCACGCCTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCATATT
AGGGGCGAGCAGTGCTGCGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCCACGGCATTGAGCAGCAGCATTGCTGTAACCGACAAAGACACCTTCGAAT
TAAGCACATTACTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCCTGAGCAACGAGGTGTTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCATAGGTCTCTTAGATGACTACGTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTCTCCAGCGACAAGGCTAAGGCGGGCTCCTCCGAATGGCTGACT
GTGGATGGGTGGTTCAGTCCCTCCAACAACAGCAAGGAGGATGCCTTCTCTGGGACACATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGACTTTGGTGCCCTGTTGGGTATAGATGACCTGGAAACCATGCCAGATGACCTTTTG
ACCACGTTGGATGACACTTGTAATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGTGCCCCCCCAGATGGTG
AACCCAATTGGCCATCTCCAGAAAGTTTAAACAAAACCCGACCAGGTTGCCCCCTTCACTTCTTGCAACTTCTT
CCCCTTTCCCCAGGGGTCCAGTCCCTCCACTCCAGATCATTCCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATC
ACTGAAGAAGATAGGAAGCCGGAAGTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACC
CCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTGGGGTCTCCTCAGCATAGCCCCCTTACC
AGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCACCGCAAACCTTACGATCCT
CCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGCTGAAAAAATGGAGCAAAAC
AAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTCTCACTGGCGAGTGCAAAGAGCTG
GAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCAGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATA
GAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTGAGGGTAGGTCAGGAGTGTCAACGTGCTTGT
ACATAGAGTGTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

4016/5332
FIGURE 3497

CGAGGATCCGCTCGGGAGCCTCCCCTGGCCAGGAGCAGGGGATTAGTCTGCCCCGCGACCGGCCCCAGCCACGAC
GCGGACATCGCCCCCTCTGTCTGGGCCGCTGTCACTCACGCGCCAAAGGGCCACGGAGAAAGAAGGGGCGGGCCG
GGGCGGGCCGGGCGAGCGGAGGCGGGGACTTGCGCCGTCCTGAGGCTGCCTCCTAGGGTCCGGCCGGCGCTGGAG
CTGCGGATTTAGATTGTCACTGCCACCTCGGTGCGGTGCTTACTTCGCTGCCAGCTGGTCGTCGCCATGAACCCGG
ACCTGCGCAGGGAGCGGGATTCCGCCAGCTTCAACCCGGAGCTGCTTACACACATCCTGGACGGCAGCCCCGAGA
AAACCCGGCGCCCGCCGAGAGATCGAGAACATGATCCTGAACGACCCAGACTTCCAGCATGAGGACTTGAACCTCC
TCACTCGCAGCCAGCGTTATGAGGTGGCTGTGAGGAAAAGTGCCATCATGGTGAAGAAGATGAGGGAGTTTGGCA
TCGCTGACCCTGATGAAATTATGTGGTTTTAAAAATTTTGTGCACCGAGGGCGGCCTGAGCCTCTGGATCTTCACT
TGGGCATGTTTCTGCCACCTTGCTTCACCAGGCAACTGCGGAGCAGCAGGAGCGCTTCTTCATGCCCGCCTGGA
ACTTGGAGATCATTGGCACTTATGCCCAGACAGAGATGGGTTCATGGAACCTCACCTTCGAGGCTTGGAAACCACAG
CCACGTATGACCCTGAAACCCAGGAGTTCATTCTCAACAGTCCTACTGTGACCTCCATTAAATGGTGGCCTGGTG
GGCGTAAGTGAATTTTTCAGCATTTATTGGATGTTTTGAAGTTGGAAAGACTTCAAATCATGCAATAGTTCTTGC
CCAGCTCATCACTAAGGGGAAATGCTATGGATTACATGCCTTTATCGTACCTATTCTGTGAAATCGGGACCCATAA
GCCTTTGCCAGGAATTACCGTTGGTGACATCGGCCCCAAATTTGGTTATGATGAGATAGACAATGGCTACCTCAA
AATGGACAACCATCGTATTTCCAGAGAAAACATGCTGATGAAGTATGCCCAGGT

4017/5332
FIGURE 3498

GCGATGATTCCCCACAGGAGGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGGAGACT
CTGTCTTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATCATCCTTT
GAGAGCCGCCTTATGAAGCTGGAGAACTCCATCATCCCTGTGCACAAGCAGACGGAGAATCTGCAGCGGCTGCAG
GAGAATGTTGAGAAGACGCTGTCTGCCTGGACCATGTCATCAGCTACTACCATGTGGCCAGTGACACTGAGAAG
ATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGCATGGCCAAGATTGAGAAGGCAGTGGAG
TATTTCCAGGACAACAGCCCAGACAGCCCGAACTCAACAAAGTGAACTGCTCTTTGAGCGCGGGAAGGAGGCC
CTGGAGTCCGAATTTTCGACGCTGATGACGCGGCACAGTAAGGTCGTCTCGCCCGTGCTCATCTTGGATCTGATC
AGTGGTGACGATGATCTGGAGGCCAGGAGGACGTGACCCTGGAGCACCTGCCCGAGAGCGTGCTCCAGGATGTC
ATTGCGATCTCCCGCTGGCTGGTGGGAATATGGCCGCAACCAAGATTTTCATGAACGTCTACTACCAGATACGCTCC
AGCCAGCTGGACCGCTCCATCAAAGGACTGAAGGAGCATTTCATTAAGAGCAGTTCTTCTCTGGGGTTCCCTAC
TCCCCTGCTATCCCCAACAGAGGAAAGACACACCTACCAAGAAGCCAGTCAAGCGGCCAGGGACGATCCGTAAG
GCTCAGAACCTTCTGAAACAGTATTCCCAGCATGGTCTAGATGGGAAAAAGGGGGGCTCTAACCTCATTCTCTG
GAAGGGCTTCTTCCCTGTACCCCAAGGGGCGGCTGCCTGGCCCTGGATAAACGCTGCTTGTGTTTGTGCGGCC
GACATCTCGCCAGGTACGAGCATGATTTCCGAGTTAAGCACCTGTCCGAGGCCTTGAACGACAAGCACGGGCCG
CTGGCCGGGAGAGATGACATGCTGGACGTGGAGACCGATGCCTACATCCACTGCGTCAGTGCCCTTCGTCAAGCTG
GCGCAGAGCGAGTACCAGCTGCTGGCCGACATCATCCCCGAGCACCACCAGAAAGACCTTCGACTCCCTGATA
CAGGATGCCCTGGATGGGCTGATGCTTGAAGGGGAGAACATCGTGTCTGCTGCCCGGAAGGCCATTGTGCGACAC
GACTTCTCCACGGTGCTACCGTCTTCCCCATCCTGCGACACCTCAAGCAGACCAAGCCTGAGTTTGACCAGGTG
CTCCAGGGCACGGCTGCCAGCACAAGAACAAGCTGCCTGGCCTCATCATCCATGGAGACCATCGGTGCCAAA
GCGCTGGAGGACTTCGACAGACAACATCAAGAATGACCCGGACAAGGAGTACAACATGCCGAAGGACGGCACCCTA
CACGAGCTCACCAGCAATGCCATCCTCTTCTGACGAGCTTTTGACTTCCAGGAGACGGCAGGCGCCATGCTG
GCCTCCCAAGAGACCAGCTCTTCGGCCACCAGCTACAGCTCTGAGTTCAGCAAGCGGCTGCTAAGCACCTATATC
TGTAAGTGCTGGGCAACCTGCAGTTGAAGTGTGAGCAAGTCCAAGGTGTACGAGGACCCAGCTCTGAGCGCC
ATCTTCTGCACAACAATACTAATTACATCCTCAAGTCCCTGGAGAAGTCTGAAGTATCCAGCTGGTGGCAGTG
ACACAGAAGACTGTGAGCGCTCCTACCGGGAGCACATTGAGCAGCAGATCCAGACCTACCAGCGCAGCTGGTTA
AAGGTGACTGATTACATCGCAGAGAAGAATCTACCTGTGTTCCAGCCGGGAGTCAAGCTCCGGGACAAGGAGCGG
CAGATTATCAAGGAGCGTTTTAAGGGCTTCAATGATGGCCTCGAAGAAGTGTGCAAAATCCAGAAGGCCTGGGCT
ATTCCAGACACAGAGCAGAGGACAGGATTGCGCAGGCCCGAGAAGACCATTTGTCAAGGAGACCTACGGGGCCTTT
CTACAGAAGTTTGGCAGCGTGCCCTTACCAAGAACCCGGAGAGTACATCAAGTACGGGGTGAGCAGGTGGGC
GACATGATCGATCGCTTTTCGACACCTCTGCCCTGAGCCTGCTGCTAGCCCTGCCTGGTTCCACCAGACTGGCGT
GTCATTGGACAGATAAACAGTGTTAGCTTGCCCTCTGGGCTGGGTGAGCTTGAAGTCCTCTGGGACAGAGACCTG
TCTCCACGCCTCCGGGAGCTGTGTCCCTGAGCCCCCTAGTCTGGCTCCTGCTTTTTTCCCCACAGCCCGTGTCC
CAGCCGAACCAGCACTCTCCCGGAAGCCTGGGGTCCCTCCACACCTTGGCTTTTATGACCCTGATGGCTTCTGAA
ACAGGAAAAGAGAGAAGGAAGACAGAGGCCTGTGCCACTGCTGCTCCATGTGTACCAAGAGCAGCAGGGCAGAA
GGGCCCTCCCTCCAGCCTAGGTGAGAGGTGGGGACAGAGAACTCCCTTACAGCCAGAGATGTGGCAGGGCTCAG
AGAAGCAGCCAGAGCTCCTGGAGGAAAGGCAGTCGGGACTGACCCCTCTCTTAAACACATTCCCGCCCGCCA
CAGGCCTGAGGTCTGGGACCTTTCCCTCCAGGAGTCCCTAGGTGGCTGGGGGAGGCAGGCTCACTGGCCATTT
TCCCTAGAGTCCAGCACACTGCAGGAGGCGTTCGGAGGAGGAGTTCCGCCCCACCCTCTACAGCCTTCTCAGGC
CCCTGTCTCTGGCCCCAGCCTCAGTGCTCTTGGCCCAGGCCAGGCAGTCGTGGTTGCAGAAGGAGCAATTAG
GCTGCCTGCCTGTGGGCTGGGAGACAGGGACAATGGGGAAAAGTTAAGGAGCAAAATGGGGTTGGAAGCAAAAA
ATAGGGCCCCACCTATTTAGGACGAGATTGAAGACTGACCCCTTGAGGCACACTTGCACTGGAGATGGGTTTATTT
CACGCTCTGTGCTTGTGTGCTAGCGGAGGGAGAGCTCAGGGTGGCTTAATCCAGAGGCCCTGTCTAGGCCCGCCC
CCAGCCATGGGAAAGCAAACCTTCATCCTAAGGTGTGCAGCCAGGCCCTGCCCTTTACAGTCTAGGCCGCTGC
CATGGGGTGCAGCCTCTCCAGGGGCTGCGTCAGACTTGACGCTGCCACATCCAGATTCTGCAAGACGAATT
GGGTGCACAGCACCCCAACCACATACAGAGGAAGAAGATGCGGTGAGCAGTCTCAGGCCAGCTTCTCTGTGACC
CCTTTACTCTCTGAGGGGCTCTGTGGGGAGAGATACAGGGAAAGGAGCTGTTCTTCAAGGTCCCTCAACATGA
GCGGAAGAGCGAA

4018/5332
FIGURE 3499

CTTTGGCGCGTGAGTGACAGCGGCCAGACAGAGGGGGCGATGTCCGCGTCGTGGCTGGGGCCGGTCGCGGGGCA
GACTAATCCCCCTGCTCCTGGCCAGGGGAGGCTCCCGAGCGGATCCTCGGGAAAGGGGCTCCGAAGGTCAAGAAAC
TGCCCTGCTGGGCGTCCGGGGAGTGGGAAAATAAAGCACTTTTTGTATCCCGCCCCCTCCCCGTCACGTGACCAC
GCGAGGCGGAAAGAAGAAATCCGAGGACCGGCGACGCCTAGAACAGGAGCCCATGATGCTGCCCAAACCTGGGAC
CTATTACCTCCCCCTGGGAGGTTAGTGCAGGCCAAGTTCCTGATGGGAGCACGCTGAGAACATTTGGCAGGTTGTG
CCTCTATGACATGATTCACTCCAGAGTAACACTGATGGCTCAGCACGGATCCGATCAGCACCAGGTTCTTGTCTG
TACCAAGTTGGTGGAGCCCTTCCACGCCCAGGTGGGCTCCCTGTACATCGTCCTCGGGGAGCTCCAGCATCAGCA
GGACAGAGGCTCCGTGGTGAAGGCGCGCGTGCTGACCTGTGTGGAGGGGATGAACCTGCCCTTGTTGGAACAAGC
CATCCGGGAGCAGAGACTGTACAAGCAGGAGCGGGGCGGCAGCCAGTAGGAAACAGCAGCCTAGCAACACCCTCA
CCTGCTTCAGAGCCCCGAACCCTCTGGAGCTGCAGGAGCCCGGGAGAGCACAGACGCCTCCCCAGCGACGGCCTTG
TCTGGAGCTCGAAAGCCGAGGGGCGGGTGATGAATCCAGCCCCCTCCCCTACTTTGGGATTGGCTCAGCAATGAG
AACCCAGAAAGCATGCCATAAATCCGACAGCCCCACCCAGGAGACTGCAGGTGGCCGAGCTTGGGCGCCGGGGC
CGTGCTTGGTGTGGGGCCATGGAGGGTTCCAGAAGGTCCTGGTGAATAAAGGCCAGGGGGCGTGCTCTTG

4019/5332
FIGURE 3500A

GCTGACCAGCCAGTGAGGACGCCCGCTGCCTCCCACCTGCCCTCCTGCCGTCTTTCGCCAGCCAAGCCCAGCCTG
AGCCAGCACTTGCCTTTACGACCATGTTCAAGGGGCTGAGCAAAGGCTCCCAGGGGAAGGGGTCCCCAAGGGCT
CCCCCGCCAAGGGGTCCCCAAAGGCTCCCCAGCAGGCACAGCCGGGCTGCCACCCAGGAGCTGGCCCTTCTCA
TCTCCCGCATGCAAGCCAACGCCGACCAGGTGGAGCGGGACATCCTGGAGACGCAGAAGAGGCTGCAGCAGGACC
GGCTGAACAGTGAGCAGAGCCAGGCCCTGCAGCACCAGCAGGAGACGGGCCGCAGCCTGAAGGAGGCTGAGGTGC
TGCTCAAGGACCTCTTCTGGACGTGGACAAGGCCCGGGCGGCTCAAGCACCCGCAGGCTGAGGAGATTGAGAAGG
ACATCAAGCAGCTGCACGAGCGGGTGACCCAGGAGTGTGCGGAGTACCGTGCCCTGTACGAGAAATGTTGCTGC
CCCCGACGTGGGACCCAGGGTGCAGTGGGCACGCGTGCTGGAGCAGAAACAGAAGCAGGTCTGCGCAGGCCAGT
ACGGGCCCGGGCATGGCGGAGCTGGAGCAACAGATCGCCGAGCACAACATCCTGCAGAAGGAGATCGACGCCTATG
GGCAGCAGCTGCGGAGCCTCGTGGGGCCGGATGCAGCCACCATCCGGAGCCAATACCGAGACCTACTGAAGGCGG
CGTCGTGGCGCGGGCAGAGCCTGGGCAGCCTGTACACGCACCTCCAGGGCTGCACGCGGCAGCTGAGCGCCCTGG
CTGAGCAGCAGCGCCGCATCCTGCAGCAGGACTGGAGCGACCTCATGGCCGACCTGCGGGCGTGCGGGGGAGT
ACGAGCACTTCAAGCAGCACGAGCTGCTGAGCCAGGAGCAGAGCGTGAACCAGCTGGAGGACGACGGCGAGCGCA
TGGTGGAGCTGCGGCACCCCGCGGTGGGGCCCATCCAGGCCACCAGGAGGCCCTGAAGATGGAGTGGCAGAAT
TCCTGAACCTGTGTATCTGCCAGGAGACCCAGCTGCAGCACGTGGAGGACTACCGCCGGTTCCAGGAAGAGGCCG
ACTCAGTCAGCCAGACCTTGGCGAAGCTCAACTCCAATTGGATGCCAAGTACAGCCCTGCACCTGGGGGCCCCC
CTGGCGCCCCACAGAGCTGCTGCAACAGCTGGAGGCAGAGGAAAAACGGCTGGCCGTACCCGAGAGGGCCACTG
GGGACCTGCAGCGCGAAGCCGGGATGTGGCCCTCTGCCACAGCGAAGAAACCCCCCTCAGCAGCCCTGCACG
TGGACAGCATCTGCGACTGGGACTCAGNGNNAAGTGCAGCTGCTGCAGGGTGAGCGGTATAAGCTGGTAGATAACA
CTGACCCGCACGCCTGGGTGCTGCAGGGCCCTGGCGGGGAGACCAAGCGTGCTCCCGCCGCTGCTTCTGCATCC
CAGCACCAGACCTGATGCTGTGGCCAGGGCCCTCCGGCTGGCCTCAGAGCTGCAGGCCCTGAAGCAGAAATTGG
CCACAGTCCAGAGCCGCTGAAGGCCAGTGTGTGGAGTCTCTTCGGCCAGCCAGCAGGCTCCATCTGGCTCAG
ACCTGGCCAACCCACAGGCCCAGAAGCTCCTGACACAGATGACCCGGCTGGATGGAGACCTGGGACAGATAGAGA
GGCAGGTGCTGGCTGGGCGCGGGCCCCGCTGAGCCGCCCCACACCTTGGAGGACTTGGAGGGCCGCATCCACA
GCCATGAGGGCACAGCCCCAGCGCTGCAGAGCCTGGGAACGGAGAAGGAGACAGCCCAGAAGGAGTGCAGGGCGT
TTCTGTCCACGCGCCCCGTGGGCCCCGCTGCCCTGCAGCTGCCGTAGCCCTCAACAGCGTGAAGAACAAGTTCA
GTGACGTGCAGTTCTGTGCAGCCTCTACGGGGGAGAAAGCCAAGGCTGCCCTGGATCTGGAGCGGCAGATCCAGG
ATGCGGACAGGGTCATCCGAGGCTTCGAGGGCACCCTGGTGAGGAGGCCCCCATCCCTGCTGAACCGGGGGCTC
TGCAGGAGAGGGTCAGCGAGCTGCAGCGCCAGCGGAGCTGTGTTGAACAGCAGACCTGCGTGCTGCGGCTAC
ACCGCGCGCTGAAGGCCTCGGAGCACGCATGCGCTGCCCTGCAGAACAACTTCCAGGAGTTCTGCCAAGACCTGC
CTCGCCAGCAGCGCCAGGTGCGAGCCCTACCGACCGCTACCACGCGTAGGGGACCAGCTGGACCTGCAGGGAG
AAGGTGGTGCAGGATGCCGCCCTACCTACCAGCAGTTCAAGAACTGCAAGGATAACCTGAGCTCCTGGCTGGAG
CACCTGCCCGCAGCCAGGTGCGGCCCAGCGACGGCCCCAGCCAGATCGCCTACAAGCTGCAGGCGCAGAAGAGG
CTGACGCAGGAGATCCAGAGCCGAGAGCGGGACAGGGCCACAGCATCCACCTCTCCAGGCCCTGCAGGCAGCG
CTCCAGGACTATGAGCTCCAGGCAGACACCTACCGCTGCTCTTTGGAGCCCCACCCTGGCAGTGTGAGCCCCAAG
AGACCCCGAGTGGCTCCCCTGCAAGAGAGCATCCAAGCCCAGGAGAAGAACCTTGCAAAGGCCTATACTGAGGTT
GCAGCAGCACAGCAGCAGCTGCTCCAGCAGCTGGAGTTTGCTAGAAAAATGCTGGAGAAGAAGGAGCTCAGTGAG
GACATCCGAAGGACCCATGATGCAAAGCAGGGCTCCGAGAGCCCTGCCCAAGCAGGGAGAGAGTCAGAGGCCCTG
AAGGCCCAGCTGGAAGAGGAGAGGAAGCGGGTGGCCCGGTGCAGCATGAGCTGGAGGCGCAGAGGAGCCAACTG
CTGCAGCTGAGGACCCAGCGGCCCTTGGAGAGGCTGGAGGAGAAGGAAGTGGTAGAGTTCTACCGGGACCCCCAG
CTGGAGGGCAGCCTGTCCAGGGTGAAGGCCCAGGTGGAGGAGGAGGGCAAGCGCGGGCTGGCCTGCAGGCAGAC
CTGGAAGTGGCAGCCCAGAAGGTGCTGCAGCTGGAAGCAAGAGGAAGACCATGCAGCCTCATCTGCTGACCAAG
GAGGTACCCAGGTGGAGAGGGACCCCGGCTGGACAGCCAGGCGGCCAGCTCAGGATCCAGATCCAGCAGCTC
CGCGGGGAGGATGCCGTCTCTCGGCCGGCTGGAAGGGCTGAAGAAGGAGCTACTGGCCCTTGAGAAGAGGGAG
GTGGACGTGAAGGAGAAGGTGCTGGTGAAGAGGTAGTCAAGGTGGAGAAGAATCTGGAAATGGTCAAGGCAGCC
CAGGCTCTGAGGCTGCAGATGGAGGAGGATGCTGCGCGGAGGAAGCAGGCGGAGGAGGCTGTGGCCAAGCTACAG
GCTCGCATCGAAGACCTGGAGCGGGCTATCAGCTCGTGGAGCCCAAGGTATCGTGAAGGAGGTGAAGAAGGTG
GAGCAGGACCCAGGGCTCCTCCAGGAGTCTCCAGGCTGAGGAGCCTCTCGAGGAGGAGAGGACCAAGAACGCG

4020/5332
FIGURE 3500B

ACGCTGGCCAGGGAGCTGAGCGACCTGCACAGCAAGTACAGCGTGGTGGAGAAGCAGAGGCCCAAAGTGCAGCTC
CAGGAGCGCGTCCACGAGATCTTCCAGGTGGATCCGGAGACAGAGCAGGAGATCACTCGGCTCAAGGCCAAGCTG
CAGGAGATGGCGGGCAAGAGGAGCGGTGTGGAGAAGGAGGTGGAGAAGCTGCTGCCCGACCTGGAGGTCTTGC
GCCAGAAGCCACGGTGGAGTACAAGGAGGTGACCCAGGAGGTGGTGAGGCATGAGAGGAGCCCCGAGGTGCTG
CGTGAGATCGACCGCCTGAAGGCTCAGCTCAACGAGCTCGTCAACAGCCACGGGCGCTCCCAGGAGCAGCTCATC
CGCCTGCAGGGTGAGCGCGACGAGTGGAGGCGCGAGCGGGCCAAGGTGGAGACCAAGACGGTGAGCAAGGAGGTG
GTGCGCCACGAGAAGGACCCGGTGTGGAGAAAGAAGCAGAGCGGCTCCGCCAGGAGGTGCGGGAGGCGGCCAG
AAGAGGCGGGCCGCGGAGGACGCGGTGTACGAGCTGCAGAGCAAGCGCCTGCTGCTGGAGAGGAGGAAGCCGAG
GAGAAGGTGGTGGTGAGGAGGTGGTGGTCACCCAGAAGGACCCGAAGCTGCGCGAGGAGCACAGCCGGCTGAGC
GGGAGCCTGGATGAGGAGGTGGGCCGGCGGCCAGCTAGAGCTTGAGGTGCAGCAGCTGCGGGCCGGCGTGGAG
GAGCAGGAGGGCCTGCTCAGCTTCCAGGAGACCGCAGCAAGAAGCTGGCCGTGGAGAGGGAGCTGCGGCAGCTG
ACCTTGAGGATCCAGGAGCTCGAGAAGCGGCTCCACGGTGCAGGAGAAGATCATCATGGAGGAAGTGGTCAAG
CTGGAGAAGGACCCGGACCTGGAGAAGTCCACGGAAGCCCTGCGGTGGGACCTGGACCAGGAGAAGACCCAGGTA
ACCGAGCTGAATCGGGAGTGAAGAAGTGCAGGTCCAGATTGACGTCTCCAGAAAGCCAAATCGCAGGAGAAG
ACCATCTACAAGGAAGTGATCCGGGTGAGAAGGACCGGCTCTGGAAGATGAGCGGGCCCGCGTGTGGGAGATG
CTCAACAGGGAGCGCACGGCCGGCAGGCCCGGGAGGAGGAGGCACGGCGCCTGCGGAGCGCATTGACCGGGCC
GAGACGCTGGGGAGAAGCTGGTCCCGGAGGAGTCCGAGCTGCAGAGGGCCCGGACCAGGCCGACCAGGAGTGT
GGGCGGCTGCAGCAGGAGCTGGTCCCGGAGGAGTCCGAGCTGCAGAGGGCCCGGACCAGGCCGACCAGGAGTGT
GGGCGGCTGCAGCAGGAGCTGGTCCCGGAGGAGTCCGAGCTGCAGAGGGCCCGGACCAGGCCGACCAGGAGTGT
AAGCTGCTCAGCCAGAAGACGGAGAGCGAGACAGAAGCGGCCAGCGGGCCAGGAGCTCTCGCGGTGGAG
GCGGCCATCCTCCGCGAGAAGGACCAGATCTACGAGAAGGAGCGGACGCTCCGGGACCTCCACGCCAAGGTGAGC
CGGGAGGAGCTCAGCCAGGAGACCGAGCGGAGAGACCAACCTTCCACCAAGATCTCCATCCTGGAACCCGAG
ACGGGGAAGGACATGTCCCCATACGAGGCTTACAAGAGGGGCATCATCGACAGGGGCCAGTACTTGAGCTGCAG
GAGCTCGAGTGTGACTGGGAGGAGGTACCACTCGGGGCCCTGTGGGGAGGAGTCTGTGCTCCTGGACCGCAAG
AGCGGGAAGCAGTACTCCATCGAGGCCGCCCTCCGCTGCGGGCGCATCTCTAAGGAGGAGTACCATCTGTACAAG
GACGGCCACCTGCCCATCTCCGAGTTTGCCTGCTTGTAGCTGGGGAGACCAAGCCAAGCTCCTCACTCTCCATC
GGCTCTATCATCTCCAAGTCCCGCTCGCTCCCCGGCCCCCAGAGCACCAGTTTCTTCTCTCCAGCTTCTCT
CTCGGGCTCGGTGATGACAGCTTCCCTATCGCCGGGATCTATGACACAACCACAGACAACAAGTGAGCATCAAG
ACGGCCGTGGCCAAGAACATGCTGGACCCCATCACTGGGCAGAAGCTACTGGAGGGCCAGGCGCCACAGGGGGC
ATCGTGGACCTGCTCAGCCGTGAGCGCTACTCTGTGCACAAGGCGATGGAGAGGGGCTGATCGAGAACACCTCC
ACACAGAGGCTGCTTAACGCCCAGAAGGCCCTTACCGGCATCGAGGACCCCGTCACCAAGAAGAGGCTCTCGGTG
GGCGAGGCGCTCCAGAAGGGCTGGATGCCCCGGGAGAGCGTGCTCCACACCTGCAGGTGCAGCACCTGACCGGG
GGGCTCATCGACCCCAAGAGGACAGGCGCATCCCCATCCAGCAGGCCCTCCTCTCCGGGATGATCAGTGAAGAG
CTGGCCCAGCTCCTGCAGGACGAGTCCAGCTACGAGAAGGATTGACAGACCCCATCTCCAAGGAACGGCTGAGC
TACAAGGAGGCCATGGGCGCTGCCGCAAAGACCCCTGAGCGGCCCTGCTGCTCCTGCCAGCGGCACTGGAGGGG
TACCGCTGCTACCGCTCCGCTCCCCACCGTCCCGCGCTCCCTTCGCTGACACGGGCCAAGGAGCCAGTGGGGA
AGTGGCTGTGTTGGGCCAGGTAGGATACGTACACCTCTTGCTCAGAGCAGCTCATCCAGGCAGTGGGTCTTC
CCTCTGTCCAACCACTGTTTTATTATTTACTAACATGGTGATGGGCTCCCTCCCTAACCTTGGTGCTGATCC
ATCCCCAGACCAGGACAGCAGCCACTCAGTTCTTCTCCACCTCCACCCAGTGATCCCAATAAACGAATTCTGTC
TCCCCGTG

4021/5332
FIGURE 3501

ATGGCTGCTGAGAAGCAGGTCCCAGGCGGGCGGGCGGGCGGGCGGCAGTGGCGGCGGGCGGTGGCAGTGGCGGCGGC
GGTAGCGGCGGTGGACGTGGTGCCGGAGGGGAAGAAAATAAAGAAAACGAACGCCCTTCGGCCGGATCGAAGGCA
AACAAAGAATTTGGGGATAGCCTGAGTTTGGAGATTCTTCAGATTATTAAGGAATCCCAGCAGCAGCATGGTTTA
CGGCATGGAGATTTTCAGAGGTACAGGGGCTACTGTTCCCGTAGACAAAGACGTCTTCGAAAAACACTCAACTTC
AAGATGGGTAACAGACACAAATTCACAGGGAAGAAAGTGACTGAAGAGCTTCTGACCGATAATAGATACTTGCTT
CTGGTTCTGATGGATGCTGAAAGAGCCTGGAGCTACGCCATGCAGCTGAAACAGGAAGCCAACACTGAACCCCGA
AAACGGTTTCACTTGTTATCTCGCCTACGCAAAGCCGTGAAGCATGCAGAGGAATTGGAACGCTTGTGTGAGAGC
AATCGCGTGGATGCCAAGACCAAATTAGAGGCTCAGGCTTACACAGCTTACCTCTCAGGAATGCTACGTTTTGAA
CATCAAGAATGGAAAGCTGCCATTGAGGCTTTTAACAAATGCAAACTATCTATGAGAAGCTAGCCAGTGCTTTC
ACAGAGGAGCAGGCTGTGCTGTATAACCAACGTGTGGAAGAGATTTACCCAACATCCGCTATTGTGCATATAAT
ATTGGGGACCAGTCAGCCATCAATGAACTCATGCAGATGAGATTGAGGTCTGGGGGCACTGAGGGTCTCTTGCT
GAAAAATTGGAGGCTTTGATCACTCAGACTCGAGCCAAACAGGCAGCTACCATGAGTGAAGTGGAGTGGAGAGGG
AGAACGGTTCCAGTGAAGATTGACAAAGTGCGCATTTTCTTATTAGGACTGGCTGATAACGAAGCAGCTATTGTC
CAGGCTGAAAGCGAAGAACTAAGGAGCGCCTGTTTGAATCAATGCTCAGCGAGTGTCTGGGACGCCATCCAGGTG
GTTCTGGGAGGAGCTCAAGCCAGATCAGAAACAGAGAGATTATATCCTTGAAGGAGAGCCAGGGAAGGTGTCTAAT
CTTCAATACTTGCATAGCTACCTGACTTACATCAAGCTATCAACGGCAATCAAGCGTAATGAGAACATGGCCAAA
GGTCTGCAGAGGGCTCTGCTGCAGCAGCAGCCAGAGGATGACAGCAAGCGCTCACCCCGGCCCCAGGACCTGATC
CGACTCTATGACATCATCTTACAGAATCTGGTGGAATTGCTCCAGCTTCCTGGTTTAGAGGAAGACAAAGCCTTC
CAGAAAGAGATAGGCCTCAAGACTCTGGTGTTCAAAGCTTACAGGTGTTTTTTCATTGCTCAGTCCTATGTGCTG
GTGAAGAAGTGGAGCGAAGCCCTTGTCTGTATGACAGAGTCTGAAATATGCAAATGAAGTAAATTCTGATGCT
GGCGCCTTCAAGAACAGCCTAAAGGACCTGCCTGATGTGCAAGAGCTCATCACTCAAGTGCGGTGAGAGAAGTGC
TCCCTGCAGGCCGAGCCATCCTTGATGCAACGACGCTCATCAACAGAGACCTCCTCCTCCCAAGTCAAGGAC
AATAAGCCTCTGGTTGAACGGTTTGAGACATTCTGCCTGGACCCTTCCCTTGTACCAAGCAAGCCAACCTTGTG
CACTTCCCACCAGGCTTCCAGCCATTCCCTGCAAGCCTTTGTTCTTTGACCTGGCCCTCAACCATGTGGCTTTC
CCACCCCTTGAGGACAAGTTGGAACAGAAGACCAAGAGTGGCCTCACTGGATACATCAAGGGCATCTTTGGATT
AGGAGCTAA

4022/5332
FIGURE 3502

GGGACGTCAGCGGACGGGGCGCTCGCGGGCCGGGGCTGTATGGGGCTCCCGCGCGGGTCGTTCTTCTGGCTGCTG
CTCCTGCTCACGGCTGCCTGCTCGGGGCTCCTCTTTGCCCTGTACTTCTCGGCGGTGCAGCGGTACCCGGGGCCA
GCGGCCGGAGCCAGGGACACCACATCATTTGAAGCATTCTTTCAATCCAAGGCATCGAATTCTTGGACAGGAAAG
GGCCAGGCCTGCCGACACCTGCTTACCTGGCCATTGAGCGGCACCCCACTTCCGTGGCCTGTTCAATCTCTCC
ATTCCAGTGCTGCTGTGGGGGACCTCTTACCCCGAGCGCTCTGGGACCGCCTGAGCCAACACAAAGCCCCGTAT
GGCTGGCGGGGGCTCTCTACCAAGTCATCGCCTCACCCTGAGCCTTCTGAACGGCTCAGAGAGTGCCAAGCTG
TTTGCCCCGCCAGGGACACCCCTCCAAAGTGATCCGGTGTGCCGTGGTGGGCAACGGAGGCATTCTGAATGGG
TCCCGCCAGGGTCCCAACATCGATGCCCATGACTATGTATTGAGCTCAATGGAGCTGTGATCAAAGGCTTCGAG
CGGATGTGGGCACCAAGACTTCCTTCTATGGTTTCACTGTGAACACGATGAAGAACTCCCTCGTCTCCTACTGG
AATCTGGGCTTACCTCCGTGCCACAAGGACAGGACCTGCAGTATATCTTCATCCCTCAGACATCCGCGACTAT
GTGATGCTGAGATCGGCCATTCTGGGCGTGCTGTCCCTGAGGGCCTAGATAAAGGGGACAGGCCGCACGCCTAT
TTTGGACCAGAAGCCTCTGCCAGTAAATTCAAGCTGCTACATCCGGACTTCATCAGCTACCTGACAGAAAGGTTT
TTGAAATCAAAGTTGATTAACACACATTTTGGAGACCTATATATGCCTAGTACCGGGGCTCTCATGCTGCTGACA
GCTTTGCATACCTGTGACCAGGTCAGTGCCTATGGATTATCACAAAGCAACTACTGGAAATTTCCGACCCTAT
TTCGAACGAAAAATGAAGCCATTGATATTTATGCAAACACGATCTGTCCCTGGAAGCTGCCCTGTGGAGGGAC
CTGCACAAGGCCGGCATCCTTACGCTGTACCAGCGCTGACCCCAATGCACTGAGCCCTTTGCTTCTTCAAGAGTT
GCGGCCCTGATCCTCTCAAGTGGCCAAAAGCTTTTTTAATTTTCAATCTTACCTTCCCTTGCCAACAGAGGGC
ACTGGGGTGAATTCAAGATTTTCATCGAGGTCTGTTCAATATAGGACACCCAGCTTGTCTTGGCTCATCCAAG
AACTCTTCTGTATCTAAAACAATACATCTCAATCTTGCCAAGGGAAAATGGACTGCTTTGCTGGATTGGCACTG
AGCAACTTTAGGAAATGTCGGTGGAGTGTTCAGCAAGATCAGACAGCAGTCCAGGTCAAAGGCAAACACACACGC
TCCAGCCCAAATCCTCCTGGTGGCACATCCTACCCAGATGCTAAAGTGATTCAAGGACTCCAGGACACCTCTTA
AGAGCCTTTCTAAGAACATGATAGGCTTACTTCTGCTCCATAATAAAGTGGGAGAAAAAGCCAGAATATAACTT
AAGACTAGATAACTGCGTACATGATGGACCATTTTTTTTTTTTGGCTGGGTAGAGAAATCATATAAACGCAGG
CTGTTTAGCATGGAGATGACTCTCAGAACACTGGGAGGGTCTGGCACTTGATGGGGGTTAGTTGCTTGGCAGCCT
GCCTGCCACTGAGGGAAGTCCATTAGAGATGTATCACACCTTGTACCAACAGGATGATGTCACCAGGTAATA
AACCTTCATCCTCA

4023/5332
FIGURE 3503

AGACAAAGGGTGTGCACTTCCTGGCCAGGAAACCTGAGCGGTGAGACTCCCAGCTGCCTACATCAAGGCCCCAGG
ACATGCAGAACCTTCTCTAGAACCCGACCCACCACCATGAGGTCTGCCTGTGGAGATGCAGGCACCTGAGCCA
AGGCGTCCAGTGGTCCCTTGCTTCTGGCTGTCTGGTCTTCTTTCTCTTCGCCTTGCCCTCTTTTATTAAGGAGCC
TCAAACAAAGCCTTCCAGGCATCAACGCACAGAGAACATTAAAGAAAGGTCTCTACAGTCCCTGGCAAAGCCTAA
GTCCCAGGCACCCACAAGGGCAAGGAGGACAACCATCTATGCAGAGCCAGTGCCAGAGAACAATGCCCTCAACAC
ACAAACCCAGCCCAAGGCCCACACCACCGGAGACAGAGGAAAGGAGGCCAACAGGCACCGCCGGAGGAGCAGGA
CAAGGTGCCCCACACAGCACAGAGGGCAGCATGGAAGAGCCCAGAAAAAGAGAAAACCATGGTGAACACACTGTC
ACCCAGAGGGCAAGATGCAGGGATGGCCTCTGGCAGGACAGAGGCACAATCATGGAAGAGCCAGGACACAAAGAC
GACCCAAGGAAATGGGGGCCAGACCAGGAAGCTGACGGCCTCCAGGACGGTGTGAGAGAAGCACCAGGGCAAAGC
GGCAACCACAGCCAAGACGCTCATTCCAAAAGTCAGCACAGAATGCTGGCTCCCACAGGAGCAGTGTCAACAAG
GACGAGACAGAAAGGAGTGACCACAGCAGTCATCCCACCTAAGGAGAAGAAACCTCAGGCCACCCACCCCTGC
CCCTTTCCAGAGCCCCACGACGCAGAGAAACCAAAGACTGAAGGCCGCCAACTTCAAATCTGAGCCTCGGTGGGA
TTTTGAGGAAAAATACAGCTTCGAAATAGGAGGCCTTCAGACGACTTGCCCTGACTCTGTGAAGATCAAAGCCTC
CAAGTCGCTGTGGCTCCAGAAACTCTTTCTGCCAACCTCACTCTCTCTCTGGACTCCAGACACTTCAACCAGAG
TGAGTGGGACCGCTGGAACTTTGCACCACCTTTGGCTTCATGGAGCTCAACTACTCCTTGGTGCAGAAGGT
CGTGACACGCTTCCCTCCAGTGCCCCAGCAGCAGCTGCTCCTGGCCAGCCTCCCCGCTGGGAGCCTCCGGTGCAT
CACCTGTGCCGTGGTGGGCAACGGGGGCATCCTGAACAACCTCCACATGGGCCAGGAGATAGACAGTCACGACTA
CGTGTTCGATTGAGCGGAGCTCTCATTAAAGGCTACGAACAGGATGTGGGGACTCGGACATCCTTCTACGGCTT
TACCGCCTTCTCCCTGACCCAGTCACTCCTTATATTGGGCAATCGGGGTTTCAAGAACGTGCCTCTTGGGAAGGA
CGTCCGCTACTTGCACTTCTGGAAGGCACCCGGGACTATGAGTGGCTGGAAGCACTGCTTATGAATCAGACGGT
GATGTCAAAAAACCTTTTCTGGTTCAGGCACAGACCCAGGAAGCTTTTCGGGAAGCCCTGCACATGGACAGGTA
CCTGTTGCTGCACCCAGACTTCTCCGATACATGAAGAACAGGTTTCTGAGGTCTAAGACCCTGGATGGTGGCCA
CTGGAGGATATACCGCCCCACCACTGGGGCCCTCCTGCTGCTCACTGCCCTTCAGCTCTGTGACCAGGTGAGTGC
TTATGGCTTCATCACTGAGGGCCATGAGCGCTTTTCTGATCACTACTATGATACATCATGGAAGCGGCTGATCTT
TTACATAAACCATGACTTCAAGCTGGAGAGAGAAGTCTGGAAGCGGCTACACGATGAAGGGATAATCCGGCTGTA
CCAGCGTCTGTGGTCCCGAACTGCCAAAGCCAAGAACTGACCGGGGCCAGGGCTGCCATGGTCTCCTTGCTGCT
CCAAGGCACAGGATACAGTGGGAATCTTGAGACTCTTTGGCCATTTCCTATGGCTCAGACTAAGCTCCAAGCCCT
TCAGGAGTTCCAAGGGAACACTTGAACCATGGACAAGACTCTCTCAAGATGGCAAATGGCTAATTGAGGTTCTGA
AGTTCTTCAGTACATTGCTGTAGGTCTGAGGCCAGGGATTTTAAATTAATGGGGTGATGGGTGGCCAATACCA
CAATTCTGCTGAAAAACACTCTTCCAGTCCAAAAGCTTCTTGATACAGAAAAAGAGCCTGGATTTACAGAAAC
ATATAGATCTGGTTTGAATTCCAGATCGAGTTTACAGTTGTGAAATCTTGAAGGTATTACTTAACCTCACTACAG
ATTGTCTAGAAGACCTTTCTAGGAGTTATCTGATTCTAGAAGGTCTATACTTGTCTTGAAGCTATTTG
ACAACTCTACGTGTTGTAGAAAACCTGATAATAATACAAATGATTGTTGTCCATGGAAAGGCAAATAAATTTCTA
CAGTG

4024/5332
FIGURE 3504

ATGGAGGCGCCGGCCGAGCTACTGGCCGCGCTGCCTGCGCTGGCCACCGCGCTGGCCCTTCTGCTCGCCTGGCTA
CTGCCTGGAGAGCCCGCGGGGCTGGGGGAGCTCGGGGAGCCTGCGGGACCGGGGAGCCCGAAGGGCCAGGGGAT
CCCGCGGCGGCGCCAGCGGAGGCGGAGGAGCAGGCGGTGGAGGCGAGGCAGGTACGCACCGGGGCCCTCGCGGCC
CCCTCCCCACCCCCGGGGCTCCGGCTGCCGCTGCCGTTCCCCGCCGAGCCAGGGAGCGGGGCCGCGGCCTCCAGC
CCAGGCTGCCCCCAGGAAGCGCAGAACCCGCGGCCCGCAGGAAATGCAGGTAAGCTGGGCCTGGATGGAGTGAAG
ATGCAGGATAAAGCCCTCCTGGAGCACCATGTGGTCCTTTTTGATGGCAGTGTGGTCCTTTTTGATGGCAGTGTG
GTCCTTTTTGATGGCAGTGTGGTCCTTTGTGATGGCAGTGTGGGCCTCTGTGACGGCAGCGTGGGCCTCTGTGAC
GGCAGCGTGGGCCTCTGTGATGGCAGAGTGGGCCTCTGTGATGGCAGCGTGGTCCTTTGTGATGGCAGCGTGGGC
CTCTGTGACGGCAGCGTGGGCCTCTGTGACGGCAGCGTGGGCCTCTGTGATGGCAGAGCTCTCCAGCAACCAGC
ATGACCTTCCTAGCGCAGAGAGCACACCCCCGGCCCCCTGCTCACAGCCCTCCGCGTGCAATCCAAACTTCCCA
CAGCCCCAGGAAATGATCCTGGTCGCACCCACCATGGCACAGCTGCCTGATGGTGGGGAGGACTCAGACCATGAG
ACCCTGGAGAGATTGCCTTTGGCTGGCCGCACCTTCACGGATTCAATCAACGCTGAGCTGAAGGCCAGGGCAGGC
GCTGCCACAGGGCGTGGGCAGGCTGGACCTTCGAGGGCCTCCTCTGTCTCCCTACCTTCTGCCCCCCCACCACT
TCCCATCACCCAGTCTGTGCCAAGGGCACTGACCCTGTCTTGTCTTGCAAGGAAGAGGAGCAGGACTTGGATGGT
GAGAAGGGGCCATCATCGGAAGGGCCTGAGGAGGAGGACGGAGAAGGCTTCTCCTTCAAATACAGCCCCGGGAAG
CTGAGGGGAAACCAGTACAAGAAGATGATGACCAAAGAGGAGCTGGAGGAGGAGCAGAGAGTTCAGAAGGAACAG
CTGGCTGCCATCTTCAAGCTCATGAAAGACAACAAGGAGACGTTTGGCGAGATGTCCGACGGCGACGTGCAGGAG
CAGCTCCGGCTCTACGACATGTAG

4025/5332
FIGURE 3505A

GCGGCCGCTTGCCCAACCCGAGGCTCGGGAGGTGGCTGGGGAGTGAATTTCTGGAAGGCGACTTTAAAGGCGCC
GGGACTGAGCGAAGGGCGTTTGGGTACTGCCGTGCGCGCCGCCAGGCCGGGAGGGGTGCGTTAGTGTCAGGAA
GCGGGCTGCGCCGAGGTCTAGCGGAACACAGCTGGCGACCCCGCAGAAATGAACCACAAGAGCAAGAAGCGCATCC
GCGAGGCCAAGCGGAGTGC CGCGCCGGAGCTCAAGGACTCGCTGGATTGGACCCGGCACAACACTACTACGAGAGCT
TCTCGCTGAGCCCGCGCGCCGTGGCGGATAACGTGGAAAGGGCAGATGCTTTACAGCTGTCTGTGGAAGAATTTG
TGGAGCGGTATGAAAGACCTTACAAGCCCGTGGTTTTTGTGAATGCGCAAGAGGGCTGGTCTGCGCAGGAGAAAT
GGACTCTGGAGCGCCTAAAAAGGAAATATCGGAACCAGAAGTTCAAGTGTGGTGAGGATAACGATGGCTACTCAG
TGAAGATGAAGATGAAATACTACATCGAGTACATGGAGAGCACTCGAGATGATAGTCCCCTTTACATCTTTGACA
GCAGCTATGGTGAACACCCTAAAAAGAGGAAACTTTTGAAGACTACAAGGTGCCAAAGTTTTTCACTGATGACC
TTTTCCAGTATGCTGGGGAGAAAGCGCAGGCCCTTTACAGGTGGTTTGTGATGGGGCCACCACGCTCCGGAACCTG
GGATTCACATCGACCTCTGGGAACAGTGCCTGGAATGCCTTAGTTCAGGGCCACAAGCGCTGGTGCCTGTTTC
CTACCAGCACTCCAGGGAACCTCATCAAAGTGACCCGAGACGAAGGAGGGAACCAGCAAGACGAAGCTATTACCT
GGTTTAATGTTATTTATCCCCGGACACAGCTTCCAACCTGGCCACCTGAATTCAAACCCCTGGAATCTTACAAA
AACCAGGAGAGACTGTCTTTGTACCAGGAGGCTGGTGGCATGTTGTCCTCAATCTCGACACTACTATCGCCATCA
CCCAAAATTTTGCCAGCAGCACCAACTTCCCTGTGGTATGGCACAAGACGGTAAGAGGGAGACCAAGTTATCAA
GGAAATGGTATAGGATTTTGAAGCAAGAGCACCCGAGTTGGCAGTCTCGCAGACTCGGTTGACCTTCAGGAGT
CCACAGGGATAGCTTCCGACAGCTCCAGCGACTCTTCCAGCTCCTCCAGCTCCAGTTCGTCAGACTCCGACTCAG
AGTGCAGTCTGGATCCGAGGGCGATGGGACAGTGCACCGCAGGAAGAAGAGGAGGACGTGCAGCATGGTGGGAA
ACGGGGACACCCTCCAGGACGACTGTGTGACGCAAGAGCGCAGCTCCTCCAGGATTAGGGACACTTGTGGAG
GCCGGGCTCACCCCTGAGCAGATAAAGAGACTCTCCCTGAGGTGCTTTACGCGTAAGCTTTTGGCAGCCACCCAA
CTCAGTTCTCGCATCTTCTGCTCCTACCTTCTCCTCTGTCTTCTTGAATTTGGATATTCCTTCCCTGGTCCAAG
CTCCTATCTTGGTCAAATGCTGTTTTTACTGCTTCTTAAGGATAGATTATCAAGAAATTTAACAGCTCGGCCAG
CTCAGTGAACACTGAAGCTAATGGGATGTTGGGTAAGAAGTTCTGTGCTGTCTCATTGAAAACCGAGCCAGTC
AACCACAAGGCTGGCAGGGGTGTGATCCTTGTAACGTCTTGTGTCTGTTACCTCACGGATGTCGGTAAGGAGTTTC
CACAGAGCCAGCTGTGTACCACAGAGACTGAGAGTGGTGGTGGACTTTGTGAGCCAATTATGTGTGCGAAGGAC
TTGGAGTCTGCCCTTCTTCTGTATGTATCATCAGCCACAAATGCATTCACTGGCAGTGACCCAGCACCATCA
CCATCACCCACTGCTCAGTCTGTCTTAGGATTCTTATCTTTTCTCCATCATCATAGAGACTGAAATTCAGGG
GTGTTTTTGTACAGTGATTTTTTTGTGGGGGGGTGATACATTGGGGTTTTTTGTTTGCATAGAGTGGAACGGT
GTGCAATGTGCTCTTACCACAGAACTTAAAGTATGAATAGGCTCCATTCTTCCGCACCATGGGATCCATAAGAAG
TGCTCACTTTGCGAGGTACTCTGAGATTAGCGTTCCCATTTGTTTGACCTACAGACGTTAAGTGGGTGACTTGT
GTTACACACGGGGAGTAAATTCAGAGATGGCACCTGTAGTCTTTGCAGTCTGTTGATACTTCTAAATAACTAACT
GGATGACTTTTTTGGGGATTGACCAGCAGATGCCATCTCTTGCCCTCTTGATTACCTGCTTGCCTTAATTTGTCC
CTAAATTCAACTAACTTCAATAAGAGGGGTGTCAAGGCCATGGGGCGCACTTGGAAGCACTGCCTGGGCTGGA
GCGTTGGAGGCATTGGCAGGCAGGTGGGAAGGAGCTCTCACTGCAGTGTTACAGGCAGGGAGGCTGTGTGTGGA
TGTGTTAGAATTGTGTGCTGTTGCCTCTCAAAATATCCACTAGAAACAGGTGTAACCAGGAAAATACAGGTCTCT
GCTCACTGTTATTAACAGACTGTCAATTCCTGACATTGGGTCATGTGGCTTTACTCTAGGAGGCTGGTTCTCTAT
TTTTGTCTTAGTTCAATTTTCTGCATCCTCAAATGCCAACCCCACTATGTGGCTGGGTAGGTAGAACTGTGTCTGC
CTGCCTGCCATGGGGGCTGCTCTCCCTCCTTACCCCCACGCCACAGCCCCCTTGGTTCTGTGGTGGGCACAGGA
TGTGTTTGGGTGTGAGTAAAGTCAAACCTGTAATGTATAATCTCTTGGTAGTAATATCTGAGTGGTGTGCTACT
CCTGCTTTTTAAAAAGACTTTTTCTTGCCATCTATAAAAAAGCTTTTTTCTTTTTCCAGCATTGCTCCTGTGTCTGC
CACGCTTGCCCTTTTTCTTACCTTCTTTCAGTTTTCTATCAACAACCTCCTCTAACTTCAGTTTAAAAATAAAA
AACAGCCCCAAAAGGCTCTTTGCCACCAGGGGGCGTGGTAGGACACGTTGCCAGTGGTCTGGATAGGGGAGCAGA
AATTTTGAATTTTAAAAATTAGCCACCAAGGCCAGGTGCAGTGGCTCACACCTGTAATCCAGCACTTTGGGAAG
CTGAGGCAGGGGGATTGCTTGAGTCCAGGAGTTCAAGACCAGTCTGGGCAACATAGTGAGATCCCATCTCTCAA
AAAAATAAATCTAGAAAAATAAGATTAGCCACCCAGTTTCTTTCTCCAGATGCTAAAGTTGATTCTCTGTTGA
TAACAGTATTCCAGAAATGAGGGGAATAACATCTGATAGGCCCAAGTCAGCTCTGGATAGTACAGTGTCTGGA
TAGTACAGATTCTGTGCTCCTGGGACATGCTTTGTTATTCTTCCAGGCCAGGGATTACAGCAGCCCTATTCCCC
AACCCCCGTTACTGTCTCTGTGGGCTAGCCAGGCTGTCCGTTATGTAAGCACACAGGGGCAAGGTGGGGAAACC

4026/5332
FIGURE 3505B

GTGTGTGGAAAAGGAGTGGAGTGGTGGCGGGTGGCCAAGGTAGACTAGGAAGAGTGGGTACCCAGAGACCACTTG
TTCAGAAAGTTAACTCCTCTTCCCATCTGGCGTGAGCTACTCCATTGAATGGTGCCAACAACAGTAAAGTGAAGGA
GATAATGTTAGATTATTTTCAGGGATGATTCTCCAAGATGACAGCAGATCTTAAAACCAAAGAGCTGGGTCCTGG
AAGAAGGGATCTTGGATTATTAACCTTCTGATGGAAGGACCAGAGTGGGAGAGAGAAGAGTTGGGGACCTAGAACA
TCAGGAGGACCCTGGGTCTTTGGGGATGAGGCTTCACCATCAGCTGGAAGAATCCATGCTTCACACACATGCCTC
TGCCATTAGTGGTACTGGGATGTTTAGGGTGACATCCTTGAGGGGAGAGCCACTGAAAAGAGGGACATTCACATT
TTGCTGTATTCTTGCAGCTGTCCGTGTCTTAATAATTCAAGCGTTCAATAGGTGTTTGAGGGCCAGGCACTGCTC
TTGAGGTGCTGGAGATAACGGTGACAAGCCAGGTCCCTGACAAGCTCCACAAGCTTAATGGACAGTGAATGTGC
GGCTGTTGCGGCTGTTTACAGGGCCGCTGGTGAGGGCAGGTAGAAGAAAGTGCAGACCTTCTTAAATGCAGGTGT
AACGGATCTACATGAAAGAGCATAATTAACACCAATGTATACTTAAGGTAGTAACAGCTTCTTCATAAAGTAGCA
AAACTAAGGATCTGTGGGAAGGTTGCTGGTGCAAATGCTTTATAAGCTTACTAGAGACTGAGCCTTGGATTTAGG
ACTTTAGACGAGTATAGGATGGAACAAAATTTTTCAGTAAATGTAAAAAATGCTGTGTAGGAGGAAGGCGTATA
AGGATGCCCCAGCTGTAGGTTCTTTAGATTGTCTGTAGTATTTCCACGAGTAAGTTGTTTTGATGTGTGTACTG
GTATTGCTGGTAGATTTGAAGTGGAGTCTGGCGGCTTCTTCCACACTCCCCTCCCCTAGCTTGTGTCAAGATGT
GACATCCTATGCAGCAAACTAGGTGAGCTTGACCCCCAGGCGGTGGCTCTCAACTTTGTCTCATTGTTTCAGAA
ATTTTCGGCCAGGCGCCGTAGCTCACCCTGTAAATCCCAGCACTTTGGGAGGCCATGGCAGGTGGATCACTTGAGG
TCAGGAGTTCAAGACCAGCCTGGCCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGT
GGTGGCACATGCCTGTAGTCCCAGCTACTTGGTCAACTCAGGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGT
TGCAGTGAGCTGAGATCAAGCCACTCCAGCCTGGGTGACAGACCGAGACTCTGTCTTTAAAAAAGAAATGTC
ATCTAAGCCCCAGTGAACCTCCTGGGAGGAGAGCTAGCCCTGGCCAGCTGTCTCCAAAGTGACTGGATGCTACAG
AAGAACTGGGACTGTCTTCTGCACACTCGTGCCTCCTGGAGTTGTCAGAACTGAGCAGTCTCCTAGTTCTGCG
TCCGTCTAGCCATGGGGTCTGCCATGAAAGCCTGTGGATCTGCTATTGGGTGGTATTTAAACTTTCACTTGGG
TGAAACTTGTTTCATCATTTTTAAATAAAGCAACATGATTTGG

4027/5332
FIGURE 3506

CAGCCGCCCCGTTGCCAGTTCTGCGCGTGTGAGTCTCTTTTCGCCTTGCTCCGGGCTTTCTTCGCTCGCAGCGCGGC
AGGGTTATCACCAGATCTGGGCTTTCCCTTCTTGCCGTCAGGTGCTACGGCCACGTGGCCCGCGGCTTCCCGCT
CGCGCAGTCTGGCAGCCCCGAGCCTTCCGCGGTCCCCCGCCCGGGGCCCCAACGACGCCCTACTGGGCGAGC
ACGATTTCCGAGGACAGGGGGTCCGGGCCCAGCGCTTTCGATTCTCGGAGGAGCCGGGTCCGGGGCCGACGGGG
CTGTCTTGAGGTCCACGTCCCGCAGGTGCGTGCAGCAGCACCCGCCAGGAGGCGCTGAGGTCTGCATCTCCA
GTATGGAATGTATGTTTGGCCCTGTGCTGTGGTCCTGGCCAGTACCTTTGGTTTCACAGAGATCTCTGCCAGG
CAAGGCCATCTTAGAGATTGGAGCTGGAGTGAGCCTTCCAGGAATTTGGCTGCCAAATGTGGTGCAGAAAGTAAT
ACTGTCAGACAGCTCAGAACTGCCTCACTGTCTGGAAGTCTGTGCGCAAAGCTGCCAAATGAATAACCTGCCACA
TCTGCAGGTGGTAGGACTAACATGGGGTCATATATCTTGGGATCTTCTGGCTCTACCACCACAAGATATTATCCT
TGCATCTGATGTGTTCTTTGAACCAGAAGATTTTGAAGACATTTTGGCTACAATATATTTTTTATGCACAAGAA
TCCCAAGGTCCAATTGTGGTCTACTTATCAAGTTAGGAGTGCTGACTGGTCACTTGAAGCTTTACTCTACAAATG
GGATATGAAATGTGTCCACATTCTCTTGAGTCTTTTGATGCAGACAAAGAAGATATAGCAGAATCTACCCTTCC
AGGAAGACATACAGTTGAAATGCTGGTCATTTCCCTTTGCAAAGGACAGTCTCTGAATTATACCTACAACCTGTTT
TGGGACAGTATCAATACTGATGAGCAACCTGGCACACAACTATGAGCAGACCACTTCAGCTTGAGAATGCAGTG
GGTCTGAAGATGGTCAAGTCTGTTTGCCTTAGATTTTGATGTCACCTAGACAACACTTAAACTCATATGAAACAA
AAATTAAATACGTATTACAAGT

4028/5332
FIGURE 3507

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGCAAGGCCCTTTCCCAGTGTCCACGCGGAAGGCAACTGC
CTGAGAGGCGCGGCGTTCGACCGCCAGAGCTGAGGAAGCCGGCGCCAGTTTCGCGGGGCTCCGGGCCGCACTCA
GAGCTATGAGCTACGGCCGCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACGGGCGCGTTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTTCGCTTTCACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAATGGCGCGCTACGGCCGCCCCCGGACTCAC
ACCACAGCCCGGGGACCGCCACCCGCGAGGTACGGGGCGGTGGCTACGGACGCGGAGCCGCGAGCCCTAGGC
GGCGTCGCGCGAGCCGATCCCGGAGTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTTCGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCT
CGTCGGTCTCCAGATCTCGTTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTTCGCGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCTTAAGAAA
ATGATGTATCGGCAAGCAGTGTAACGAGGAGTCTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACTTTGTCTAACTTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTATGTGCCATTTTGTGCTGTTATTCAAATTTCTTGTAAATTTAGTGAGGTGAACGAC
TTCAGATTTTCATTATTGGATTGGATATTTGAGGTAAAATTTTCATTTTGTATATAGTGCTGACTTTTTTTGTTT
GAAATTAAACAGATTGGTAACCTAATTTGTGGCCTCCTGACTTTTAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTGCCTTCATTCTTAAAAATTAAAAACCTACAAAAGTTGGTGTAAA
TTTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAA
AGACTTGATTTTTTGAAGGATTGTTTATCAAACACAATTCTAATCTCTTCTTATGTATTTTTGTGCACTAGG
CGCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTTCAGTGCAGAGTGCTTGGCTGTT
TCCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCGTGCAGAAACAAATGGCTGTCCAGTTTATTAAA
ATGCCTGACAACTGCACTTCCAGTCAACCGGGCCTTGCAATATAAATAACGGAGCATACAGTGAGCACATCTAGCT
GATGATAAATACACCTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACTTA
ACATGGAAAATGTTAAGGAAGCAAATGGTTGTAACCTTGTAAAGTACTTATAACATGGTGTATCTTTTTGCTTATG
AATATTCTGTATTATAACCATTTGTTTCTGTAGTTTAATTAAAAACATTTTCTTGGTGTAGCTTT

4029/5332
FIGURE 3508

CTTGGA~~CTT~~TGGACCTTCGTGCGGATCTGGACTTGGAGGTGACCGAGATCGAGAACGAGTGCGGGACCGAGACTT
CGAGCGGCTGTAGCGAGATCGGCTGCGAGACCTGGAACGGCTCCGACTCCGGGATCGGCTGCGGCGACGCCGCCT
AGGGCTGCGGGCGGGACGAGCAAGCACAGCGGGGTTAATTCCAGGCAGCGGGGCCGGCCCCGCCGCGCNCNTNC
CCGCCCAGGCCGCCATTATCTGCGCGCCAGACGCCATTTCCCCAGTCGCGAGGCGGGGTCTCCGCCCCGCGCCG
CCCACACCCCGGCCACTCCCGGGTTCGAGACGGCGGAAGCTCGCGGGGTGGCCGGAGGGTCGCGAGACGCGGCGT
GCACCCCCGCCCCNGNTNCCGGGCCCCGACACGTGCTTCGCCGCGGACCTTTGTGAGGTGCCCCGGGCCTCCCG
CGCGCCCCGCCCCGCTCCCGGGTCCCCTCAGCCCCGTTTACCTGCGGCTCCGGCGTCCGTAGCCACCGCCCCC
GTACCTGCGGGGTGGCGGTCCCCGGCGGCTGTGGTGTGAGTCCGGGGGGCGCCGTAGCGCGCCATTTGCACCCG
CAGCTCGCGGCCGTCCAGCACGGCCCCGTCCATGGCATCCATAGCGTCTCAGCGTCGCGCTTGTCTGTAAAGCG
AACGAAGGCGAAGCCGCGGGACTCCTTGGTGTAGCGATCCCGCGGGATGTACACGTGCGCGACGCGCCCGTACTT
CTCGAAGACGCGCCTCAGCGTGTGCGGCGAGGTGCGGTAGGTGAGTTGTCCACCTTGAGGGAGGTATACCCCTC
CACATCGGGAGGGGGGCGCCGTAGCTCATAGCTCTGAGTGGCGGCCCGAGCCCCGCGAACTGGCGCCGGCTTC
CTCAGCTCTGGGCGGTGCGACGCCGCGCCTCTCAGGCAGTTGCCTTCCGCGTGGGGACACTGGGAAAGGCCTTGC
CGCAGAACAGCACGGACGGGCTCCGCAGGCTAGCGCACCTGAGTAACAACCTGGGCGGGCAGCCGGCCTCTGCGCC
CGTTTATATCGCTCTCACA~~AA~~AATGGCGCCCGCGCCACCCGGA~~AA~~ATGAAACCTTCTGATTGGCCCCACCGCGCCCC
GCTTCGTAACGACCTGCCGCGCGCCCCGCCCTACCCGAAGCGCTGCGCACAGCCGGCGGGCGGGCCAAAAA
GCGCGGAGTCACGGCTGGAGGGAGGGGGAGCGGAATTAGCGGGCAGTTGGAAAGCCCGCGAAACGCTTTTCCGC
CTGGGAGGCCGACGATCGCGATTGGGCAGGAGNNAAGAGGAGGTGCTCCCCATCTGGGCCCCACCTTTTTTT
CATGCCAATACTCCAAGTTCACGCCCCTTTTTTGCTCAGCCGTGAGCCCCGTCTCCGTCTGAAGAGTGCTTCTGC
CCTCATTTGCCTCTCCCTGTGACCCCCGGCCCCCTCAGACTCCGCTGCGTCTCTCGGCCCCGTCCAGCCGTTT
CTGACTGCTCTTCGCCGAGTCCGCTTCCCAACCCCCCTTTCGCCAGAGCCCCGAGAGCTCCGTGCGCTCTGCGTCC
TGGCGGTGGGGACTCCCCGCCGAGCGCTTGCGCGTGCCAGGTACCCGGGACTACGTTTCCCNANGCNGNGGCC
GAGCGGCCGGCGCCGCGCTGCGGTGAGGTGACCCGGTTCGCTGGCCGAGTGAGTCAGGCTGGGAGGGCGGGG
CGCGCCGGCTGCTGCGGTGGCACTTGGCCCTTTAATCCCCTTCGTGGGCCCCCAACCTGGAGCGGATAAATTC
TTGGCGCTTCTNCCGGGGGTGTGCTCTTCCGTACTCGGATCGCTTCTTAGGAGTATCCTAACTGCCGTTGGGA
GAACTTCGCCCTAAACCTGGGGTTCCGATCCAGGAAGTGAAGTTGACAGCTTGGCTGCCTGGCTCCTACATCTG
CCTTCTCCACTACCATCTCATTTCTTCTCCAGGATTGTGAGTGGCTTCGCCCCGAGGAGAGCTGACTGCCCTG
GGCTGCTGCCTCCGGCAGAGCTGAGCCAAAATGTCCCCGAATCTAAAAAGCTTTCAACATCATTATTTTAGGA
GTTGCCTTTATGTTTATGTTCACTGCCTTTCAAACCTTGTGG

4030/5332
FIGURE 3509A

GGAATAAGCAATTCTGTGTGGGACTGTCCCCAGGTAACCTGCCACAGGAAATAGCAATTCTGGGTTCAAGTCAG
GGGAATGGAGACACTGTGAACTCAGCATTAAAGTGCTAAACAAAATGGATCCAGCAGTGCTGTGCAAAAGGAAGGA
AGTGGAGGAAATGCTTGGGATTCAAGACCTCCTGCTGGTCTGGAATACTCGCCTGGGGAAGGGGCAGTGGCAAC
AATGGCGTTGGTAATATCCATTCAAGAGCTTGGGGCCACCCAGCCGAAGCACCTCTAACGGTGTGAATGGGGAA
TGGGGAAAGCCCCAAACAGCATTCCAACAGTGACATCAATGGGAAAGGATCAACAGGGTGGGAGAGTCTTAGT
GTCACCAGCCAGAACCCTACCGTACAGCCTGGTGGTGAACACATGAAGTCTGGGCCAAAGCGGCATCTTCTGGA
ACTACAGCAAGTGAAGGAAGTAGTGATGGTTCTGGCAACCACAATGAAGGAAGCACTGGGAGGGAAGGAACGGGA
GAAGGCCGAAGGCGAGATAAAGGGATTATAGACCAAGGGCACATCCAGTTGCCAAGGAATGATCTTGACCCAAGA
GTTCTGTCTAATACTGGTTGGGGACAGACTCCTGTAAAGCAAAACACTGCCTGGGAATTTGAAGAATCCCTTAGG
TCTGAAAGGAAAAATGACAATGGGACAGAGGCTGGGGTTGTGCAGCTACTCAGGCTTCAAACCTCAGGGGGGAAG
AACGATGGGTCCATCATGAACAGTACAAATACCTCTTCAGTATCTGGGTGGGTCAACGCGCCACCTGCCGCTGTG
CCAGCAAAACACAGGTTGGGGAGACAGCAACAACAAAGCGCCAAAGTGGCCCGGGGGTTTGGGGGGACTCGATAAGC
TCTACTGCTGTAGTACTGCTGCTGCTGCCAAGAGTGGCCATGCTTGGAGTGGGGCCGCAATCAGGAGGACAAG
TCACCCACCTGGGGTGAGCCTCCAAAGCCCAAATCCCAACACTGGGGAGATGGACAAAGATCAAATCCAGCCTGG
AGTGCAGGAGGGGGAGATTGGGCAGATTCTCGTCTGTCTTGGACACTTGGGGGATGGGAAAAAAATGGATCT
GGATGGGATGCTGACAGTAATAGGTCAAGGTCTGGTTGGAATGACACCAGAGATCTGGGAACAGTGGCTGGGGC
AACAGCACAAATACAAAGGCCAATCCAGGTACAACTGGGGGGAGACTTTAAACCTGGCCCCCAACAGAAGTGG
GCTAGCAAACCCCAAGACAACAATGTGAGTAACTGGGGAGGAGCTGCTTCTGTGAAACAGACAGGAACAGGGTGG
ATCGGGGGGGCCGTACCGGTCAAACAGAAGGACAGCAGTGAAGCAACTGGCTGGGAAGAACCCTCTCCACCGTCC
ATTGCGCCGCAAAATGGAATTTGATGATGGTACCTCAGCTTGGGGGGACCCAAGCAACTATAACAATAAACTGTA
AACATGTGGGATAGAAACAACCCGGTTCATCCAGAGCAGTACCACGACCAATACCACCACCACCACCACCCTACC
ACGAGCAACACCACACACAGGGTCGAGACGCGCCCGCCGACCAGCCGGTACTCAGCTGAATCGATCACCGTTG
CTTGGTCCAGGTAGGAAAGTTTCATCAGGCTGGGGAGAAATGCCTAATGTTCACTCAAAGACTGAAAACCTTTGG
GGAGAACCATCCNTCCCCCTTCTACCCTGGTGGATAATGGCACAGCAGCATGGGGGAAGCCACCCAGCAGTGGCAG
CGGGTGGGGAGATCACCTGCGAGACCGCCGGTGGCATTGGAAGAGCTGGCGCACCTGTTGCTGCCTCAGCCCT
GTGCAACACAGCTTCAAAATCTATGCAAGAAGGCTGGGGCAGTGGTGGGGATGAAATGAACCTCAGTACCAGCCA
GTGGGAGGATGAAGAAGGGGACGTGTGGAATAATGCTGCTTCCCAAGAAAGCACCTCCTCCTGCAGCTCCTGGGG
GAACGCCCCCAAAAAGGACTTCAAAAGGGCATGAAGACGTCTGGCAAGCAGGATGAGGCCTGGATCATGAGCCG
GCTGATCAAACAACTCACAGACATGGGCTTCCCGAGAGAGCCAGCTGAGGAGGCCTTGAAGAGTAACAATATGAA
TCTTGATCAGGCCATGAGCGCTCTGCTGGAAAAGAAGGTGGACGTGGACAAGCGTGGGCTGGGAGTGACCGACCA
TAATGGAATGGCCGCCAAGCCCCCTCGGCTGCCGCCGCCCAATCTCCAAGAGTCTTCCGTGGACCGCCCCACCTT
TCTTGACAAGGATGGCGGCCCTCGTGGAGAGCCCCACGCCTTACCCTTCTTGCTTCCCCAAGCCTGAAGCTCCC
CCTTTACACAGTGCCTCCCCAGTCAGGCCCTGGGTGGGATTGCCTCCGGGCTGGGCATGCAAACTTGAATTC
TTCTAGACAGATACCGAGTGGCAATCTGGGTATGTTTGGCAATAGTGGAGCAGCACAAGCCAGGACCATGCAGCA
GCCGCCACAGCCACCAGTGCAGCCTCTTAACCTCTTCCAGCCAGTCTCCGTGCTCAAGTGCCTCAGTTTCTATC
CCCTCAGGTTCAAGCACAGCTTTTGCAGTTTGACGCAAAAAACATTGGTCTCAACCCTGCACTATTAACCTCGCC
AATTAATCCTCAACATATGACGATGTTGAACAGCTCTATCAGCTGCAGCTGGCATACCAACGTTTACAAATCCA
GCAGCAGATGTTACAGGCCCAGCGTAATGTGTCCGGATCCATGAGACAACAGGAGCAGCAAGTTGCGCGACAAT
CACTAATCTGCAGCAGCAGATCCAGCAGCACCAGCGCCAGCTGGCCAGGCCCTGCTCGTGAAGCAGCCACCACC
GCCACCGCCCCCGCGCACCTGTCTCTGCACCCCTCTGCAGGCAAAATCGGCCATGGACAGCTTCCCCCTCGCACCC
ACAGACTCCCCGGCCTACCTGACCTGCAGACCAAGAGCAGCAGTCTTACCCCAACACCTTTGCTCCTTACCCTCT
CGCTGGACTGAACCCCAACATGAATGTCAACAGCATGGACATGACCGGTGGCTTGTGCGTGAAGGACCCATCCCA
GTCCAGTCACGCCTCCCCAGTGGACGCACCCCAACTCCATGGATAACTTGCCAGTGCCGCTTCCCCCTGGA
GCAGAACCTAGCAAGCATGGTGCTATCCCTGGAGGTCTAAGCATTGGGCCTCCAGGTAAGTCTCCTCCATTGATGA
CTCCTATGGCCGGTACGATTTAATCCAGAACAGTGAGTCAACAGCCAGTCTCCTCCGTAGCTGTTCCCATAGCTG
GTCAGCTGCCAAATCTGACAGTGATAAAATCTCAAATGGCTCTAGCATCAACTGGCCCCCAGAATTCATCCGGG
AGTTCCATGGAAAGGACTGCAGAATATTGACCTTGAGAATGACCCTGACGTCACCTGGCAGTGTCCCCACTGG
GCTTACCATCAACACCACCATCCAGGATGTCAACCGCTACCTCCTCAAGAGTGGAGGTAAACTGTCAGACATCAA

4031/5332
FIGURE 3509B

ATCGACGTGGTCTCTGGCCCTACCTCCACACGCAAGCCTCTCTGTCTCATGAACTATGGAAGGTGCCAGAAA
CAGTACTGCACCCACGAGGCCACCTCCAGGGTTAACCAATCCCAAGCCCTCCTCCACCTGGGGTGCCAGCCCCCT
CGGCTGGACCAGCTCCTACTCCTCGGGTTCTGCCTGGAGCACCGACACCTCAGGAAGAACCAGCAGCTGGCTCGT
TCTTCGAAACCTCACTCCCCAGATTGATGGTTCTACACTGCGGACATTGTGTTTGCAACATGGGCCCTTTATCAC
ATTCCACCTGAATCTGACTCAAGGCAATGCTGTGGTCCGGTACAGCTCCAAGGAGGAGGCTGCCAAGGCCAGAA
GTCTCTGCACATGTGCGTCTTGGGAAACACTACCATCCTGGCCGAGTTCGCTGGTGAAGAAGAAGTGAATCGCTT
CTTAGCCCCAAGGCCAGGCGCTGCCACCCACTTCCAGCTGGCAGTCCAGCAGCGCGTCCAGCCAGCCGCGGCTCAG
CGCAGCGGGCAGCTCCCATGGCCTGGTACGCAGCGACGCTGGCCACTGGAACGCCCCGTGCCTGGGTGCCAAGGG
GAGCAGTGAGCTGCTGTGGGGCGGGGTGCCCCAGTACTCCAGCAGCCTGTGGGGCCCCGCCAGCGCCGACGACAG
CAGGGTGATAGGCAGCCCCACGCCGCTAACCACCCTGCTGCCTGGGGACCTGCTCAGCGGGGAGTCCCTGTAGGC
TCTGCCATCATCAGCACCCAGGAGAGCCGACCCCTCCCGGGACCCCTCCCGGGTGGGCGGCNCCCACAGACCCGCT
NGGAACCCAGCAGCGGNNCCGCCCTTTTGTAGTACCTCTGTCCAGGACTGAAGACGNAACCTTGGCCGCACTCCTT
GCCAACTGTTTCGCAAAACAGTGCAGGCGTGCAGTGGGNTCAGCGTCACATGCTAATGACAGGATGTTCTCGTAG
CTTTTTATTTTGTGCGTCTTATGTTTGTATAGTGTGTTGTCATTTTGATTTTTTTTTTTTTTTTAAAGTATAAAAG
CTGCTTAGAATAGTTCTATCATGAAGGGCACTTTTTCAGATTGTGGGCTGGAAAGGGTTATTTTATCTGTGGGGGA
GGGAGGGAGACGTGAAGCCTATTTAAATGAGCCTGTGACGATTATGCACATGACCAGAGGCGGCCGTAATCAG
GGCAGAGTCTGGTGTGGACCGCCGGGCGCAGAGCGGCTCCGCGGCGGGAGCTGAGCGGAAGGCGCGGGCTGCGAT
CTGCTCTCTGTTCCCTGGATCCGCCATATGCACATTACCCTTGTTTCATTACTTTTTTCATGTCATTTTTTTATCC
CAAAAAATATTTTTTAAAGTTAAAAAAGACATATCAAACATGCAAATACTTGAATCCAGCAGGCCAATAGTGA
AATGTGAACACTTTCTAATTCTACACTTCCAGGTTGACATCAGTACACAGAAACAGGNNCTCTAGGAAAAATTC
TAAGTTTCATAGCCTACGTGTGTGTATGTGTGCGTGTGAAACAGAAGTGTGTGTGTGTGTCATGTGTGGCGCGT
GCTCCTGCACGGGTGCAGTTTTCTGTGTTTGTGTGTTTGAAGCGTGTGAGGATTTAACTGTGGGTTTTCCCTT
GTATTCAGTATACGCTTTTTTTTTTGGCGCATTTGGTCAAACGGTTGTTATTATTAGCTTCTAACTTTGCACTGAGT
GTCTTCGCCCTTCCCTTAGCTAATCCTATACATTACAGAGAATTCCTAGGACAGGGCTGGCGACAATTCATGTGT
AAATGTTTACTCAAGGACTCTGTGACTGCGTTTAAAAAGTACAGTGTATATCTCTGGAGAAATAACATGTATACC
TACCTTTAGCAGCTTTTTATTGTGGACTAATGCAAGAAAATTATTACCAGAGTATTGCACCATTTTCCATTTGG
AATATAAAGTTAAAGAGAAAAAAGCACTTGGGCGTGGGTTGTGACTGCTTTTGGGGGAGCCTGGGGTTTGGGCTC
CCACCTGTTTACAGACCTTTTTTCTCCTTCAGACTTTAAATTTTAAAAATTTAAAAAGG

AGGTGCGCGCTACTCCCCCGGCCCGCCGACAGCTGCGACTGGCCAGTGCGCCCTGGGGCCCTTTGGCACTCCCTT
GGCAAGGAGAGCCGAGACCTCAGTTCCCGCGCGCTCTTGCGGGGCACAGGTGAGCCCTGGCTGCGCGCGCGGCC
CTCCTCCCCGGCGCCTCCAGATGGGGGCTCCGGAGGTGGCGCCAGGCTCTGAGCTACCCTAGGTCTGCAGACT
AGCGGGCATTGGCCAGAGACATGGCCAGCCACTGGCCTTCATCCTCGATGTCCCTGAGACCCAGGGGACCAGG
GCCAGGGCCCCAGCCCCTATGATGAAAGCGAAGTGCACGACTCCTTCCAGCAGCTCATCCAGGAGCAGAGCCAGT
GCACGGCCCAGGAGGGGCTGGAGCTGCAGCAGAGAGAGCGGGAGGTGACAGGAAGTAGCCAGCAGACACTCTGGC
GGCCCCAGGGCACCCAGAGCACGGCCACACTCCGCATCCTGGCCAGCATGCCAGCCGCACCATTGGCCGCAGCC
GAGGTGCCATCATCTCCAGTACTACAACCGCACGGTGCAGCTTCGGTGCAGGAGCAGCCGGCCCCCTGCTCGGGA
ACTTTGTCCGCTCCGCCTGGCCAGCCTCCGCCTGTACGACCTGGAGCTGGACCCACGGCCCTGGAGGAGGAGG
AGAAGCAGAGCCTCCTGGTGAAGGAGCTCCAGAGCCTGGCAGTGGCACAGCGGGACCACATGCTTCGCGGGATGC
CCTTAAGCCTGGCTGAGAAACGCAGCCTGCGAGAGAAGAGCAGGACCCCCAGGGGGAAGTGGAGGGGCCAGCCGG
GCAGCGGCGGGGTCTGCTCCTGCTGTGGCCGGCTCAGATATGCCTGCGTGCTGGCCTTGACAGCCTGGGCCTGG
CGCTGCTCTCCGCCCTGCAGGCCCTGATGCCGIGGGCTACGCCCTGAAGCGCATCGGGGGCCAGTTTCGGCTCCA
GCGTGCTCTCCTACTTCTCTTTCTCAAGACCCTGCTGGCTTTCATGCCCTCCTGCTGCTGCTGCTGGTGGCCT
TCATCATGGGCCCTCAGGTGCGCTTCCCACCCGCCCTGCCGGGCCCTGCCCCCGTCTGCACAGGCCTGAGCTCC
TCACAGGCGCGGGTTGCTTCACCCACACCGTTCATGTACTACGGCCACTACAGTAACGCCACGCTGAACCAGCCGT
GTGGCAGCCCCCTGGATGGCAGCCAGTGCACACCAGGGTGGGTGGCCTGCCCTACAACATGCCCTTGGCCTTACC
TCTCCACTGTGGGCGTGAGCTTCTTTATCACCTGCATCACCCTGGTGTACAGCATGGCTCACTCTTTTCGGGAGA
GCTACCGGGTGGGCAGCACTCTGGCATAACCGCATCACCGTCTTCTGCTCCTGGGACTACAAGGTGACCCGAGA
AGCGGGGCTCCGCCCTCCAGCAGGACAATATTGCGACCCGGCTGAAGGAGCTGCTGGCCGAGTGGCAGCTGCGGC
ACAGCCCCAGGAGCGTGTGCGGGAGGCTGCGGCAGGCGGCTGTGCTGGGGCTTGTGTGGCTGCTGTGCTGCGGA
CCGCGCTGGGCTGCGCCGTGGCCGTCCACGTCTTCTCGGAGTTCATGATCCAGAGTCCAGAGGCTGCTGGCCAGG
AGGCTGTGCTGCTGGTCTGCCCTGGTGGTTGGCCTCCTCAACCTGGGGGGCCCCCTACCTGTGCGGTGCTCTGG
CCGCCCTGGAGCCGCATGACTCCCCGGTACTGGAGGTGTACGTGGCCATCTGCAGGAACCTCATCCTCAAGCTGG
CCATCCTGGGGACACTGTGCTACCACTGGCTGGGCCGCGAGGTGGGCGTCTGCAGGGCCAGTGTGGGAGGATT
TTGTGGGCCAGGAGCTGTACCGGTTCTGGTGTATGGACTTCGTCTCATGTTGCTGGACACGCTTTTTGGGGAAC
TGGTGTGGAGGATTATCTCCGAGAAGAAGCTGAAGAGGAGGCGGAAGCCGGAGTTTGACATTGCCCGGAATGTCC
TGGAGCTGATTTATGGGCAGACTCTGACCTGGCTGGGGGTGCTCTTCTCGCCCCCTCCTCCCGCCGTGCAGATCA
TCAAGCTGCTGCTCGTCTTCTATGTCAAGAAGACCAGCCTTCTGGCCAACTGCCAGGCGCCGCGCCGGCCCTGGC
TGGCCTCACACATGAGCACCGTCTTCTCACGCTGCTCTGCTTCCCCGCTTCTGGGCGCCGCTGTCTTCCTCT
GCTACGCCGTCTGGCAGGTGAAGCCCTNCGAGCACCTNGNCGGCCCTTCCGGACCCTGGACANCCATGTACGNA
GGCCGGCAGGGTGNCTGGGTGCGNCCACCTGGAGGCGGNCAGGCCCCAGGGTCTCCTGGCTGCCCTGGGTGCACCG
GTACCTGATGAAAAACACCTTCTTGTCTTCTGGTGTGAGCCCTGCTGCTGGCCGTGATCTACCTCAACATCCA
GGTGGTGCAGGGGCCAGCGCAAGGTTCATCTGCCTGCTCAAGGAGCAGATCAGCAATGAGGGTGAGGACAAAATCTT
CTTAATCAACAAGCTTCACTCCATCTACGAGAGGAAGGAGAGGGAGGAGAGGAGCAGGGTTGGGACAACCGAGGA
GGCTGCGGCACCCCTGCCCTGCTCACAGATGAACAGGATGCCTAGGGGGACGGCGATGGGCCTCACGGGCCCGC
CCAGCACCTGAGACCACACTGTTGCCTCCAGTGACCCTGCTGGGACACCAGGACAAGGAAGACAGTTTCGCCT
CTCGAAAGCCGCAGCTGCGCCTAGGCTGGAGCTGGAAGGGTGGGTGAATCCGGCTTGGGCATCCCCAATGAATC
TGCCCTGCTGGGACTCTATTTATTCTGATTAAAGGGGTTTTGCAATGGGCTTGTCCTTGGGGCTCTGTGTCT
GTGACCACACCCGGGGCCTGCTTCCCGCTGCCCTGGGGCCACCTCCAGGCGCAGGTCTGGGTCTGGGAACCTCA
GCTGGAGTGGGGGCGCCCTCTGCTGGCCAAGCCCCAGATGGCAGGGGCTGGACCGCGCCAGGCTGATTCTGCTT
GCTGCCTTTGACCAGCCTGAACTCGCGCCAGGAGGGGCTTACACTGCACAAGTAGCCGAGCAGGACAGGATT
GTGACCAGAGCGATGCGTCAACATTGGGTGATGCTGTAGCATCTACTGGAGCAGGAGACAAAATTTAGAGAGGGA
CTTGAGAGGGGAGACATATCAGTTGCAATGAGTTGTGGGACAGTTGCCCTCCAGGCATAGGTAACCAGCACCTG
TGCTTGAGGGGCGAACAGGGCTTGGTAGGTGGGGCTGGCCCCCTGCTTCTGGCTGCCAGCAGCTGGCTGGGGGGT
GGTGATCCTGGGTCTGACTGGGCTGAGTTTGAGGAGCCCGTGGGATACCGAAAACCGTAGGCTGTGGGGGGTGGG
CACAGGGATTTCGGGGACCAGCCCGTCATGACCCCGTCTCCAGGTCTGCAGGGACCAGCCCATGACAGCCAGGG
CTCCAGGTCTGCGGGGACCAGCCCATCACAGCCCAGGGCTCCAGGCCTGCGGGGACCAGCCCGTCAGCCTCAGTT

4033/5332
FIGURE 3510B

CTCCAGGCCTGCGGGGACCAGCCCGTCATGACCCAGTGCTCCAGGTCTGTGGGGACCAGCCCGTCAGCCTGTGC
TCCAGGCCTGCAGGAACCAGCCCGTCAGCCTCAGTGCTCCAGGCCTGCGGGGACCAGCCCGTCAGCCTGTGCTCC
AGGCCTGCGGGGACCAGCCCGTCATGACCCAGTGCTCCAGGTCTGTGGGGACCAGCCCGTCAGCCTGTGCTCCA
GGCCTGCGGGGACCAGCCCGTCATGACCCAGTGCTCCAGGCCTGCGGGGACCAGCCCGTCATGACCCAGTGCT
CCAGGTCTGTGGGGACCAGCCCGTCACGGCGCAGGGTTCCAGGCTTGTGGGGACCAGCCTGTACAGCCAGGGC
TCCAGGCCTGCAGGAGCTGCGCTTGGGATTGGGGGAATGAACCCAGGTGGGGAAATGGTCAAAGAGCGATGGGCC
CAGAAAAGGGTCAGACCCAGATGGAGATGCCACTGGCTGCTAGCAGACCCACGCTGGGTCTAGCCACCCAAT
NCCCATGGGGATGCTCCTGTGCTCTGCAGACATCTGGGTGCTGCCACAGGGGCCGACAGAGTTGGCATCTGGGT
GGATCTGAGCCAAGTGGTGCTTCTGGGCCTCAGCAAGTAGCTGGTGCTGATTCTGGGCAGCCAAGTGTGGCAGCA
TCTTCAGGTGCGAGTGCTGCTGGGTGAAGCTGCGTGGGCAGTCCAGAAAGTGACGTGACAGTCCACAGGGACCGA
CGTAGGGTTTCCAGCCCTATCTGTGAGATGCTGTCTCCAAACCATCACGGTCCCTCTCTGGCTGGGGACGTG
CGCCTGCCACTGCTGGCTTGCCAGCATGATCATTGGTTGTGACCTGTTGAGCCCATCTTGCCAGCCTCACAAAGG
ACAGTACTAGCTGCTTATGACAGGAAAGTGAAGAAGTTGGCCTGGATATTTCTGGAGAATTACCGTGTGTGCTA
GTCAGTCTTTCGTGTCAACCAGGCCAGGCTGTGGGGCCAGTGATCTCATCGAGAGGGGCCGAGGTGTTGCTGTG
ATCGTGTGCTGCTGGAATGTGGTGAACACCTACAGTCGATTTACCTAAAGATCATCCTTGAGAATGTGGGTGGG
CCTCATCCTATCAGCTGAAAGCTTTAAGAGCAAAACCCGAGGTGTCCAGAGAGGGAATTCTGCCTTGAGACGGC
GGCTTCCCACTCCCACTGGATGTCCAGCCCGCGGGCCACGGCTGGGTGAGCCCGTCCCTCTCCTCGTTTTCTGTCT
CCGGACCCACCGTGTGGCCCGAGACCCTCCAGTGAGGACCTCCCGTATTTCTTCAGAGCAGCCCTTGCGTGCTGG
AGGCCTGGGCTTCAGTGTGTCCCTGGGTGCCCTGGGGCATGTTCTGTGACCTCCAGCTCCTCGCCTCATGGGGC
CGCTGTATCAAGTGACACAGTTTGTGTGCTGCGTACCATGCCTGGCACCATTGAGGTGTTGCAAGGAGGCCAT
GTTTGCTCGATGAGAGCAGCCTAAGATCTACAACTGTTGTTGAGTGATGGGAACCTTGATGCTATTTTCAGGC
TGAATGACAAGACTCCGCGATGCTTCTCGGCCTGGGCTGCACAACGGAATCTACCAGGGAGGTTTTAAAAACACT
GGTACTTGCTGGAGGTGGTGGCGCCTGTCTGTAATTGCAGCTGCTCCAGAGGCTGAGGCGGAGGATTGCTTGAGC
CCAAGAGTTTTCGGTTTATTTGCTTTTTTCAGAG

4034/5332
FIGURE 3511

CCGCCAGATTTGAATCGCGGGACCCGTTGGCAGAGGTGGCGGGCGGCGGCATGGGTGCCCCGACGTTGCCCCCTGC
CTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGAACTGGCCCTTCTTGGAGGGCTGCGCCTGCAC
CCCGGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGGCCCCAGTGTTCCTT
CTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATAGAGGAACATAAAAAGCATTTCGTCCGGTTG
CGCTTTCCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACCCCTTGGTGAATTTTGAAGTGGACAGAGAAAGAGC
CAAGAACAAAATTGCAAAGGAAACCAACAATAAGAAGAAAGAATTGAGGAACTGCGGAGAAAGTGCGCCGTGC
CATCGAGCAGCTGGCTGCCATGGATTGAGGCGCTCTGGCCGGAGCTGCCTGGTCCCAGAGTGGCTGCACCACTTCC
AGGGTTTATTCCCTGGTGCCACCAGCCTTCCTGTGGGCCCTTAGCAATGTCTTAGGAAAGGAGATCAACATTTT
CAAATTAGATGTTTCAACTGTGCTCTTGTCTTGTCTTGAAGTGGCACCAGAGGTGCTTCTGCCTGTGCAGCGGG
TGCTGCTGGTAACAGTGGCTGCTTCTCTCTCTCTCTCTCTTTTTTGGGGGCTCATTTTTGCTGTTTTGATTCCCG
GGCTTACCAGGTGAGAAGTGAGGGAGGAAGAAGGCAGTGTCCCTTTTGTAGAGCTGACAGCTTTGTTTCGCGTGG
GCAGAGCCTTCCACAGTGAATGTGTCTGGACCTCATGTTGTTGAGGCTGTCACAGTCTTGAGTGTGGACTTGGCA
GGTGCCTGTTGAATCTGAGCTGCAGGTTCCCTTATCTGTACACCTGTGCCTCCTCAGAGGACAGTTTTTTTTGTTG
TTGTGTTTTTTTTGTTTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCTG
GCTCCTCTACTGTTTAAACAACATGGCTTTCTTATTTTGTGTTGAATTGTTAATTCACAGAATAGCACAACTACAA
TTAAAACTAAGCACAAAGCCATTCTAAGTCATTGGGGAAACGGGGTGAACCTCAGGTGGATGAGGAGACAGAATA
GAGTGATAGGAAGCGTCTGGCAGATACTCCTTTTGGCACTGCTGTGTGATTAGACAGGCCAGTGAGCCGCGGGG
CACATGCTGGCCGCTCCTCCCTCAGAAAAGGCAGTGGCCTAAATCCTTTTAAATGACTTGGCTCGATGCTGTG
GGGGACTGGCTGGGCTGCTGCAGGCCGTGTGTCTGTGAGCCCAACCTTCACATCTGTACGTTCTCCACACGGGG
GAGAGACGCAGTCCGCCAGGTCCCCGCTTTCTTTGGAGGCAGCAGCTCCCGCAGGGCTGAAGTCTGGCGTAAGA
TGATGGATTTGATTGCGCCCTCCTCCCTGTATAGAGCTGCAGGTGGATTGTTACAGCTTCGCTGGAAACCTCTG
GAGGTCATCTCGGCTGTTCTGAGAAATAAAAAGCCTGTCATTTT

4035/5332
FIGURE 3512

GCGGCGGGCGGCAGCGGCGGCGACGGCGACATGGGAGAGCGGGGCGCTACGGCGCGGCCAAGGCGGGCGGGCTCCTTCG
ACCTGCGGGCGCTTCTTGACGCAGCCGCAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTTCT
CCTGCATCTATGGTGAGGGCTACAGCAATGCCCCAGAGTCTAAGCAGATGTACTGCGTGTTCAACCGCAACGAGG
ATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCTTGGCCTCGGCCTTCTTCTTGGTGGTTCGACGCGT
ATTTCCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCTGTNGGTTTGTGGTTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTG
GGGGCCGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTCCATCTTCTCCTGGGTAGGATGGCCAGGGGCC
GGTTCTTGGGTCAAGNGTGTGGAAGGGGGGNANCCCCANCCACCTGTACCCTGCTGTGCTCCCCCTGCAGG
GTGTGCTGGCCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCA
CTCCGGACCCCANACACTGCCTACGCCTCCTACCCAGGTGCATCTGTGGACAACCTACCAACAGCCACCCTTCACC
CAGAACGCGGAGACCACCGAGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGGAAGGGGGACA
GAGAGGGCCCTCCCNCTCTGCCCTGGACTTTCCTCATGAGCCTCCTGGAAGTACC

4036/5332
FIGURE 3513

CTTACTGCGGGACGGCCTTGGAGAGTACTCGGGTTTCGTGAACTTCCCGGAGGCGCAATGAGCTGCATTAACCTGC
CCACTGTGCTGCCTGGCTCCCCCAGCAAGACCCGGGGGAGATCCAGGTGATTCTCGGGCCGATGTTCTCAGGAA
AAAGCACAGAGTTGATGAGACGCGTCCGTGCTTCCAGATTNGCTCAGTACAAGTGCCTGGTGATCAAGTATGCC
AAAGACACTCGCTACAGCAGCAGNCTTCTGCACACATGACCGGAACACCATGGAGGCACTGCCCCGCTGCCTGCT
CCGAGACGTGGCCAGGAGGCCCTGGGCGTGGCTGTCATAGGCATCGACGAGGGGCAGTTTTTCCCTGACATCGT
GGAGTTCTGCGAGGCCATGGCCAACGCCGGAAGACCGTAATTGTGGCTGCACTGGATGGGACCTTCCAGAGGAA
GCCATTTGGGGCCATCCTGAACCTGGTGCCGCTGGCCGAGAGCGTGGTGAAGCTGACGGCGGTGTGCATGGAGTG
CTTCCGGGAAGCCGCCTATACCAAGAGGCTCGGCACAGAGAAGGAGGTCGAGGTGATTGGGGGAGCAGACAAGTA
CCACTCCGTGTGTCGGCTCTGCTACTTCAAGAAGGCCTCAGGCCAGCCTGCCGGGCCGACAACAAAGAGAACTG
CCCAGTGCCAGGNAAAGCCAGGGGAAGCCGTGGCTGCCAGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCA
GCCCTGCCAACTGAGGGACCTGCGAGGGCCGCCCCGCTCCCTTCCCTGCCACTGCCGCCTACTGGACGCTGCCCTGC
ATGCTGCCCAGCCACTCCAGGAGGAAGTCGGGAGGCGTNGGAGGGTGACCACACCTTGGCCTTNCCTGGGAACCTCT
CCTTTGTGTGGCTGCCCCACCTGCCGCATGCTCCCTCCTCTCCTACCCACTGGTCTGCTTAAAGCTTCCCTCTCA
GCTGCTGGGACGATCGCCCAGGCTGGAGCTGGCCCCGCTTGGTGGCCTGGGAICTGGCACACTCCCTCTCCTTGG
GGTGAGGGAÇAGAGCCCCACGCTGTTGACATCAGCCTGCTTCTTCCCCTCTGCGGCTTTCACTGCTGAGTTTCTG
TTCTCCCTGGGAAGCCTGTGCCAGCACCTTTGAGCCTTGGCCCACACTGAGGCTTAGGCCTCTCTGCCTGGGATG
GGCTCCCACCCTCCCCTGAGGATGGCCTGGATTACGCCCTCTTGTTCCTTTTGGGCTCAAAGCCCTTCCCTACC
TCTGGTGATGGTTTCCACAGGNAACAACAGCATCTTTCACCAAGATGGGTGGCACCAACCTTGCTGGGACTTGGA
TCCCAGGGGCTTATCTCTTCAAGTGTGGAGAGGGCAGGGTCCACGCCTCTGCTGTAGCTTATGAAATTAATAAT
T

4037/5332
FIGURE 3514

GGCCGGGCGCCCTCGCCGCCCTCCGGCAGCCGCGCCGCTCCCTCCGCTGCACGCCCAGGCCTGAGCAGCGAGGCC
ACCGGGCCGCGCGCTCCCAGCTTCGCTCGGACGCGGCTTCGGCCCCGAGAGGGTTCGTGGCCCGGACGCGCGGAG
AGCTGGGCCCAGGACGGTGCCTCCGGCCTCGCCCGCGGCTGCTCGCACCAACAAGTTTGAACAATGATCACCGTC
AACCCCGATGGGAAGATAATGGTCAGAAGATGCCTGGTCACCTGAGACCCCTTTCGGCTTTTGTCTGGGCATC
GGCTTCTTCACTCTCTGCTTCCTGATGACGTCTCTGGGAGGCCAGTTCTCGGCCCGGCGCCTGGGGGACTCGCCA
TTCACCATCCGCACAGAAGTGATGGGGGGCCCCGAGTCCCGCGCGCTCCTGCGCAAGATGAGCGACCTGCTGGAG
CTGATGGTGAAGCGCATGGACGCACTGGCCAGGCTGGAGAACAGCAGTGAGCTGCACCGGGCCGGCGGCGACCTG
CACTTTCCCGCAGACAGGATGCCCCCTGGGGCCGGCCTCATGGAGCGGATCCAGGCTATTGCCAGAACGTCTCC
GACATCGCTGTGAAGGTGGACCAGATCCTGCGCCACAGTCTGCTCCTGCACAGCAAGGTGTGAGAAGGCCGGCGG
GACCAGTGTGAGGCACCCAGTGACCCCAAGTTCCCTGACTGCTCAGGGAAGGTGGCAGTGGATGCGTGCCCGCTG
GACCTCTGAACCCCTGCTACGCCTTCTTTGGGGTGGACGGCACCGAGTGCTCCTTCTCATCTACCTCAGTGAGGT
CGAGTGGTTCTGCCCCCGCTGCCCTGGAGGAACCAGACGGCTGCCCAGAGGGCACCCAAGCCCCCTCCCCAAAGT
CCAGGCAGTTTTCCGAAGCAACCTGTCCACCTTCTGGACCTGATGGGCAGCGGGAAGGAGTCCCTGATCTTCAT
GAAGAAGCGGACCAAGAGGCTCACAGCCCAGTGGGCGCTGGCTGCCCAGCGCCTGGCACAGAAGCTGGGGGCCAC
CCAGAGGGACCAGAAGCAGATCCTGGTCCACATCGGCTTCCTGACGGAGGAGTCCGGGGACGTGTTTCAGCCCTCG
GGTCTGA

4038/5332
FIGURE 3515

CAGGTGAGGCGGAACCAACCCTCCTGGCCATGGGAGGGGCCGTGGTGGACGAGGGCCACAGGCGTCAAGGCCCT
GACGGCGGCTGGGCGTGAGGCGTGCTCTTCGGCTGTTTCGTCACTACTGGCTTCTCCTACGCCTTCCCCAAGGCC
GTCAGTGTCTTCTTCAAGGAGCTCATAACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATC
CTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCCGTCATG
CTTGTGGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTTTGCCGGAGCATCATCCAGGTCTACCTC
ACCACTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTACTTC
AGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGAGCCCGCTG
GGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGC
GTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCCAGCCGGCTCGGGGCAGCCGCGACCCCTCCCGGCGCC
TGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGGCCGCCTCGGTCATGGTGCTGGGGC
TCTTCGTCCCGCCCGTGTTCGTGGTGATGACGCCAAGGACCTGGCGTGCCCGACACCAAGGCGCCTTCTGTGCTCA
CCATCCTGGGCTTCATTGACATACTTACGCCCGCGCGGGCTTCGTGCGGGCTTGGGAAGGTGCGGCCCTATCCG

4039/5332
FIGURE 3516

ATTTTCCTGGGGCTCCGGGGCGGGAGAAGCTGCATCCCAGAGGAGCGCGTCCAGGAGCGGACCCGGGAGTGTTT
CAAGAGCCAGTGACAAGGACCAGGGCCCAAGTCCCACCAGCCATGCAGACCTGCCCCCTGGCATTCCCTGGCCAC
GTTTCCCAGGCCCTTGGGACCTCCTGTTTTTGGCTGCCTCCTTGAGTGCTCAGAATGAAGGCTGGGACAGCCCC
ATCTGCACAGAGGGGGTAGTCTCTGTGTCTTGGGGCGAGAACACCGTCATGTCCTGCAACATCTCCAACGCCTTC
TCCCATGTCAACATCAAGCTGCGTGCCACGGGCAGGAGAGCGCCATCTTCAATGAGGTGGCTCCAGGCTACTTC
TCCCGGGACGGCTGGCAGCTCCAGGTTTCAGGGAGGCGTGGCACAGCTGGTGATCAAAGGCGCCGGGACTCCCAT
GCTGGGCTGTACATGTGGCACCTCGTGGGACACCAGAGAAATAACAGACAAGTCACGCTGGAGGTTTTAGGTGCA
GAACCCAGTCCGCCCCGACACTGGGTTTTGGCCTGTGCCAGCGGTGGTCACTGCTGTCTTCATCCTCTTGGTCG
CTCTGGTCATGTTTCGCTGGTACAGGTGCCGCTGTTCCAGCAACGCCGGGAGAAGAAGTTCTTCCTCCTAGAAC
CCAGATGAAGGTGCGACCCCTCAGAGCGGGACGAGCAGGGCCTGAGCAGACCTCCGCTGAACTGTGGACCCACAG
ACTCCGAGCCCAACCCCAAGGCCGCTGGCACTGGTGTTCAAACCTCACCCTTGGAGCCCTGGAGCTGCTGTCCC
CCCAACCCCTTGTTTCCATATGCCGCAGACCCATAGCCGCTGCAAGGCAGAGAGGACACAGGAGAGCCAGCCCTG
AGTGCCGACCTTGGGTGGCGGGGCATGGGTCTCTCGTCCCACCCGGAGCACCAGACACCGGCTTGCTTGGCAGGC
TGGGCTTCTGTGTACCCACTCCTGGGTGCGTGACAGCCCTTCCCTTCCAAACCCCAAGGTCTTCCAAGCTCTGCT
TCCTCAGTTTCCAAAATGGAACCAACTCACCTTCCGAGCAACCGAATTACCAGGAACGATGCCCCCTCCCTCTGCC
CTCATCAAACCCACAGACCCGACTCCCTTTCTGCCACCCAGGCTGGTCCGGCCCCAGGTGTGGGTCCGCTCTC
TCCACTCCCAGGGCTCCGCGCCAAGTGAGGGGGCCCCCTGCCGGAGCCTCAGACACACTCCAGTTTCAGGGCTGTGG
GGGGCCTGGCCACATACCTGTCCCTTGGCTATGAGCAGGCTTTGGGGGGCCCTTCCGCGGCAGCCCGGGGGCCGAG
GTAGGGTCGGGGGCTTAGAGGCTGGGATGGCTCCTGGCCCCACCGCCAGGGGGCAGCGCAGGCCGGGCTGGGAGG
CGGCGGGCGGCGCTCGGGCTGGGGGGTCAGGTGGACGCCGCCCTCCGGGGCTGGACGCGCATCCCTCAGTCCCTC
GGCCACCCGGGGGTGCTCCCTCGTGCCACCGCACCTGCCGAGCCTCTTGGACCCAGATCTGTTTCATGCTTTT
GTCTTCGTCACTGCGGCGGGGGCCCTTTGATGTCTTCATCTGTATGGGGTGGAAAAATCACCGGGAATCCCCCTTC
AGTTCTTTGAAAAAGTTCCATGACTCGAATATCTGAAATGAAGAAAACAAACCGACTCACAAACCTCCAAGTAGC
TCCAAATGCAATTTTTTAAATGGAAAACAAAAATCTGAAAGAAACGTCTTTAGTGGCTTTAAGCCCCAAAACGTC
CCTAAGGCGTCTCGAGATGAAGACGGGGGGGAGCCAGCCAGGTGGAGACCCGCGAGCGCGGGCGGCCCGGTGA
CCGAGGCCTCGCACAGCCGGCCGCCCTGAGGGTCGGGCCGAGCCAGGGTCCAAGAGGGGCGCGTTTGTGTCTCGG
GTTAAATAAGGTTCCGTCCGCGTGCTGGGTGAGA

4040/5332
FIGURE 3517

GCGCGATGGGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGG
AGAGGGCAAGCGGGACCGGTAGGGCATGCAGCGGCGGCGCGATCGGACATGTCCCATCCGCCCCGTATTGAGGC
GCTGGGAGCGCGGTGCGCGACAGGAAAGCGATGGTGAAAGCGGGGCCGTGAGGTGGGCGGCAGGAACGGCCGGAC
CCGCAGTAGCGCAGCAGCGGCGCCGCCCTCCAGAGTTTCAGACCCAGGAAGCGGCCGGGAGGCAGGAGCGAATCGG
GCCGCCGCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGCATCGGCAGCGGCTCCTTCGG
AGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGTTGCCATCAAGCTTGAATGTGTCAAACCAAACA
CCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATGATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTG
CGGGGCGAGAGGGGGACTACAACGTCATGGTGATGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTG
CTCCAGGAAATTCAGCCTCAAACCGTCCTGCTGCTTGCTGACCAAATGATCAGTCGCATCGAATACATTATTTC
AAAGAACTTCATCCACCGGGATGTGAAGCCAGACAACCTTCCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGTA
CATCATCGACTTCGGGCTGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCTATCGTGAGAACAA
GAACCTCACGGGACGGCGCGGTACGCCTCCATCAACACGCACCTTGGAATTGAACAATCCCGAAGAGATGACTT
GGAGTCTCTGGGCTACGTGCTAATGTACTTCAACCTGGGCTCTCTCCCCTGCCAGGGGCTGAAGGCTGCCACCAA
GAGACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCCATCGAAGTGTTGTGTAAAGGCTACCCCTC
CGAATTTGCCACATACCTGAATTTCTGCCGTTCTCTTGCGTTTTGACGACAAGCCTGACTACTCGTACCTGCGGCA
GCTTTTCCGGAATCTGTTCCATCGCCAGGGCTTCTCCTATGACTACGTGTTGACTGGAACATGCTCAAATTTGG
TGCCAGCCGGGGCCCGCATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCTGAGACACTCGCGGAACCC
GGCTACCCGCGGCCCTCCCTTCCACAGCCTCCAGGCCGTCTGCGGGGGACGCAGGGAATGTGGCTCCCCCACACC
CCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTCTCCGGCATGGAGAGAGAGCGGAAAGTGAG
TATGCGGCTGCACCCGGGGCCCCCGTCAACATCTCCTCGTCCGACCTCACAGGCCGACAAGATACCTCTCGCATG
TCCACCTCACAGAATAGCATTCCTTTTGAACACCACGGCAAGTAGCTGCTCGTCTCCCATCGGAAGGCAGCACTG
GATTCTTGGTTCGGGTGGCTTCCAGTGGTCTTCAGTCTGTCTGTCACCGATGAGAACTCTCCTTATTGCTGTGAAG
GGCAGACAATGCATGGCTGATCTACTCTGTTACCAATGGCTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAA
ATGTTAACACCGGGAGCTCTCCAGGCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTC
CAAGAGCTGCCACCGCTGGGGCTGCACTGCGGCCCCCACGTGAACCTCGGTTGTAACGGGGCTGGGAAGAAAAGC
AGAGAGAGAATTGCAGAGAATCAGACTCCTTTTCCAGGGCCTCAGTCCCTCCAGTGGTGGCCGCCCTGTACTCC
CTGACGATTCCACTGTAACCTACCAATCTTCTACTTGGTTAAGACAGTTTGTATCATTTTGCTAAAAATTATTGG
CTTAAATCTGTGTAAAGAAAATCTGTCTTTTATTGTTTCTGTCTGTTTTGCAGTCTTACAAAAAAATGTTG
ACTAAGGAATTC

4041/5332
FIGURE 3518

TCGTGAGCGGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTCAGCTTCTCCATGTTCTTCAACGGCCTC
GCGGACCTGGCGGGTTCTACGGCGGGCGACTACGGCGGGCTCGTGGTCTTCTGCATCTTCTTTGGCATCTCCTACG
GCATGGTGGGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGCACCCACAAGTTCTCCAGTGCCATTGCGC
TGGTGCTGCTGATGGAGGCGGTGGCAGACTCGTCGGGCCCCCTTCGGAAGGCAAACCTCTGGATGCGACCCACGT
CTACATGTACGTGTTTCATCCTGGCGGGGGCCGAGGTGCTCACCTCCTCCCTGATTTTGCTGCTGGGCAACTTCTT
CTGCATTAGGAAGAAGCCCAAAGAGCCACAGCCTGAGGTGGCGGCCGCGGAGGAGGAGAAGCTCCACAAGCCTCC
TGCAGACTCGGGGGTGGACTTGCGGGAGGTGGAGCATTTCCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGT
TCACACCCCGAAACAAGTGTCTGAGTGGCTGGGCGGGGCGGCAGGCACAGGGAGGAGGTACAGAAGCCGGCAAC
CTTGCTATTTATTTTACAACTGGACTGGCTCAGGCAGGGCACGGCTGGGCTCCACATGACCGGCCCAGCGAGAT
CGTCGCCCCGATCAGTGTTTTGAGGGGGAAGGTGGCGGGGTGGGAACCGTGTCATTCCAGAGTGGATCTGCGGTGA
AGCCAAGCCGCAAGGTTACAAGGCATCCTCACCAGGGGGCCCCGCCTGCTGCTCCCAGGTGGCCTGCAGCACATAT
GCTCAAGGACCTGGAACCCATGCTTCGAGACAACGTGACTTTAATGGGAGGGTGGGTGGCCCCGAGACAGGCTG
GCAGGGCAGGTGCTGCGTGGGCCCTCTCCAGCCCGTCTACCCCTGGGCTCACATGGGGCCTGTGCCACCCCTCT
TGAGTGTCTTGGGGACAGCTCTTTCACCCCTGGAAGATGGAATAAACCTGCGTGTGGGTGGAGTGT

4042/5332
FIGURE 3519

GTGAGCCGACCAGAAGGCCGTCCCTCTTTGATATCTTTTGCAATTGTACCGAAAGTGACTTACTCCTCTGCCCTTC
CTGCTTCCGTCTCTTGCCGGTGCCGTGGTGTCTGTCGGTGCCTGGTGAGGTTTTGTGCAGCGGTAAAGTGCTGGTG
CTTCTGGTGACCTTTGACCTGTGGGTGTCACTTCTTGTGTCTGTTTTCCCGTGTTCGTTTTTTGGGTTTAGTTGT
GCTTTTGCTTCTGCTGGCTTGTGGACCTGGGCTGGGGTGCCAAGTGGCGCCTGCTGCGTCAGAGCTCAAGGAAT
CTGTGCCCCACCACCAGCTCCTGGTCCGTAGGAGGTGAGACATGGGGTTCTGTCATGCCCCCTCCACTGAGCCTTG
CTACATCTGTGTCTAGGGCTTGGGCTGATCTAGTGGCGGGGTAGGTGAAACTGGGGTCCCTTGGGGCGCCCCACG
CTGCTTCCACACCCACCACCTCTGGCCTTGGGTGGTGGCATTACAGGGATGAGGGAGTCACTGTGGGTGGCCACA
GGGCTATGGCCAAGCGTTCCCTGGCCGTCTTCCTCTGGCCTCAGCTTTGTTCCCTATAGGCTGCCCCGCGCCGTGGG
CTGCAGGTCTCGCCGCGCCGCTTGATCCCTGAGGTGTTTTCCATGCTGCGGGTGGTGTCCAGGCAGAGTGGGTGG
GGGCCCCACGGCGACGCCCTTTCTTCCTTGTCCTGCTCCTCACTCTGAGAGCCTTGGGGGTCTCCACCAGTGCAGA
CAAGGGCTACAGTCTCCAGGGCGGGTCTTGTCCTCTTCTCCGCTGGTCCACGCTGGCAGCTCTTGCTTCGGG
CCTGCCTTCTGCCTCCCTTTGGGATCTGTGCTTCCAGGGATCAGCTGCTTGGCTTCTGCTGGAGGTGCCTCCCT
GTGGGGCGCAGCCTGCCTCCTGCTCTCAGTTCCCTCGCCAGAGGCTGCTGCCCTTCCCTGGCTGGGCTCAGGAGGCT
CCTTGTAGGCATATGATGGGGAGGGGTGCCCTACCCACCTCCAAGAGGCTACAGCCCTGTGTCTGGCCATGTG
AGCCCTGGCCTTTACCGGGTGTGCTGTTCTTTTCTGTGGGGCCAGACTTCTGTAAA@CACACAGATGTGGGT
AAGATGAAAAACTGTGGCCCAACAGGGCTTAACCTATGGATGGTGGGATTTTTATCCAATAGTTTGGCCTGGTG
TGCCACACAGGATGGGAACAGGGAGGCACCATCAACACTTGTCTGTTAATGAGCTTTTCTTTGCTCGAGGTGTTT
AGAGACAAGTCTGTGTCTACCTGCGTCAGCCTGAAAATGGAAATATTGGCTGTTGACTCTTGTCTATTAGTGAC
TTCATCCCCCTCCCCTCAGTCTGATCTTGCTCTAAGTAGAATCCAGGCGTTAGTTGGAATCATATCATAAGTATCC
ATGAAGAAAACGTCATGATCTGCCTCGGAGTGGGGAGAAACAGGCCCTCCTTGTCCTTGTCAGCCCCCACTTTT
GTCCTGGCTGTGGGTGGCCATCCATTTTGGACCTCTGCCAGGCTGCAGACCTGGAGGCGAAGGGAGTGTGGAA
GAGGAGGGGTGTAAGGGTCGACGCGTGTGAATGGGAGGTGCAGGTCTCGGTGCGTTGGCAGAAGAGGCTTCTGG
AGTTTCGAGGGCCATACCTCCTTTCAAGAGCTTTGGATTGGGGCGACTTCCCTGGGTCTAGGGGAGTGTTCCTGT
CCCCTGTGAGGTGAGCCCTGCGGAGCCACTCCACCCCTCTTCCCCTTCCCCTGGATTTCCTGACATAGATGGTGT
GTTCAATGTGAGGTGTGAGTGTGCTGTCCTTCTGATCTCTGTTGATCCCGCTTTCCTACTGAGAGGGTGGTGGAG
AGGGTGGTGGTCTCTTCTCACCTCAGTTTTTCTGACACAGCGAATCGAGGGCTTTGGCCAAGGCCAGGTCTCTCA
AACTTGTCCGCCAAGTAAACCATGATATATGCTTCCCTTCCACCTTAACCTTGGCCCAACTCCTCTTTTATCCT
AACATGGACGCTCAGATTTAGAGGAATACCCAGCAGGGACAGGTGAGTCTCACCAGGAGAGTGGAGGCCCTGG
CTGCTGCTCGGGGTGGCACTGGTGTGCTGGCTCAGCTCTTGCTGATGTTTTCAGATATGTGTGTACACTTCTGA
CTGGTGATCAGGGCCCCGCCCACGGCCCTGAGCGGCTGCAGCCTGCTTTGGGACGATGGTCAGGTCCCATGTTGTC
CCTGCTGCCTCCCTCTGGAGTGGCCACTTGGCCAAAGCGCCCATCCACATCTGGAAAGTCGGAGCCGCGAGCCTGC
TGCACCGTTTTCCGCTCTGGGATCTTGTGAGTTACTTTTTTAGGCTGTGGTTTTGGTGAAAGGAACCAACACATTAA
CGATTTTTCCCCCAGAAGCCACTGAATAATTCTTTTGGTGTATTTTTGCCTTCCTGTTGGCTGTCTGGCCTTGG
AGCAGGTGCGGGAGAGTAGAGTACATAATCAGTGCCACACAGAGGCAGGGCGTGTCTGAGAGACTAATGCCTGTCC
TGCTCTGGCCTGTGTCTGGGTGTGTACCATACCTGCTGGGCCAGTCCCACACATTTCCACCCTGCCCCTGGAG
CAGCAGCTTTGATACCATGGGTGTCCCTTGAGTCTGAGCTAGAGTGTGTCCCCGATAAACTGTGAGACCTCCCTG
TTCTTGGTGACCCAGTTGGGCTTTGGCCCTCCAGCAACCTTGTGTCCAGCCCTGCCCTTCTTCCCACCCCT
CAATCTGCTAGTCCCTGAAGCCTTTAACCAAAACGGGAGTGGGCACAGAAAGCCTTCTCCTGGCAACAGGACAAGG
GCTGCCCCGCTGTCCAGCCCTGTTGCTCTCCTGGCGCTGAGAGGTGGGTCCAAGCAGAGTTGATCAGTCCCTGCC
TGCCCTGCCTAGGTCTAGCCAGGGGAGGTTGTGTGTGTGGGAGAAGACCCGGGATCTGCTGGGGTGGGATGGAG
GTTATTAAAGATCTAAGTAGGAGGGGCTGGGGTTGGATGCGGGGTGAGGCCCGAGCGCTCAACCTTCGTGTAG
GGCGGGCAGGGGCTGACCTCTTGACGGGCAGTGGCCTTGGTGCCCTACCCCTGCCCTGCGCAGTATTTATTGCT
AAATTATTGTCCAGGAGGGGACGATGTGGCCTGGCCCCCGGGTATTTATTGCTGTACATAGTGTATGTTTGTG
ATATATAAGGTTTTCTTTATTTTGTATATGATCAATAAACCTTTTAAAGAG

4043/5332
FIGURE 3520

GGCTCCCAGGCCCGCCTGATGCCGCTTCCCTTTTTGGCAGGTGGCAGGATCCCATTTTCTCACTGGCGACTCCC
CTGCGTGCTGGTGAAGAAGGCAGCCACAGTCGGAAGTCGCTGTGCAGAAGCAGAGAGGAGGCCCGCCTGGGGAC
CGGGGTGCACCGCTTAGCTCGGCCCCCATCCTAGGGGGCTGGTTTGGCAGGGGCTGCACAAAACGCACAAAAGG
AAGCCCCCTTGCACTGCTGCGGTTGTACCCTGATACGGCCTGGCCATCGAGGACACCTGCCCCATCCGGCCTCTGTG
TCAAGAGGTGGCAGCCGCACCTTTCTGTGAGAACGGAACTCGGGTTATTTTCAGCCCCGGCCTGCAGAGTGGAAGC
GCCCAGCGGCCTTTCTCGCTCACCAGGCCAGTCTCAGGGCCTCACCGTATTTCTACTACTACTTAATGAAAAAG
TGTGAACTTTATAGAATCCTCTCTGTACTGGATGTGCGGCAGAGGGGTGGCTCCGAGCCTCGGCTCTATGCAGAC
CTTTTATTTCTATTAAACGTTTCTGCACTGG

4044/5332
FIGURE 3521

GC GGGCGGGCGGCTCGGAGTCGCCGGGAGCTGCCAGGCTGCTCCGCGCGCCGCTGCGGGGCCATGATCCGGAAC
GGGCGCGGGGCTGCAGGCGGGCGCAGAGCAGCCGGGCCCCGGGGGGCAGGCGCGCCGTGAGGGTGTGGTGCGATGGC
TGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTA
GGCGTGACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCCGGTGTTCACCTCAGGAGGAGAGATACAAGATG
GTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACCTAGAGACCTTGGACAAA
TACAACTGTGACTTCTGTGTTACGGCAATGACATCACCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTA
AAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCCGCATGCTG
CTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAAG
TGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCAGTTCTCTGCAGACATCTCAGAAGATCATCCAGTTTGCT
TCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCAT
GTGGACTTCTTGAGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAG
GTCAATCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCTGGCCTGCCGG
TACGTGTCAGAAGTGGTGATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTG
GTGTGTCACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGG
ATCTTCCGTGAGATTGACAGTGGCAGCAACCATCACCAAAGACTCATCGTCAGCGGATTATCACAAACAGAGGCG
CTAAACGAGAAGAAGGAAGCCAAGGAGCTCGCCTTCTTGAGGTGCCAGGCAGCAGGCGCACAGCCCTGGGGAGC
GCGATGGTACTTCTAACCTGGCAGAGCCCTGCCGGCCCTCCCCCTGCTCTGCTTCTGCGCCTTCTGCGTTTGGAC
ATAGGACTCTGCAGGGCCGCCCTCTCTAACTGGCCTGGCTCTGGAAGGGCTGGTGAGGACTCTGCCTCCTTGCT
GCCTACAAGGTGCCTGGTTTGAGCAGGCTCTCCGCTCTTTCCAGCAAAGCTGCTCAGAGAGGGTGTCCAGCACA
GTGGAGAGGCCGGAAGTGAGACGGGCAGACGGCACCTGCAGCCTGAAACGCACCGCTCCTGCGTGCGCCCCACC
TGGTCCCCGGATGCCCCACCACCTGGACAGAGGCCACACTGACTGCCCACCCAGCTGTGGCGGGAGGTGCAGAG
CAGAGGGCTTTAGGGAGCAGTGACTGCGGTACCCCTTTAGTTCTCTGGGTGTAGACCACACCACCTCCCACTGG
GCACCCCCAACACGGTGTCTGCCCACCCAGCGCCTGGCTCCAGGAAAACACGCTTGCTTCTTCCCGGCAGCT
TCGCCACTCTCCTTATGGACTCTGTTCTGTTTGTACATGGCTGACGGAAATCTCTTTGGTACAACCGAATAAAGC
CTGGTGGCAGTGCTGCGCGGGGCTCCAGCC

4045/5332
FIGURE 3522

AGAAGCAGAGGAGCCAGGAACCTCTCTGAAGTGACACCTCACCCCTACACACCGTCCGTTACCCCCGTCTCTTC
CTTCTGCTTTTTCGGTTTTTGGAAAGGGATCCATCTCCAGGCAGCCCACCCTGGTGGGGCTTGTTTCCTGAAACCA
TGATGTACTTTTTCATACATGAGTCTGTCCAGAGTGCTTGCTACCGTGTTCCGGAGTCTCGCTGCCTCCCTCCCGC
GGGAGGTTTCTCCTCTTTTTGAAAATTCCGTCTGTGGGATTTTAGACATTTTCGACATCAGGGTATTTGTTCC
ACCTTGGCCAGGCCTCCTCGGAGAAGCTTGTCCTCCCGTGTGGGAGGGACGGAGCCGGACTGGACATGGTCACTCA
GTACCGCCTGCAGTGTGCGCATGACTGATCATGGCTCTTGCATTTTTGGGTAAATGGAGACTTCCGGATCCTGTC
AGGGTGTCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCGGCACAGGCCTGGGCCTTCCCC
TCCCTCAAGCCAGGGCTCCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCCTCTCTACAGCACGGCCTGTGG
CCTGTTCAAGGCAGAACCACGACCCTTGACTCCCGGTGGGAGGTGGCCAAGGATGCTGGAGCTGAATCAGACG
CTGACAGTTCTTCAGGCATTTCTATTTACAATCGAATTGAACACATTGGCCAAATAAAGTTGAAATTTTACCAC
CTCAAAAAAAAAAAAAAAAAATTAAAAAAAAAAAAAAAAAAAAA

4046/5332
FIGURE 3523

CCCCTACACACCGTCCGTTCACCCCGTCTCTTCCTTCTGCTTTTCGGTTTTTGGAAAGGGATCCATCTCCAGGC
AGCCCACCCTGGTGGGGCTTGTTTCCTGAAACCATGATGTACTTTTTCATACATGAGTCTGTCCAGAGTGCTTGC
TACCGTGTTTCGGAGTCTCGCTGCCTCCCTCCCGCGGGAGGTTTCTCCTCTTTTGGAAAATTCCGTCTGTGGGATT
TTTAGACATTTTTCGACATCAGGGGTGTCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCG
GCACAGGCCTGGGGCTTCCCCTTCCCTCAAGCCAGGGCTCCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCC
TCTCTACAGCACGGCTGTGGCCTGTTCAAGGCAGAACCACGACCCTTGACTCCCGGGTGGGGAGGTGGCCAAGG
ATGCTGGAGCTGAATCAGACGCTGACAGTTCTTCAGGCATTCTATTTCACAATCGAATTGAACACATTGGCCAA
ATAAAGTTGAAATTTT

4047/5332
FIGURE 3524

GGAGTTTCGTCATGTTGGCCAGGCCCATTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCCATGAA
GGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTGGCATCTGCAG
GATGGCATTTAACGGATGCTGCCCCTGACTGCAAGGTGCCCGGCGACGACTGCCCGCTGGTGTGGGGCCAGTGCTC
CCACTGCTTCCACATGCATTGCATCCTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTGCCG
CCAGGAATGGAAGTTCAAGGAGTGAGGCCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCTCATG
CTGGCGCCGATGGCTGCTGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAAACAAGGGCTGGAGCTGCGTTTGTT
TTGCCATCACTATGTTGACACTTTTATCCAATAAGTGAAAACCTATTAAACTACTCAAATCTT

4048/5332
FIGURE 3525

GGGGCGGCCGACGACGTTTCGTCATTTAGTGCGGGAGGGATCCTGAACCGCGCGGCCGAAACCTCCGGTGTCCGA
CCCAGGCTAAGCTTGAGCATGGCTGAGCAGGAGCCCACAGCCGAGCAGCTGGCCCAGATTGCAGCGGAGAACGAG
GAGGATGAGCACTCGGTCAACTACAAGCCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGAC
GACGAGAGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCGCGTGGCCGTTTCCGCAGACCCCAACGTCCCCAAC
GTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGCGACCTG
GAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTCTTTCCGGGTAAAC
CGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGACAAGACTGACTAC
ATGGTAGGCAGCTATGGGCCCCGGGCCGAGGAGTACGAGTTTCTGACCCCGTGGAGGAGGCACCCAAGGGTATG
CTGGCCCCGGGGCAGCTACAGCATCAAGTCCCGCTTACAGACGACGACAAGACCGACCACCTGTCTGGGAGTGG
AATCTCACCATCAAGAAGGACTGGAAGGACTTGAGCCCAGCCAGAGGCGGGCAGGGCAGACTGACGGACGGACGAC
GGACAGGCGGATGTGTCCCCCAGCCCCCTCCCCCTCCCATACCAAAGTGCTGACAGGCCCTCCGTGCCCTCCC
ACCCTGGTCCGCCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCTCCTCAGCCCTCCCCACCCACAGG
CCCAGCCTCCTCGGTCTCCTGTCTCGTTGCTGCTTCTGCCTGTGCTGTGGGGAGAGAGGCCCGAGCCAGGCCTC
TGCTGCCCTTTCTGTGCCCCCAGGTTTCTATCTCCCCGTACACCCGAGGCCCTGGCTTCAGGAGGGAGCGGAGCA
GCCATTCTCCAGGCCCCGTGGTTGCCCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGTGTGGGATG
CACGGCCTCGTGGGGGCCGGGCCGTCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTGCTGTGCGGTCCCG
TCTAACCATGATGCCCTTAACATGTGGAGTGTACCGTGGGGCCTCACTAGCCTCTAACTCCCTGTGTCTGCATGAG
CATGTGGCCTCCCCGTCCCTTCCCCGGTGGCGAACCCAGTGACCCAGGGACACGTGGGGTGTGCTGCTGCTGCTC
CCCAGCCCACCAGTGCTGGCCAGCCTGCCCCCTTCCCTGGACAGGGCTGTGGAGATGGCTCCGGCGGCTTGGGG
AAAGCCAAATTGCCAAACTCAAGTCACCTCAGTACAATCAGGAGGCTGGGTATTGTCTGCTCTGCCTTTTCT
GTCTCAGCGGGCAGTGCCAGAGCCCACACCCCCCAAGAGCCCTCGATGGACAGCCTCACTACCCACCTGGG
CCCAGCCAGGAGCCCCGCCTGGCCATCAGTATTTATTGCCCTCCGTCCGTGCCGTCCCTGGGCCACTGGCCTGGCG
CCTGTTCCCCCAGGCTCTCAGTGCCACCACCCCGGCAGGCCTTCCCTGACCCAGCCAGGAACAAACAAGGGAAC
AAGTGACACATTGCTGAGAGCCGTCTCCTGTGCCTCCCCCGCCCCATCCCCGGTCTTCGTGTTGTGTCTGCCAG
GCTCAGGCAGAGGCGCCTGTCCCTGCTTCTTTTCTGACCGGGAATAAATGCCCTGAAGG

4049/5332
FIGURE 3526

CTCCGGACAGCATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGCTTTCACAGCAG
CAGGCGTCTTGGCTGCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGA
AGATGGGGGTGAAGTTGACACCCCAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCTGCTGTGAAGC
CACACATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGTCTGCGCGG
CCGGCGTCAACATCAGCTCCATTGAGAAGAAGCTGTGAGCGTTTCGGCCAGCCCCAGGGTCATCCGCTGCATGA
CCAACACTCCAGTCGTGGTGCAGGAGGGGGCCACCGTGTATGCCACAGGACGCACGCCCAGGTGGAGGACGGGAG
GCTCATGGAGCAGCTGTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTACGGG
GCTCAGTGGCAGCGGCCCCGCTACGCATTACAGCCCTGGATGCCCTGGCTGATGGGGGTGTGAAGATGGGACT
TCCAAGGCGCTGGCAGTCCGCCTCGGGGCCAGGCCCTCCTGGGGGTGCCAAGATGCTGCTGCACTCAGAACA
GCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCTGGTGGGGCCACCATCCATGCCTTGATGTGCTGGAGAG
TGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGC
TGACCAGGAGCAGGTGTCAACAGCCGCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCTGCAGG
GACCGCTCTGTACCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTGGCCCCAGCGGGCAAGGATTGACACGT
CCTGCCTGACCACCATCTGCCACCACCTTCTCTTCTCTTGTCACTAGGGGGACTAGGGGGTCCCCAAGTGGCC
CACTTTCTGTGGCTCTGATCAGCGCAGGGGGCCAGCCAGGGACATAGCCAGGGAGGGGGCCACATCACTTCCCACTG
GAAATCTCTGTGGTCTGCAAGTGCTTCCCAGCCCAGAACAGGGGTGGATTCCCCAACCTCAACCTCCTTTCTTCT
CTGCTCCCAAACCATGTCAAGGACCACCTTCCTCTAGAGCTCGGGAGCCCGAGGGGTCTTCACCCACTCCTACTCC
AGTATCAGCTGGCACGGGCTCCTTCTGAGAGCAAAGGTCAAGGACCCCTCTGTGAAGGCTCAGCAGAGGTGGG
ATCCCACGCCCCCTCCCGGCCCCCTCCCTGCCCTCCATTAGGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCA
GAGGGTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCCCTTTGGCTGCCAAGCACGCAGATCCCATGGA
CATTGGGGAAAGGGCTCCTTGGGCTGCTGGTGAACCTTCTGTGGCCACCACCTCCTGCTCCTGACCTCCCTGGGA
GGGTGCTATCAGTTCTGTCTGGCCCTTTTCAAGTTTTATAAGTTGGTTTCCAGCCCCCAGTGTCTGACTTCTGTC
TGCCACATGAGGAGGGAGGCCCTGCCTGTGTGGGAGGGTGGTTACTGTGGGTGGAATAGTGGAGGCCCTTCAACTG
ATTAGACAAAGCCCCGCCACATCTTGAGGGCATCTGCCTTACTGATTAAATGTCAATGTAATCT

4050/5332
FIGURE 3527

GACATGGAGCTGTTTCCTCGCGGGCCGCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGCTGGTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTCATCCAGGTGTGCGAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACCTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCACCTTTGCCGGTGGAAGGGGGCTTCTGGGCCTGCTAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCC

4051/5332
FIGURE 3528

TGCCCCCAGCCTGCGGCCTGACGACGTCTTCATCGCCGTCAAGACCACCCGGAAGAACCACGGGCCGCGCCTGCG
GCTGCTGCTGCGCACCTGGATCTCCCGGGCCCGCCAGCAGACGTTTATCTTCACCGACGGGGACGACCCTGAGCT
CGAGCTCCAGGGCGGCGACCGTGTCAACACCAACTGCTCGGCGGTGCGCACTCGTCAGGCCCTCTGCTGCAA
GATGTCCGTGGAGTATGACAAGTTCATTGAGTCCGGGCGCAAGTGGTTTGGCCACGTGGATGATGACAATTATGT
GAACGCCAGGAGCCTCCTGCACCTGCTCTCCAGCTTCTCAGCCAGGACGTCTACCTGGGGCGGGCCAGCCT
GGACCACCCCATGAGGCCACCGAGAGGGTCCAGGGTGGCAGAACTGTGACCACGGTCAAGTTCTGGTTTGCTAC
TGGTGGGGCCGGGTCTGCTCAGCAGAGGCCTTGCCCTCAAGATGAGCCCATGGGCCAGCCTGGGCAGCTTCAT
GAGCACAGCTGAGCAGGTGCGGCTGCCGGATGACTGCACAGTTGGCTACATCGTGGAGGGGCTCCTGGGCGCCCG
CCTGCTGCACAGCCCCCTCTTCCACTCTCACCTGGAGAACCTGCAGAGGCTGCCGCCCCGACACCCTGCTCCAGCA
GGTTACCTTGAGCCATGGGGTCTCTGAGAACCACATAACGTGGTGAACGTGGCTGGAGGCTTCAGCCTGCATCA
AGACCCACACGGTTTAAGTCTATCCATTGTCTTCTGTACCCAGACACGGACTGGTGTCCAGGCAGAAACAGGG
CGCCCCGACCTCTCGG**TGAC**ACCAACCACCCCGACCCAGGGCTGCCTGGCTCTGTCCCAGGCGCGGGGAACCAGA
GCCCCCTATGGGCTCAGTGGGCTCCCTCAGGTGCCACGGCCACACCAGTGAGATGCAGGCACCTGGCAGACCCTC
TGGCTAGCCTGCAGCCCCCTCTCCCAGCCCCCTGGTGGGCTGCGGTGATGGGTGTTTTGGGAGAACGAAGACAG
CCAGGCTGATGGCCAGGGCCGAGTGCCCCCTCCCCCGACCCAGCCCCAAGGTTGATCCCACGGGAACAGGCTTC
CACCCAGCACTTGCGCACCTGGGAGGGAGCTGCCATCCGGGCTCCATTACCTGTTGCTGAAGGCGGGTGCTAGG
CTGGCTGGGTGTCAAGGAGCAGGCTCCAGGCCAAGGTCCTGGCCCAGCCACGGCCATTGCAAGGGCTCAGCCTGG
CAGGCTTTGTGGGGACGCCGCCCTCTCTGCCGAGGCTGGGTGCACGGCCGGGCACACAGTGGGACTCAGGCC
CGGGAAGGTCATGTTCTCGACCAGAGCTTTGCTCCCAGTCCAGGCGCCTCATTCGGAGGCCTCTTGACTGGGACC
ACAGAGATGTTTTCTCCGCTCTGACTTGTGGCTCAGGACTACTTTCTGGGTCGTGCTCCTGCCCCACTGTGCCTG
GGCCCATAAACAACAGGAGCCTTTTGTTCGCTGACCTGCCCATCCCAGCAGACCCACCTCCCCGCTGGTGCCT
TCCATGGAGGGAATGGGACAGGGGCCGTATCTCCCCTCTGCCTCCTGCTTTGCTGTTGCCGAGCACGAGTAAA
GCTTTTGTTCCTTACTTC

4052/5332
FIGURE 3529

GGAAGTGGACGGCACGCCGCGGGTGGGTGCAAGATGCCGCTGCCGGTTCAGGTGTTTAACTTGCAGGGGGC
CGTGGAGCCCATGCAGATCGACGTGGACCCCCAGGAAGACCCGCAGAATGCACCTGACGTCAACTACGTGGTGGA
GAACCCAGCCTGGATCTGGAACAGTACGCGGCCAGCTACAGCGGCCTGATGCGCATCGAACGGCTGCAGTTCAT
TGCTGATCACTGCCCCACGTGCGGGTGGAGGCCCTGAAGATGGCCCTCTCCTTCGTGCAGAGAACCCTTTAACGT
GGACATGTACGAGGAGATCCACCGCAAGCTCTCAGAGGCCACCAGGGAGCTGCAGAACGCACCCGACGCCATCCC
TGAGAGCGGCGTGGAGCCCCAGCCCTGGACACGGCTGGGTGGAGGCCACGCGGAAGAAGGCGCTGCTGAAGCT
GGAGAAGCTGGACACAGACCTGAAGAACTACAAGGGCAACTCCATCAAAGAGAGCATCCGGCGCGGCCACGACGA
CCTGGGCGACCACTACCTGGACTGTGGGGACCTCAGCAACGCCCTCAAGTGCTATTCCCGGGCCCGGGACTACTG
CACCAGCGCCAAACACGTCAATCAATGTGCCTCAATGTCATCAAGGTGAGCGTCTACTTGCAGAAATTGGTCTCA
TGTGCTCAGCTACGTGAGCAAGGCTGAGTCCACCCAGAGATTGCCGAGCAGCGAGGAGAGCGTGACAGCCAGAC
CCAGGCCATCCTCACCAGCTCAAGTGTGCCGAGGCTTGCGAGAGCTGGCCGCCAGGAAGTACAAGCAGGCTGC
CAAGTGCCCTCCTGCTGGCTTCCTTTGATCACTGTGACTTCCCTGAGCTGCTGTCCCCAGCAACGTGGCCATCTA
CGGTGGCTGTGCGCCTTGGCTACCTTTGACCGGCAGGAGCTGCAGCGCAATGTCATCTCCAGCAGCTCCTTCAA
GTTGTTCTTGGAGCTGGAGCCACAGGTCCGAGACATCATCTTCAAATTCTACGAGTCCAAGTACGCCTCATGTCT
CAAGATGCTGGACGAGATGAAGGACAACCTGCTCCTGGACATGTATCTGGCCCCCATGTCAGGACCTGTACAC
CCAGATTGCAACCGTGCCCTCATCCAGTATTTACGCCCCTACGTGTCAGCCGACATGCATAGGATGGCGGCAGC
CTTCAATACCACGGTGGCCGCCCTGGAGGACGAGCTGACGCAGCTAATCCTGGAGGGGCTGATCAGTGCCCGTGT
GGACTCACACAGCAAGATCCTATACGCCCCGGGACGTGGATCAGCGCAGCACCACCTTTGAGAAGTCTCTGTTGAT
GGGCAAGGAGTTCCAGCGCCGCGCCAAGGCCATGATGCTGCGGGCAGCTGTGCTCCGCAACCAGATCCATGTCAA
GTCCCCGCCAGAGAAGGGAGCCAGGGGGAGCTGACTCCAGCCAACAGCCAGTCCCGGATGAGCACCACATGTG
AGGGGTGAACCTTGGCCTCCAGGACATCTGCACCCCTCCCCACCTCCACGGACCTCGGACCTCCAGGCGGCTCA
GTGCTGCCTGCGGCCAGCTAAGGGGCTGGCCACTGGGTGCCACCCAGCCTGTGTGCCCTCCCTGGGGCTGAGG
AGGCAGGCGGCTGCTAGTTGTGGCCCTTCTTGAAGGAGAGGCTGCAGGGCTCGACCTGTGGGTTTCTGTCCC
CAGGGAGCAGACTGTGCGGCACCCAGGCCAGTGGCACCATTTCAGACCCCTCCTGTTCCGCGCTCAGTCAGG
TGCAGACAAGTGGGCGGTGTCCATTAAAGAGCAGACTCAGCGTT

4053/5332
FIGURE 3530

AGGACGTGGAGCGCTGCCTCCGGGACACGGGTGTGCAGGGCGTCATGAGCGCAGAGGGCAACCTGCACAACCCCG
CCCTGTTTCGAGGGCCGGAGCCCTGCCGTGTGGGAGCTGGCCGAGGAGTATCTGGACATCGTGCGGGAGCACCCCT
GCCCCCTGTCTACGTCCGGGGCCACCTCTTCAAGCTGTGGCACCACACGCTGCAGGTGCACCAGGAGCTGCGAG
AGGAGCTGGCCAAGGTGAAGACCCCTGGAGGGCATCGCTGCTGTGAGCCAGGAGCTGAAGCTGCGGTGTCAGGAGG
AGATATCCAGGCAGGAGGGAGCGAAGCCACCGGCGACTTGCCCTTCCACTGGATCTGCCAGCCCTACATCCGGC
CGGGGGCCAGGGAGGGGAGCAAGGAGAAGGCAGGTGCGCGCAGCAAGCGGGCCCTGGAGGAAGAGGAGGGTGGCA
CGGAGGTCTGTCCAAGAACAAGCAAAAGAAGCAGCTGAGGAACCCCCACAAGACCTTCGACCCCTCTCTGAAGC
CAAAATATGCAAAGTGTGACCAGTGTGGAAACCCAAAGGGCAACAGATGTGTGTTTCAGCCTGTGCCGCGGCTGCT
GCAAGAAGCGAGCCTCCAAAGAGACTGCAGACTGCCCAGGTACCGATTGCTTTTTAAACCAAATTGGAGAAGT
CTCTGGCCTGGAAAGAGGCCCAGCCTGAGCTGCAGGAGCCTCAGCCAGCAGCACCTGGAACACCAGGTGGCTTCT
CCGAAGTCATGGGCAGTGCCCTGGCCTGAAGGCCCAACCCCCACCCCAGGACTGCTGCTGGAGCCTGGACAC
GTCCTACTTAAGAAAATGCCTTTTACTCAGGGAATCTCCTGCTACTTAATGTGGAAAGACACGCCCCATGTCCCCC
TTCGGCCCACTCTGGGGGCTGGAAATGCTGCAGTGGGGAGCAGGCCCCAGGCTGGACCTGCCCTGTCTCAGCA
CGCGTGTGCAAAAGTGAACAATAAATCATTTCAAAGATGCG

4054/5332
FIGURE 3531A

ACGGCAGCGGCCCCGGCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCAGCCTCGCTCTCCGC
CGCCCCGACCGCCGCCCGCCCTCACCAGAGCAGCCATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCT
GCCAGAGTCGGAGAACTTGAGGAGTTCTGGGACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCG
TCGCTGGAAGGCGGCTCTACGGCCTGCCCCGGCGGTCCGGCAAGCTGAAGGACCTGTCTAGGTTTGATGCCTCCT
TCTTCGGAGTCCACCCCAAGCAGGCACACACGATGGACCCTCAGCTGCGGCTGCTGCTGGAAGTCACCTATGAAG
CCATCGTGGACGGAGGCATCAACCCAGATTCACTCCGAGGAACACACACTGGCGTCTGGGTGGGCGTGAGCGGCT
CTGAGACCTCGGAGGCCCTGAGCCGAGACCCCGAGACACTCGTGGGCTACAGCATGGTGGGCTGCCAGCGAGCGA
TGATGGCCAACCGGCTCTCCTTCTTCTCGACTTCAGAGGGCCAGCATCGCACTGGACACAGCCTGCTCCTCCA
GCCTGATGGCCCTGCAGAACGCCCTACCAGGCCATCCACAGCGGGCAGTGCCCTGCCGCCATCGTGGGGGGCATCA
ATGTCCTGTGAAGCCCCAACACCTCCGTGCAGTTCTTGAGGCTGGGGATGCTCAGCCCCGAGGGCACCTGCAAGG
CCTTCGACACAGCGGGGAATGGGTACTGCCGCTCGGAGGCTGTGGTGGCCGTCTGCTGACCAAGAAGTCCCTGG
CCCGGCGGGTGTACGCCACCATCCTGAACGCCCGGCACCAATACAGATGGCTTCAAGGAGCAAGGCGTGACCTTCC
CCTCAGGGGATATCCAGGAGCAGCTCATCCGCTCGTTGTACCAGTCGGCCGGAGTGGCCCTGAGTCATTTGAAT
ACATCGAAGCCCACGGCACAGGCACCAAGGTGGGCGACCCCGAGGAGCTGAATGGCATCACCCGAGCCCTGTGCG
CCACCCGCCAGGAGCGCTGCTCATCGGCTCCACCAAGTCCAACATGGGGCACCCGGAGCCAGCCTCGGGGCTGG
CAGCCCTGGCCAAGGTGCTGCTGTCCCTGGAGCACGGGCTCTGGGCCCCAACCTGCACTTCCATAGCCCCAACCC
CTGAGATCCCAGCGCTGTGGATGGGCGGCTGCAGGTGGTGGACCAGCCCTGCCCGTCCGTGGCGGCAACGTGG
GCATCAACTCCTTTGGCTTCGGGGGCTCCAACGTGCACATCATCTGAGGCCAACACGCAGCCGCCCGCCCGCAC
CCGCCCCACATGCCACCTGCCCGTCTGCTGCGGGCCAGCGGACGCACCCCTGAGGCGGTGCAGAAGCTGCTGG
AGCAGGGCCTCCGGCACAGCCAGGACCTGGCTTTCTGAGCATGTGAACGACATCGCGGCTGTCCCCGCCACCG
CCATGCCCTTCCGTGGCTACGCTGTGCTGGGTGGTGAGCGCGGTGGCCAGAGGTGCAGCAGGTGCCCGTGGCG
AGCGCCCGCTCTGGTTTCACTGCTCTGGGATGGGCACACAGTGGCGCGGGATGGGGCTGAGCCTCATGCGCCTGG
ACCGCTTCCGAGATTCCATCCTACGCTCCGATGAGGCTGTGAAGCCATTCGGCCTGAAGGTGTACAGCTGCTGC
TGAGCACAGACGAGAGCACCTTTGATGACATCGTCCATTCTGTTGTGAGCCTGACTGCCATCCAGATAGGCCTCA
TAGACCTGTAGCTGCATGGGGCTGAGGCCAGATGGCATCGTCGGCCACTCCCTGGGGGAGGTGGCCTGTGGCT
ACGCCGACGGCTGCCTGTCCAGGAGGAGCCGCTCCTCGCTGCCTACTGGAGGGGACAGTGCATCAAAGAAGCCC
ATCTCCCGCGCGGCCATGGCAGCCGCTGGGCTTGCTCGGTGGGAGGAGTGAACAGCGCTGCCCCCGGGCGTGG
TGCCCGCCTGCCACAACCTCCAAGGACACAGTACCATCTCGGGACCTCAGGCCCCGGTGTGTTGAGTTCGTGGAGC
AGCTGAGGAAGGAGGGTGTGTTTGCCAAGGAGGTGCGGACCGCGGTATGGCCTTCCACTCCTACTTCATGGAGG
CCATCGCACCCCCACTGCTGCAGGAGCTCAAGAAGGTGATCCGGGAGCCGAAGCCACGTTACAGCCGCTGGCTCA
GCACCTCTATCCCCGAGGCCAGTGGCACAGCAGCCTGGCACGCACGTCTCCGCCGAGTACAATGTCAACAACC
TGGTGAGCCCTGTGCTGTTCCAGGAGGCCCTGTGGCACGTGCCTGAGCACGCGGTGGTGCTGGAGATCGCGCCCC
ACGCCCTGTGTCAGGCTGTCTGGAAGCGTGGCCTGAAGCCGAGCTGCACCATCATCCCCCTGATGAAGAAGGATC
ACAGGGACAACCTGGAGTTCTTCTGGCCGGCATCGGCAGGCTGCACCTCTCAGGCATCGACGCCAACCCCAATG
CCTTGTTCCACCTGTGGAGTTCCAGCTCCCCGAGGAACCTCCCTCATCTCCCCACTCATCAAGTGGGACCACA
GCCTGGCCTGGGACGTGCCGGCCGCCGAGGACTTCCCCAACGGTTCAAGTTCCCCCTCAGCCGCCATCTACAACA
TCGACACCAGCTCCGAGTCTCCTGACCACTACCTGGTGGACCACACCCCTCGACGGTCGCGTCTCTTCCCCGCCA
CTGGCTACCTGAGCATAGTGTGAAGACGCTGGCCCGCGCCCTGGGCCTGGGCGTCGAGCAGCTGCCTGTGGTGT
TTGAGGATGTGGTGTGCACCAAGGCCACCATCTGCCCAAGACTGGGACAGTGTCCCTGGAGGTACGGCTCCTGG
AGGCCTCCCGTGCCTTCGAGGTGTGAGAGAACGGCAACCTGGTAGTGAGTGGGAAGGTGTACCAGTGGGATGACC
CTGACCCAGGCTCTTCGACCAACCGGAAAGCCCCACCCCCAACCCACGGAGCCCTCTTCTGGCCAGGCTG
AAGTTTACAAGGAGCTGCGTCTGCGTGGCTACGACTACGGCCCTCATTTCCAGGGCATCCTGGAGGCCAGCCTGG
AAGGTGACTCGGGGAGGCTGCTGTGGAAGGATAACTGGGTGAGCTTCATGGACACCATGCTGCAGATGTCCATCC
TGGGCTCGGCCAAGCACGGCCTGTACCTGCCACCCGCTGTACCGCCATCCACATCGACCTGCCACCCACAGGC
AGAAGCTGTACACACTGCAGGACAAGGCCCAAGTGGCTGACGTGGTGGTGAGCAGGTGGCTGAGGGTCACAGTGG
CCGAGGCGTCCACATCTCCGGGCTCCACACTGAGTCGGCCCCGCGGCGGCAGCAGGAGCAGCAGGTGCCATCC
TGGAGAAGTTTTGCTTCACTCCCCACAGGAGGAGGGTGCCTGTCTGAGCGCGCTGCCCTGCAGGAGGAGCTGC
AACTGTGCAAGGGGCTGGTGCAGGCACTGCAGACCAAGGTGACCCAGCAGGGGCTGAAGATGGTGGTGCCCGGAC

4055/5332
FIGURE 3531B

TGGATGGGGCCCAGATCCCCCGGGACCCCTCACAGCAGGAAGTGGCCCGGCTGTTGTGCGGCTGCCTGCAGGCTTC
AGCTCAACGGGAACCTGCAGCTGGAGCTGGCGCAGGTGCTGGCCCCAGGAGAGGCCCAAGCTGCCAGAGGACCCTC
TGCTCAGCGGCTCCTGGACTCCCCGGCACTCAAGGCCTGCCTGGACACTGCCGTGGAGAACATGCCAGCCTGA
AGATGAAGGTGGTGGAGGTGCTGGCTGGCCACGGTCACCTGTATTCCCGCATCCCAGGCCTGCTCAGCCCCCATC
CCCTGCTGCAGCTGAGCTACACGGCCACCGACCGCCACCCCAAGGCCCTGGAGGCTGCCAGGCCGAGCTGCAGC
AGCACGACGTTGCCAGGGCCAGTGGGATCCCGCAGACCTGCCCCCAGCGCCCTGGGCAGCGCCGACCTCCTGG
TGTGCAACTGTGCTGTGGCTGCCCTCGGGGACCCGGCCTCAGCTCTCAGCAACATGGTGGCTGCCCTGAGAGAAG
GGGGCTTTCTGCTCCTGCACACACTGCTCCGGGGGACCCCTCGGGGACATCGTGGCCTTCTCACCCTCCACTG
AGCCGCAGTATGGCCAGGGCATCCTGAGCCAGGACGCGTGGGAGAGCCTCTTCTCCAGGGTGTGCTGCGCTGG
TGGGCTGAAGAAGTCTTCTACGGCTCCACGCTCTTCTGTGCCCGCGGCCACCCCGCAGGACAGCCCCATCT
TCTGCCGGTGGACGATACCAGCTTCCGCTGGGTGGAGTCTCTGAAGGGCATCCTGGCTGACGAAGACTCTTCCC
GGCCTGTGTGGCTGAAGGCCATCAACTGTGCCACCTCGGGCGTGGTGGGCTTGGTGAAGTGTCTCCGCCGAGAGC
CCGGCGGGAACCGCCTCCGGTGTGTGCTGCTCTCAACCTCAGCAGCAGCTCCACGTCGCCGAGGTGGACCCGG
GCTCCGCAGAACTGCAGAAGGTGTTGCAGGGAGACCTGGTGATGAACGCTTACCGCGACGGGGCCTGGGGGGCTT
TCCGCCACTTCTGCTGGAGGAGGACAAGCCTGAGGAGCCGACGGCACATGCCTTTGTGAGCACCTCACC CGG
GGGACCTGTCTCCATCCGCTGGGTCTGCTCCTCGCTGCGCCATGCCAGCCCACTGCCCTGGCGCCAGCTCT
GCACGGTCTACTACGCCTCCCTCAACTTCCGCGACATCATGCTGGCCACTGGCAAGCTGTCCCTGATGCCATCC
CAGGGAAGTGGACCTCCCAGGACAGCCTGCTAGGTATGGAGTCTCGGGCCGAGACGCCAGCGCAAGCGTGTGA
TGGGACTGGTGCCTGCCAAGGGCCTGGCCACCTCTGTCTGCTGTACCCGACTTCTCTGGGATGTGCCTTCCA
ACTGGACGCTGGAGGAGGCGGCCTCGGTGCCTGTGCTTACAGCACGGCCTACTACGCGCTGGTGGTGGCTGGGC
GGGTGCGCCCCGGGGAGACGCTGCTCATCCACTCGGGCTCGGGCGGCGTGGGCCAGGCCGCCATCGCCATCGCCC
TCAGTCTGGGCTGCCGCGTCTTACCACCGTGGGGTTCGGCTGAGAAGCGGGCGTACCTCCAGGCCAGGTTCCCCC
AGCTCGACAGCACCAGCTTCGCCAACTCCCGGGACACATCCTTCGAGCAGCATGTGCTGTGGCACAGGGCGGGGA
AGGGCGTTGACCTGGTCTTGAACCTCCTTGGCGGAAGAGAAGCTGCAGGCCAGCGTGAGGTGCTTGGCTACGCACG
GTGCTTCTCTGAAAATTGGCAAATTCGACCTTTCTCAGAACCACCCGCTCGGCATGGCTATCTTCTGAAGAACG
TGACATTCACGGGGTCTACTGGATGCGTTCTTCAACGAGAGCAGTGCTGACTGGCGGGAGGTGTGGGCGCTTG
TGCAGGCCGGCATCCGGGATGGGGTGGTACGGCCCTCAAGTGCACGGTGTTCATGGGGCCAGGTGGAGGACG
CCTTCCGCTACATGGCCCAAGGGAAGCACATTGGCAAAGTCGTCGTGACGGTGTTCGGGAGGAGCCGGAGGCGAG
TGCTGAAGGGGGCCAAACCAAGCTGATGTGCGCCATCTCCAAGACCTTCTGCCCGGCCACAAGAGCTACATCA
TCGCTGGTGGTCTGGGTGGCTTCGGCCTGGAGTTGGCGCAGTGGCTGATACAGCGTGGGGTGCAGAAGCTCGTGT
TGACTTCTCGCTCCGGGATCCGGACAGGCTACCAGGCCAAGCAGGTCCGCCGGTGGAGGCGCCAGGGCGTACAGG
TGCAGGTGTCCACCAGCAACATCAGCTCACTGGAGGGGGCCGGGGCCTCATTTGCCGAGGCGGCGAGCTTGGGC
CCGTGGGCGGCGTCTTCAACCTGGCCGTGGTCTTGAGAGATGGCTTGCTGGAGAACCAGACCCAGAGTTCTTCC
AGGACGCTGCAAGCCCAAGTACAGCGGCACCTGAACCTGGACAGGGTGACCCGAGAGGCGTGCCCTGAGCTGG
ACTACTTTGTGGTCTTCTCCTCTGTGAGCTGCGGGCGTGGCAATGCGGGACAGAGCAACTACGGCTTTGCCAATT
CCGCCATGGAGCGTATCTGTGAGAAACGCCGGCACGAAGGCCTCCAGGCCTGGCCGTGCAGTGGGGCGCCATCG
GCGACGTGGGCATTTTGGTGGAGACGATGAGCACCAACGACACGATCGTCAGTGGCACGCTGCCCCAGCGCATGG
CGTCTGCCTGGAGGTGCTGGACCTCTTCTGAACCAAGCCCCACATGGTCTTGAGCAGCTTTGTGCTGGCTGAGA
AGGCTGCGGCCTATAGGGACAGGGACAGCCAGCGGAACCTGGTGGAGGCGGTGGCACACATCCTGGGCATCCGCG
ACTTGGCTGCTGTCAACCTGGACAGCTCACTGGCGGACCTGGGCCTGGACTCGCTCATGAGCGTGGAGGTGCGCC
AGACGCTGGAGCGTGAGCTCAACCTGGTGTGTCGTCGCGAGGTGCGGCAACTCACGCTCCGGAAACTGCAGG
AGCTGTCTCTCAAAGCGGATGAGGCCAGCGAGCTGGCATGCCCCACGCCAAGGAGGATGGTCTGGCCAGCAGC
AGACTCAGCTGAACCTGCCTCCCTGCTGGTGAACCCGAGGGGCCACCCCTGATGCGGCTCAACTCCGTGCAGA
GCTCGGAGCGGCCCCCTGTCTCTGGTGACCCAATCGAGGGCTCCACCACCGTGTTCACAGCCTGGCCTCCCGGC
TCAGCATCCCCACCTATGGCTGCAGTGACCCGAGCTGCGCCCTTGACAGCATCCACAGCCTGGCTGCCTACT
ACATCGACTGCATCAGGCAGGTGCAGCCGAGGGCCCCCTACCGCGTGGCCGGCTACTCCTACGGGGCCTGCGTGG
CCTTTGAAATGTGCTCCAGCTGCAGGCCAGCAGAGCCAGCCCCACCCACAACAGCCTCTTCTGTTCGACG
GCTCGCCACCTACGTACTGGCCTACACCCAGAGCTACCGGGCAAAGCTGACCCAGGCTGTGAGGCTGAGGCTG

4056/5332
FIGURE 3531C

AGACGGAGGCCATATGCTTCTTCGTGCAGCAGTTACGGACATGGAGCACAAACAGGGTGCTGGAGGCGCTGCTGC
CGCTGAAGGGCCTAGAGGAGCGTGTGGCAGCCGCCGTGGACCTGATCATCAAGAGCCACCAGGGCCTGGACCGCC
AGGAGCTGAGCTTTGCGGCCCCGGTCCTTCTACTACAAGCTGCGTGCCGCTGAGCAGTACACACCCAAGGCCAAGT
ACCATGGCAACGTGATGCTACTGCGCGCCAAGACGGGTGGCGCCTACGGCGAGGACCTGGGCGCGGACTACAACC
TCTCCCAGGTATGCGACGGGAAAGTATCCGTCCACGTATCGAGGGTGACCACCGCACGCTGCTGGAGGGCAGCG
GCCTGGAGTCCATCATCAGCATCATCCACAGCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCC
GTGCCCCCGCCTGCCACCGGAGGTCACTCCACCATCCCCACCCACCCACCCACCCCGCCATGCAACGGGAT
TGAAGGGTCCTGCCGGTGGGACCCTGTCCGGCCCCAGTGCCACTGCCCCCGAGGCTGCTAGATGTAGGTGTTAGG
CATGTCCCACCCACCCGCCGCTCCACGGCACCTCGGGGACACCAGAGCTGCCGACTTGGAGACTCCTGGTCTG
TGAAGAGCCGGTGGTGGCCGTGCCCCGAGGAAGTGGGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTT
TCTGTGCTTGGATTTCATATTTATTGCATTGCTGGTAGAGACCCCGAGGCTGTCCACCCTGCCAAGACTCCTC
AGGCAGCGTGTGGGTCCCGCACTCTGCCCCCATTTCCCCGATGTCCCCTGCGGGCGCGGGCAGCCACCCAAGCCT
GCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCTCAGCCCGCTGAGTGGGGGGTCTGGGCCAGTCCCCGAGGA
GCTGGGCCCCCTGCACAGGCACACAGGGCCCCGGCCACACCCAGCGGCCCCCGCACAGCCACCCGTGGGGTGCTGC
CCTTATGCCCCGGCGCCGGGCACCAACTCCATGTTTGGTGTGTTGTCTGTGTTGTTTTCAAGAAATGATTCAAAT
TGCTGCTTGGATTTTGAATTTACTGTAACTGTGAGTGTACACGTCTGGACCCCGTTTCATTTTTACACCAATTT
GGTAAAAATGCTGCTCTCAGCCTCCCAACAATTAAACCGCATGTGATCTCC

4057/5332
FIGURE 3532

CAGGGAGTGCCTGCAGCACCCCGGCGGGGCCACCCAGTCTGCGTGTACACGAGGGATGAGGTGACGGGTGAAGC
TGCCCTGCGGGGCACGACGCTGCAGTCGCTGGGCCTGACCGGGGGCAGCGCCACCATCAGGTTTGTCAATGAAGTG
CTACGACCCCGTGGGCAAGACCCAGGAAGCCTGGGCTCGTCAGCGTCCGGCTGGCCAGGCAGCCGCCAGCGCTCC
ACTTCCCTTGGAATCTGGGGAGCTCAGCCGCGGGCAGTTGAGCCGTCCGGAGGACGCGGACACCTCAGGGCCCTG
CTGCGAGCACACTCAGGAGAAGCAGAGCACAAAGGGCACCCGAGCTGCCCCCTTGTTCCTTTCTCGGGTGGGGG
ACAGAGACTGGGGGGCCCTCCTGGGCCCACGAGGCCTCTGACATCATCTTCAGCTAAGTTGCCGAAGTCCCTCTC
CAGCCCTGGAGGGCCCTCCAAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCG
GGAGCGGGATCCCCAGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGGAGCCCGTGGACCGGGAGCCGGTGGT
GTGCCACCCCGACCTGGAGGAGCGGCTGCAGGCCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGT
GGACGACGTGAGAAGACGCTTGGCCCAGCTCAAGAGTGAGCGGAAGCGCCTGGAAGAAGCCCCCTTGGTGACCAA
GGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCTGTTCCTCCGA
CCGCTACGTCCTACAGGGCTTCTTCCGCCCCAGCGAGACAGGTGGGGGACTTGCAGACTTCGTGAGGAGCCACC
TGGGGAACCCCGAGCTGTCATTTTACCTGTTTCATCACCCCTCCAAAAACAGTCCTGGACGACCACACGCAGACCC
TCTTTTAGGCGAACCTCTTCCCGGCCGCTCTGGTGCCTTGGGAGCCGAAGAGCCGGCAGGTGTCTACCTGGAGC
CTGGCCTGCTGGAGCATGCCATCTCCCCATCTGCGGCCGATGTGCTGGTGGCCAGGTACATGTCCAGGGCCGCCG
GGTCCCTTCCCCATTGCCAGCCCCTGACCCCTGCACCTAAGTCTGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCC
CCCCTGAGCCCATCCAGGGACGGCCAGCCCGTGAAGAGGAGCCTGGGCAAGGTGCCCAAGTGGCTGAAGCTGC
CGGCCAGCAAGAGGTGAGAGCTGCCAGCCTGAGGTGCCCACTCCGCCAGCCACAGGACCACCTCCTCTGCCAGCA
GGAATAAAGACTTGTGCATCCCTC

4058/5332
FIGURE 3533

GGGCGCGCGTTGAGGCTGCGGTCATGGAGGGAGCAGGAGCTGGATCCGGCTTCCGGAAGGAGCTGGTGAGCAGGC
TGCTGCACCTGCACCTTCAAGGATGACAAGACCAAAGGTGCGGGTGGGGGTGCGGGCGGGAGGTGGGTCCCCGTGT
CTGTCCTCAGGGACCCCTTTCCTGCAACTCTGCAGGGCCAAGGCCTCGGGAGGGCGGGGGTATGTCTGGAGCACCC
AGCCAGAGCGGTGGGTGAGGGTCCCGCATAACCTCCCCCTGCCTTGAGTGAGCGGGGACGCGCTGCAGCTCATG

GTGGAGTTGCTGAAGGTCTTCGTTGTGGGTGAGCCCAGGGCCACGCTCCCTCCGGGCACAGCATCCGGAATTTT
GCGTTTTTCCAGCGGGAAAACCAAGACGTGTTTTCCCGTTTCCCACAAGGGCCTAAACTTGGGTCTCCTGAGCCT
GTTTGTCAGGTGCTGTGGCCTGGTTCTGGGGGCTGCCCGTGGGTGTTGGGGGGGGCACCGGCCAGGCTGAGGCC
CTCACTGGGCTCGGGTTTAAGATCCCCCAGCATCCCCACCTCTCGCGTTTCTCACCGCAGAAGCAGCAGTCCG
CGGCGTGCGGCAGGCCAGGCAGAAGACGCGCTCCGTGTGGACGTGGACCAGCTGGAGAAGGTGCTTCCGCAGCT
GCTCCTGGACTTCTAGGGATCTCAGCCGTGGCTGAGGCCACCCCCAGAGGAGCCCCTGGTCCACAGAAGCAGGCC
TTGTGTTTTCCAGCGGCCTCTGATAAGAGGCAGGGAAGGACCTGAAGGATTTGGAGTTGATTCAAACAAGATCTCT
GGGAGTCTCCAGCCTGTGCAGAAGGGGCAGGACTGCAGTGCAGTGCAGGCGCTTGGAGTGTCCAGTGGGGACACTG
GTGTGGGAAGGGGCAGCACCTGGGGAGTCCCTGCCTCTCCTCCCTGGGACAAATAGTGTGCATGCCACCCGGGGTC
CTACAGGCAGGTGCTGGGAAAGGCCTGCCACCCGACATCAAAGCTGGCGTCTGACCCTTTCAGCCATGCGATATT
CCCCTTGGAAGATGCTTCCCAGGCTATAAATTTGTTCTCACAAAGCAACATCAATAAATCAAAACTGTCTCTCC
C

4059/5332
FIGURE 3534

GAGGCCCCGACGCGGCTGTGCGAGGGCGGGGCTCGGGGCTGCAGGCGGGGCAGGGCTGGGTGGGGGCGCGCGAC
GCACCTGCCTGCTTCTGACGGGTGGTCCCCAAGCACTGCGGGGCCCCAGCCCAAAGCGGACCTTGACTACCGC
CCAGCCCCGCGCTCCAGGACCTCCCGCCGCGGAGCCCACTCGGATTGCTCTCCGCCCCGGTTCGGCGGAGGCCC
CGTCTCCTGTACCCGGCGCTGGGACTGCTCCGCACCGCGCGGCTCCCTTTCAGCAGCTGCGGGAGCATGCGGAGG
AGGCCCTGCGGGCCCCGCGGGTCA**TG**GAGGAGTTCCGGCGCTCCTACAGCCGCTGTGCAGGGAGAGTGGGGCCG
AGCCCCAGGAGGCTGTCTGACGAGCTGCACCAGCTTCCCAGGGGCGGGCTGGACCTGGCCACGCAAAGCCTGA
CGGTGGAGACCTGCAGGGCCCTGGGCAAGCTGTGCCGAGGGAGACGCTGTGCACGGAGCTGGTCTGAGTGACT
GCATGCTCAGCGAGGAAGGGGCCACACTGCTGCTCCGAGGCTGTGTGCCAACACCGTGTGCGCTTCTGGACT
TAAAGGGCAACAACCTTTCGGGCTGCAGGGGCGGAGGCTCTGGGAAAACCTCTCCAACAGAACAAGTCCATTGAGA
GCCTCACGCTGGAGTGGAACAGCCTGGGCACGTGGGACGATGCCTTCGCCACCTTCTGCGGGGCGCTGGCGGCCA
ACGGCGCCCTGCAGCGGCTGGACCTCCGCAACAACAGATCAGTACAAGGGCGCGGAGGAGCTGGCCCTAGCCC
TGAAGGGCAACACCACCTCCAGCAGCTGGACCTGCGTGGAATAACGTTGGCCTCCTGGGGGGCGGGGCCCTCA
TGAAGTGTCTCCCCAGCAACAGAACCCTGTGGAGACTGGACCTGGCTGGGAACAACATCCCTGGAGACGTCTCA
GAGCCGTGGAGCAAGCCATGGGCCACAGCCAGGACCGGCTCACCACCTTCAGGAGAACCAAGCCCGCACTCACG
TCCTCAGCAAGGAGGTCCAGCACCTCCGGGAGGAGAAGTCCAAGCAGTTCTCGACTTGATGGAGACTATTGATA
AGCAGCGAGAAGAGATGGCCAAGAGCAGCAGGGCGTGGCGAGCCCGTGTAGGGCAGCTTCAGGAAGCCCTGAATG
AGAGGCACCTCCATCATCAACGCTCTCAAGGCCAAGCTGCAGATGACAGAGGCCCGCCTGGCTCTGTGCGAGCAGA
AGGCCCAGGACCTGGGGGAGCTCCTGGCCACAGCGGAGCAGGAGCAGCTGAGCCTGTACAGAGGCAGGCCAAGG
AGCTCAAGCTGGAGCAGCAGGAAGCTGCAGAGCGGGAGTCTAAACTCCTCAGAGACTTGTCTGCTGCCAATGAAA
AGAACCTGCTTCTGCAAAACCAGGTAGACGAGTTGGAGCGGAAGTTCAAGTGTACAGAGGAGCAGCTGTTCCAGA
CCAGGCAGGAGATGACCAGCATGTACAGCTGAGCTGAAGATGCGGGCCATCCAGGCCGAGGAGCGCTGGACATGG
AGAAGAGAAGATGCAGACAGAGCCTGGAGGACTCCGAAAGCCTGCGCATCAAGGAGGTGGAGCATATGACCCGTC
ACCTGGAGGAGAGTGAGAAGGCCATGCAGGAGCGGGTGCAAGGCTGGAGGCGGCGCGGCTGTCCCTGGAGGAGG
AGCTGAGCCGAGTGAAAGCAGCGGCACTCAGCGAGCGTGGCCAGGCTGAGGAGGAGCTGATCAAGGCCAAGAGCC
AGGCCCGCTGGAGGAGCAACAGCGCTGGCTCACCTGGAGGACAAGCTGAGACTGCTGGCGCAGGCACGGGACG
AGGCGCAGGGCGCTTGCCTACAGCAGAAGCAGGTGGTGGCCGAGGCCAGACCGGGTCAGCCAGCTGGGCCTGC
AAGTTGAGGGCCTGCGGCGGCGCCTGGAAGAGCTGCAGCAGGAGCTGAGCCTCAAGGACCAGGAAAGGTGGCCG
AGGTGAGCAGGGTGCGCGTGGAGCTGCAGGAGCAGAACGGCCGGCTGCAGGCGGAGCTGGCGGCTCAGGAGGCGC
TGAGGGAGAAGGCGGCGGCCCTGGAGCGCCAGCTGAAAGTGATGGCGAGCGACACCGAGAGGCGCTGCTGGACA
GGGAGAGCGAGAACGCGTCTCTCCGGGAGAAGCTGCGGCTCCGGGAGGCGGAGATCGCCCGCATCCGGGACGAGG
AGGCCCAGAGGGCGAGCTTCTGCAAGACGCCGTCTGGCTTACGTGCAGGCGTCCCCGTGAGGACCCTGAGCC
CCCCAAAG**TG**AGACAGGCCGGGAGGACCCGGGCGCAGTAGGAGTGATCAGGCGGCGCCGAGATGGACCAGGGG
CTGCGTCCCGCCCGCGCCCTCTTTGAGACCCGGTCTGTCTGTTCCACGCGGCGTTGCGGCGACTGTTGGTGG
TGTGCGGCTGCGGGGGAACCCCGTGGGAGGCGCTGGGAAGGGCTCCCTACCGGCCCTTCTTCCCGGTGACG
CCACGTGGGAGCACACCGGGAAGGGGTCCCGCGGGCGCTTCCCTCGCCTTTTGCATGTACCGTGAACGC
TGGCGCCGCTGCGCGCGGCGGGTTTGGAATACAGCGCGTTTGCACTTTGTGAT

4060/5332
FIGURE 3535

CCCCGCAGGCCGGGCATGGGTGGGGGCGCCGGGCCGTACGATGAGCGCCCTGGGCAGCCCGGTCCGGGCCTACG
ACTTTCTGCTCAAGTTCCTGCTGGTGGGCGACAGCGACGTGGGCAAGGGCGAGATCCTGGCGAGCCTGCAGGATG
GCGCGGGCCGAGTCCCCGTACGGCCACCCGGCGGGCATCGACTACAAGACGACCACCATCCTGCTGGACGGGCGGC
GGGTGAAGCTGCAGCTCTGGGATACTTCAGGCCAGGGAAGATTTTGTACCATATTCCGCTCCTACTCCCGGGGCG
CACAGGGTGTGATCCTGGTCTATGACATTGCGAACCGCTGGTCTTTTGACGGCATTGATCGATGGATTAAGGAGA
TCGATGAGCATGCCCCCGAGTCCCCAAGATCCTGGTGGGGAACCGCCTGCACCTGGCGTTCAAGCGGCAGGTGC
CCACGGAGCAGGCCCAGGCCTACGCCGAGCGCCTGGGCGTGACCTTCTTGAGGTGAGCCCTCTGTGCAATTTCA
ACATCACAGAGTCGTTACGGAGCTGGCCAGGATCGTGCTGCTGCGGCATGGGATGGACCGGCTCTGGCGGCCGA
GCAAGGTGCTGAGCTTGCAAGACCTCTGCTGCCGGGCGGTCTGTCTCTGCACGCCGGTGCACCTGGTGGACAAGC
TCCCGCTCCCCATTGCCTTAAGAAGCCACCTCAAGTCCTTCTCGATGGCCAACGGCCTGAATGCCAGGATGATGC
ACGGCGGTTCTTACTCCCTCACCACCAGCTCCACCACAAAAGGAGCAGCCTCCGCAAAGTGAAGCTCGTCCGCC
CCCCCAGAGCCCCCCCCAAAACCTGCACCAGAAACAGCTGCAAAATTTCTTAAGGAAGGCACTGAAAGAAACACG
GCGGAATCTCTCCAGGAGAAGCTCGGCGTTACCCCCGGCAGCTGGTGGATGCATCTCAGATCCCGGTTCTCTCG
GCGAATGCTGCTTGCGAATGTGTGCGACGCCCTCCGTGTGATGGAAACACACTACCCCGTCGGACTTCGAATTT
TACGTGGATGTGCATGAAGCTCTTGTTTTCGATGTGTGTTTGTAAAGGGAAAATTAGTACTCTGCTCGACTCTTG
GTAACATGAAATTCGAATGTIACCTTTATCATGATTGCACTGCAACTTTTTCTTAAAATAACTGCTTTTGTAAAG
AACGGTGATATTGGAGTGATTAGTATAAATTCAATGGAATTTGAGAAGCAATGGCAGCGGGATAATTTAGAGTCA
CTGATATTACGAGAGGGGTCTTTTTGTAAACCTCCTTTTCAATGTCAAAGCGCCAATTTATAAACGCTGCAGAT
GTAGAGGTTATGTGCAACTGATCTGTCCAGTTTGTGTATGAAATGGATTTGATAAAGTTTTTGCTAGTTATTTAC
TACATTTTGGGATTAATAAGTGATTTATATGCATATTTTCTGTAAATCTACAGTTTTTTGTACAAGATATTCTA
CAAGTTATGAAGCTAAGGGAAGAAAATGCCAAAGATACCTCTAGTTATGTTGAACACAGCCAGCACAGTTTCGAC
ATGTCAAGGAAGAGCTGTTTCAGTAAAGAATGAAGTGAAACACTTATTTAGGAAAATGTTTCTCAACAATAAAA
TGTATAGTTGTTTCTCTC

4061/5332
FIGURE 3536

CTCGCCTCGCCTCGCCCCGCCCCGCCCTCCCCGCCCTGCCTCGCCTCGTCTCGCCTCGCTTCGGTTAGATGCGC
TCGGCGCTCCATAGGCTCCCTGGTGGGGCGCGGGCGCGCACGGACGTCCAGCACGCACGCACGCACGTCCAGC
ACACACGCACATCCAGCACGCACGCACGTACGTCCGGCACTTCGGCCGCGCGGCCCTCAGCGCCGGCCGAAGG
GACCAGGCCGCCGTCCCCAGCGAGAGGCATGCAGCGCTGAGGAGCGGCGACCCAGCACGGCGGGCGCCATGAACCT
CCTGCCGTGTAACCCTCACGGCAACGGGCTGCTCTACGCCGGCTTCAACCAGGACCACGGATGCTTTGCGTGTGG
GATGGAAAATGGATTCCGAGTCTATAACACTGATCCACTAAAAGAAAAAGAGAAACAAGAATTTCTAGAAGGAGG
AGTTGGCCATGTTGAAATGTTATTTTCGCTGCAACTATTTAGCTTTAGTTGGTGGTGGAAAAAGCCGAAATACCC
TCCCAACAAAGTAATGATCTGGGATGACCTGAAGAAGAAGACTGTTATTGAAATAGAATTTTCTACAGAAGTCAA
GGCAGTCAAGCTGCGGCGAGATAGAATTGTGGTGGTTTTGGACTCCATGATTAAGGTGTTACATTACACACAA
TCCCCATCAGTTGCACGTCTTCGAAACCTGCTATAACCCCAAAGGCCCTCTGTGTCCTTTGTCCCAATAGTAACAA
CTCCCTCCTGGCCTTTCCGGGCACGCACACGGGCCATGTGCAGCTTGTGGACCTGGCCAGCACGGAGAAGCCACC
CGTGGACATTCTGCACACGAGGGTGTCTGAGCTGCATTGCACTCAACCTGCAGGGAACAAGAATTGCAACTGC
ATCCGAGAAAGGGACGCTTATAAGAAATATTTGATACTTCATCAGGGCATTAAATCCAGGAAGTGCAGAGGATC
TCAAGCAGCCAATATTTACTGCATCAACTTCAATCAGGATGCGTCCCTCATCTGCGTATCCAGCGACCACGGCAC
AGTGCATATTTTTGAGCTGAAGATCCAAAAGGAATAAACAGTCCAGTTTGGCCTCAGCCAGTTTCTTCCAAA
ATACTTCAGTTCCAAGTGGAGTTTCTCAAGTTTCAGGTTCCCTCAGGCTCTCCGTGCATTTGTGCCTTTGGAAC
AGAGCCAAACGCCGTCATTGCAATTTGTGCAGACGGCAGCTACTACAAATTCCTGTTCAACCCCAAGGGGGAGTG
CATCCGAGATGTCTACGCGCAGTTTCTAGAGATGACCGATGACAAGCTGTGACTCCAGCTGGGGGCGCCACAGCA
CCCACCACCTGCCGCCTTCAGACTCTCGGGGCTGGTGCCAGTGCCCCAGGGGCCCTCCTGGGCCACGGGCTGGAGG
GGCTGCCCAGGGACCTTGGTCTCGAAGCCATACGTGGTTGTCTGCTTTCCTAAGGACTCCCATTTCAGTATTAA
AGAGAGAATCATCATCAAGGCACCGTAGGTAACCTCAGTGGCTGTGACCAGCTCGACTGGCGGCCACTGGCTGTTT
CCATGAGTTTCAGCTGTGACGTTAGCTTCAGTGGCTCCGCCGCATCCTCACACTGACGGGGGCTCCATACGGACCT
GGGGACTGGGCTGAGAGGGTGGACGAGTTTCAGGTTTGTGTTTTGACAGCAGATTCCGTCGTTCTTACTGAGTCTGCA
GCGGGGGAGTGAACAAGTGTGCAGATGTAAGTTCTTACATGATAAGCAGATTGAATACAACACCAGCAGCTTGCC
TTAGAAAGGAGAAAGGAATTCCTTTTCCCGCCCGAACATGAAGAAAAACGACCTGACCCTGTAGAGAGAACACAG
TGTGAATGTTTTCCCTCGTGTGAGCCAGCCTGTGGTCTTCTCCGTACCCGCAACGTGGTCATCTGTGCCCGTGA
CGTCACCTGTGCCCGTGCCTGGCGTCCCCGTCTCCGTTGGGGCCATTAGAATGAGGCAGACACCAGGCCACTCTA
GAAGCCGAGCCGTCACACCTCAGGCGTGTGCGGGGCGGGGACGGGGGTCTCCTGGTTACATTTTGGATTAAACC
TGTTTTCCCGTTATGTGTAGGGAACAGCAGAGTGATGCACGAACCTTTGAACATTTCGTTATGGGGAAAACATCCTT
TAACCTTCGGGGTCTGCTACCCAGAGCAGGGTCTGGGAGGGTCCATGCAGTTCCCGCTGGTGTGGAGGGAAATGCC
TGGTCTGGCCTCCGAGCCCCCAGGTCCACCGTCTCCCTCCCTCATTGTGAAGAATAGCTACACACTAACATTT
TGGGAAGGAGAGGCACATAACTTTTTTAACTTTGGTAAGTATAGGTTATGGGCTCTACATTGTCAGCTACTTGGG
ATATATATTTAATTTTCTTAAATCCCGTTAACTCTATTTTATGGTTTGTATTTCAGATTGCAAACATGTAAAA
CCTGCATAGCAGCGAGTCTCGGTTTTGCCGGTTTCTTTAGTTCTTTACTGTCACTGTATGTAATCAGCTAATT
CTCTGTGGATGTTGCTGTAAAGTATGCATGTTCCCTTCATGTGTATTTAATCATGATGTTTAAATTTGCACACTT
ATTTGTAATGTTTCTTTTAAATAAAAGTGACTAATTTTGTGT

4062/5332
FIGURE 3537

AAAATTAATAAAAATATTTTATTGAATTTTCAGGAAC TTGGTACTTTTTTAAACTTCAAATCTTTGCACACAAAT
CACCCTATACTTTCTAGAATAGTGGAAGTTAGGACTTCAAGATTGTCACTTATCTCCTTGTGTACACAGCACA
GAAACCCCAAGTCCTCACACTGCCCCACCCCCCTTCTGGCCATGACTACCAACTACTCTGTTATTCTAGCGGAG
GACAATGACGGAAGTGGGTAGACGACTGAAGGAGATCAGCTGTCCACCGCGTACTCTACTAAAGTGAGAGGAGGA
GCAACCGAGGATCATGCCGCACACACTCTGAGTGCACCACGTGACGTGGGTCTACGGGAGTTCCCTTTTGTTTT
CTCGTTTGGTTCAGGGCAAAGCTACTGAAATTGTTCTAGTCCCTGAGGAGCTCAGAAGTTGGGCAAAGGTCACA
GCAGACTTCTGAAAAGCAGACACTGAGGAACACAGTGGAGAGCGGGAGTTCACAGCGACGCAGCTGAGGACGAC
GCAGGACCTCTCCCAAAGGTGCTGCAGCTCCAGCACCAGGGGCCAGGGCTGCGGCGACAGCAGCTCAGCAACCCT
TGCTGTGCTCAAGTTCTTGGGGATTGAGAGCTAAGTTCAAAATTTAGAAACAGTGCCTTAAAGACGGGCAAGAAA
ACCCGGTGTGGGAGTCTGCTCATCTATGGTTTGTACTGCTCTCGCTTCGATATTCTTAAATTCCTAGGTACCAA
TGAAAAAGCCAAGTGAACGTGGCAGAGTGAGGAGGAGACAGGAGCGTGTGCACCTTCCATCTGTGAGAGGCACAC
TTCAGTCTGGGTTCAAGATGCAGAAATGGTGCCTACGGCAAAAAAAAAAAAAAAAAACACCCTCCTCCCTTCTTTAC
CATTTGAATGGACATTTTCCTTACCTGTGATCCCAACAGAAACAGATCCAGACCTATCATGTGAAGTCCACGTTT
CAGGATCAGAAGTAACCAAGTTTATGGACTGAGCTTACACGGGAAAGTCTACCCCCGACTCCTTCTGGATAGTAAC
ATACACAGCTGCATAAAAACGTCTCCAAGGGGACATACGATGCATTTGCTTGGTGTCCCAGCCAAGCTCCCCACC
GGCGACCTCACTGTTCTTAGAGCTCAAGAGCTCGTCTCCTATCAATCAGAGAACCCCATCAGCTGTGACCAACA
GAGCTGGAGCCCTCTGTGGAGGGAGCTGACCCACACACAGGACAGAGCAGAATCCTGATTATTTACAAACTGC
AAACCTTCTGAGTAAGAAGACAAAAATATACATTCCAAGGTATCTGTAAAGTGCTTGGGAAGATGCAGACAGCTGC
ACCGAGGGGCTCTGATCCATCCACACGCTGCGCTTTGCTGCGGTACACACACGGTCTCAGTCACGTGATGGTTT
TGCTTTTATTTCTTAAACGGCTGAGTGATAATCCAGCTAGTGTGCAGTCATTTCATACCTTTCAATGGGCGTCAC
CGCAGTGACGCTGCCCCAGCCCCATGCTGAGGGCCGACACAATTCACGGAACAGATTCATCATATTTGGTCTTTA
TGTAATAATAAATGTTTTAAATTCCTAAATAT

4063/5332
FIGURE 3538

GTGCACATTTCAGGTTCCCGAGCACAAACATCAAGATAACGTTCACTGCCCTGTCCAGCGAGAAGAGAGAGAAGCA
GGAGGCGTCTGAGTCTCCAGTGAAGGCCGTACAGCCACACATCTCGCCCCCTGACCATCAACATTCCAGACACCAT
GGCCACCTCATCAGCCCTCTGCCCTCCCCACGGGAACCATCAGCGCTGCAAACCTCTGCCCTCCAGCCCCG
GGGAGCGGGGTCTTCAGGGTACAAGGTGGGCCGAGTGATGCCATCTGACCTCAATTTAATGGCTGACAACTCACA
GCCTGAAAATGAAAAGGAAGCTTCAGGTGGAGACAGCCCGAAGGATGATTCAAAGCCGCCTTACTCCTACGCGCA
GCTGATAGTTCAGGCGATTACGATGGCTCCCGACAAACAGCTCACCTGAACGGGATTTATACACACATCACTAA
AAATTATCCCTACTACAGGACTGCGGACAAGGGCTGGCAGAATCAATTGCCCACAATCTCTCTCTGAATCGTTA
TTTCATCAAAGTGCCGCGTTCCCGAGGAAGAACCAGGCTAGGGGCGTGCCCTGCTTTAGAACCCTCTGGGACCGCT
CAAATTAATAGAACAGGCTTTTAGGAAACGACGGCTAGGGGCGTGCCCTGCTTTAGAACCCTCTGGGACCGCT
CTCTTCTAGGAGTGCCCCAGCCTCTCCCAATCAGCGGGAGTGCTGTCTGCTCACTCTAGTGGCGCCAGACCCC
TGAGACCGTTCGAGGGAAGGTTTCGCCGGCCCCCCTGGAGCCTGAGCCTGGCGCTGCACAGCCCAAACCTCGTGT
CATCCAGGAAGCCCCGTTTGCCAGAGCGCCCCAGGGTCACCTCTGTCCAGTCAGCCAGTCTTAATCACCGTCCA
GCGGCAGCTACCACAGGCCATCAAGCCTGTACCTACACTGTGGCCACCCAGTGACCACCTCGACCTCCCAGCC
ACCCGTCGTGCAGACGGTTCACGTCGTCCACCAGATCCCAGCGGTGTGCGTACCAGTGTGGCCGGACTGGCCCC
AGCGAACACGTACACTGTCTCTGGACAAGCTGTGGTCACCCCGGCAGCCGTGCTGGCCCCCTCCTAAGGCAGAGGC
CCAGGAGAATGGAGACCACAGGGAAGTCAAAGTGAAAGTAGAGCCTATTCCCGCCATTGGCCACGCCACGCTCGG
CACTGCCAGCCGGATCATTACAGACGGCACAGACCACCCCGGTCCAGACGGTGACCATAGTACAACAGGCACCTCT
AGGTCAACACCAGTACCAATAAAAACTGTAACACAAAACGGCACTACGTGGCATCAGTCCCCACTGCGGTCCA
CGGCCAGGTGAACAATGGGCCCCCTTGGCCTCAGAAGGCCCCCATGTGCCAGCTCAGACTGGAGTTGCCTCAGTTE
ACACAGCAGGCCCCATCCAGACAGACCAGCAGGTGCTTCTGGAGACAAGAGCAAAGCCTTTTCCGGCAGCCCGGA
ACCTGGGATGAGAAACGACAGGTGGAAGGTTGTCCAGAGACACCTACAGTGTGGATGCTGTTCCGAGTCAGCGTA
GGAGAAAGGCCACTGGAAACCAGAGTCACACTGCGCGTCTGTGCATCTCTGGCCTACCGCAGTGGCCCCGGCTGT
CTGCACATTTTTTTGTAGACACATTAGAGTCGGTTGAGGCCACACCTGCGGCCACAGACTGCGACCGCGATTGCAG
GGAGGAGCATCTGAGGTGGTCACGGGGTTTGCCAGCTCACACCAACTGCAGCCGCGGCGAGTCCTTTGCACATG
TTGGCAACACACGCATCCGCATCGGCCTCCCTGCCACAAAGCGCCACAACGGTGACCAGCCGGAGCAGCCGGAG
CTGAAGCGGATCAAGACAGAAGACGGCGAGGGCATCGTCATTGCCCTGAGCGTGGACACGCCACCGGCAGCCGTA
AGGGAAAAGGGTGTCCAGAACTAGCGACCGGGAGAGCTTTTCTTTAACGATATCAACTCTGTGGTGCCAAAAGGA
GACGCGGCCTCCCGCCAGCACTCGGGGGTGAGGGCCCTGTGGTTGGACTTCACCTCTCAGCACTGAAAACCCAA
AACCAGCTGGCCTTAACACTCCTTAAAGACAGAAGTCACACTTGAACAAAACCCACACACAACAAAACCTGATT
TGGGAGACGGTGTCTCCACTGAGCACCTGCTGGGCTGAGCTTCTACCTACGAGTGAAACTCTGTCTCTCTGCGAG
GACCAGGCATCGCTGTGTGAGGACGGCACGGCCAGCGCCTGCTGTGAGTGGGTCTCCCAAGACTAGGCCTCAGGA
CGCGGGGGGAGCCATCCCCGCCGCCCTCACAGGACCCACCAGGCAGCGGAGCATGTGGAATTAGAGTATTTTGA
GGTGTCTCTTTCTTTACAAAATAATGGGGTCTTGGGCATTTTACATCACTCCATTTCTACTGAGACTTTTCAAGATC
ACACAGGCCCTTTCCGTGGATTTTCATTTGGGGCAAAGAAACAACGTAGTTTGTGTTTTGTTTTTTCAGCCTATGGAA
TGATTTTCTTTTGTCTGTCTTGTTCAGTTTCAGACGAAGCTACTCTGGCATCTGCACATTTCCGTGTTACAGCAG
CTGCCTGATGAATTTTATCCACCTCCATTTTCAGCATGTGGCTCGCGTGGACAGGTGGACGGACGCTGTGGCCGCA
TGGAACCTTGAGAACCAGGGACGAGCCAGTGCCGGGAAGGAAGTGCCTGGGACTCACCGAGCTGCACTTAACTGT
TCTCTTTCTGGCTATTTTTTGTGTTGTTTCTTTGTGTTGACTTTGTCCCTGGCAAAATTTTCCACTCTGAGTA
AAACAAGTCTC

4064/5332
FIGURE 3539

GACCCCTCCTCCTGTAGAGAGTGGTGCTGCCCTCTCGGGATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGC
CTCCATCTGAAGAGGGCTCCAGGCATCCGGTCTGCTCCCTGCTGGTTGGAATCTTGTGATTGGCCTGGCTGCT
GCCTACTACAGCGGAGATAGCCTGGGCTGGAAGCTCTTCTACGTCACAGGCTGCCTGTTTGTGGCTGTGCAGAAC
TTGGAGGACTGGGAGGAAGCCATCTTCGACAAGAGCACAGGGAAGGTTGTTTTGAAGACGTTACAGCCTCTACAAG
AAGCTGCTGACTCTTTTCAGAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTG
GAGGAGGAGAAGGTCCGGTACTTCGGGAAAGGCTACATGGTGGTGGTCCGGCTTGCGACGGGCTTCTCCACCCCC
CTCACGCAGAGTGCACTCATGGGCCACCGCAGTGATGTGGAAGCATCGCCAAGCTCATCACCAGCTTCTGAGAGC
TGCACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGGCCGGTGACCTTGCAAGCCAGAGCT
GACAGCCCCACTGTGCCTGAGCCCGTGACCCGCCACAGGACCCATGGCACATTCCCGGTGTGCCTGAGCCCGTG
CACCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCCGCCACAGGACCCGTGGCACATT
CCCGGTGTGCCTGAGCCCGTGACCCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCCGC
CCACAGGACCCGTGGCCTTGCTTTCAGTTGGTGCCTCCAGCCGAGTTGGCCTATTGCCTGCTCATGCTGCTGCTT
GCACACTGCATGAAACAGCAGGCCAGACCAGGACATCCAGACTTTCATCATCGTGAGGCCTGGGCCTGCCTTTCT
GCAGCCGGAGGTCTCGCCAGCCCTGGACTCCTGCTTTGGGCCACAGCAAGACCTCGGGCGAGTGAGAGGGCGGGG
CCAGGCCGGGCCCTTGTGGGTGCTGATGCTGCATGTTGTCCCGACACAGCGTCTCTCCCTGGTGGACATCCCC
AGCGGTGAGGTGCTTCCCCAAGGGCAGTGAGGGGTGAACATCCAGGGCCTACCTGGCTGTGCACGCTGCAGCCAC
ACTGTGGAAGCTGCCCCCTCCCGAGGACCCGCTCCCTTGCTGATGCCAGGATCTCAGCGCATAGACCACTCTGC
CCCAGCGGTCGTCACAGAAAGGTCTCTCTGTTCTCACACTCAGCTTCAGCATAAGCTGTGAGGCCAGAAAAAAG
GTCAGCTCTTCTAGTATCGTGCACTGCTTAAAAACCGGGAGCTCCAGCCGGGCGCAGTGTTTCATGCCAGTAATC
CCAGCACTTTCGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAA
GATCCTGTCTTTGTAAAAAACTAACCAAACAGGAAAACTGGGAGATTTTCTGCAGAAATTGAGTTCCAGCCTC
TCTCGAACCTGGGAAGACCTGGCAGGAGGGGCTGGGCTCTCGGCTACAGACTTCTCCCCACCCCGTAGGAGCTG
AACGCCAACCATCCTGACCCGCCAGTGCTCTTGGTCTCCTGAGTGTACCCAGGTCTCCAGGTGCGGTGTGCAC
CGAGCGCGCCTGGCCTGATGCCCTGGCCTGTGAGCTGGGGACTCCTGGGCCCTGTGAGCCCCCTAGGCGCAGGCCC
AGGAATGGCTGGGTAGGACAGGGAACACCTTTGCCCCACGTCTGGCTGTGACCTCGGTGAAAGCCGACAGGAGAG
AGATGGACCTCCTCCTCAGTAGTGGCTGCCAGTCCCTCGTTGCAGGACAGGGTCATCATAACCATAAATAACCC
TTCACGTGTC

4065/5332
FIGURE 3540

TGCCTGCAGGCCTCATGGGTTTGTTCGGGTGCTCTAGAATATTCCATCGATTGTGTAAAAACAGTGGCAAAC
CTGCGTGAGCCCTGGACACCTGTGTGGGTGCGGCTGTGCCAGCAGGAAGAGCCACTTGCTGTCCGGGTGTTGCT
GCTGGCAACACAGTCTTACTTCTGTTTTCTGATTTTTAAATAAGGAACGTATTTACAGTGTTTAAAGAGAAGCA
GCAGGCCCATTGCGCCAGTCCCTTGGCCGGCACACGCGGGGCTGGGCCTGGCCAGTGGCTCTCCATTGCCGC
CCGCCCCTGCCCCAGTACCTAGGCCTGCAGGTCCCAATGTAGCCCCCTCCCCCTCCAGAGGCCCCCTCCAACC
GCCCCGCTCATTGTGATTTAGGAGGATTTGATGAAGATGTTAAAGCGAAAGTGGAGAACCTTCTCGGGATTTT
CAGCCTGGAAAAACGGACCCTGTAGGGAGGGGGCCGGCTCCTTCCCTGGCAGCAACATCCTTGCCCTTGTCAC
ACAAGTCAGCCTCCATCTGCGCAGCTCTGTGGATGCGCTGCTGGAGGGCAACAGGTATGTCACTGGCTGGTTT
CCCCTACCACCGCCAGCGGAAGCTCATCCACCCGGTCTGTTTTCAGCACATCCAGCCCGCAGCGCTCAGCCTCCT
GGCACAGTGGAGCACCCTCGTGCAGGAGCTGGAGGTGCCCTGCAGCTGGCTTTCTACCCGGATGCCGTGGAGGAG
TGGCTGGAGGAAAACGTGCACCCAGCCTGCAGCGGCTGCAAGCTCTGCTGCAGGACCTCAGCGAGGTGTCTGCC
CCCCGCTGCCACCCACCAGCCCTGGCAGGGACGTTGCTCAGGACCCCTGAGGGGAGAGCTCATGCCAGGGGGCT
CCTGCTGGAGGCTGGGGGGCTCTGCACTGCCAAATGGCCTGGGCAATACGGGGCCACGTGGCGTCTGCCCTCT
GGCCCAGCAGTGTCTTGCCACACTCAGTTCTGAGGGGCCCTGGGCAGCCCTGGGGGAGAGACTAGAAAACACA
GAAGGAAGCAGCACAGGGAGACCCGCTTTGTGATCTGCATGTGTGACACTGATTCTTTGGAATAAAGAGTGGA
GCTG

4066/5332
FIGURE 3541

ATGGCCTTCCTACTGCTCCGGTTTCTCATGACCATTCTCAGAGCAGAGCCCAGAACTATTCAAACAAGCAAAGAG
AAGCTGCCAGAAGAGGCAAAAGCTCTGGGCTCCAAGTGGGCAGCTGTGGTGGACCTCTGCTCAGCTCCTGGGTGT
CAGAAGTGTAACCTATTTCTCAATGTAGGTTACAGAGAGGCATGCAGCGCTGAGGAGCGGCGACCCAGCACGGCG
CGCATGAACCTCCTGCCGTGTAAACCCTACGGCAACGGGCTGCTCTACGCCGGCTTCAACCAGGACCACGCCCCG
GGTCCCCGCTCTCAGGTCTCTCCTGGGCGCCCCCTTTCCGGCCAGGCCTTCCACCCGGGACCCCGCCCCGCCCCGAG
CTCCCCCTCCGAAGCCCCCGCGCCCGGCCCTCGCCGCTGCTCCCAGCCCCAGCCGGCGGATTCCGAACCCGCGACG
GTGGGCCGGCCCGTGCTGCAGCGGGCCCCGCGAGGCGGCGCTGCTCGGCTCCGTTTGGGCTCTCCCTGTTCC
CTGCAGCACACCTTGA

4067/5332
FIGURE 3542

GCCTCGGGGGAGGACAACAAAGGGCCGCGGGCGGGCAGTGGTGTCCCAGTCTCCCGGTGCTTCCCTGAGGCT
GAGGCGCCCGGCCTCCCGCCCGCCGCGCTCCAGATGAAGTGTGAGCACTGCACGCGCAAGGAATGTAGTAAGAAA
ACAAAAACTGATGACCAAGAGAATGTGTAGCCGATGCACCGAGTCCAGCCCAGGAAAATGGAGAGAAGGGAGAA
TTCCACAAGTTGGCTGATGCCAAGATATTTTGGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAA
GGAGTCCAACCTTTCCAGCAAAATGCCAAGGACTTCTTCCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCA
AAGCACAAAGTGCTGGTAGTGTCTGTGTCTCCTCAATCTTTGCCTTATTTTGTGCTAAATTCAACCTCAGTGTA
ACTGATGCATCCAGAAGACTCTGTGGTTTCTCAAAAGTCTTGGGGTGCACTATGTATTTGATACGACGATAGCT
GCGGATTTTAGTATCCTGGAGAGTCAAAAAGAATTCGTGCGTCTATCGCCAGCACAGTGAGGAGGAACGCACCCCT
GCCCATGCTGACCTCTGCCTGTCTGGCTGGGTCCGATACGCCGAGCGGGTGCTGGGTGCGCCCATCACTGCCCCA
CCTCTGCACCGCCAAGTCCCCCAGCAGGTCATGGGCTCTTTGGTGAAGGATTATTTGCCAGACAGCAGAACCT
GTCTCCAGAGAAGATTTTCCACGTCATTGTGGCCCTTGTATGACAAGAAGCTGGAGGCTCTTCAGGAAAGCCT
TCCCCCTGCTTTGCATGGCTCCCGGGGCGCTGACTGCGTGTTAACATCAGAAATTAGCCAGGCGTGGTAGTGAC
ACCTGTAATCACAGCTACTCAGGAGGCTGCGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGTTACAGCGAGA
CAAGATTGCACCACTGGACTCCAGCCTGGGCGGCGGAGGTGAAATTGCTCAAATAATGGAGCAAGGTGACCTCTC
AGTGAGAGATGCTGCCGTCGACACTCTGTTTGGAGACTTGAAGGAGGACAAAGTGACGCGTCATGATGGAGCCAG
CTCAGACGGGCACCTGGCACACATCTTCAGACATGCGGCCAAGGAGCTGTTCAACGAGGATGTGGAGGAGGTCAC
TTACCGAGCCCTGAGAAACAAAGACTTCCAAGAGGTACCCCTTGAGAAGAACGGAGAGGTGGTGTACGCTTTGC
TGCAGCCTATGGCTTTGAAACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTTCCCATTCCACTTTGT
GGAGGTCTCGCCTGTGCTGGAGGATGCTTAAATGGCAGAGGCAAGCCCAGACTCCAGACGGACATGCGGATAAG
GCCCTGCTGCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGCACACGTGCAG
GAGCTGTACCAGGAGTGGCTGGAGGGGATCAACTCCCCCAAGGCCCCGAGAGGTGCTGCATACCACGTACCAGAGC
CAGGAGCGTGGCACACACAGCCTGGACATCAAGTGGTGAAGTCAGGCCAGGGCCTTCCAGCTGCTCTTGGGGCCA
GAGCCAAGAGCCTCTCAGTAGAGGGAGGGGCTGCCCTGAGTGGAGTATTAAAGACACTTAAGAAAAACCGCTC

4068/5332
FIGURE 3543

GCGGCCGCGCGGGAACATCGAGGAGCTGCTGAGGCGCGAGCTGGGCTGCAGCTCTGTCAGGGCCACGGGCCACT
CGGGGGGCGGGTGCATCAGCCAGGGCCGGAGCTACGACACGGATCAAGGACGAGTGTTTCGTGAAAGTGAACCCCA
AGGCGGAGGCCAGAAGAATGTTTGAAGGTGAGATGGCAAGTTTAACTGCCATCCTGAAAACAAACACGGTGAAAG
TGCCCAAGCCCATCAAGGTTCTGGATGCCCCAGGCGGCGGGAGCGTGCTGGTGATGGAGCACATGGACATGAGGC
ATCTGAGCAGTCATGCTGCAAAGCTTGGAGCCAGCTGGCCGATTTACACCTTGATAACAAGAAGCTTGGAGAGA
TGCGCCTGAAGGAGGCGGGCACAGTGGGGAGAGGAGGTGGGCAGGAGGAACGGCCCTTTGTGGCCCGGTTTGGAT
TTGACGTGGTGACGTGCTGTGGATACCTCCCCAGGTGAATGACTGGCAGGAGGACTGGGTGCTGTTCTATGCCC
GGCAGCGCATTAGCCCCAGATGGACATGGTGGAGAAGGAGTCTGGGGACAGGGAGGCCCTCCAGCTTTGGTCTG
CTCTGCAGTTAAAGATCCCTGACCTGTTCCGTGACCTGGAGATCATCCAGCCTTACTCCACGGGGACCTCTGGG
GTGGAAACGTAGCAGAGGATTCTCTGGGCCGGTGATTTTTGACCCAGCTTCTTTCTACGGCCACTCGGAATATG
AGCTGGCAATAGCTGGCATGTTTGGGGGCTTTAGCAGCTCCTTTTACTCCGCCTACCACGGCAAAATCCCCAAGG
CCCCAGGATTCGAGAAGCGCCTTCAGTTGTATCAGCTCTTTCACTACTTGAACCACTGGAATCATTTTGGATCGG
GGTACAGAGGATCCTCCCTGAACATCATGAGGAATCTGGTCAAGTGAAGCGGGCCTTACTCTGGAAGGAGGCCTCA
GAGGTTTCTCCACAGTCCCTCTCTGGGCAAATTCCTGTTTCTTACATGCTGGACTAGCTTAAGACCAATGCAGT
AGCTTATTTCCAAGCCTTGCAAAGTATATAATATCTAAGAGGAAAGGTTTTGTATCCCAGCGTTGTCCACTTTG
TGGGGCTTTGTAGGTAGACGGAGCCACACTACAGGCAGGGTATGAGCAGAGGGATGTATGGAGTGTGGGTGACTC
TGAGCCTCACTGCTGCTGCAAGGTGGGGAAACTGTAAGTGAACCCCTGTGGGTGCGGGGGAGGGTATCCGGTGCG
CAGGGAGGTGGCCAGCGCCCCCGGGCACTGCTGCTCATAGGTACCTTTCCACTGCCTCCTCCCTGCTCTCCTGTG
CAGGAATGTCTCTGAGCTGTTACGTTGATGCTTCTTGGTTGGCAAGACTTGGGTGTAGACATGAAACCATCTTA
CTAAAAGCGTCTTAAATGACCAATTCCAGAATCAAGCGTATTCCGTTTTCTTCCTGCATGATCCCTGGGCCCTC
CCGCAGGCTGAGCAAGTCTGTAAGTCTGTTGAGGAGAAACCAAGCTGCTGGCCATAGGGTGTCTTGGGTACAT
CCAGGAGTCTTCATTGCTTCTGTTATTACCCCGTCTCCTCTGCCATTTTCTACAGCTTGCTGAGTTGTCATTCT
TTGCAACATTAAATACATGCTGAACTC

4069/5332
FIGURE 3544A

TAGCGGGCGCCTCCTTTTCATCCCTCATCCTTCATCCCTGGCTTTCGCGCTCTAGCGGAGTGGGATCTGCGAACA
CGTGAGGCGGGGGCGCGTCCCCAGGCTGCCGAGATGGCCCTGAGCGACGAACCGGCCGCGGGCGGCCCGAGGA
GGAGGCGGAGGACGAGACACTGGCCTTTGGCGCGCGCTGGAAGCGTTCGCGGAGAGCGCGGAGACCCGGGCGCT
GCTGGGCCGCTGCGGGAGGTGCACGGCGGCGCGCGGAGCGCGAGGTGGCCCTGGAGCGGTTCGCGTAATAAT
GGACAAATACCAGGAGCAGCTCATCTGTTGGACCCGCACCTTGAATGGATGATGAACCTTGTGTTGGACATAGT
GCAAGATCAGACATCTCCAGCTTCCCTTGTACATCTGGCTTTTAAATTTCTTTACATCATCACCAGGTTTCGAGG
CTATAAAACATTTCTTCGTTTATTTTCTCATGAAGTTGCCGATGTAGAGCCTGTTTTAGATTTGGTCACAATTCA
GAATCCCAAGGACCATGAAGCTTGGGAAACCCGCTACATGCTTTTGCTCTGGCTCTCCGTGACCTGCCTGATCCC
TTTTGATTTTTCTCGCCTTGACGGGAACCTCCTCACCAGCCTGGGCAAGCACGAATGTCCATAATGGACCGTAT
TCTCCAAATAGCAGAGTCTTACTTGATTGTCTAGTGACAAGGCCCGAGATGCAGCTGCTGTCTTGTGTCCAGATT
TATCACACGTCCTGATGTCAAGCAAAGCAAGATGGCTGAGTTCCTGGACTGGAGCCTGTGCAATCTGGCCCCGTTT
CTCCTTCCAGACCATGCAGGGGTCTACCATGGATGGGACGCTGCAGGCCCTGGCACAAATATTTAAACATGG
AAAACGTGAAGACTGTTTGGCCCTATGCTGCCACTGTCTCAGGTGCCCTCGATGGCTGCAGACTCCCTGAGAGCAA
CCAGACCCCTGCTGCGGAAGCTGGGGGTGAAGCTTGTGCAGCGACTGGGGCTGACATTCCTGAAGCCGAAGGTGGC
AGCATGGAGGTACCAGCGTGGCTGCCGATCTTTGGCTGCAAATCTGCAGCTCCTCACTCAGGGTCAGAGTGAGCA
GAAGCCACTCATCCTGACCGAAGATGACGACGAAGATGACGACGTCCTCAGAGGGGGTGGAGCGTGTGATAGAGCA
GCTGCTGGTTCGGGCTGAAGGACAAGGACACGGTCGTGCGGTGGTCTGCAGCCAAGGGCATCGGTAGGATGGCTGG
CAGGCTTCCAGAGCCCTGGCGGATGATGTGGTGGGTCTGTGCTGGACTGCTTCAGTTTCCAGGAGACTGACAA
GGCGTGGCATGGGGGATGTCTGGCGCTGGCAGAGCTGGGCAGGAGAGGCCTGTGCTGCCGTCTCGACTCGTGGA
TGTTGTGCGCGTGATCCTGAAGGCGCTGACCTACGACGAGAAGCGGGGTGCCTGCAGCGTGGGCACCAACGTCAG
GGACGCCGCTGCTACGTGTGCTGGGCCTTCGCGCGTGCCTATGAGCCTCAGGAGCTGAAGCCCTTTGTGACTGC
AATCTCGAGTGCACTGGTGATTGCTGCGGTGTTTGACCGAGACATAAACTGCAGAAGAGCAGCCTCTGCCGCTT
CCAGGAGAATGTGGGGAGACAGGGCACTTTCCTCATGGTATTGATATTTGACCACAGCTGACTATTTTGCCGT
CGGTAACAGATCCAACCTGTTTCTGTTTATAAGTGTGTTTATTGCCGGCTTTCCTGAGTACACGCAGCCAATGAT
AGACCACCTGGTTACCATGAAGATCAGCCACTGGGATGGGGTCTATCCGAGAGTTGGCTGCGAGGGCGCTGCACAA
CCTGGCCCAGCAGGCACCCGAGTTCAGCGCCACGCAAGTCTTCCCGAGGCTGCTGTCCATGACACTGAGTCCAGA
TCTTCACATGAGGCATGGGTGCTTCTCGCCTGCGCAGAAGTTGCTTACGCCTTGTACAAACTTGACGCCCAAGA
GAACAGGCCCCGTCACGGACCATCTGGACGAGCAGGCAGTGCAGGGCCTGAAGCAGATTACACGACGCTCTATGA
TCGTGAGTTATACAGGGGTCTGGGAGGACAGCTCATGAGACAAGCAGTGTGTGTTTAAATAGAAAAGTTGTCACT
TTCCAAAATGCCCTTTAGAGGTGACACCGTAATTGATGGTTGGCAATGGCTGATAAATGACACTTTGAGACATCT
CCATCTCATCTCAAGTCACTCCCGCCAGCAGATGAAGGATGCAGCAGTCTCGGCCCTGGCTGCTCTATGCAGTGA
ATATTACATGAAGGAGCCGGGGGAGGCAGATCCCGCAATTGAGGAGGAGCTGATCACGCAGTACCTGGCTGAGCT
TCGGAACCCCGAGGAGATGACTCGCTGTGGCTTCTCGTTGGCCTTGGGCGCCCTTCCAGGCTTCTTCTGAAAGG
CCGGCTCCAGCAGGTTCTCACAGGTTTAAGAGCAGTTACCCACACTTCCCCGAGGACGTAAGTTTGTGAGTC
CAGGAGAGACGGCTTGAAGGCCATTGCGAGGATTTGCCAGACTGTTGGTGTGAAAGCAGGAGCCCCAGACGAAGC
TGTGTGCGGAGAGAATGTTTCCAGATTACTGTGCGCTGCTGGGCTGCATGGACGACTACACCACGGACAGCAG
AGGGGACGTGGGCACCTGGGTCCGCAAGGCCGCCATGACCAGTCTGATGGATCTGACACTTCTGCTGGCTCGGAG
CCAGCCTGAGCTGATCAGAGCCCATACCTGTGAGCGCATCATGTGCTGTGTGGCCAGCAGGCCAGTGAGAAGAT
TGACCGTTTCCGTGCTCACGCCGCCAGCGTGTTCCTGACGCTCCTGCACTTTGACAGCCCTCCCATCCCCACGT
GCCCCACCGAGGAGAACTGGAAAAGCTGTTCCAGGTCCGATGTGGCCTCCGTGAACTGGAGTGACCTTCCCA
GGCCTTCCCACGCATCACCCAGCTCCTTGGGCTGCCACCTACCGCTACCAGTCCCTGCTGGGGCTAGTCGTGTC
CCTGGGCGGCTTGACGGAGTCGACGATCCGGCACTCCACCCAGAGCCTCTTTGAGTACATGAAGGGCATTGAGAG
CGACCCGCGAGGCCCTGGGCAGCTTCAGCGGACCCCTCTGCAGATCTTTGAGGACAACCTTCTGAATGAGAGGT
GTCCGTGCGCTGCTGAAGACGCTGGACCAGCTGCTACCCACGGCTGCTTCGACATCTTACCACGGAGGAGGA
CCACCCCTTTGCTGTGAGTTGCTTGGCTCTGTAAGAAAGAAATCAAGAATTCAAAAAGATATCCAGAAGCTCCT
ETCAGGCATCGCAGTGTCTGCGGGATGGTGCAGTTCCCCGGCGACGTGAGGAGGCGAGGCCCTCCTGCAGCTGTG
TCTGCTCCTCTGCCACCGTTTCCCGCTGATCCGGAAGACCACGGCCAGCCAGGTGTACGAGACATTGCTCACCTA
CAGTGACGTCGTGGGCGCGGATGTGCTGGACGAGGTGGTGACTGTGCTCAGTGACACTGCGTGGGACGCGGAGCT

4070/5332
FIGURE 3544B

TGCAGTGGTGAGAGAGCAGCGCAACCGTCTGTGTGACCTTCTGGGCGTACCCAGGCCCCAGCTGGTGCCCCAGCC
TGGTGCCTGCTGAAGCCAGTCCTGGAGCCCATACTCACCCTGCCTGGTGAGGATGTCTTGTTCCCTGAGGGAGG
CCGGTGTGAAAAGCCTCGCACAGTGGTGCCTCCAGCTGTTGAAGGGTAGCGCTGGCCCTTGGAGGCTGGCACTAG
CTGACAGCTTTTCTCTCTGCACCTGCGCTCTGGTGACTTGGGGTGGACGCCTCTGCCTTCACTTGAACACAAAT
GTGCTTCCTATAAAATCATGTACCAAG

4071/5332
FIGURE 3545

4072/5332
FIGURE 3546

CGGGCGGGCGGGCAGCGGTTGGAGGTTGTAGGACCGGGCAGGAATAGGAATCATGGCGGCTGCGCTGTTTCGTGC
TGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG
GGGGCGTGGTGTGAAGGAGGACGCGCTGCCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCTCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCAGAGTGA
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG
CCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGGTGGTCAACATCATCTTCATCTACGAGAAGCGCC
GGAAGCCCCGAGGACGTCTTGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACCTCTTCTGAGGTGGCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGGAGTCCACTCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATT
CCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTGAGGATTCTGTTTCCTTAGGTTTTTTTCC
TTCTGAAGTGTTTCACGAGAGCCCCGGGAGCTGCTGCCCTGCGGCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCCTTGCCCTTTGTGGAAAGT
CACAGGTCACACGAGGGGCCCCGTGCTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTT
TATGTTTTAATTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAG
AGGACTCACTTGCCACACCGAGGGCGACCCCGTACAGCCTCAAGTCACTCCCAAGCCCCCTCCTTGTCTGTGC
ATCCGGGGGCGAGCTCTGAGGGGGTTTGCTGGGGAAGTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCACCCACCG
CCACAATAAAGATCGCCCCACCTCCACCCTC

4073/5332
FIGURE 3547

AGCAAACGGCCGGCGGGGTGCCGCGGGGGGGCGGGCGGGAGTAGGTGGCGGGGCCATGSCGAGGCG
TCGCCGCATCCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGATTATATCTGT
CCAAGATGCGAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCAAGAAAAATGGTTCTGCCCCCTCC
ACAGCTCCACAGACCAGAGCCGGCCACCGTTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGAGGGCTAC
GGACAGTTTGCTTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGAC
GGCAGGGACCCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCC
CGCCTCACCACGCGGGCGGGCCACCGGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTC
AACGGCATCATCAGCCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCCTGCACTCAAACCTATGGACTAC
GCCTGGGGGGCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAAACAGGCCCCCACCG
GCAGATAAAGAGAAAAATCCAGGCCCTCCCCACCGTCCCCGTCAGTGGAGGAGCACGTAGGCTCCGGGCTCGAGTGC
CCTGTGTGCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGC
TGCATCGTGCCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCC
ACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTTCGTCATCGTCCTCCTCCAGCTCGCCCAGCAAC
GAGAACGCCACAAGCAACTCGTGAGCCCCAGTCGGCCGTCCGGGAAAGCACGGGGCCTTTCCCACCCACCTCAGC
CAGCGCCACACGGCACCCACAGACTGGGTGCCCCGGCGGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCC
TGTTCCAGGGCAGGACCCGGGCCCCGGCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCCTCTG
GGGCGTCCCCAGCCTCCCCGTCTCTGTCTAACCTCACCCCTCTAAACGTTTCAGCGGTGGAAAGATTTTATAATT
TTAAATTATTACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGAC
GGGGCCAGCGGCTCCCCAGCGCTGAAGCACGGGTTTTCAGCGGCTCCCCAGTGCTGCAGGTGCCGCCAGGACG
GGCCACGTGGGCCCCCAGCCTCCCCCTCGGCCGCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATG
ACCAGCAAAATTCAAGAACAAAAGTCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTAT
TTAAATACACTACTTACAAAGAG

4074/5332
FIGURE 3548

GTTCGCCATGCGTCCCGGGGCGCCAGGGCCACTCTGGCCTCTGCCCTGGGGGGCCCTGGCTTGGGCCGTGGGCTT
CGTGAGCTCCATGGGCTCGGGGAACCCCGCGCCCGGTGGTGTGTTGCTGGCTCCAGCAGGGCCAGGAGCCACCTG
CAGCCTGGTGCTCCAGACTGATGTCACCCGGGCGGAGTGCTGTGCCTCCGGCAACATTGACACCGCCTGGTCCAA
CCTCACCCACCCGGGGAACAAGATCAACCTCCTCGGCTTCTTGGGCCTTGTCCTACTGCCTTCCCTGCAAAGATTCT
GTGCGACGGCGTGGAGTGC GGCCCGGGCAAGGCGTGCCGCATGCTGGGGGGCCGCCCGCGCTGCGAGTGCGCGCC
CGACTGCTCGGGGCTCCCGGCGCGGCTGCAGGTCTGCGGCTCAGACGGCGCCACCTACCGCGACGAGTGCGAGCT
GCGCGCCGCGCGCTGCCGCGGCCACCCGGACCTGAGCGTCATGTACCGGGGCGCTGCCGCAAGTCTCTGTGAGCA
CGTGGTGTGCGCGGCCACAGTCGTGCGTCTGTGGACCAGACGGGCAGCGCCACTGCGTGGTGTGTCGAGCGGC
GCCCTGCCCTGTGCCCTCCAGCCCGGCCAGGAGCTTTGCGGCAACAACAACGTCACCTACATCTCCTCGTGCCA
CATGCGCCAGGCCACCTGCTTCTGGGCCGCTCCATCGGCGTGCGCCACGCGGGCAGCTGCGCAGGCACCCCTGA
GGAGCCGCCAGGTGGTGAGTCTGCAGAAGAGGAAGAGAACTTCGTGTGAGCCTGCAGGACAGGCCTGGGCCTGGT
GCCCCAGGGCCCCCATCATCCCTGTTATTTATTGCCACAGCAGAGTCTAATTTATATGCCACGGACACTCCTTA
GAGCCCGGATTTCGACCACTTGGGGATCCCAAGCCTCCCTGACGATATCCTGGAAGGACTGAGGAAGGGAGGCC
TGGGGGCGGCTGGTGGGTGGGATAGACCTGCGTTCGGACACTGAGCGCCTGATTTAGGGCCCTTCTCTAGGAT
GCCCCAGCCCTACCCTAAGACCTATTGCCGGGGAGGATTCCACACTTCCGCTCCTTTGGGGATAAACCTATTAA
TTATTGCTACTATCAAGAGGGCTGGGCATTCTCTGCTGGTAATTCCTGAAGAGGCATGACTGCTTTTCTCAGCCC
CAAGCCTCTAGTCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGA
GGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGTGTATGGAGGA
TCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCT
AGCCTGGGTGAGTATGGAGGGTCTAGCCTGGGTGTGTATGGAGGGTCTAGCCTGGGTGAGTATGGAGGGTCTAGC
CTGGGTGTGTACGGAGGGTCTAGTCTGAGTCCGTGTGGGGACCTCAGAACACTGTGACCTTAGCCCAAGCAAGCCA
GGCCCTTCATGAAGGCCAAGAAGGCTGCCACCATTCCCTGCCAGCCCAAGAACTCCAGCTTCCCCACTGCCTCTG
TGTGCCCCCTTTCGCTCCTGTGAAGGCCATTGAGAAATGCCAGTGTGCCCCCTGGGAAAGGGCACGGCCTGTGCT
CCTGACACGGGCTGTGCTTGGCCACAGAACCACCCAGCGTCTCCCTGCTGCTGTCCACGTCAGTTCATGAGGCA
ACGTCGCGTGGTCTCAGACGTGGAGCAGCCAGCGGCAGCTCAGAGCAGGGCACTGTGTCCGGCGGAGCCAAGTCC
ACTCTGGGGGAGCTCTGGCGGGGACCACGGGCCACTGCTCACCCACTGGCCCCGAGGGGGGTGTAGACGCCAAGA
CTCACGCATGTGTGACATCCGGAGTCTGGAGCCGGGTGTCCAGTGGCACCCTAGGTGCCTGCTGCCTCCACA
GTGGGGTTTACACCCAGGGCTCCTTGGTCCCCCACAACCTGCCCCGGCCAGGCCTGCAGACCCAGACTCCAGCCA
GACCTGCCTCACCCACCAATGCAGCCGGGGCTGGCGACACCAGCCAGGTGCTGGTCTTGGGCCAGTTCTCCACG
ACGGCTCACCCCTCCCTCCATCTGCGTTGATGCTCAGAATCGCCTACCTGTGCCTGCGTGTAACACAGCCTCA
GACCAGCTATGGGGAGAGGACAACACGGAGGATATCCAGCTTCCCCGGTCTGGGGTGAGGAATGTGGGGAGCTTG
GGCATCCTCCTCCAGCCTCCTCCAGCCCCAGGCAGTGCCTTACCTGTGGTGCCAGAAAAGTGGCCCTAGGTTG
GTGGGTCTACAGGAGCCTCAGCCAGGCAGCCACCCACCCCTGGGGCCCTGCCTCACCAGGAATAAAGACTCA

A

4075/5332
FIGURE 3549

CCCCGCGCCGCGCAGCCCCGCGCCAGGCCCTTAGCCCGCCCCGCCCCGCCAGGCCGCGTCCCCCTCCCCCTC
CCCTCCCCCGCGGCCACCCGCGCCCCGCCCCGCGCCGCGCACCGCGGACCCACCCGGACCTCGGCGGGGAGATCGGA
GGTCTTGCGGCGAGAGACCAGTCCCAGCAGGAGCGGCTGCAGGCCATCGCAGAGAAGCGGAAGCGGCAGGCCGA
GATCGAGAACAAGCGCCGCGCAGCTGGAGGACGAGCGGAGGCAGCTGCAGCACCTGAAGTCCAAGGCAGTGCGGGA
GCGCTGGCTGCTGGAGGGGACGCCGTCTCGGCCTCAGAGGGGGATGAGGACCTGAGGAGGCAGATGCAGGACGA
CGAGCAGAAGACACGGCTGCTGGAGGACTCGGTGTCCAGGTTGGAGAAGGAAATTGAGGTGCTGGAGCGTGGAGA
CTCCGCCCCAGCCACTGCCAAGGAGAACGCGGCGGCCCGAGCCCACTCCGGGCCCCAGCCCCAGTCCAGCCAA
GGAGGAGCGCAAGACAGAGGTGGTGATGAATTCACAGCAGACGCCGTGGGCACGCCCCAAAGACAAGCGAGTCTC
CAACACGCCCCGTGAGGACGTTGACGGCTCCCCCATGATGAAGGCAGCCATGTACTCGGTTGAGATCACTGTGGA
GAAGGACAAGGTGACAGGGGAGACCAGGGTGCTGTCCAGCACCACGCTGCTCCCTCGGCAGCCGCTCCCTCTGGG
CATCAAAGTCTACGAGGACGAGACCAAAGTGGTCCATGCTGTGGACGGCACCGCCGAGAACGGGATCCACCCCCCT
GAGCTCCTCCGAGGTGGACGAACTCATCCACAAAGCGGACGAGGTACGCTGAGCGAGGCAGGGTCCACGGCCGG
GGCGGCAGAGACCCGGGGGGCTGTGGAGGGGGCAGCCCGGACCACGCCCTCCCGGCGGGAGATCACCGGTGTGCA
GGCACAGCCAGGCGAGGCCACGTCCGGCCCCGCGGGGATCCAGCCCGGCCAGGAGCCCCCGGTCAATGATCTT
CATGGGTTACCAGAACGTGGAGGATGAGGCCGAGACCAAGAAGGTGCTGGGCCTTCAAGATACCATCACGGCGGA
GCTGGTGGTCATCGAAGACGCGGCTGAGCCCAAGGAGCCTGCACCACCAACGGCAGTGCTGCCGAGCCTCCAC
GGAGGCCGCTCCAGGGAAGAGAATCAGGCGGGGGCCGAGGCCACCACAGCGACCCCCAGGACCTCGACATGAA
GAAGCACCGTTGTAAATGCTGCTCCATCATGTGAGCCGCGCCCCGAGACCCCGCCCCCACCCACACCACAGAC
ACCCACCAGCCCGGCCCTCCCGGCGCCTGCCCACCCTCCACCACAGCCTCACGGGTCCAGGACTTGGCGTGT
GTTACATGTTCTTCCGAGTTTCTTTTCGCTGGAAAGAGGGACAGGGGCCCCACCCGTACCACGCCCAACAC
TCCCCCGAACCAGAGCCGTGCACTTGTGCCTGGTAGGAGAGAGACAGGACAGACCCGCTTTTCCCGAGACAAGG
ACCCCCATGTACGGCAGCTTCACAGACGCGGCTCGCGCCCACCGGGTCTGGCGGGTGGGACCCGCGAGCCTC
CACGCGGCCCAGGCCAGCCTGCCACCTCTGGGCTCTTACCTGTGCCTTCTCTGAGGGGACACCCGCCAGAG
AGGGCCCCGGGAGCCGGGGTGGGTACTGAGGCCTGCTCAGGCCCTGGAAGTGAGGCTCTATGGGGTTCCCTGGC
CAAGGCGCTGGCCCCCAATCTCAGGCAGTTGGGGTGAGGCCGTGCCTCTTTGGGGGCTAAAGGTCTTGGGTGGA
GGACAGGCCCCCTCTGCTGTGCCCTATGCCCTGTGTGGGCCCAACCAGTGGAACAATGGAGTCTGGGGGAGGGGGA
ACCCCGGGGACATGCCCCACCCGGGAGGGGCGGTAACCCCTGGGCTATCTTCTAGACGGGGCGAACCAGGGGT
CATTGACCTGCCCCCTGCACAGGGCAGGGACCGAGTGAGCCACTCCTTGTCCTGAGCTCCCGCCCCACTGGGCC
CTCCTTCTCTCTGGTGCTAATTGGGGACCCAGGGGCGCCCCCGGCTCTTCTCCATCCTGCTTGGACCAGGG
TCCTGGGTCTTCCCAACCATAACCCGAGATCAGGCCCCACCTGCCAGCTCTACTGGGCTTGGAGCACGTCCGGGC
AGTGGAGGGAGGGACACAGCCTGGGACAGGAAGCCTCTTGGGTTGGAGCAGGAGACCCTCATTTGCCACCCAGAC
CAATGTGAGCCTGCCCCAGCCCCCTCTCATTGGAAGTGGCAAGGGGCTTCCCTCCTGGGGGAGCTACACTCGT
CCCCAGAGGCACATTCTGTCACATTCTCACAGACACCGTCTCACACGTTGGCTTTGGACAACCAGGCCCACTT
GGTCCCTGCCCTAGGGACCTCCAGCCTGGTGCCAGTGCTCAGGCCACCTCCTGGTCCAGTACCACCTGCAGCC
TCGGCAGGGCAGGTACAGGGGCCACCTCAGATGGGAGCCTGGGTCCCTGCCCTCCGCTCTGCCCCTGGGTGGCTGG
GAGGAGAGGCCCTCTCGGGGTGACCTGGGCGTCAGCCGTGGAACCCCTCCTCCTCCCTGGAGTCTGCCTGAGT
CCCTCGAGCCGCGAGCCTTCGCTGAAGTGCCCTTGCTATAACCCCTCTGCTTCTGGTGTGTGACGAGGCCCCCG
ATGTTCTTGATTTTCCAGAGAAGCAAATAAACAGCGTGAACAGCCCC

4076/5332
FIGURE 3550

CCTCAGCCCGGCCCCAGATGCCCGTGCGGCCGACCCAGCTCCAGAAGTGAGGAAGGTGAACCGCATCCCACCTGA
TGCCCTACCAGCCGTACCTGAGCCCCGGGACCCCCAGCTAGAATTCTCAGCCTTCGGAGCATTTCGGCAAGCCAG
CAGTCTCTCCACAGCGGAGGCCAAGGCTGCGACTTCACCAAAGGCCACGATGTCCTCCGAGGCATCTCTCAGAATC
CTCTGGAAAACCCCTGAGCACAAAGCAAGAGGCATCGAAGCCCCCTCGGGGATGCCCGCAAGCCAACAGGGGTGT
CGTGCGGTGGGAGTACTTCCGCCTGCGTCTCTGCGGTTTCAGGGCCCCAGACGAGCCCCAGCAGGCCCAAGTCCC
CCATGTCTGGGGCTGGGAGGTGGCTGGGGCCCCCTGCACTGAGGCTGCAGAAGTCCCAGTCATCTGATCTGCTGGA
AAGGGAGAGGGAGAGTGTCTGCGCCGGGAGCAAGAGGTGGCAGAGGAGCGGAGAAATGCTCTCTCCAGAGGT
CTTCTCCCCAACGCCAGATGAGAACTCTGACCAGAACTCCAGGAGCTCCTCCCAGGCATCCGGCATCACGGGCAG
TTACTCGGTGTCTGAGTCTCCCTTCTTCAGCCCCATCCACCTACACTCAAACGTGGCGTGGACAGTGGAAGATCC
AGTGGACAGTGCTCCTCCCGGGCAGAGAAAGAAGGAGCAATGGTACGCTGGCATCAACCCCTCGGACGGTATCAA
CTCAGAGGTCTTGAAGCCATACGGGTGACCCGTACAAGAACGCCATGGCAGAGCGCTGGGAATCCCGCATCTA
CGCCAGTGAGGAGGATGACTGAGCCTCGGGATGGGGCGCCCACCCCTGCCCTGCCCTGACCCCTCGTGGGAACTG
CCAAGACCATCGCCAAGCCCCCACCTAGGAAATGGGTCTTAGGTCCAGGATCCAAGAACCACAGCTCATCTGCC
AACAAATCCCACCATGGGCACATTTGGGACTGTTGGGTTTTTCGTTTTCCGTTTTCTATCTTCCTTTAGAAATGTTTC
TGCCTTTGGGGTCTAAAGCTTTTGGGGATGAAATGGGACCCCTGCTGATTCTTTCTGCTTCTAAGACTTTGCCAA
ATGCCCTGGGTCTAAGAAAGAAAGAGACCCGCTCCTCCACTTTTCAGGTGTAATTTGCTTCCGCTAGTCTGAGGGC
AGAGGGACCGGTCAAAGAGGGTGGCACAGATCGCAGCACCTTGAGGGGCTGCGGGTCTGAGGGAGGAGACTCA
GCTCCTCCCTCTGAGAAGTCCCAAGCTGAGAGGGGAGACCTGCCCCCTTTCCAACCCTGGGAAACCATCCAGTCTG
AGGGAGGAGGCCAAACTCCCAGTGCTGGGGTCCCTGTGCAGCCCTCAAACCCTTCACCTTGGTGCACCCAGCCA
CACCTGGTGGACACAAAGCTCTCACATCGATAGGATCCCATGAGGATGGTCCCCTTCACCTGGGAGAAAAGTGAC
CCAGTTTAGGAGCTGGAGGGGGGTCTTTGTCCCCACCCCCAAACTGCCCTGAAATAAACCTGGAGTGAGCTGCC

4077/5332
FIGURE 3551

TTGTGAGTCTATAACTCGGAGCCGTTGGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGGGGTCT
GCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCT
ACTTGTGTCTACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGAAATGACAGCAAGAAG
TTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTACG
GAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCAG
GCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACCTACTACACCTCGGTGACCCCTGTGCTG
CGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCGG
GCCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCCGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGTG
GACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGACC
CTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCAG
TTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCACGACGCAAGCTGTCGCTGGACGGGCAGAACATC
TACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAAG
AGCCGTGACTACACACGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGCC
TTCCGGTGACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCTCAA
GCTGCAGGCCTTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCCTCGGCGGCGGCGGCAGCT
GCGGCGGCAGGTCCGATCGCCATCCCGGGCCTGGCGGGGCGAGGAAATCTGTATTGCTGGTCAGCAACCTCAAC
CCAGAGAGAGTCACACCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTG
TTCAATAAGAAGGAGAAGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAAC
GGGCACAAGCTGCACGGGAAGCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGGC
CAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAAC
TTCCAGAACATATTCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTC
AAGGTCTGTTTTCCAGCAATGGGGGCGTGCCTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCAGT
ATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACAC
CACCTGCGGGTCTCCTTCTCAAGTCCACCATCTAGGGGACAGGCCCCACGCGCGGGCCCCCTGGCGACAACCT
TCCATCATTCCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTACCTTAGCAGACCAGAGATTTTATTTTTTAA
AGAGAAATCAGTTTACCTGTTTTTAAAAAATTAATCTAGTTACCTTGCTACCTGCGGTGACAGGGACAGC
TCAGGCTCTTGGTGCTGTCGAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCCTCGGGGCCATGCCT
TGGTGGGGCCTGTGTCGGGCGTGGGGCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCTTGTGCTTAAAA
AACCTGCCTTCTGTCAGCCACACACCCACCCGGGGTGTCTGGGGACCCAAGGGGTGGGGGGTGCACACCAGAGA
GAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGCTGCGACACCCCAACC
CCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGGC
TCCCCGCTGCTCCAGCTGCGGAGCTGGTGCACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGC
CTAGCAATATTTCCAGTTGACCAATATTCTAATCTTTTTTATTTATATGAAAAGAAATAGTTTAAAGTAACT
TTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTACTT
TTATTTTATTCTTGTAAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCGGCCAGTGGGTCA
GGCACAGGGAGCCCCGCTCTATCTTAGAGCCCTGAGCTTACGGGAAGGGGCGGGCGTGTGCGCCCTCTGGCA
TCGCTCCGGTTGCCTTACACCACGCCCTTACCTGCAGTCGCCTAGAAAACCTTGCTCTCAAACCTCAGGGTTTTT
TCTTCTTCAAATTTTGGACCAAAGTCTCATTTCTGTGTTTTGCTGCTCTGATGCTGGGACCCGGAAGGCGGG
CGCTCCTCTGTCTTCTGTGCTCTTTCTACCGCCCCCGCTCCTGTCCCGGGGCTCTCCTAGGATCCCCCTT
CCGTAAAAGCGTGTAACAAGGGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGCG
CGGTTTTTTATGGTGACACAAATGTATATTTGTCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCAC
AGGGGACCCACGCACATTCCGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCATTAAACCGTTTGTG
AAACTCCTCCCTTGTCTAGCCCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTT
CGAATAAATCTTCTGTATCCTCGCTCCGTTCCGCCTT

4078/5332
FIGURE 3552

GAGGAGACGCGCTTTGTGCTGGGCGCCGGCCGCGCCAGCCACGGCCTGCGGGCGCCGCGGCACCATGATCTCCAC
CAAGGAGAAGAACAAGATCCCGAAGGACAGCATGACGCTTCTGCCCTGCTTCTACTTCGTGGAGCTGCCCATAGT
GGCTTCTTCCATCGTATCCTTGTACTTCCTGGAGCTGACCGACCTCTTCAAGCCGGCCAAGGTGGGCTTCCAGTG
CTATGACCGCACTCTCTCCATGCCCTACGTGGAGACCAACGAGGAGCTCATCCCGCTGCTGATGCTGCTCAGCTT
GGCCTTCGCGGCCCTGCGCCTCGATCATGGTGGCCGAGGGCATGTTGTACTGTCTGCAGTCCCGGCTGTGGGG
CCGTGCCGGGGGGCCCGCGGGGCGGAGGGCAGCATCAACGCCGGCGGCTGCAACTTCAACTCCTTCTGCGGCG
TACGGTGCGGTTTGTGGGTGTCCACGTGTTCCGGCCTGTGTGCCACAGCCCTGGTGACGGACGTGATCCAGCTGGC
CACGGGTTACCACACTCCCTTCTTCTCACCCTCTGCAAGCCCACTACACTCTCCTGGGCACGTCTGCGAGGT
CAACCCCTACATCACGAGGACATCTGCTCCGGCCACGACATCCAGCCATCCTGTCTGCACGGAAGACCTTCCC
GTCCAGCAGCCACGCTGTGAGCCTTCGCCGCGGTCTATGTGTGGTGAGTCCGGCCCCCTCACTGCCCTTCCCA
GGCCCTCTTGCTGACCCGTGGGGAGCCCTCCCTGACCCCAACCCCATGCCCCAGATGTA'CTTCAACTCGGTGAT
CTCGGACACCACCAAGCTGCTGAAGCCCATCCTGGTCTTCGCCCTTGCCATCGCCGCGGGCGTATGCGGGCTCAC
GCAGATCACGAGTACCGCAGCCACCCTGTGGACGTGTATGCCGCTTCCTCATCGGGGCGGGCATCGCTGCCTA
CCTGGCCTGCCACGCGGTGGGCAACTTCCAGGCCCCACCTGCAGAGAAGCCCGCGGCCCGGGCCCCGCCAAGGA
CGCGCTGCGGGCCCTGACGCAGCGGGGCCACGACTCGGTTTATCAGCAGAATAAGTCGGTGAGCACCGACGAGCT
GGGGCCCCCAGGGCGGCTGGAGGGCGCGCCCGGGCCCGTGGCCCGGAGAAGACCTCGCTGGGCAGCCTGAAGCG
CGCCAGCGTGGACGTGGACCTGCTGGCCCCGCGCAGCCCCATGGCCAAGGAGAACATGGTGACCTTACGCCACAC
GCTGCCCAGGGCCAGCGCGCCCTCGCTGGACGACCCCGCGCGCCGCCACATGACCATCCACGTGCCGCTGGACGC
CTCGCGCTCCAAGCAGCTCATCAGCGAGTGGAAGCAGAAGAGCCTGGAGGGCCGCGGCTGGGGCTGCCCCAGCA
CGCCAGCCCCGGGCACCTGCGCGCGCCCGCCGAACCCATGGCGGAGGAGGAGGAAGAGGAGGAGGACGAAGAGGA
AGAGGAGGAGGAGGAAGAGGAGGAGGACGAGGGCCCCGGCCCCGCTCGCTCTACCCACCGTGCAGGCGCGGCC
GGGGCTGGGGCCTCGGGTCATCCTCCCACCGCGCGCGGGGCGCGCGCGCTGGTGACATCCCGGAGGAGGGCGC
GCAGACGGGGGCCGGCCTGTCCCCAAAAGCGGCGCGGGGTGCGCGCCAAGTGGCTCATGATGGCCGAGAAGAG
CGGGGCGGCAGTGGCCAACCTCCGCGGCTGCTGCAGGTATCGCCATGTCCAAGGCTCCGGGCGCGCGGGGCC
CAAGGCGGCCGAGACGGCGTCGTGCTCCAGCGCCAGTCCGACTCCTCGCAGTACCGGTGCGCGTCGGACCGCGA
CTCCGCCAGCATCGTGACCATCGACGCGCACGCGCCGACCAACCCGTGGTGACCTGTGCGCCGGCGGCGCGCC
CTGGGAGTGGAAGCGGCGGGCGGGGCGCAAGGCGGAGGGCGACGGCGGCTACGAGCTGGGGGACCTGGCGCG
CGGCTTCCGCGGCGGGGCCAAGCCCCGGGCGTGTCCCCGGCTCGTCGGTCAGCGACGTGGACAGGAGGAGCC
GCGGTTCCGGGGCCGTGGCCACCGTCAACCTGGCCACGGGCGAGGGGCTGCCCCGCTGGGCGCGGCCATGGGGC
GCTGGGCCCCGGGAGCCGGGAGTCCACGCTGCGGCGCCACGCGGGCGGCTGGGGCTGGCGGAGCGCGAGGCGGA
GGCGGAGGCCGAGGGCTACTTCCGCAAGATGCAGGCGCGCGCTTCCCCGACTAGCGCGCGGGGCGGGGGCGG
GCGGGGGCGGGCCGAGGGCGCGGGCGGCCG

4079/5332
FIGURE 3553

ATGTGTGATTTCGGCGGCCAGCGGCAGGTGGGATGATGGACTTGGCCTACGTCTGTGAGTGGGAGAAATGGTCC
AAGAGCACCCACTGCCCATCGGTGCCCCCTGGCCTGCGCCTGGTCTGCCGAAATCTCATCGCCTTCACCATGGAC
CTGCGCAGCGATGACCAGGACCTGACCCGCATGATCCACATCCTGGACACGGAGCACCCCTGGGACCTGCACTCG
ATCCCCCTCAGAGCACACGAGGCTATCACCTGCCTGGAGTGGGACCAGTCAGGCTCCCGGCTCCTGTCAGCAGAT
GCCGACGGGCAGATCAAGTGCTGGAGCATGGCGGACCACCTGGCTAATAGCTGGGAGAGCTCAGTGGGCAGCCTA
GTGGAGGGGGACCCCATTTGTGGCCCTGTCTGGCTGCACAATGGTGTGAAACTGGCCCTGCACGTGGAGAAGTCG
GGCGCCTCCAGCTTCGGGGAGAAGTTCTCCCGAGTCAAGTTCTCACCGTCGCTCACGCTGTTTCGGCGGCAAGCCC
ATGGAGGGCTGGATCGCGGTGACGGTCAGCGGCCCTGGTCACCGTGTCCCTGCTGAAGCCCAGCGGGCAGGTGCTG
ACGTCCACCGAGAGCCTGTGCCGGCTGCGCGGCCCGCTGGCCCTGGCGACATCGCCTTCACCGGCGGCGGCAACA
TCGTGGTGGCCACGGCGGACGGCAGCAGCGCTGCCCCGTGCAGTTCTACAAGGTGTGCGTGAGCGTGGTGAGCG
AGAAGTGCCGTATCGACACGGAGATCCTGCCCTCCCTGTTCTGCGCTGCACCACCGACCTCAACCGCAAGGACA
AGTTCCCCGCCATCACCCACCTCAAGTTCTGGCCCCGGGACATGTGCGAGCAGGTGCTTTTGTGCGCGTCCAGCC
AGACCAGCAGCATCGTGGAGTGCTGGTCCCTGCGCAAGGAGGGACTCCCCGTGAACAACATCTTCCAGCAGATCT
CCCCCGTGGTTGGCGCAAAACAGCCCACAATTCTCAAATGGCGGATCCTATCGGCCACCAACGATCTGGACCGTG
TGTCGGCCGTGGCGCTGCCAAGCTGCCCATCTCGCTCACCAACACCGACCTCAAGCTGAGCGTGCTCCGCCCTCT
CACCTTCCATGGGCCACCCGCTGGAGGTGGGGCTGGCGCTGCGGCACCTGCTCTTCTGCTGGAGTACTGCATGG
TGACCGGCTACGACTGGTGGGACATCCTGCTGCACGTGCAGCCAGTATGGTACAGAGCCTGGTGGAGAAGCTGC
ACGAGGAGTACACGCGCCAGACCGCTGCCCTGCAGCAGGTCTCTCCACCCGGATCCTGGCCATGAAGGCCTCGC
TCTGCAAGCTGTGCGCCTGCACGGTGACTCGCGTGTGCGACTACCACACCAAGCTCTTCTCATCGCCATCAGCT
CCACCCTGAAGTCGCTGCTGCGCCCCCACTTTCTCAACACGCCTGACAAGAGCCCCGGCGACCGGCTGACCGAGA
TCTGCACCAAGATCACCGACGTCGACATTGACAAGGTATGATCAACCTCAAGACGGAGGAATTTGTGCTGGACA
TGAACACACTGCAGGCGCTGCAGCAGCTCTTGCAGTGGGTGGGCGACTTCGTGCTGTACCTGCTGGCCAGCCTAC
CCAACCAGGGTTCCCTGCTGAGGCCGGGCCACAGCTTTCTGCGGGACGGCACCTCGCTGGGCATGCTTCGGGAAT
TGATGGTGGTTCATCCGCATCTGGGGCCTTCTGAAGCCCAGCTGCCTGCCCGTGTATACGGCCACTTCGGATACCC
AGGACAGCATGTCCCTGCTCTTCCGCCTGCTCACCAAGCTCTGGATCTGCTGTGCGGATGAGGGCCACGAGCG
AGCCGGACGAGGCGCTGGTGGATGAATGCTGCCTGCTGCCCAGCCAGCTGCTTATCCCCAGCCTGGACTGGCTGC
CAGCCAGCGACGGCCTGGTCAGCCGCTGCAGCCCAAGCAGCCCTTCGTCTGCAGTTTGGCCGGGCGCCACGC
TGCCTGGCAGTGCTGCCACCCTGCAGCTCGACGGCCTCGCCAGGGCCCCAGGCCAGCCCAAGATCGACCACCTGC
GGAGGCTGCACCTTGGCGCTTGCCCCACGGAGGAATGCAAGGCCTGCACCAGGTGCGGCTGTGTACCATGCTCA
AGTCGCCCCAACAGAACCACGGCGGTGAAGCAGTGGGAGCAGCGCTGGATCAAGAACTGCCTGGCTGTTGAAGGCC
GTGGGCGCGACGCTGCGTGACCAGCAGAGCTTCTGAGGAAGCCCTGCCTTTGTCCAGCTGGGCCCCGAGTCCA
CACACCACTCTCCAGGACCCCCAGATCCCTGGACCATCTGCATCCAAAGGACCGTCCGTGA

4080/5332
FIGURE 3554

GAAGGCCCTGCCGGGCGGCGGGCGGCGGCGACAGCGTGCGAGCCATGGTTCGCGCTGGAGAACCCCGAGTGCGGCCCC
GGAGGCGGCGGAGGGCACCCCGGGCGGGCGGCGGCTGCTGCCCTTCCCAGCTGCCTGCCTGCCCTAGCCAGCTC
CCAGGTGAAGAGACTCTCGGCTTCCAGGCGGAAACAGCACTTCATCAACCAGGCAGTGCGGAACTCAGACCTCGT
GCCCCAAGGCCAAGGGGCGGAAGAGCCTCCAGCGCCTGGAGAACACCCAGTACCTCCTGACCCTGCTGGAGACAGA
CGGGGGCCTGCCTGGCCTGGAGGATGGGGACTTGGCACCCCTGCATCACCAGGCATCTTTGCCGAGGCCGTGCAA
CAACGCCACCTATGTGGAGGTCTGGAACGATTTTCATGAACCGCTCCGGGGAGGAGCAGGAGCGGGTTCTTCGCTA
CCTGGAGGATGAGGGCAGGAGCAAGGCGCGGAGGAGGGGCCCTGGCCGTGGGGAGGACCGGAGGAGAGAGGACCC
CGCCTATACACCCCGGAGTGCTTCCAGCGCATCAGCCGGCGTCTGCGAGCCGTCTCAAGCGCAGCCGCATCCC
CATGGAACCGCTGGAGACCTGGGAGGAGCGGCTGCTTCGGTTCTTCTCCGTGTCCCCCAGGCCGTGTACACAGC
AATGCTAGACAACAGCTTCGAGAGGCTTCTGCTGCACGCTGTCTGCCAGTACATGGACCTCATCTCAGCCAGTGC
TGACCTGGAGGGGAAGCGGCAGATGAAGGTCAGTAATCGGCACCTGGATTTCCTGCCGCCGGGGCTGCTCCTGTC
CGCCTACCTGGAGCAGCACAGCTGATGGCGGCCCCGCGGAGACCCCGCTGCCACCTCGCCCAGCCATCAAGCCCT
CCGATACCTTCGGCTAAAAATATCTTTCATATTTTTAGAAATTTGTCTCGGAAACCTTTTTCGCTTGGGGTGGTCT
CTCTCACTCTGCCCCCTCCTCACGCAGCTCTTGGCAGTCAACAGACGCTGGCGGCTGGGGCTGCCCATGCCATCC
CAGCTCCAAGCTTCCCACTCCAGGACTTGTGTTTGGGTGGGAGACCTGACCTGGGCATGTTTCTGTTTCTTCAT
CGTTGAGCTTTTCTGGCCCCGTCTGAAGCTCAAGTGAGGAGGGGGAGGCTGGGTTTTATCACTTTTAATGAATT
TGGTGTGATTTGTTGTAGATTTTTAAATTTCCCTTTTGGAGAGAAAAACCAAAAAAACTCGCCCCACTGGTAAAA
CATGGGTCTTGGTCCCAGCCCCCTGCTCAGCCCCCTCCAGTTTTTAGCTTGAAATGAGGGTGGGGTCTCTGGGACCC
TGCCCCCTCATGCCAGAAGCATCTTGTGTTGTATATGTGTGCGCGCTGTGCCCTGAGACCCAGGACAGAAGCCAC
GGTCTTAAGAGCCGGTTTTATCCTCGTCATTCTGCGTGTCTTCCCCACGCCACCTGTGTGGGGCTCAGGGTCT
CCTGCTTTATATGAGCCCCCTTCTTCTCCTCCCCCTCTTTATGCTGGGGGTCCAGGACTTCCAGCCAGAAGCCTC
TGCCCCCTGCACTACCTTGTCTGTACCCCATCCCGTGTCCCTCGTCCCCCAGCCTGACTCCTGCCCTGATAGCTC
CTGTGTCCCCATGCTGGTCTCCTGGCCAGGCTGCAGGAGCCAGGCTGGGGGGCCTCCGCACCCCTTGTGTGCG
TGTGGGTAATTGTGTTTTGGGGGAAAGTGGGGAATTTAATAAATTTCTGGTGCTC

4081/5332
FIGURE 3555

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCGCTGTACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTTCATCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTCACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGTGGTTTGG
AGCCTCTGCAGCGTGTGTCAGGCCGACCCCTCCAGGATTCCGGCGCCCAAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCGGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATAATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTGACCTCTTCACCTGGCCC
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT
TGCCTGTCAGTGTCCACTGACGGCAGCGTGTGCTCTCAGGCTCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGATCCGGACGGTGGCCCTCAAAGGCCCCAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCTGTGTCAGCACCATGGAGAAGAGCGTGTCTGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTGACTTCTCC
ACGCGCTTCATCACGCGGCCGCGCAAGTCAGGCCCCGAGACCCCGGCCCGAGGCGCCAGGCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCCGCGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCTGTGTT
CGGGTTTTTCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC

4082/5332
FIGURE 3556

GCTCTTGCCCGGCGTGCGACTCGCTAGCGTCAGCAGCGCCGAGCCGGACGAGAAAGCGGAAGATGGCGGCGGC
GGCCGGGAGGCCGCTGAGGAGAGCGGCGGCTGCGAGGGCGGCCGATGGCGGCCGGGAGGCGCCCTCGGACACTTGC
GGGTCGTTAGGGCGCGACGCTGGGAGGCATGTGCGAGCACGTGGAGCCCGCAGCTCCGGGGCCCGGGCCCAACGG
CGGCGGCGGCGGCGCCCGGCCCCGCGCGCGGGCCTCGCACCCCAATCTCAACCCCAACCCCTCATCAACGTGCG
CGACCGGCTCTTCCACGCGCTGTTCTTCAAGATGGCTGTACCTATTGCGGGCTCTTCCCGCCCGCCTTCGCGCG
TCTCTTCGAGTTCTTCGTGCTGCTCAAGGCCCTGTTTGTGCTCTTCGTCTGGCCTACATCCACATCGTCTTCTC
CCGCTCGCCCATCAACTGCCTGGAGCATGTGCGTGACAAGTGGCCGCGTGAGGGCATCCTGCGTGTGGAAGTGGC
GCACAACCTCGAGCCGCGCGCCGCTCTTCTACAGTTCTGTGACAGCGGCGGCGCGGGAGCTTCCCGGGCCTGGC
CGTGGAACCAGGCAGCAACCTGGACATGGAAGATGAGGAGGAGGAAGAGCTGACCATGGAGATGTTTGGGAACAG
CTCCATCAAGTTTGAAGTGGACATCGAGCCCAAGGTGTTCAAGCCGCGAGTAGCACAGAGGCCCTGAATGACAG
CCAGGAGTTCCCTTCCCGAGACGCCACCAAAGTGTGGCCGAGGACGAGTACATCGTGGAGTACTACTAGA
GTATGGCTTCTTCGCTGTGCGAGGCCACCCGCCAGCGCTGAGCATCCCCGTCATGGTGGTCACCTGGGTGA
GTCTGAGCTGCTGGGCTTGGGGAGCTCCATGGCGGGCCTCCCTCCTCCCTCGGGTCTCTCTGCTGGTGCGG
GACGGGGGGCTGTGCAGGAAGCACTGGGGTCTGCCCCGCCAGGCACGCTTCCAGGGCTGGGGTCTTGAGTGG
GTTTCTAAGAATGGGCAGGGCCAGGAAGCAGGCCAGGCCTAGCAATGGAGCCAGCTGGGGCAGGGCCAGGGG
GTGGCTGGGCGGGGCTCCCGGCTCCCTGATTACCCACCCGAGACCCACGCGGGACAGTGCTTCGGGGACC
GCTTCAGCGCCTGCTGCTGGATGAGTTCCTGGGCTACGATGACATCCTCATGTCCAGCGTGAAGGCCTGGCCG
AGAACGAGGAGAACAAGGGCTTCCTGCGGAATGTGGTGTGCGGCGAGCACTACCGCTTTGTGAGCATGTGGATGG
CGCGGACGTCTACCTGGCCGCTTCGCCATCATGGTCACTTCACGCTGAGCGTGTCCATGCTGCTGCGGTACT
CACACCACAGATCTTCGTCTTCATCGTGGACCTGCTGCAGATGCTGGAGATGAACATGGCCATCGCCTTCCCCG
CAGCGCCCTGCTGACCGTCATCTGGCCCTCGTCGGGATGGAGGCCATCATGTGCGAGTTCTTCAACGACACCA
CCACCGCCTTCTACATCATCCTCATCGTGTGGCTCGCGGACCAGTATGACGCCATCTGCTGCCACACCAGCACCA
GCAAGCGGCATTGGCTGCGGTTCTTCTATCTCTACCACTTCGCCTTCTATGCCTATCACTACCGCTTCAATGGGC
AGTATAGCAGCCTGGCCCTGGTCACCTCCTGGCTCTTCAATCCAGCATTCCATGATCTACTTCTTCCACCACTACG
AGCTGCCTGCCATCCTGACAGAGTCCGATCCAGGAGATGCTGCTTCAGGCGCCGCCACTGGGCCCCGGGACCC
CCACGGCGCTGCCCCGATGACATGAACAACAACCTCGGGCGCCCCGGCTACAGCCCTGACTCTGCCGGCCAGCCCC
CCGCCCTGGGCCCCGTCTCGCCTGGGGCCAGCGGGAGTCCCGGGCCTGTGGCAGCGGCGCCAGCTCCCTGGTG
CCGCGGCAGCCTCAGTGGCAGCAGCTGCCGGTGGTGACCTGGGTGGATGGCAGAGACCGCTGCCATCATCACAG
ACGCCTCCTTCTGTCCGGCCTGAGCGCCTCCCTCCTGGAGCGGCGTCCAGCCAGCCCGCTGGGCCCTGCTGGGG
GCCTCCCCCAGCCCCCAGGACAGTGTCCCCCGAGTGACTCCGACGCTTCTGACACAACCTCCCTGGGGGCTG
CGGTAGGCGGGCCTAGCCCGGCTCCATGGCCCCAACGGAGGCGCCCTCGGAGGTGGGGTCTTGAGCCGCACAGC
TGAGCCGCTCTGACCCCTGCTGGCTGGGCTGACCTTCCCGAGCCCGTGGGGGTGGGGGAGGCCAGCCACCTCC
TTCTCTGGGACTGCCAGCCTGTGTGCGGGGCTTTCAGGGTTTCGTGGGGTTTGCCCGGAAGGCGGCTTTCCTC
CCCCTGGTGTGAGGTGCGGCCCCAGGCTTGTACCCGCTAGTGAGGTGTTGAGCTGGTCAGCAAGGAGAGGGGGT
GGGGTTCCGCGGAAGGTTCCTGGAGGGGTCTTGGTAGGTCTGCAGTGAACCGTCTGAGGATGGAGTGGGGTCCCA
TGGTGCAGGTCTCTGAGCAAGGCGGAGGTGTGGAGGAGAGGCGGGCTTGGGGTGGGGCCTCGCGCCCTAGTGCCG
GCCGGCCTCAGCCCGGCTCTGCCTGGTGCTCCCTGCAGTGCCCTTCTCCATGGCCCCGCCCTCCCGCGTGTGCGC
CAGGCTTGGGGTCCCCGGGAGAGCAGAGCTTGCGCCCTCGGGCATAGGGACGTGGGGTGCAGGCGCCAACATCAGT
GGCAGAGCCAGGGCCGTGGTCCAGTCCACTCGGGGATGGAGTGGGCGGCGGCCAAACAGTCACTCGGGGAG
GAATGCGGAGGAGCGCTCATTCCATTCTATTTAATTGCAGTGACAAAATTGTGTTTGTATATAGAATAAACTGT
CTGTTGACAGCGGC

4083/5332
FIGURE 3557

ATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTGCGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGAGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGCGGGCACTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCTGCTTCCCCGCTGGGGCATCTGCACCCTGCATTATAGAGCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGCTTAA

4084/5332
FIGURE 3558

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACCTATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAAGTGGCACCAGCTAGAAAACCTGTCCAACCTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGGCTGGCCAGTGCCTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTGGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA
ACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCGGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACTCCTCCA
TGTCCTTGCAGATGGGCTACACGCAGGGCGCCAAACCAGAGCGGCCAGGTCTTCGGCTGGGCGGCAGATATATG
ACCCCAAGTACTGCCCCGAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCGGACCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCACGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTTCTTAACCCGTTCAAGTGTCTGC
CAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCTTTGCCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTTCTATGCCCCGAAGTTTCAGGAAGTATTACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGTAGGAAATGAGTCCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTACTGGATTTGCCTAGGACCTTCAGACCAACAGA
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAAGGCGGTACAAGGAAGTGAAATTCTGAGTTG
TTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTTTCAGT
TGTGGTTGTTGCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGCTAATTTTTTGTATTTTTAG
TAGAGATGGGGTTTCCCCATGTTGGCCAGGCTGGTCTCGAATCCTGGCCTCAGGTGTGATCCGCCCCGCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCAGCCCCCTCAGTAGGTTTAAAGGAGCCCCCAGCCC
TCCTCCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAGTACTGCACAGG
GACCCCCACCCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAACGCAATAAAACCTCTG
TTTGTACGAAG

4085/5332
FIGURE 3559A

CGCCTCCCCGAAGCCTTTTCTGTTGGGGGGAGGGCCCCGAGTGACGGCCGGGCCTGTCACGTGGGCCTGACAG
CTGGGGAGGGGGTGGCCGGCGACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAG
CCCCCCCCCTCGGGCTCCCGGCCGGGGCCCCATCATGTTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTC
CATCTCGAAAAAGAACC CGCGGGGAAGCCCCAGCCCGAGCCCTCGGGGAGCTGCCAGGAAGGATGGGGCTGA
CGCGGTGTTCCCGGACCAAGCCTGGAGCCGCCCGCTGGGTCTCCGGCGTCAAGGCCACAGGGACCCTCAAGCG
GCCCACCAGCCTGAGCCGCCACGCCAGCGCGCTGGCTTCCCCCTGTCGGGTGCTGCCTCCTGGACACTGGGCCG
GAGCCACCGGAGCCCACTGACAGCCGCCAGCCCGGGCGAGCTGCCACCAGAGGTGCCGGCCCGGACGTCGTGCA
GGACATCTCCCATCTGCTGGCGGACGTGGCCCCGCTTCGCTGAGGGCCTTGAGAACTTAAGGAGTGTGTGTTGCG
TGACGACCTCCTTGAGGCCCGCCGCCCGGGCCCCACGAGTGCTGGGTGAGGCTCTGCGTGTATGCATCAGAT
CATCTCCAAGTACCCGCTGCTGAACACCGTGGAGACGCTCACCAGAGCCGGCACCCCTCATTGCCAAGGTCAAAGC
CTTCCATTATGAGAGCAACAATGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCTT
CAGTAGCACAGTGTCCGAGTTCCTCATGGGTGAAGTGGACAGCAGCACCCCTCTAGCAGTGCTCCTGGGGACTC
GAGCCAGTCCATGGAAGCCTGTATGGACCGGGCAGTGAGGGCACGCCTCCAGCCTGGAAGACTGTGACGCCGG
CTGCCTGCCCCGCCGAGGAGGTGGACGTGCTGCTACAGCGCTGTGAGGGGGCGTGGATGCCGCACTGCTGTATGC
CAAGAACATGGCCAAGTACATGAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGC
CAAGGGCCTGCAGAAGATCGCTCACAACCTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCAT
CTACTCGCTGGCCCTGGAGCAGGACCTGGAGTTCCGGCCACAGCATGGTGACGGCGGTGGGCACCTTGACAGCCCA
GACCTTCATGCAGCCCTGACCCTGCGGGCGGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCA
CCGTGCCCAGAGGAAGCTGCAAGAGGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGA
GGACCACGACAAGGCTCGCTTCCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAG
CACGGCCACCAAGACCCTGGACAAGCGGGCGGCGGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGC
CACCTACCGCACCTGCGTGGCCGACGCGAAGACGCAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCG
GCAGATCCAGGAGGTCATCCGGCAGAGCGACCAAAACCATCAAGTCGGCCACGATCTCCTACTACCAGATGATGCA
TATGCAGACGGCGCCGCTGCCCGTGCACCTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCA
GTACGCCTCCACGTGCGCCAGCTGCAGCGGGACAGGAGCCCGATGTGCACTACGACTTTGAGCCCCACGTCTC
CGCCAACGCTGGTCCCCCGTCATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCCGGAGGC
TGCCGGGAGCCCCCAGAAGAAGGCGGGTGCACCTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACA
CCAGGTTCAAGTTCATGGCCGCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGA
CTTTAAGAAGTTCGAGCGGACGTATCCAGTGGTACCATGTCGTCCACGGAGGAGCTGGTGGACCCAGACGGTGG
AGCCGGGGCTTCAGCCTTTGAGCAGGCTGACCTCAACGGCATGACCCCCGAGCTGCCGGTGGCCGTGCCAGTGG
ACCGTTCCGCCACGAGGGGCTGTCCAAGGCGGCCGCTACTACCGGCTCCGGAAGCTCCGCACGCCGCCAAGTG
CCGCGAGTGCAACAGCTACGTCTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTGCTGGCCTGCCACAAGAAATG
TCTGGAGACGCTGGCCATACAGTGCGGGCACAAGAAGCTGCAAGGCCGCTGCAGCTGTTCCGGCCAGGACTTCAG
CCACGCGGCCCGCAGCGCCCCCGACGGCGTGGCCTTCATCGTCAAGAAGTGCCTCTGCGAGATCGAGCGCGGGC
GCTGCGCACCAAGGGCATCTACCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCAGAA
CGGCAAGGAGCTGGTCGAGCTGTGCGAGGCCTCGCCCCACGACATCAGCAACGTCCTCAAGCTCTACCTGCGTCA
GCTTCCCCGAGCCGCTCATCTCCTTCCGCCTCTACCACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGA
GGCCGAGGCCAAGGCGGCTCCCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCAGTGGCGGTGGCCCTGGCAGG
TCGGCTGCGGGAGCTCCTGCGGGACCTGCCGCCTGAGAACCGGGCCTCGCTGCAGTACCTGCTGCCTACCTACG
CAGGATCGTGAGGTGGAGCAGGACAACAAGATGACCCCGGGAACCTGGGCATCGTGTTCGGGCCACGCTGCT
TCGGCCACGGCCACCGAGGCCACCGTGTCCCTCTCCTCCCTGGTGGATTATCCCCATCAGGCCCGGCTCATCGA
GACTCTCATCGTCCACTACGGCCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCGGGGGCCAGGACGAGTCATC
CAACCAGCGAGCTGAGGTAGTCTGTCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGA
GGCGGGCGGACGGGTGCAGAGAATCCCGAGTTGTGTCCAACGATTGCGACTCGGACCTAGAGGAGGCCTCCGA
GCTGCTGTCTCATCGGAGGCCAGTGGCTGGGCCACCTCAGCTTCTGAGCAGCAGCAGAGCGAGGCCAGCCT
AGAGGTGGCTTCTGGCAGCCACAGCGGAGTGAGGAGCAGCTGGAGGCCACAGCCGGGAGGACGGGGACGGGGA
CGAGGACGGCCCCGGCCAGCAGCTCTCAGGATTCAACACCAACCAGTCCAACAACGTGCTGCAGGCCCACTGCC
CCCCATGAGGCTCCGTGGCGGGCGGATGACACTGGGCTCCTGCAGGGAAAGGACGCCGAATTCGTGTGAGCTGG

4086/5332
FIGURE 3559B

GGTGGGGCTGGGACCACAGGTGGCTTCTCTCTTGCCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCAT
AGCTTAGGTGCGCCGTCCTGGGGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCC
CAGAGGCTTCCAGGAGCACGAGGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCCTGCACCCCGGCTCAGC
TGAGCTGGGGAACACTGCTGTCTGTGTAAGTCACAGTGGCCTTGTTGGTGCCACAGGGCTGTGTGGATGGAGGA
AGCTGTCCCTGCCCAGTGCATCCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCA
CAGGTCTGTTGCAGGGACTCCAGAAACCATTCTGGGAGCCGTGGATGGGGGCGGAGCTGGGGTTTGGTGCAGTTT
CCAGGGTGCACTACAGCAGGGCCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGG
GGCTCAGGTACACAGTGGGGTCTCTCGGAAGCCACCGTGTGGTTCTTTACAGGCACGTTTATTTTGCTGAAATA
AAAAGTTTTTAATCGGG

4087/5332
FIGURE 3560

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTACCGTGCTGGTGGCCCAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGACGAGGGCATGACACCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGGACCCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCACTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCTGCCCTGCCAGAATCCGGCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCTGGGGTGAGGCTT
CCTGTGGCCAGCCCGCCCCATTACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG
GGAGGTACCTGGGGGACAGTGGTGCCGGGTCTTACCCAGACCACGCTGGGTCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCTTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGCGGCGCCCCCGCCGGCCTCGGCTCTTTACTCCATTACAGCCATGCACGCGCTCAAGCCACCAG
GGTGCGAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAATAAATTTGCTTGATACAG

4088/5332
FIGURE 3561

GGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCGCG
CGATGAGCCTCGGCCGCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCCTGG
CCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACATCG
ACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAGGCA
AGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCCATACTGAGTGTGGTTTTCGGGATCCTGGCCT
TCCCGTGTAACCAAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACAACG
TCAAATTCGATATGTTAGCAAGATCTGCGTGAACGGGGACGACGCCACCCGCTGTGGAAGTGGATGAAGATCC
AACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAACCTCACCAAGTTCCTCATCGACAAGAACGGCT
GCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTCTAGCTCC
ACAAGTGTGTGGCCCCGCCCCGAGCCCCCTGCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGCCTG
CAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCGGAGGAAGGTCCCATGGCCTGCTGGGCT
TGGCTCGGCGCCCCACCCCTGGCTACCTTGTGGGAATAAACAGACAAATTAG

4089/5332
FIGURE 3562A

GCCCGAAACCCGGAAGTGAGCGGGCGGAGCTGCGAGGCTCGGAGAAACAGGCGCGCGGGCTCCGCGCCCGGCCG
GACCCGGGGCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCCAGATAGACGCCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCTGCTGCCCGGCCGAGGACCCACCCCGCTGCCGCCGATGCTTGACG
TGGGGCCCGCCATGGACAGGGATTACCCGACGATGAACCCCGCGCGGGCAGCCTCCTGTACAGCCCGCCG
CCCTGCAGAGCGCCATGCTGCACTGCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCCGTTTCATGAGCTCCGCTCCTTCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTTGCTCAGGACTCCTCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTGCGACATCGTGGACACGCCCCGACTTCTGCCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCTGCCCCCTCCACCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGACAGGCTTCGAGGACTTTCTGCCCTCCACAGCACCCTGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCTGCCAGCAACACGAGGTCTGCTCCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCGGGCGTGGGCAAAGGCCGGACGGTGGCCGGAGTCATCTGGAGAACACCTGCGCGGGCCGGAAGAAAGCAT
TGTGGTTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCCTACCTCAGAGGGCGTCTCTTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGGCGGCCAGCACCAGCTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCTCCTGTTCGACGAGTGTCAAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAGCTGCCCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACCTTTGAGGAGTCTCTGCACG
CCATCGAGAAGAGGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGACGGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGCCTCTACA
ACCGCGCGGGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTGGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGGTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTGCTAATTGAGAAGCACTTCCGTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCGAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCTGGCCTGGACAGCGACTTCAACTCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTATCGTTGATGCACTCGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGATG
GCCCCGGGTCTGGAGCGGTGGAGCGGTGAAGCAGGATCTGCTGGACAAAGTGCGGCGGCTGGGCGGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACAGCTGGGCGGGCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGCGCGCTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCCGGCCGACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGTTCCGCTTCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCC
TGACCCACGGAGACCGCGCGGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCTCACCAACCATCTGAGCCAGACTGAGAACAAGTGCCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCTGAACCGCATCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCTGGACCTTGTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC
CCGGGCACCCGAGGACGGGAGGTGTTCTTACAAGATCAGCGTGGACCGCGGCTGAAGTGGGAGGACGCT
TTGCCAAGTCGCTGGCGCTGACGGGCCCTATGACGGCTTCTACCTCTCTACAAGTCCGCGGTAACAAGCCCA
GCTGCCTGTGGCGGAGCAGAACCAGCGGCCAGTTCTTACGGTGTACAAGCCCAACATCGGCCGCGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCCACCGGGTACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

4090/5332
FIGURE 3562B

GCTACGCTTTGTGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGC GGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCTGGGCTGCCCCGCCCCGCCCCGCGCCCGCTGGCGCTGCCTTTCGGGCCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCCGCACTTCTCTTTCGGGCGC
CGCTGTCCCTGGACGCGGCCCCGGCGTCGTGCCGCTGGGCACCCCCGACGCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCTTCCCCGGCGCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTCTCCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCAGTGCCTTCAGCGCCCGACCCGGGCCCCACCTGGTCAGCCCTGGCGGGGCCCCACTCAGGACAG
CTGGGGGCGGGGCGTGCCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCCAAACCCTTGAAATCCGTGAAACCGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCCTCACCTCTCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTAATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

4091/5332
FIGURE 3563

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCAGTTCTGAGGCCCGGGTCCCACTGGAAC
CGCGTCTGAGCCGCCGTCCCGGACCCCGGTGCCCCGCCGTCCGAGACCCTGCACCGGGCTTGGAATCGCAGCC
GGGACTGACGTGTAGAACAAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTTCCTTT
TTTTTTTCTTTTTTCTTTGTAAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGCATCGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTTCATCTACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATATGGTGTATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTTCAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGGTG
GCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCATGCACCCGTTTCGCGGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCCGGCTTTCCAGCCGCCCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTGGCTGGGGTCAACCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAAGTGCCTATCCACCGAGCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGAGGAGCCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGGCCCGGACAGGTCCAGAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAATCCAGGGCGGAGGGCCGGGCCCCCAACC
CTGCCCCGAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTCCGGCCTGCAAGCAGCAGTGGAGGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCTGCGGTTCCGCCCGCCCT
CCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGACAGCAGGGACCGGGCGCAGCCCTCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCATTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCAGCGCCGTCCGGCGGCCCGCCGAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTTG
GTTGGTTCCATTTTCTTTTTTCTTTTTTTTTTTAAGAAAAATAAAAGGTGGATTG

4092/5332
FIGURE 3564

GTCCTCCTCGCCCTCCAGGCCGCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCC
CCGCTGCCATGCTGCCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCGTGCCATG
CCGAGGCCGCCGCCGCCCGGGCTGCCGCCTCTGGCCCCAACCCAGATGTCCTTCACCTTCGCCTCTCCACGCAGG
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCCC
ACGTGCCCCACGCTGCAGGTCCCTGCGGCCGGGGCTGGTCGTGGTGTCATGCAGAGGACGGCACCACTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAATTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACCTGGAGAAGGCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAGTAGGCGGTGCGTA
CCCGGTGTCCCAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCCTTCCGCCTCTCAAGATCCCCCAGCCTGACGGGCCGCTTACCATCCCCCTCTGCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCAGCCCCCGCCCCATTAAAGACCCGGAAGCC
TG

CACGACGCGGGCGGGCCGCGCGTGCATCTGGCACCATCTCTGCAGATCTCTGAACGACCTCTTGAGCGGCCACCCGGCA
CTACCAGGGCATGCCCCCTTCGCTGGCCAGCTCCGCTGCCACGCCCAGTGCTCCCGGGCTCACCAGCCCCCGA
CCTGGCCCCCAGAACTACCTCCTGCGAGAAGCTCACGGCTGCCCCCTCAGCCTCCCTGCTGCAGGGCCAGAGCCA
GATCCGCATGTGCAAGCCCCCGGGGACC GGCTTCGGCAGACAGAAAAACCGCGCCACGCGCTGCAAGGTGGAACG
GCTGCAGCTGCTTCTGCAGCAGAAACGGCTCCGTAGAAAGGCCGGCGGGACGCGCGGGGTCCGTACCCTGGTTC
ACCCAGCCGCAAGGCCGGCCGAGCGACAGCAGTAGCAGCGGGGGCGGCGGCAGCCCCAGCGAGGCCCTCCGGCTT
GGGCTTCGACTTCGAGGACTCCGTGTGGAAGCCAGAAGTCAACCTTGACATCAAGTCAGAGTTCGTGGTGGCTTA
GGATCTTCGGATCGGCCACCCTCGCCCTCGCACCCAGCCAGGGCGGCGGGGACTCCGAGAGCCCCGGAGAGA
ACGTGGCCCAGCCCTGGAGGGCAGGCGGCCACTCCCCAGCCAGAAAGTCTTTTTTCTTTTCTTTTCTTTTATTA
TTTTTTCTTTTTTAAAAAGTTCTGACCGTGGTTTCTGGACTCTTCA~~TG~~GGCTTTGCTTCCTACCTCCTTCAC
CCTTACTCCTGCCCTCCTCTTCTCTCTCTCTCTCTCCGTCTGTCTCCTTTACCTCTGCGCCAGGTCGGT
CCTCCCTGCCAACCTTCCCCAGCTCCAATATGTAGCAGTCTCTCTGGATGGCGGAGAGTGAAGGAGACGGAGAAA
CGCGCCCCATCCCTTCCGCGCCTCCTTTCCCCCCCCGACCCATTACAGGTTTTAAGTCAAAAATGTCGATATGTC
ATTATGCACTTTACAGATGAGGGGAGGGGCCGAGTGCAGAGAACCACCCACCCCCAGTGCAGACTTCGGGG
TCTCCACCCAGGCCAGCAGCGCCCACTGGGCTACAGCAAGCCAACAGGTCACAGAAGCCAACGAGGGGACTGTT
TCTCTCCACTCCTATCCTCTTTTCTTGAICTTTTTTTTGCATTTTCTTTCATTCTTTTAAACAAGGAGAGCAAA
CTGTTTTAGCAGAGGCTGGGGCTGAGGTCCCCATGGGGTTTGGGTGCAGGGGCATGGACCCTTTCTGTCTGGGA
AGGGAGAGGGGAACACCCCCCAGCCTGCCCTCCGCCCCGCCCCAGCCGGCGGACTGTGCTGTTTCTCCGCCC
CCACTCCCGTGTTTTCTGACCTCCTGCCTGAGTTGGGGTATTTATAGACTATTAATTTTCTGACTGAGCCAATA
GTGGTTGGGGAACTCTTGAAAAAGGGGAGAGAAATGGCTGGGTGCTGGGGAGTTCCCCCTCCGAGCCCTCCTTCC
CGGCCCCAACCTGAGGGATGTGGATTGGGACTGTCTGGGGGCCCTCCTGCAGCGAGGATGGGAGGGGGTGTCTGA
GCTGTGAATCCCCTGGGCAGGGGGCGACAACCTCCGTGTAGCATTAACCCCGTGGCGGGGTCCGCTGCTGGTCTA
ATTTGGACCCCTGCCTCTCAGTGGCCCTGCCCTAGGGGTGTCTGTCTCCAGAGGGGAGGGACAAATCCCCTACT
GGGGCCATTTCAATGGGGTAGTTTTTGGATTTTTTTCCCCACTCACTTTTTATTTTTTAAATGATAATGGAGATGT
CTGGACCTTCTCACCCACCTGTCGGTCTTGCTCTGGCTCTGCCTGTCCCCACCCTTGTTCGTAGGTGAA
CCCCAGGTCCTCAACTCCCCCCTTTATGTGTTGAAAGTTAATGGTTTCAGATGTGAACATCACGTGTTATAACT
GTAGCGCTGTAAATTTTTTTGTGGGAGGGTGGGCAGGGAGGGGTCCAGAGGGTAGAGCTCAAGGATTTTGGGTT
TTGTTTTGTTTTCATTTTTCAAAAAAAAAAAGAAAAAAATAGAAAAAAAGGAGTAAAGGGGCGGGTTTGT
TTTTGAAGAACTGTCTTGATACCTATTTAAATGTGTGTTCTGTTTTGTTTTTAAACGATTTTTAAATAACGTCT
GTGCTCCACTGGTTGAGGGTGAACCTCCAGGCAGGAACCGGCTCGCCACCCTCTGCCCGTAAGGGCTGCCCA
AGAAAGCATTACCCGCCCTCGGGGGGTGGGGCTGTGGGGGTCCCGGCACCTGGCGTGAGTTTCATGTATGAAAA
ATAAAATTGAAAAAAAAAAAAAACCTACACGAGCACCCTGATTTCAAGTAATAAACAGAAATGAAACAC

4094/5332
FIGURE 3566

GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCGTCAGGGACCTGCCCGACTCAGTGCCCGCCATGGCA
TCAGATGAAGGCAAACCTTTTTGTTGGAGGGCTGAGTTTTGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTCTC
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGTTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTTAAAAACCTTCTCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTTCGTAGTCATTTTCGGTTCTGATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCTCGTTACTAGACTTTTCTTTTTTAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAACATTTTGA
AAAGCATTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTTGTGCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACCTCCGTGTGA
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTGTCAGTGGCTGAGGAATTCTTGTACGCAGTTTT
CTTTGGCTTTACGAAGCCGATTAAAGACCGTGTGAAATG

4095/5332
FIGURE 3567A

GCGGTGGCGGAGGCGGACACATTGGCGTGAGACCTGGGAGTACGTTGTGCCAAATCATTGCCACTTGCCACATGA
GTGTAAATGATGGCGGATGCCAAGTATGTCCTCTGCCGATGGGAAAAGCGATTATGGCCTGCGAAGGTTTTGGCC
CGAACC GCGACTTCAACAAAAAATAAGAGAAGAAAGGAATATTTCTAGCTGTGCAAATCCTCTCTCTAGAGGAA
AAAATTAAGGTGAAAAAGCACTGAAGTTGAGATCCTAGAGAAGTCTCAAATTGAAGCCATTGCTTCCTCGTTAGCC
TCACAGAATGAGGTTCTCTGCGGCACCCCTGGAAGAACTGGCCTACAGACGGTCGCTTCGCGTGGCTCTGGACGTT
CTGAGCGAGGGCTCGATTGGAGTCAAGAAAGCTCTGCAGGGACAGGTAGAGCTGACCGGTCTCTGCGAGGGGAAAG
CCCATGGAGCATGTCTCTCGCCCTGTGATTGCAACTCCTCATCTCTTCCCGCGGAGACGTGTTGGGCAGTTCC
AGACCTCACAGGAGGAGGCCATGTGTGCAACAAAGCCTGTCAAGTTTCGTTCACTTGTGAAAAGGACCCCGAGTGC
AAAGTGGACCACAAGAAGGGGCTCAGGAAAAGTGAACCCCAAGAGGCCCGTTGGTCTCTCCAGCTGGAGGTGGT
GCCCAAGATGAGAGTGGGTCCAGAATCCACCACAAAAATTGGACTCTGCAAGTAAGAGGGGAGGAACTCAGCG
CAGAAGGCTAGCTTGTGCTGAATGGATCTTCCCTTTCAGAGGACGACACGGAGAGAGACATGGGGAGCAAAGGA
GGCAGCTGGGCAGCCCCGTCTTGGCCTCCGGGGTCAAGGAGGACGATCCCTGTGCCAACGCTGAGGGACACGAC
CCCGGTCTGCCGTTGGGCAGCCTCACTGCGCCCCCAGCCCCCTGAGCCCTCGGCCTGCTCAGAGCCTGGAGAATGC
CCTGCGAAAAAGAGGCCGCGCCTGGATGGCAGCCAAAGGCCGCTGCCGTGCAGCTGGAGCCCATGGCAGCAGGG
GCCGACCATCCCCGGGGCCGGGGCCAGGGCCAGAGAGTCTGTGACCCCGCGCAGCACCGCCAGGCTGGGCCCCG
CCTCCCTCCACGCTCTGCGGATGCAACCAGATGTCTTCTTGGCCGATTCCCAGAAGCTGGAGAAAGAGTGC
CAGTCTTCCGAAGAGTCCATGGGGTCTAATTCCATGCGTTCTATCCTGGAGGAAGACGAGGAAGACGAGGAGCCA
CCAAGAGTCTTTTTATACCAGAACACGTTTCGTTTGAAGTAGGAATGCTAGTCTGGCATAAACATAAAAAATAC
CCCTTCTGGCCAGCAGTGGTCAAAAGCGTCAGGCAGAGAGATAAGAAAGCAAGTGTGCTATACATCGAAGGACAC
ATGAACCCGAAAATGAAAGGTTTACAGTGTCTCTTAAAGTTTAAAGCACTTTGATTGTAAAGAGAAACAGACG
CTTCTGAATCAAGCCAGGAGGACTTCAACCAGGACATCGGCTGGTGTGTCTCCCTCATCACCGACTACAGGGTC
CGGTTAGGCTGCGGGTCTTTTGGCTGGCTCTTTTCTGGAATATTACGCGGCTGATATAAGCTATCCTGTCCGAAAA
TCCATCCAGCAGGACGCTTGGGGACCAAGCTTCTCAACTGAGCAAGGGGAGCCCCGAGGAGCCCGTGGTGGGG
TGCCCCCTGGGGCAGAGGCAGCCCTGCCGGAATAATGCTCCCCGACCGCTCGCGGGCCGCCCCGGGACCGGGCCAAC
CAGAAGCTGGTGGAGTACATTGTGAAGGCCAAGGGCGCGGAGAGCCACCTGCGGGCCATCCTAAAGAGCAGGAAG
CCATCTCGCTGGCTGCAGACCTTCTGAGCTCCAGCCAGTACGTGACCTGTGTGGAGACCTACCTGGAGGATGAG
GGGCAGCTGGACCTGGTGGTGAAGTACCTGCAGGGCGTCTACCAGGAGGTGGGGGCCAAGGTGCTCCAGCGCACC
AACGGCGACCGGATCCGGTTCACTTGGACGTGCTTCTGCCGAGGCCATCATCTGTGCGATCTCTGCGGTGGAC
GAGGTGGACTACAAGACGGCTGAGGAGAAGTACATCAAGGGGCCCTTCGCTGAGCTACCGGGAAAAAGAAATATTT
GACAACCAGCTCCTTGAAGAGCGGAACCGGCGCCGTCGGTGAAGGAGCAGCCGGCTGTGCTGTGTCAGCGGGCCCTG
GCGGTGGAAGCGCCTCCAGTGTGCATGAGCGTGTCTGAAGATGGGGGGCTCAGGGGGCACGTTTGCCTTTGGACC
TGTCTGTGCGTTCTCTCGCTGGCAGTCTGATTTCCATGCTTCTGGAGAATCCATTTCGTTAACTGAAAGCC
AGTTCTCTTTTCTGGCAGTTTTTTTCAATTTATTTTGGCATTTTTTACAAGATACCGTTCGGGAAAGGCTTTT
GAAAGGACGGAAGCGTATTCAGTGTGCGCCAGTACTCTGGCTGTGCTGTGGTTTCTCCCGACGTGCACATCGAT
CTCGTATGTGTGGCATCTGATATTAAACGGGAGGTTTTAAGAAGCGTCTGCCGTGATCATGGAGCTTCGGAAGCG
GGAATGGTTCTTCCGGGTTTGCCTTTGTCTGTTTCCCCCTTGTGTGGTTTCCGCTGCGACAGATTCGGAAGCT
TGCTCTCCCACTCAGTGTGCTCTGCAGCTGTGAGGAAACAGCCTTCGTTAGAGGCGGGAGCAGAGACGAGCCGCT
GCTCTGTGTCTGTTTGTCTGTGGCCGAGGGAGAGGACAGGACACGCACCTTTCAGGGGCCTCTGTGTCCCGC
ACTGTGTGTGAGTGGACCGCAGCGCAGCCACATGCCCTGGCTGCCATGGGCCAGACCGCCTCCACCTCCCCCG
CCCGCCTGGCCTGTCTGAGTGCATTTCCCTGCACTGTGTCTGCTACTGCACAGCCAGTCACCGCGGTCTCAGTCA
TCGGCGCGGATGGCTATGCTGGGGTCCAGGGTGGCCGAGCAGTCAAGGTCACTGTGGGAGCCCTGGGGTGGAG
TGACAAACCGCATTTGCTGTGCCCGCATGGCAGAAGCGCAGCCTTTGTATGGAGGCCCAACCGCGCTCCCGTC
TGGAGAAGCGGCTTCCGGGGTGTGGCTGCCGGGTGCGCTCTGGTCCACAGCACGGTGCCGGGGCTGCAGGTTGTT
GAGGGCTGTGACTCCGTGGGGCTCAGCCAGGCTCCAGCAGGGTCAAGCTGTGTTAAGAGCAAAGCCACAGACG
ATGACTTGTCCATTCTCAGTGGATGCTCCAGGCTGTGCTACACAGCAGTGTGGTGACATGTCCAGGGTTCAG
GGCCCGGTGGCCTGGGAGCTGCTTTCTCCCCACTGGCTGGGCTGCATCTGGCCCTGGCTGGAGGCTTGTGTTGA
GGGGCTGTGACCCTCTTCCCCCAGGCCCTCCCCAGCCGACGACAGCCACCGGAGAGGAGATCGGAACACGATTGT
CTCAGATGCAGGGCGCTGTGCGGGACGAAGCCGAAGGACTCTCGTATCGGGCCCTTGGGACTCGGGAGGTGCCA

4096/5332
FIGURE 3567B

GAGGCGGCGGCTGCTCTGGACCTCGGTGTTCACTGACCTTTGTTTCACTTGCCCTCTGCTCGACTCCGAGAGCAGG
AAACCCGGCCGTGGCCTGGCAGCTCCGCCTCCCATGCCCGCACGCTGGGGTCTGTCTTGTCTGGAGCAGTGGGGC
ACACCCCGGAGGAGGCGGGGGTCAGGGCTGTCGGCCTTGGCCCCCTGCTGGTCGCTGTTTCGGGGACTCGGGGCG
GCCAGTACCACCGCCTGAGGCGGGGCTCAGCAGCGTTGCATGTACGGGCCTCGTACTGCCTCATGGAAAATCCTC
CGGAGCCGCCCTCCATTGTGGGTTCCCTGAGAGTAGGACACATTGCCATGGTTTTGTGGGAATCACGCGCCCCTGA
TGGAACTTTCTGCTGTTGTGAAGTACTTTTATCCATTGCTTCTCTGCTGACCTTGCCAAGTTGTTTCGAGGTGG
AATTAAACACCTCCCAGACC

4097/5332
FIGURE 3568

CTGCGCGCTGCGGTCCACTCACACACAGTGC GGGACACAGAGGCCCTGGAAAGAGCACACTGAGTGGGAGAGCA
AATTCTGGAACGTGTCGAGGCGGAAACCACACAAGGGGGAAACAGACAAAACAGCAAACCCGGAAGAACCATTC
CGCTTCCGAAGCTCCATGATCACGGCAGACGCTTCTTAAACCTCCCGTTTAATATCAGATGCCACACATACGAG
ATCGATGTGCACGTGCGGAGAAACCACAGCACAGCCAGGAGTACTGGCGCACAGTGAATACGCTTCCGTCCTTTC
AAAAGCCTTTCCCGAACGGTATCTTGTA AAAAATGCCAAAAATAAAATGAAAAAACTGCCAGGAAAAGAGAACT
GGCTTTCAGTGTAAACGAAATGGATTCTCCAGAAGCATGGAATCAGGACTGCCACGCAGGAGAACGCACAGACA
GGTCCAAACGCAACGTGCCCCCTGAGCCCCCATCTTCAGACACGCTCATGCACACTGGAGGCGCTTCCACCGC
CAGGCCCGCTGACAGCACAGCCGGCTGCTCCCTCACTGGCTTGTATTTTGAGCATGTCCCGGCGTGATGAAA
TCACGGCCTGTGTGCTCAGCCCAAGTAACCTTCTCCATCAGCACCAGCACCATTCTCACAGGTCACGGGAGGCTTT
CATGGCAACTGGAAGCTGTGATGAACTCCTAACGGGTTTTGATGTGCGCAACCCAGACTCAAAAAAAAATCAG
GATGAAAGATTTCCACAGATGGGCGTGGAGCGGTGAAGAGGCTTCTGAGACGGAGGGAGAGGACAAACCAGCAGG
CTGGGTCCAGGTGTCTGGCTCCGACCTTACCCCTCCCGGACCTCACTATTCTTACGGCAAGCATGACGGGG
GAACCATGAAGATCCAGCAGGAAAACACCCAGTTTCTGTATCCAAAGGCCTTCCTGTTTTGGTAAGCCAGCTGG
GCCAACACTCCCTAAACAAGGCCAAATTCCACCTTTGTGCAGCTCTGCGGGGTGGCCTGCCAATGCCACCGAGG
CCCCACACCTCCTCCCTGGCCTCTCCAGGGGCCCTCCTGCCCTGCCCAGGGAGGACATGGGGCTGGTGAGGGAG
TTCAGTGTCTTCACAGGAGTCTCCTGTGACTGTGGGCCCGGAGACGTCGGTGGCTGCGCAAGCCACCCTGGCC
GGAGACCCTGTCTCTGACTCTAGTTGAGTCTTCAGCCTGTCACTGCCCGTGGGCCCCGCTGGCTCCCAGCAAG
GCCTGGCCGCATGCCAGAGACAGGATTAGGCGCTCTGGGGGCCAAACATCCAAGGGCAGCTAAGCACACGGATG
TGAGAGAAACATCTTGATCACAGCATTCTTCTGGCTGCTGGAAGCACCGGGCCGTGCTGCTGCTTAATCTTGCT
GTATTTCTCACACAGCCATGGGGCTGTGGAAAGAGGGGAGGAAAGTGCAAAAAGCAAACATCAGCCCCTGCAAAA
AGAGATTAAGAACAGACACGGCCAGGCACGTGCCCGTGGCCCCGTGCTGCCACAGCGACCAGCTGGGAGACCC
GGGCACAGCCTTCCTGGGGGGCAGGAGTGACCCACAGGGTGAGTTCAGCGTATGTGATCAGCTCAACCCAGCA
CCTGGGCCACCTCATGAGGGAGAGGGGCTGCGGCAGCCTGGAGTCAAACCTGCCTGTGGGTGTGGAAATAGAACT
GCAAGGCAGAGACGCAAGTGGCTGGAGATAGCGCCGGGAGCGGCCTACCGGTAGCTCAGCGAAGGCCCTTGATG
TACTTCTCCTCAGCCGTCTTGTAGTCCACCTCGTCCACCGCAGAGATCGCACAGATGATGGCCTGTGAGAGGGCA
CGGGGCTCAATAGCAGCAGGCACTGCCCAACTGGCCCCAAGTGGCCTGCGGTTAAGAAGGCCGAGGGAGCCTGG
GTCACCAGGTTCCAGCCTCCAGACATGGTCTAGCTCATGGTTCAGAAGGTGCAAACCTAGTCCATGAATCCCTGC
TTGTAATGATGTTTCTTAATTAATCAGTACTATCTTTCGGACTAGACACAATAGCTCAGATCACTAAAAGCAGA
GAAGAAAAGGCAAGACCCAAACCCACAAGAGCATTTCTCAAAAATTTTAAGTTTTTTTTTGGTGGCGGTTTTTT
CTGGTACAGAGTCTCGCCCTGTGCCCCAGGCTGGAGCGCAATGGCATAATCTCAGCTCACTGCAACCTCTGCCTC
CCGGGTTCAGGTGATTCTCCTGCCCTCAGCCTCCCGAGTAGCTGGGATTATAGGTACGCGCCACCACGCCAGCTA
ATTTTTGTATTTTTAGTAGAAACGGGGTTTACCATGTTGGCCAGGCTGGTCTCAAGCTCCTGGCCTCATGATCC
ACCTGCCTCGGCCTCCCAAAGTGCTGGAATTACCGATGCGAGCCACCACACCCGGCCTTAAGTTTATTGTTATAA
AAAAAAAAGAGTATCCTGAATACACAATACATACCTGACATTAAGAAATCATCCCTATTTTTTACTTTTGTGATT
ATGGTAAACACATTTTTTAACAGAGTCCATTGCTTCAGAGCAGAGTCTCTCCACTCGGCCCTGTGGACGTGGG
GCCAGACTGTTCTCTGAGGTGGGGCTGTCTAGGCGCTGCAGGGTCTGAGCAGCGTCCCTGCCCCAACC

4098/5332
FIGURE 3569

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCCG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCCGCGCCAGTCCGACGTATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCGCCGCCGCCGCCGGAGCCTGT
CGCCGTCCTGTCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCC

4099/5332
FIGURE 3570

CCCCGGCCCCACAAGCCCCCTGCAGGGAGCGGGCCCCGGGCGGCGCGGATCGAGGTCGGGTCGCCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGGCGCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCGCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACCGGCCGACTGCCGCTACTACGCCT
TCCACAGATGATCACGCCCTGGTGACCAAAGGCTAGCCCCCACC CGGCCCGGCCACACCCATGCCCTCCTC
CGTGCCTTCTTGGCCGGGAGTCCAGGGTGTGCGACCCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCCAGCT
TCTCTGTGAGGGTCACTGCTGCCCCTGCAGGGTCCCTGAGGTGAAGTAAACGCCGGCGCTGGGCTTGGCCAGTC
GGCAGTGA

4100/5332
FIGURE 3571

ATGGCCTGGGCGCTCGAGGTGACCCCTCTGAGCCTCTGTCCTCTCCCCAGTAGGCCAGGCATGGGCCCTATCCCT
GACACCTGGTCTACCACCCAGGCGCCTAGCACCCAGCGGCTACTCAACAGGATGTGGCGACCCGGCCGCGCTGT
GTCAGCTTCCCAGAATCCAAGTCAGAGGCGCTCAAGCCAGACTTTAAGATGACTTCACAAGGCCAGGGAGGGCAC
ACTGGAGACTCGGGCCTTCCTGATCTCGCGTGCTCTGAGCGCTCCAGGCCACCTGCTGGTGCCAACCCTCTAACC
CTCCTGACAGGCTGCAGAGAGGGAGCTGATGCCAGAATGAGGGGGAACCCCGGAGCTTCTCGCATCGGGTGGGA
CCGGCATCCGAGGCAGAGCTGTCATCGTGGGCACTGGGAAGTAGCCTGCAGTGTGAGCACAGACCGGCGCTCACC
AACGACACGGCACGGAGGCTTTCTAGGGAGCAGTCCCCCAGGACAGCAATACGTTGAGGCGACAGCGACACAGG
GCAGCAACAGCGGTAACCCTGTCTGCTGGCACTGAGGGCCTCATCAGACCCCTGCAGGCCTGCAACCACAGCCAA
AATCAGTGTGCCTTCTCCAAAGCCACCTTCTTGA

4101/5332
FIGURE 3572

GGAAGCTCTTCGTGGGCGGTCTTGACTGGAGCAGACCCAAAGAGACTCTGCGCAGCTACTTTTTCCCAATATGGAG
AAGTCGTAGATTGTGTATCATGAAAGATAAAACCACCAACCAGTCTCGAGGCTTTGGGTTTGTCAAATTTAAAG
ACCCAAACTGTGTGGGACGGTGCTGGCCAGCAGACCGCACACGCTAGATGGCCGAAACATCGACCCCAAGCCAT
GCACACCCCGGGGGATGCAGCCGGAGAGAACACGGCCGAAGGAAGGATGGCAGAAAGGACCCAGGAGCGATAACA
GTAAATCAAATAAGATATTTGTGCGGTGGAATTCCTCACAATTGTGGTGAGACAGAGCTCAGGGAATACTTCAAGA
AGTTCGGAGTGGTCACGGAGGTAGTCATGATCTATGACGCCGAGAAGCAGAGGCCCCGAGGTTTTGGATTTATTA
CTTTCGAGGACGAACAATCAGTGGACCAGGCTGTCAACATGCATTTTCACGACATCATGGGCAAAAAAGTGGAAG
TTAAACGAGCTGAGCCTCGGGACAGCAAGAGCCAAGCGCCGGGACAGCCAGGTGCCAGCCAGTGGGGGAGCCGGG
TTGTGCCCAACGCTGCCAATGGCTGGGCAGGCCAGCCCCGCCACGTGGCAGCAAGGATATGGCCCCGAAGGAA
TGTGGGTGCCGGCAGGACAGGCGATTGGTGGCTATGGACCGCCCCCTGCAGGAAGAGGAGCCCCCGCCACCCC
CACCGTTACCTCCTACATCGTGTCCACCCCTCCTGGAGGCTTTCCCCCTCCCAGGGCTTCCCTCAGGGCTACG
GTGCCCCGCCACAGTTCAGTTTTGGCTACGGGCCTCCACCTCCACCGCCAGATCAGTTTGCCCCCTCCGGGGGTTT
CTCCTCCACAGCCACTCCCGGGGCAGCACCTCTGGCTTTCCACCGCCTCCGTCTCAGGCTGCCCCGGACATGA
GCAAGCCCCCGACAGCTCAGCCAGACTTCCCCTATGGTCAGTATGGCCTGGGTTCCTATTCTCCAGCCCCGCCGG
GCTGCGGCCCCACACTTTGTTTACAGTCTTATGGTCAGGCTGAGCAGTGATGTGGCCTAGCAGGTTACGGGCAGGA
CTTGAGTGGCTTCGGACAGGGCTTCTCAGACCCAGCCAGCAGCCTCCTTCTACGGGGGTCCCTCCGTGCCAGG
GTGCGGGGGCCCCCCCCCGCGCGGCAGCGGCTTTGGACGAGGGCAGAACCACAACGTGCAAGGGTTCCACCCCTA
CCGACGCTAGCCCGCGGCGCGCGACGTCTGCACGGCCAGACCCAGGATTCCAAACTTGTGAACTCGTGACAAT
CACAAACTTGGCGGCAAAGTGGCGACTCAACCTTGGGGGGGGGGCGGGGGGAGGGCGCGAGGCTTTTGGAGCGG
CTGTGGGTGTCTGTCTGGACTGAGGTTTTTAAATATTTCTTTCTTAACCCATCAGCACAATAAAAAAAGTCACT
GGTTCAACAACAGGGTTTTAAAAAAATGTCTTCAGCTTTAATTCAAACCTTCAGGTTTCTTTTTCTTCTTTTTT
TTGGAAATTATTTTCTGAGCCTTTTGTTTTACGGTATATTGTAACTTTTATGTTAAAGAAAAAATATACATTT
ACAAATTGTGAGATTTTTAAGAGAAATTTTCTACGATGTATACTGGCTTATTTTTTAATTTAAACGGGGTTTCC
GTCGGCACTGGTGGAGGGGGTGCGCTGTTAGTCCCCCTCGCTCCTGGCTTTGGGGGTGGGACTTGGTGGTCCAGA
AACTCTGGGAGCTTCTAGAAGAAATCTACTGAGTGTATTTCTGTTTTTGTTTAATTCCTTGCTTTTGTCTGACTG
ACCTGCTTGGTAGTGTCTGAGGTGAACGTGGGGGTGCGCACAGCCAGCCGCGTGATCCACGCAGCGCTGAA
CCGAACCGAGTAGGAAGCCTTTCTCCCCAGGCACGTGGCTTCAGGGCGTTTCCCATTGACCAGTTTGACCTGGT
TTGAATAAAGAGAAGTGCGTTTGGATTAG

4102/5332
FIGURE 3573

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

4103/5332
FIGURE 3574A

GGGTTTGGGGAGCAGGAGGCAGACATGTGTTGCTTTGCACGTCTCTGGTCCCTTCCACCTGGCTGGGCATGGGAT
GGTGACCTCAGCTGGAACATGGGGCTCGAGCCAGACCCAGGGTCTCCCTGCGTGTAGCCCCAACCCCAAGCCT
GATCCCCACTGGAGACCTGAACAGCCTTGGACATCATCGGATCAGGGTGGGAGGTGCCAGCCTCTGCCACCTGAC
TTCCAGTCCCTGTGCCCCCTCCACCCCTGCCCTTGGGCACTCCTGCCCTGCAGGTTCTCTCAGAGGGGCAACCCAAA
GCCAGAGAGGGGGCGGGTCTTGTGCGGGCTCCAGCCTGGACTTCCAGCCCCCTCTGGGGCAGCATCTGGGTGCCAG
ACCTCGGTTCTAGGGCCTCGTTTCTCCCTCTGGGAACAGCCAAATGGTGGTCCCTGAGACTCAGGACAGACCAA
GAAGGAGCCGGATGACATGGCAAGCCACACACTGCGTCCCCTGAGCAGGACGGGACAGCCCGACTCCATCTCCC
ACCTGCGACTGAGCCCCACCCCTACTCCTGTCCAGCCGTGCCCTGGTGACATTGGGTGGGAGGGGAGGGGA
TGAGGGGGCACCTGGGGGTGAGAGAACAAATGACGGGTGAATACATGTGTGTGCCAGGTGGAGGAGGGAGGGGA
GGAGCAGGTGGGCTGGACAGGGCCGGTGTGAGGAAGGGGCTCAGGCTGGCAGGGGGAGGTGGCAGAGGGATGGGC
TGCCATTGGTGCCTGTGAGACAAAGGCGGAGGGAGGAGGCGAGCGCTGATGGGAAAGGAACAAAGAGGGAAGGGG
GGCGTGAAGGGGGGCTCCGGCGGGAGGGCCGAGCCGAGGGAGGAGGCGCCGCCAGCTGGACAGAGGGAGGAGGC
CAGGCCAGAGCCAGAAGACGGCCAGAGGCACAAAGAAGCCAGCGCTGGCAGAGTCAAGGGATGGGGCAGGGGC
TGCCGGGGCCAGCAGGGACCAGCTGAAGGCTGCGCAGGGGGTGGCGGCCACACAGGTAGCCACCCTGAGCTCAGC
CACCGATGGAGGCTCGTGGGGCTGCTGCGGTGATGGCGGTGGGCTTGGGTCCATCTGTCTGCCGTTTCTGCACA
GCTTAGGTGTACCCACTGGCCTTCGTGGTGTTCATTGTCCATCGGCAGGGACAGCTGGTGGTCTGTCCGCCC
CGCGTGTCTGGCTGTGAGCCTCTGGGCAGGCTTGCTTTTATGGGGGAGGGTCCGTGTCTGTCTGTCTGTCTGCGCCCTC
TCTGGCTGTGAGCCTGGGGGTGCTGGGCTGGCCAGTCGGCTTGCTGGGTTAGGCTGTCCAGCTGTCTGTGTGT
TGTCCGGCTGTGAGGATGTGTCTTGGGGCTGGGAAGGAGAGGCCGACCCATCGTCTGTCTGGTTCGACTGGTCACT
TGGACGTTTCACTGTCTGTACGTCTGTCTGCTGGCCCCCTCTGTCTCCCCTTGGGGCCACCTCTCACTCCACCTGC
CCCTCTGCGCCCCGGATTGCTTGGCCACCACCACGTGGGCCTGTACTTGTCCACACCAGTGACTCCTGCCTGAGA
CCCCCCCCAACCAGGATCAGGCAGGACGGCTGGGGCTTAGGTGAGGGGCCGTCTGTCCGGAAGGCATCACCAGC
CCCTCCCCAGACCATCAGCTGAACCCCTTGACCTGTGATCCAGACGCTGCAGGAGCTGAAGATGGCGAGCTCC
GTGGCGCCCTACGAGCAGCTGGTGGGCAGGTGGAGGCCTTGAAGGCTGAGAACAGCCACCTGAGGCAGGAGCTA
AGGGACAACCTCCAGCCACCTGTCCAAGCTGGAGACAGAGACGTCGGGCATGAAGGAGGTCTGAAGCACCTACAG
GGAAAACCTGGAGCAGGAGGCCCGAGTGTGGTGTCTCGGGGCAGACGGAGGTGCTGGAGCAGCTGAAGGCCCTA
CAGATGGACATCACCAGCCTGTACAACCTCAAGTTCCAGCCGCCACCCCTGGGCCCCGAGCCTGCCGCCCCGACC
CCCCAGGGCAGCCAGTACACGGCTCCGGGCCCTCCAAGGACAGCTTTGGGGAGCTGAGCCGGGCCACCATCCGG
CTGCTGGAGGAACCTGGACCGGGAACGGTGTTCCTGTCTGAATGAGATTGAGAAGGAGGAGAAGGAGAAGCTCTGG
TACTACTCTCAGCTGCAGGGCCTGTCCAAGCGCTGGACGAGCTGCCGCACGTGGAGACGCAGTTCTCGATGCAG
ATGGACCTGATCCGGCAGCAGCTTGAGTTGAGGGCCAGCACATCCGCTCGCTGATGGAGGAGCGCTTCGGCACC
TCGGACGAGATGGTGCAGCGGGCACAGATCCGCGCCTCGCGCCTGGAGCAGATTGACAAGGAGCTGCTGGAGGCG
CAGGACCGAGTGCAGCAGACGGAGCCCCAGGCCTTGCTGGCGGTGAAGTCGGTGGCGGTGGACGAGGACCCCGAG
ACAGAGGTCCCCACACACCTGAGGATGGCACCCTCAGCCGGGCAACAGCAAGGTGGAGGTGGTCTTCTGGCTG
TTGTCCATGTTGGCGACGCGGACCAGGAGGATACAGCGCGCACGCTGCTGGCCATGTCCAGCTCGCCCCGAGAGC
TGCGTGGCCATGCGCCGCTCGGGCTGTCTGCCTCTGCTGCTGCAAAATCCTCCACGGCACCGAGGCCGCGCCGGG
GGTCGCGCCGGGGCCCCAGGGGCACCGGGCGCAAGGAGATGCGCGTCTGACGCTGCTGGAGCAGATCCGGGCC
TACTGCGAGACCTGCTGGGACTGGCTGCAGGCCCCAGAGCAGCGGGCCGAGGGAGGTGGCGCCGCGCAGCGCCCCG
ATCCCCATCGAGCCGAGATCTGCCAGGCCACCTGTGCTGTTATGAAGCTGTCTTTGATGAGGAGTACCGCCGT
GCCATGAACGAGCTAGGTGGGCTGCAGGCCGTGGCAGAGCTGCTGCAGGTTGACTATGAGATGCACAAGATGACC
CGGGAACCCGCTGAACCTGGCGCTGCGCCGCTACGCGGGCATGACCTCACCACCTCACCTTTGGGGACGTTGCC
AACAGGCCACCCCTGTGTGCGCGCCGCGGCTGCATGGAGGCCATCGTGGCCCAGCTGGCCTCCGACAGTGAGGAG
CTCCACCAGGTGGTGTCCAGCATCCTTCGGAACCTTGTCTGGAGGGCCGACATCAACAGCAAGAAGGTGCTGAGG
GAGGCGGGCAGCGTACTGCCCTGGTGCAGTGTGTCTGCGGGCCACCAAGGAGTCCACCCCTGAAGAGCGTGCTG
AGCGCCCTGTGGAATCTGTCTGCACACAGCACAGAGAACAAGGCGGCCATCTGCCAGGTGGATGGCGCCCTGGGC
TTCTTGGTGAGCACCTGACCTACAAGTGTGAGAGCAACTCGCTGGCCATCATCGAGAGCGGCGGGCGGCATCTC
CGCAATGTGTCCAGCCTCGTGCACCCCGTGAGGACTACAGGCAGGTGCTCCGGGATCACAACCTGTCTGCAGAGC

4104/5332
FIGURE 3574B

CTGCTGCAGCATCTGACTTCGCACAGCCTGACCATCGTGAGCAACGCGTGCGGCACGCTCTGGAACCTGTCGGCC
CGCAGCGCCCGTGACCAGGAGCTGCTGTGGGACCTGGGCGCCGTGGGCATGCTGCGTAATCTGGTGCCTCCAAG
CACAAGATGATCGCCATGGGCAGCGCCGCGCCCTGCGCAACCTGCTGGCCCATCGGCCCGCCAAGCACCAGGCG
GCCGCCACCGCCGTGTCCCCAGGCAGCTGCGTGCCGAGCCTGTACGTGCGCAAGCAGCGGGCGCTGGAGGCCGAG
CTGGACGCACGGCACCTCGCGCAGGCGCTGGAGCACCTGGAGAAGCAGGGCCCCGCGGCAGCCGAGGCCGCCACT
AAGAAGCCGCTGCCGCCCTGCGACACCTGGACGGCCTGGCCCAAGACTATGCTTCCGATTTCGGGCTGCTTTGAC
GACGACGATGCACCGTCATCCCTGGCTGCGGCCGCGGCCACCGGGGAGCCAGCCAGCCCTGCCGCGCTGTCCCTC
TTCCTGGGCAGCCCCCTTCCTGCAGGGGCAGGCGCTGGCTCGCACCCCGCCACCCGCGAGGCGGCAAGGAGGCA
GAGAAGGACACCAGTGGGGAGGCAGCCGTGGCGGCCAAGGCCAAGCTGGCGCTTGAGTGGCGCGCATC
GACCAGCTGGTGGAGGACATCTCCGCCCTGCACACCTCGTCCGACGATAGCTTCAGCCTCAGCTCTGGAGACCCG
GGACAGGAGGCGCCACGGGAGGGCCGCGCCAGTCTGCTCGCCATGCCGCGGCCCGGAGGGCGGGCGCGGAGAG
GCAGGAAGCCGGGCGCACCCGCTGCTGCGGCTCAAGGCGGCCACGCCAGCCTCTCCAACGACAGCCTCAACAGC
GGCAGTGCCAGCGACGGGTACTGCCCACGCGAACATATGCTGCCCTGCCGCTGGCCGCACTGGCTTCGCGCCGC
GAGGACCCCAAGTGTGGGCAGCCTCGGCCAGCCGGCTTGACCTTGACCTGCCCGGCTGCCAGGCCGAGCCCCG
GCCCGCGAGGCCACCTCCGCCGACGCCCGCGTGCACACCATCAAGCTGTGCGCTACCTATCAGCACGTGCCACTG
CTTGAGGGTGCCTCAAGGCGGGTGCAGAGCCCCCTCGCGGGGCTTGAATCTCTCCAGGGGGCCGGAAGCAGGCC
TGGCTGCCGGCAGACCACCTGAGCAAGGTTCCCGAGAAGCTGGCGGCTGCCCGCTGTCTGTGGCCAGCAAGGCA
CTGCAGAACTGGCGGCGCAAGAGGGGCCACTCTCGCTGTCCCGATGCAGCTCCCTTTCTCGCTGTCTCTCGGCC
GGCCGCCCAGGCCCCAGCGAGGGTGGTGACCTGGATGACAGTGACTCCTCCCTGGAGGGGCTGGAGGAGGCCGGC
CCCAGCGAGGCTGAGCTGGACAGCACGTGGCGGGCGCCCGGGGCCACCTCGCTGCCCGTAGCCATTCCGGCTCCC
CGGCGTAACCGAGGCCGGGGCTGGGGGTGGAAGACGCCACGCCGTCCAGCTCGTCGGAGAACTACGTGCAGGAG
ACACCGCTTGTGCTGAGCCGCTGCAGCTCTGTGAGCTCGTGGGCAGCTTCGAGAGCCCGTCCATCGCCAGCTCC
ATCCCCAGTGAACCTTGACGCGGGCAGGGCAGCGGCACCATCAGCCCTAGCGAGCTGCCCGACAGCCCCGGACAG
ACCATGCCTCCCAGCCGGAGCAAGACGCCACCGCTGGCGCCCGCGCCACAGGGTCCCCCGAGGCCACCCAGTTC
AGCCTGCAGTGGGAGAGCTACGTGAAGCGCTTCTTGACATCGCCGACTGCCGGGAGCGCTGCCGGCTGCCATCT
GAGCTGGACGCAGGCAGCGTGCGCTTTACCGTGGAGAAGCCAGACGAGAACTTCTCGTGCGCCTCCAGCCTCAGC
GCGCTGGCCTTGACAGGACTACGTGCAGCAGGACGTGGAGCTGCGGCTGCTGCCCTCGGCCTGCCCGAGCGC
GGCGGGGGCGCCGGGGGCGCCGGCCTCCACTTTGCAGGGCACCGGCGGGGAGGAGGGGGCGGCGCCACGGGT
TCTCGCCCTCGCGGCGCCGCGGACAGGAGCTGGAATGCTGCGGGAGTGCTGGGAGCCGCGGTGCTGCCCG
CTGCGCAAGGTGGCTCCGCGCTGGTGCCAGGTGCGCGCGCACTCCCGTGCCCGTCTACATGTTGGTGCCCGC
CCGGCCCCGGCCAGGAGGACGACTCCTGCACTGACTCCGCGGAGGGCACGCCGCTCAACTTCTCTAGCGCCGC
TCGCTCAGCGACGAGACGCTGCAGGGACCCCCCAGGGACAGCCCGGGGACCAGCGGGCAGGCAAGACCCACC
GGCCGCCCCACCTCTGCCAGACAGGCCATGGGGCACCGGCACAAGGCGGGAGGCGCCGCGCCGAGCGCCCCGAGACAAG
TCTCGGGGCGCGGGCAAGAACAGAGCAGGGCTGGAGCTGCCCTGGGCGGCCCCCGAGCGCCCCCGAGACAAG
GACGGCTCAAAGCCCGGCGGACCCGCGGGGACGGGCGCTCCAGTCGCTGTGCTCAGCAGCCCCACTGAGGAG
GCACAGCTGCCCCGCGCCCGCCCGGACCCAGCCCCAGCCTCATTGCTGACGAGACCCCGCCCTGCTACTCCCTG
AGTCTCTCCGCGAGCTCCCTCAGCGAGCCCCAGCCCTCGGAGCCGCGCGCCGTCCATCCACGAGGCCGGGAGCCC
GCGGTACCAAGGACCCGGGCCAGGAGCGGACCGGACAGCTCGCCAGCCCGCGGGCCGCGGAGGAGCTTCTG
CAGCGGTGCATCAGCTCGGCCCTGCCAGGCGCCGGCCCCCGTGTCTGGCTGCGGCGCCGCAAGCCCCGAGCC
ACCCGCTGGATGAGCGGCCCGCAGAGGGGTCCCGGGAACCGGCGAGGAGGCGAGGGCTCGGACCGGGCCTCC
GACCTGGATAGCGTGGAGTGGCGCGCCATCCAGGAGGGCGCCAATTCAATTGTCACGTGGCTGCACCAGGCAGCA
GCTGCCACGCGGGAGGCTCGTCCGAGTCCGACTCCATCCTGTCTTCTGATCCGGGCTGTGAGTGGATCCACC
CTACAGCCCCCAAGCACAGGAAGGGACGACAGGCGGAGGGAGAAATGGGCAGTGCCCGGCGGCCAGAGAAAAGG
GGCGCAGCCTCAGTCAAGACCAGCGGGAGCCCCCGTTCCTGTCAGGCCCCGAGAAGCCACGTGGCACACAGAAG
ACCACGCCCCGGGTGCCAGCTGTGCTCCGGGGACGAACAGTGATCTACGTCCCCAGCCCGGACCCCGTGGCCAG
CCCAAAGGGACCCCCGGCCCCCGCGCCACACCGCGGAAGGTGGCGCCCCCTTGCTGGCACAGCCCGCGCTCCA

4105/5332
FIGURE 3574C

GCCAAAGTCCCGAGCCCCGGGCAGCAGCGGTGCGGGAGCCTACACGGGCTGCCAAGACCTCGGAGCTGGCGACG
CTGAGCCAGCCCCCAGAAGCGCCACACCGCCCGCCGCTCGCCAAGACCCCTCCTCCAGCTCCTCCAGACC
TCGCCCCGCTCCCAGCCCTGCCAGAAAGCGCCCCCGGTACCCAGGCTGCTGGGGCCCTGCCCGCCCCGGA
GCCTCCCCGGTGGCCAAAACGCCGCGCGCACCCCTTCTGGCGAAGCAGCACAAAGACGCAGAGATCGCCCGTGGG
ATCCCGTTTCATGCAGAGGCCGGCCCCGGGTGGGCCGCCACCGCTGGCTCGGGCAGTCCCGGAGCCGGGCCCCAGG
GGCCGGGCGGGGACCGAGGCGGGCCCCGGGGCGCGCGGGGGCCGCTGGGCCTGGTGCCTGTGGCCTCAGCCCTC
TCCAGCGGCAGCGAGTCTCCGACCGCTCGGGCTTCGGCGACAGCTAACCTTCATCAAGGAGTGGCCGGGCTTG
CGGCGCCGCCGCTCCGAGCTGTCTCGGCCGAGTCCGCGGCTCTGCCCCCAGGGCGCTCGCCCCGCCGCGGC
CGGCCCCGCTGCCCGCCGTCTTCTCTGCTCCTCGCGCTGCGAAGAGCTCCGAGCGGCACCCGGCAGGGCCCCG
GCCCCGGCCCCGGCAGCGGCCCGCCGCGCCGACCCAGCCCTGGCGAGCGCCCTGCCCGCGCACCACTCCGAG
AGCCCGTCCCGCCTGCCTGTGCGCGCGCCCGCCGCGCCGCGGAGACTGTCAAGCGCTACGCGTGCCTGCCGCAC
ATCAGCGTGGCCCCGAGGCCCGACGGCGCCGTCCCGCGCGCCCTGCCTCAGCCGACCGCGCGCGCCGACGAGC
GACGGGGAGCCCCGGCCGCTCCCCAGGGTGGCCGCGCGCGGCACGACCTGGCGGCGCATCCGAGATGAGGACGTG
CCCCACATCCTGCGCAGCACGCTTCCCGCCACGGCCCTGCCACTGCGGGGCTCCACGCCCGAGGACGCCCCGGCC
GGGCCCCCGCGCGCAAGACCAGCGACGCCGTGGTCCAGACCGAGGAGTCCGCGCCCCCAAGACCAACTCCAGC
ACGTCCCCGAGCCTGGAGACCAGGGAGCCCCCGGGGCCCCCGCGCGGCGGAGCTCTCCCTCCTCGGCAGCGAC
GTGGACGGTCCAGCCTCGCCAAGGCTCCCATCTCCGCACCCCTTCGTGCACGAGGGCCTGGGGGTCGCCGTGGGG
GGCTTCCCCGCCAGCGGCGACGGCTCCCCAGCCGCTCGGCCGAGTACCCCCCTTCAACTATGTGCCAGCCCC
ATGGTGGTGCAGCCACCACCGACTCGGCCGCGGAGAAAGCCCCGGCCACTGCCTCCGCCACCCCTCCTGGAATAG

TGGCCTAGGCCGGCCTTCTGGAACGTTCTCTCCCGGCCCTGCGGCGCGGTCTGGCTGCCCATGGGCCTGCGCTG
TAGACGTCCCCCATAGGTGCCCCAGGGCCTCTGCCACCCGAGCCCCACCACTCTCAGAACCCCCGCCAGCGC
ACGGCGACCTCGCGCTCACCAGAAAGACCTTGCTCTGTGCCGCGGAGGTCCAGGAGGAAACGGGGCGGCCGCTA
GGCTCAAGTCCCGACCGTGGAGCGCTGGCAAGGGCGTCTGGCCAGCCCTGAGCGCGCGGCCCTTCCCTGTG
GGAAGCGTTGCTTGACCCCGGGCGAGGGAGGCGGTAGCCTCCGGGTCCGGGTCTGGGTCTGGGTCCGCTGCTT
GCAGGGACAGCGCTGGGGAGGTGACGGCGCCCGCCGAGGTGGGGCGAGGCTGGGGGAGGGCGGCGCCGCGCGG
GCCTGCCAGTCTGGGGGCTTTGCGGCGCGCAGGGGCGAAGCCTGTAATCACTGCAGCCCGCGGTAATTCGCTAAT
GAGGGCTTTGCAAGGATTGTTTTATTCTCAGCCCGAGCTGTGGGAGTGCGGGTGGGGGTGTGGCCGAGCCCCGG
CAGGAAGCCCCCGCCAGAGCTGTTTCAGGGAACCCGAGCCCAAGCGCTCCGGCGGAGCCAAAAGGGTGGGGGT
GGGAGGGGCGAGGGCAACGGATCCCCCTGCCTGTGCGCACCCCTTGCGGGGAGACGGGAAGGACGCGGCTGCGT
ACGATGGGACCTTGGTGCAGACGCGGGCGGCTGACATTGGACCCCATCCCAGAGGAGATGCTGGCTACCAGC
TGGGGCGACCCCAAGGGTTCGCTGGAGTCAGTATCGGCCCGGCGCAGCCGCGGCGGGCGAGGCCAATGGAAAGGAG
ACTGAGGGGAGTCCCGGCAGTGAGCCCGAGGCCCTGGGACCTGGAGCCCGCGCTGGCCTCTCCCGAGCGGACCT
GCACGTTACGGAGACCATCACATGTGGGCGTGGTCAGTGCCAGGACCGCACCGCTGCTCATCTTGTCCCTTTTC
AATTCCCTTCTGGTTTCATGATGCATAAAGCGCTAGGCCCTAGAACTCCAGAAACAGCACAGCTGGGGCGGGGACC
CAGCCTTGCCCTCCACCCGAGGCTCTGGGACAAGGCGGGAGGTTTCGGGGGCTTCCGGCAGGTGAACGCAGGGCT
GGAGAGTATTTGGTGCCAGATGAGGTGAAAGCTTATAGAAGGGCCTGAGGGGCTCGGCTGCCTCATCCCCTGCG
GGGGAGGCTGGGAGCTGGGCCTCTGCGTGGGGTGGGACTCGCAGGGGCGGGTCTCCGTGACTGGGGCAACGCC
TCGTCTGCAGAGGGAGCCGACGACCTCTTTTCTGCAGAAAAGCTCCAGCAGCGCTGCCTTACCCACGGATCT
GCCCAGGCTGAAGGCACACGCTCAATGCCCCACGTGCCTTCTCCAGGAGGAACGAAGCAGGGTTTGAGGGTTGGG
TGGATGGAGCTCAGAAGGAAACCCAGCCCCACCAGGATGACACCATCCCTCCCGTCCCATCCCCAGCATGGGC
AAGGCCAGCCTTTCTGGCAGAAGGAGCTGTCTCAACTCAGGGCCGCTGTGAGCAAAGCTGACCCAGCCCCAC
CCCCAGTTAACTGCTGCTTCTCTGAATGCATGTACGCTGCACCCCATGCTCCGGGCCACACCCCTGCAGGAC
AAGGAGCTCCAGACAGGACGTCCATAAGTCACCGAGGTGTGCCACCCAGCAGGTGCTGGAGGTGCCAATGCTCC
CTCCTAGGACCTCGCAGCCAGGCAAGGCTGTGAGGTTGTTTTGGGGGAAGAGGGGGTTCATGGATGGCTGAGCAGA
GAGCGGGGAAAATGCAGGCTGAGTGGGGCGACCTCCTGCCTGCCAGGAGCCCCCTTTAGGACACAGCGGGGCTC
TCACACTGCTGTCCCCATCCATGGCCCCAGGGGGAACCTGGTGGTCTTCTGAGCTTTTGGACTGGGGATGC
CAAACAGTGCTCACCTCACACTCGCCCCGGCCCGCTGCGCCCTAATTGCCAAAGGTAGGGAAATGGCGAAG
CCAGCCACCAGGTGCTGGTGACAGGGCCAGGGTTATGCAGGAAGGTGGTGCGGCATTGCCTTCCACATATGTAA

4106/5332
FIGURE 3574D

GTCTCTGGGCGGCGCCCTCCCAGCTCCCTGCCTCTGTTTCCCCATGTGGGCGGTGGGGAACCTCCCAGAGCTACCT
CTTGGGGGAGCGTGGTGGCAGCGATGATGGGGAGACGCCTGGAAGCTCACAGAACTTGGGTCTGGCTGGCTCCTG
CCCGTGACGCCTTGCCAGCAGCAAGGTGCGCAACATGGCTGCCAGCCCCGCCTCCCACCCCCACCCGAGTCCT
GAGCTCACTTTTCGCCTTCTCCATCCCCTGCCGTGGGGGGCCACAGCCACACCTCACCGCCCAGTCCAGCTGTCTCC
AGAAGGGGACAGGCAGTCCGCGGTCTCTGGACAATCAACTCAAGGTACGCCCCTGCAAGGCCTCCCTCCCACCG
CGCCCCCTGCCTGGCCACCTGGCCTCTCTGCACCAGGGTGACAAGGGGTCTCTGCTCTGCCCCCAATGCTCCAGG
GCCAGTCCTAAGGAGCTGAGGGTCTGAGGACGCGAGGGAGGGTGGAGGTGTCTGAGGCTGATGGACAGTGACCGC
CACTGGCCCCCAACATGACCACACGTGGGTGCTGAACTCGGGGCGCCGTGCCACCGGCATGGTCCTCCCGAGCT
CCGACAGCATTACCTCACCCGGCCCCATCTGTTGCCCCGGTCCAGCCCTGATGGCGCGCGCCTGGTCTGTCTGAT
TCCCCTAGCCGCCACCCACGTTTCTGTACCGGGTCTCTGCAGTGTTAAACGGACGTGTAAATAGTGGTAAATAG
TGAAAGCCTGTCTTCCCTAAATGTAAAGCCATCTGTCCGGCGTAAGGACGACACCGTCAGCTGTCCGACTCGCA
CACATTTAATAAACTGAGCTCTTGC

4107/5332
FIGURE 3575

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCACGCCCCTGGGAACCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAACCCCGTCTCTGCTAAAAATGAAAAACAAAAC

4109/5332
FIGURE 3577

GCGGGCCGAGGAGCCGGGCGCAATGGAGCGGAAGAGGTGGGAGTGCCCGGCGCTCCCGCAGGGCTGGGAGAGGGA
AGAAGTGCCAGAAAGGTCGGGGCTGTGCGCCGGCCACAGGGATGTCTTTTACTATAGCCCGAGCGGGAAGAAGTT
CCCGAGCAAGCCGAGCTGGCGCGCTACCTGGGCGGCTCCATGGACCTGAGCACCTTCGACTTCCGCACGGGCAA
GATGCTGATGAGCAAGATGAACAAGAGCCGCCAGCGCGTGCGCTACGACTCCTCCAACCAGGTCAAGGGCAAGCC
CGACCTGAACACGGCGCTGCCCCGTGCGCCAGACGGCGTCCATCTTCAAGCAGCCGGTGACCAAGATTACCAACCA
CCCCAGCAACAAGGTCAAGAGCGACCCGAGAAAGGCGGTGGACCAGCCGCGCCAGCTCTTCTGGGAGAAGAAGCT
GAGCGGCCTGAACGCCTTCGACATTGCTGAGGAGCTGGTCAAGACCATGGACCTCCCCAAGGGCCTGCAGGGGGT
GGGACCTGGCTGCACGGATGAGACGCTGCTGTGCGCCATCGCCAGCGCCCTGCACACTAGCACCATGCCCATCAC
GGGACAGCTCTCGGCCGCGGTGGAGAAGAACCCCGGCGTATGGCTCAACACCACGCAGCCCCCTGTGCAAAGCCTT
CATGGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGCAGCAGGTGCGGAAGCGGCTGGAGGAGGCGCT
GATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCGTGACGGGGAGGCGCCGCTGGACAAGGCCTGCGCTGA
GGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGGAGCCGACCCGGACCCGGAGATGGAGCACGTCTAGGG
CAGGTGCTGCGGGGCCACGGGGCTCCCTGGAGTCGGGTCTGGCAGTGGGGACTGCCTGGTGAACACAGATGTG
CTTGGGATGACGGGTGCCTCCCAAGAGCTTCCCATCTCCCTAGAAGAGCCCAAGCGTCCCCGTCCCGTGGAGTCG
CTAAAGCCAGCCCTCCCTGTCTTTCAGAGGCCCTGCGGAGAGCCCGTGCTGCCTGCTGGAGCCGCCTGCAGAC
GCGGTCTCTGCGCCACGTGAACCAGGCTCGGCGGCGAAGCCAGCCTTGGAGACACCCAGGAGGAAGGCCGTGC
TCCTGGCTCCCTCCTCGGCCGCTCCCACTTCCCGGGGCTCGGGGCACACAGCTGGGGCTGCCCCACCCGAAA
GACCTCCACGCTCGTCTCTACAGAGTCCGGCTTCGGGAAGTGCCGGGTGCTCCTGGGCCCTGCCTGGCTCCCT
ACGACCTTTGGGCTCGAGGCCAGCTCCTCCCCATGCCCCTGTGCCAGCTCCTTGAGACTGGAGAGCAGCCAGCA
GGTGCCCGGCGAGCTCGGCGCCACGGCTTGCTGACAGCTGGGAGGGTTTTCTCGGTCTGGAGGCGTAGTTTTGAAAC
TCACATCACCCACTGTGCAGCGTGAGGACGGGACTCTGGTCTGCTGTGGGGGGCATGCAGGACGGCGCCACTCTC
TGCCCTGCCATGCGGCTGGTGGTGCCACAGAGCCTCACCGTGCTGAGTGGCATGCCAGGAGGCCGCTCTCCTT
CAGTAAATGTAACACAGTCGAGGCACGTTCATCGGGCAGCCTTCCCTGTGTGCCAAGCCAGCCTTCGCTTCTGAA
AACCAAACTCCAGCCGCTGCCAGTCGGGACTTGGTGCCTCGGCGGCGCTGCCAGAAATGCTCCACTGCCAGCCGGCCCC
CCTGCCTCGGTTTTCCCTTCTGTTTGTGGCGACACAGGCACCCAGCTTTGGGGTGGTGTGACGCTCCCAGGGGT
GCCAGGAGCCACTGGGACAGGGTGAGGCTCCCAGACGCTCCTCGAGGTGCCAGCTCTCCAGGGAGCTTCTGGCC
CAAGGCCGCTCTGAGGGATCTGCTCCTTAACCCCCAGTGCTTGGCGAGGGCAGGTTCAGGCCACAGACGCCTG
CCCCGAGTGGAATCTGCGGCCAGTCCCTGGTGCCCTCCTGGCCCTGCTGCCAGTGAGGGCTCCTACGGGTGGGT
TCATTGGCCTGGGCCCAGCGAGCCCCACCTGCATTGACCTTAGGCCCATAGAGAGGGCCTGTCCCGGTGCTGCC
CCAGCCAGGATCTGGTGCCTGCCCCAGGGGGACTGATGGGCAGAGTCGCCCCTGTGGCTGGACTGTGACCATCCC
TGATGGGGCCTGACCGCGGGAGCTGAGGAAGCGCCGCTCCACCGTCTGCCCTCCAAGGACCCGCATGGAGGCAGT
GGGCTGGCAGCTTCTGTGCTGCCCTGTGAGAGTCAAAGCACAAATCCTCAGGACGGGCTCAAGGGCCAGGGCAG
CCGAGGGAAGCTCCAGGTGGGGACCAGTCTTCTGAGGTGGTGCCCACTGGCTGGGACCTTTGCAGTGGGGT
GGCCTCCCTCTGTCTGCCTGGTGGAGGGAGCCGTGGGCGTGAGGACGTGACTGAATAAAGCCACCATGGGTGGA
TGTGCTTGG

4110/5332
FIGURE 3578

AGTGTAGCCGGGTCAGCTGGACAGGGTCATCCTGAGGGTGCGACTCCGCCGCGATGGTGACCCGGTTCTGGGCC
CACGCTACCGGGAGCTGGTCAAGAAGTGGGTCCCGACGGCCTACACATGGGGCGCTGTGGGCGCCGTGGGGCTGG
TGTGGGCCACCGATTGGCGGCTGATCCTGGACTGGGTACCTTACATCAATGGCAAGTTTAAGAAGGATAATTAAT
TACACAAACCCCTTCACAGACTGCTCTGGTGCTGGTGGTGCTAGCTCCTCCACCTCAGCACCTGCTGCATCTGG
AGCAGCCCAAGCCTCAGGATGGACAAGAGGAAACCCACAGCTCAGCTTCAGGCTTCTTATGTTTCTGAAAACAGC
TTGGATATTTTAATGCACGTTGCATTAAACCTCACTGAAACCTGCTCCGTGCCCGGATGTTGATCATGCTGGTGG
CTTGGTTACTGTGACTGTAGCTGGAGTGGCACAGGTGACCCAGGCGTCCTTTCAGCTCCAGAATGTTGCAAGTCT
AGGAGAGTGTTCGAATGGCTGACAGAACTGCCTATTTGAAATGGCTCATAAGTAGTATCTGCAGTGTGTTTCATC
CGTTGCTGCCTTAACAAGTCACCCACACGTAGTGGCTTAAAGCAACGAACATTCACCTCTCTCACAGTCTGTGTCA
GTCGGGGATTTGGGAGTGATGTATCTGGGTGGTTGTGGCCAGAGTCTCTCATGAGGTTGCAGTTAAGACATCAG
CCAAGGCCACTTCGTCTGAGGAAGGCTCAACTGGGGCTGGAGCCACTTCCAAGCCAGTGCCCTCACGTGGCTGTC
GGTGACAGCCACAGTTCCTTCCCATGGGGGCCCTACACGAAGCTGCTTGAGCATCCTCACGGCATGGCCTCTGC
CTTCCCCAGAGCAGGTGAACCAAGGGAGAGGAAGGAGCAAGCCACAGTGCTTCTATGAGCCACCCTGAGAAGTCT
CACGTGATCACTTCCGCCACAGCCTGTTTATCAAAAGCAAGCCCCCAGGCCACGCCACGTGCAGAGGGAGGAG
AATGAGGTTCTGTGTTTTGAAGGGAAGAATATCAGAATTGGTAGACATTTCAAAGTGTACATTAGGGATACAAA
AATGAACAGGCTGGGAGTGGTGGCTCAGCCTACAATCCCAACACTTTGGGAGGCTGAGGAAGGGGCATCACTTGA
ACCAGGAGTTCAGTACTAACCTGGGCAACAAAGAGGCCCTGTCTCTGATAAAAAGAAAAAATGAAAAATAA
AAATGAACAGGTATAAAAAG

4111/5332
FIGURE 3579A

GCCTGAGGTGCCCCCCTGGCCCCAGGAGAAATGAACAGCCGAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGGCCCGCTCCCTG
GCCGGGGCGCAGTTTCGGAGGTTTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCTGACTCAGGCTGGCTTCTGTGAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCCTGTCCCCT
TCGGGCATGAAGGGGACCTCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGCCCCATGCTG
GGTGGGGGCTCATCCCCGCTGCCCTCCCGCCCGGTAGCGCCCCGGTGGGCAGCAGTGGAAGCAGCAGCAGCTTT
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA
TCCTCCTTCTCCTCAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCTGTGAGCGGGGCGGAC
AGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCGTGGGCTCCCCCAGGGCCTGGCAGGA
ACGTACAGTGGCCTCGAGCAGGAGCCCCGGTGCTTATCGCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCACGTCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCTGGCCACGGGGCGTGGCCTCAGGTTTACCCGGCCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC
CCCAGCCAGCCAGGCACCTCCTGACCTGTCTCGGCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCGGGCCCGGACCAGCCAGACGAGGACGAGGACGACCTTCTCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAACCTGCTC
ATCCTGCACCAAGGCTGTCTCGGTCTGCTGAACCTTGGAGCAGCAAGTGCGAGAGCGGAACCTGAATCCCAAGCA
GCCTGTTTGAACGGCGAGAAGAGGAAAAGGTGTGAGGTGTGGTGGAGACCCCCAGATGGTGCTTTTACGTCCC
CACCCAGGCCTGAGCGAAGCCACAACCCCGCCGGGCACATGTGAAGGTATGCCTCCGTGGGACGAGCCACCCG
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC
CTGTTGTGACATCGAGCCAACACCAACCTGACAAGGTTTCGGAGTGATGGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCTGGGCTGACAGGAGCATTTTTTTTT
TTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTGTGAGAGAAGAAAAAATGCCTTAACATAT
AAAAAGCGGAGAAATGGAACATATCACTCAAGGGGATGCTGTGGAACCTGGCTTATTCTTCTAAAGCCACCA
GCAAAATTGTGCCTAAGCGAAATATTTTTTTTAAAGGAAAATAAAAACATTAGTTACAAGATTTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTAAAGCTTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTCTCTAGACTGAGCATTGCATTTC
TTGATCAACCAGATGATTAAACGTTGTATTAATAAAGACCCCGTGTAACCTGAGCCCCCGTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGTCTTTTGTTTTTTTGATGTTGGGGGTTCTCTT
GGTTTTGTGATGTGGAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTGAGCAAGGTGGCTCTGACCCTCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTCTGAAATGGGGCATTITGTTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGTGTGTTGGGACCTCCTGGACACCCTGTCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAAC
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCACCCACCCACCATGTCCCCATTACACCA
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCTGGCCAGCCTCCCCCAATGCTGGGGAGCATCCCTGGGCC
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC
TGAGCCCCACGAAGGCTTGGGCTGTGCGTCCGACCCTGCTGCAGAACAGCAGGGTGTCCCCTCGGGCCCATCT
GTGTCCCATGTCCCAGCACCCAGGCCTCTCTCAGGTCTCCTTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

4112/5332
FIGURE 3579B

TTCGCAGCTGGCTGGGGACTGTCCTGGGTTTAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCAACCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCC
GTGCCACTCTGAGACTCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCTCCCCAGACTGGCTTG
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACCTGCCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACCTGTGCGTTCTGCATAGAATTCAAACGAGATTACCCAGCGCGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

4113/5332
FIGURE 3580A

[illegible]

4114/5332
FIGURE 3580B

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCAATGCACCTGGTGATCTGGAAGGTTGAGAAGACGCCAAGACCAAGCGATGAC
GCCTGCCCCGCTCCACCCGCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCAGAGCAGCGGGATGAGCTGGCGGGCCAGAGAACGCCC
AGCCCAGCCCACCCCGCTCACGTCTGCCGCACCCCTCCGCCGGTCCCCACCCTCTGCECCCCAGCCCTCTGGC
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCACCCGGCCCGCAGCCCTCCTGCCCCCTC
CTGCCAGGCCCTCCCTCCCGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTGCGGGGGCGGGCTGTCCCAG
GTTTGTGTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTAAATTTAAACCTGATGACTTGCAC
AGCATCTTTCCACCGGAAGAGCGGGCCTGCTGCCCTCCCTCCTGCGGGGTGGGGTGGGACAGACCCAGTGG
GGGCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCACTCCGTGACCTCTGAGAACCAGCTGGCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCTCTCTGCG
GGGCTCTCCGGACCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

4115/5332
FIGURE 3581

ATGTCGGCGGCCGTGGCGTGCGTGGATTACTTCGCCGCCGACGTGCTCATGGCCATCTCTTCGGGCGCCGTGGTG
CACCGCGGGCGGCCCGGCCCGAGGGCGCGGGCCCCGCCGCCGGCCTGGATGTGCGCGCGGCGCGCCGCGAGGCC
GCCTCACCCCGGGACCCCGGGGCCACCCCGCCGCCCGCCGCCGCTTCTGGCCCGGGCCCCGGCGCCGCCGCGGC
GCCCCACCTGCTGGCCGCCAGCATCCTGGCCGACCTGCGCGGCGGACCCGGAGCCGCCCGGGGGGCGCCTCGCC
CGCCTCCTCCTCCTCAGCCGCCTCGTCCCCGTCTCGGGCCGCGCCCCCGCGCCGCGCCCTCCGCCGCCGCCAA
GAGCCACCGCTGTCCCTTCCCGGACTGCGCCAAAGCCTACTACAAGTCCTCGCACCTAAAGTCGCACCTGCGGAC
GCACACAGGGGAACGCCCTTTTGCTTGTGACTGGCAGGGCTGCGACAAGAAGTTCGCCCCGCTCCGACGAGCTGGC
CCGCCACCACCGGACGCACACGGGCGAGAAGCGCTTCTCCTGCCCTCTGTGCTCCAAGCGCTTCACCCGAGTGA
CCACCTGGCCAAGCACGCCCCGCCGCCACCCGGCTTCCACCCGGACCTGCTCCGGCGCCCTGGTGCCCGCAGTAC
CTCCCCCAGCGACTCGCTGCCCTGCAGCCTGGCCGGGAGCCCTGCGCCCAGCCCCGCGCCCAGCCCAGCCCCCGC
AGGCCTGTAGGGCCCTCGTGCAGCCCACCCTGACCGCCAGGATGCTTCTGCCATCCAGGGGTGTAGTGAGGACCC
ACGGGGAGCCTGGGCCCCCTCCAGCCGTGGGCAAACCCTGAAGACACCCCTGCCCCCTCCAGAGAGTGAGGAGG
GGGCTGAGACTGGACCTGGGTCTGCCTGACCTCAGAGTGTCAGGGGCTTGAGAGACCTGCGCCCACCCCTCC
ACTCTCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTGTG
CTTTCCGTGGGTGGCGCCCCCTCCCCGCCCTGCCTGGCCTCATCCTTGATTATAATTAATAAACAAGCCCCTTT
TTAAACCCT

4116/5332
FIGURE 3582

GGCTGCTGTCTGGGGCGGTAGCTGGGGGGCGCTCTCCCCCTGCCCGGACTCGGAGCACCCCCACCCCTCCCC
TGCCGGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGAGGCCCGGCCTGGGCGGGCGCCGCCATGAAT
GGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCCCCGGCCGCATCGCTGCCAAGCTCGCC
TTCCTGCCGCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGGGGCCTGGTGGGGCCGGGGCCGCCCCC
TTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACTGACGGAGCGTGCCGACTTCCAG
TACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCTGCATG
TATGTTGCTGCGTGCTGGTGCCAGGTACACGGTCTCTTCTCGCACGGCAATGCCGTGGACCTGGGCCAGATG
AGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTACGGTGCC
AGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACCAGGTAC
GGCATCAGCCCGGACAGCATCATCTGTACGGGCAGAGCATCGGCACGGTGCCCCACCGTGGACCTGGCCTCGCGC
TACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCATGCGCGTCGCCTTCCCCGACACCAAGAAG
ACCTACTGCTTCGACGCCTTCCCTAAGTCGAGCGGGCCGGGCGGGGACGGGGGCGGGGCGGGGCCGGGCCGGGCG
CGAAGTCTCACC GGCTCCACGACCCTCCCGCAGCATCGAGAAGGTGTCCAAGATCACGTCTCCCGTGCTCATCAT
CCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACGAGCGCTGCCCCAAGGCGGTGGA
GCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTT
CATCTCCAGGAGCTGCCCAGCCAGCGCGCCTAGCGGCGGGCCCAACCGGCCGGACCTCAGCAATAAGGCGGCC
CCGGACCTCACCCGCGCCGGCCCCCACCAGGGGCTGCATGTGGACCCCCGGGCGGGCCAGGGGACCCCGCCC
CGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACTCCTTTCTTTTGAAGCAAGAAGAAAATA
CGTGAACCGGAAATTAAAGATTTAAATTTT

4117/5332
FIGURE 3583

AGACTTGGCGAAGCGCTGCGCTCGCGCCCGGATCCCTCAGGCGGGCTGCAGGCTTCAGCCTGCGCTGGTTGGTGAA
ACAGAGATGTCAGAAAAGGAGAACAACCTTCCCGCCACTGCCCAAGTTCATCCCTGTGAAGCCCTGCTTCTACCAG
AACTTCTCCGACGAGATCCAGTGGAGCACCAGGTCTGGTGAAGAGGATCTACCGGCTGTGGATGTTTTACTGC
GCCACCCTCGGCGTCAACCTCATTGCCTGCCTGGCCTGGTGGATCGGCCGAGGCTCGGGGACCAACTTCGGCCTG
GCCTTCGTGTGGCTGCTCCTGTTACGCCTTGCGGCTACGTGTGCTGGTTCCGGCCTGTCTACAAGGCCTTCCGA
GCCGACAGCTCCTTTAATTTTCATGGCGTTTTTCTTCATCTTCGGAGCCAGTTTGTCTGACCGTCATCCAGGCG
ATTGGCTTCTCCGGCTGGGGCGGTGCGGCTGGCTGTGCGCAATTGGATTCTTCCAGTACAGCCCGGGCGCTGCC
GTGGTCATGCTGCTTCCAGCCATCATGTTCTCCGTGTGCGCTGCCATGATGGCCATCGCGATCATGAAGGTGCAC
AGGATCTACCGAGGGGCTGGCGGAAGCTTCCAGAAGGCACAGACGGAGTGGAAACACGGGCACCTTGGCGGAACCCA
CCGTCGAGGGAGGCCCAGTACAACAACCTTCTCAGGCAACAGCCTGCCCGAGTACCCCACTGTGCCCAGCTACCCG
GGCAGTGGCCAGTGGCCTTAGAGGGAGCCTGCCCTGCCCCACCGCCACACCTCCTCCCCTTTCATTCTGCTG
CTACCCCTGGTCCCGAGGGCTGGGAGTACCTGGGGCCCCATCCCCCAGCTGGGATGGTGGAAAGCCGGTGGTGGC
CATCCAGCGCCCCCTCCTGCCAGGGCCACAGAACCCGTGTTTCATCTCATCCGAGAGCGGAGTTTCTCACAAGCA
CTCCCCAGCAGCCCTTGGCCTCTGCCGTCCACAGGACGCCCTCTTGCTCCCGGAAACGTGTGGTCACCCGCCGT
CACTGCACGGCTGGTACGGCCTTGTCTTCAGGTCTCGAGGCCTGACTCCGGGGGACAGGTGGCAGCAGGTGGGCC
GCCCTCCCGTCCCTCCAGAGCTGCTGGCGCTGAGGTGAGAGCGGGTCTGATGGGGAGCTCCGTCTACCGGCCAC
CCGCCGTACCATGGCAGATGCCCTTGGCCGGAATAATAAGAGGCGTCCGGGGCCAGCTTCCGGTCCCTGCGAGT
GATAGAGGGCTTGGTGCCTAGCTGAGTCTCGCTGTCCCGCCATCCCCTGATCTGTGCGGCTCCAGCCTCGCCC
CCTCCCCACGTGCACCATACTGGGGAGTTCTGGTCCAGGGTATCCTGGGGCCACCCTCCTGCCTCCAAAACA
GGGATCCCTGGCAGGCTGTCTTTCCACGCCCTGAGTTCAGAGTCGGGGACCCAGGCCAGGTGGGGAGCACAGCC
GCTCCCCAAACCCAGCAAACCGGCAGAGAGCGGTTTCCCAGCAGCCGAGCCCTGCAGGAGAGGCCTTTGTGTT
TTGTTTTGTTTTGTTTTTCTCTTTGAGACAAGAGTTTCACTCTGTGCCCAGGCTGGAGTGCAGTGGTGTGAT
CTCGGCTCACTGCAACCTCTGCCTCCCGTGTTCAGCAGTTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTAC
AGTTGCCTGCCACCACGCCAGCTAATTTTATATTTTAGTACAGATGGGGTTTACCATGTTGGCCAGGCTGG
TCTCGAACTCCTGACCTCAAGTGATCCACCGCCTTGGCCTCCCAAAGTGCTGGGATAATAGGTGTCAGCCACCG
CGCCAGCCTGGAGTGGCCTTTTATGAGAGGGGACCCGTCAAATCTGTGCCTTATGGAGGGGTCCGGCAGCGGCC
ACAATTGTCTTGTCCCTCACCCCCAACTCCCCCTGGAACACCTCTCCAGGCAAGACATTTTCACAGCACCAT
TCACAACGGTTGGGCCAAAAGAACTTTTCTTCATCATTTTCTGCACTCGCTGACCACAACCTTTGGACACCCC
AGGCTGCCACCCCTCCCCACCCGTTACCCCCAGGATGCTGTTGCTGTAGGACGCCTGCTGCCCTGGAGCCCTCC
CCAGGATGTGAGCCAGTCCCTCGCTGGTACGGAATGCCGCTGGGTGCCCGGAGGCGGCCATGGTGTCTCGATGG
ACGGCAGCCAGGATGGAGCACCCATGGGTCTCACGGCCATGCTTCAGGGTCTTCAGGTCTGCCCCCGGCCAGTC
TGCCAAGAGGCACCCCTTCCCCAGCCTCTCGCCTGCACTGATGCAGACAAAATCTCACCTGGCAGGCCCAACCC
CCCCCACCCCTCCCCCGCCGTGTGTGGCCCCCTCGCCGCATCGTTGGGGTTTTGTTATGTGAAAATATCCTGGAA
ATAAATACATGTTTCTGCACTTAG

4118/5332
FIGURE 3584

CAGCAGAATGTCTCCTGCCCCGAGAGCGACCCCGAGGCCACTGAGAAGAGCAGCGCGCCTGGCCGGCCCGAAC
GCCTGCGTCTCAGTAGCTGGGAGCCACGGGCCACGCCCCACCGGCCGAGTGATGTTCTAGCCACAGAGGA
GCCAAGACCTCAGGTTTCCAGAGACTTGGGATTGTCACGGCAGCAGAGTCACCGTGGAGAGGCCAGGGTATCACA
AACTTATCGATTGTTGACAAGAAAGGAGGGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGCGGGG
GCCGGAGCAGCCACGGCATCCGAGCTCGGGGACCAGCTCGGGGGTCCTGATGGTGGGCCCCAACTTCCGCGTCG
GCAAGAAGATCGGCTGCGGCAACTTCGGGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTA
TCAAATTGGAGCCGATCAAGTCCCGGGCCCCGAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCA
CAGAGGGCGTCCCTCAGGTCTACTACTTCGGTCCGTGCGGGAAGTACAACGCCATGGTGCTGGAGCTGCTGGGGC
CCAGCCTGGAGGACCTGTTTCGACCTGTGCGACCGGACCTTCACGCTCAAGACGGTGCTGATGATCGCCATCCAGC
TGATCACGCGCATGGAGTATGTGCACACCAAGAGCCTAATCTACCGGGACGTGAAGCCCGAGAACTTCCTGGTGG
GCCGCCCGGGACCAAGCGGCAGCATGCCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCG
AGACCAAGAAGCACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGC
ACCTGGGCAAGGAGCAGAGCCGCGCGACGACCTGGAGGCGCTGGGCCACATGTTTCTGTACTTCTGCGCGGCA
GCCTCCCTTGGCAGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAACGCGCCA
CGCCCATCGAGGTGCTCTGCGAGAACTTCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACT
TCTTCGAGAAGCCCCGACTATGACTACCTGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTTCG
ACTATGAGTACGACTGGGCCCGGAAGCCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCCAGC
CTCAGTCCCGGGACAAAACCCAGCCGCACAGCAAAAACAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGG
ACGACCCACCGCCGGCCACTCCAACGCCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAT
GCTGCTGTTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACACAAGTGACCTGGGCGCGTGCAGCCCCCT
GAATCTTCTCCGTGCAGCCCCCTTGGGGCGCGACCTTGTGCGAGGCCCTCGGGGCCACCCACAGCGGCCAGGGC
CAGACCTGGCTGGAAGCCAGAACGCAGACTGCAGGGGCCGCGCCTGGCTCAGGCGGGCCCCACCCCGGGACGTG
GGGTCACTTCCTTCATGTAAGACTTTGGCCGAAATTTCTACACCTGTGTCTAGTCTCCCTCCAAGAGCATTAA
CTATTTAAACAAGGAAAAGAGGAAAAAACAAGAGGCCCCGCCCTACCCACTCCTGCCCTCCGTTTCTTTG
CTGAAGTGAGTAGTGTGATCCTGGAGGCCCCCGGCTGGCCCCGCCCGCCAGCCGCCCCGTTAGCGTCATAA
AGTCCAGCTTGTCTCCCTCGATCCAAGGCCGTTTCTCGAGGGGAGGGCAGGCCCGGCTGGAGGGGTGCTGTG
GAGCTGTCTTGGCCAGGCCCTCCTGGGAGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCCTC
CCGAAACCAAGGGGAAGGCAGGGGTGGGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAGCT
CGGGCGCCGCGGGCACGGCTGCTGCAGTCTCTTCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGC
GGGTGCTTCTCGACGCACTTGCTCCCGGAGGCTGCGCCCCGGCGCCTGGAACCGAGGTGGGAGGACCGGTTGGT
GTCACCTGCTCGGCCCTCAGCCCTGCCGCTGGGGCGCGTGGGCACGGAGCTTCTGCTCTCTGCTCCGACAC
CCGGCAAGCAGCCGGAGACAAAACGCCTTAAAGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCTGGGGG
CGGCCCTGGACTGGCGGGCGGTTCCCAAGTGGGGTCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGC
GTGCCCAGGGCGGTGGCTGTGAGTCTAGTTTTTGTCTTACCAAGTGTACAGAAATGGCATTACGTTTCTCTGAT
GCTCCCTTGAAGCCATAGAATTTAGGGGCTTTTTTAAAAAATAAAAGAAAAATGAAACC

4119/5332
FIGURE 3585

ATGCGGCGGGTGGGAGCGGCGGGCGTGCCTGCTGCCCGCGGGGGTGGGGTGGGCCGGGCACGGGGGGCAGT
CCCCGGCCCCAGCGCCAACGCCGCCGCCACCCCGCCCCGGCAACGCGGCCGCCGCCGCCGCCGCCGCCGCC
GCCGCCGCCGCCCTGGGCCGACGCCGCCGCCGCCGCCGGGGCGGGACAGACGCGCAGGCCGCGGGCGCGGAG
CGGGCGGAGGAGGCGGGCGGGCGGGGGCGGGCGGCGCTGCAGCGCAGGCCGCGTACAACCTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCCTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTT
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCCGACGTGGAACCCGCTGCCTTCCTCGCACTGCTC
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCCGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCATTGCGTGGAGTTCTGAAGAAGAACCTGCGAGCCGACAACGCCTTCATGCTG
CTCACGAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAACACTGCA
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCGCTGGTCCGAGGCCGAGTGTGAGCGGCAGCAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTGCTTCCCGCTCATGACCATCGAG
GAGTTCGCTGCAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCGAGGTGGTCAGCCTCTTCCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTTATTGACCGCCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCAAGTGACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTTGGGGCTGTATGGATCCATCCACGGGCCCCACCGACTACCAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTCAITGTTCAAGGAGCCGGTGGAGGTGCTGCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCCCAGAC
TCCCACTACGGCACCAAGGCCTGCGCAAGGTGACACAGAGTCGCCCACCACGGGCGCCAAGACCTGCTTCACC
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTTCATCTTCTACACC
TAGGCTGCCCCGACACCGACACCGCCCTCCCTCCGTGGGGATAGCCGAGCCCCAGGCCATCATCTGCTGCTGGGG
CCCCCCCCACACGCGGTGCCAGGCCAGTGTCGCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTACACAGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCACGGACCCGC
AGCTCAGGGCGCCTGCCCACGTCGTCTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTCCCTTTTGTTCCTGTCCGTTTATCAGGACACGGGCCCCACCTGTACGTGCCCGAGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTCACTGTGGGGACGG
CCCTGCGGGATAGGCCTAGCCCTGGCCAGGTGGTGAGCGGTTTGAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCCTGCCGCAATGGGGCCCCAGCCGGCCCCGACCGGTCCAGGAGCACTGCTCGCC
TGACATACTGTTGCCCTAGCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCCTCCCA
CTCCGGCCACGCCCCACCCACCCCGCGTGTTCCTGCCCTGTGACTCCTGGAACCTGCGTCTCCCCAAAGCCAT
GGGAGGGGTGTCCTCCTCAGACCATGCCCCAGATGATTTTTTTAAATAAAGAAACAAATGCACCTGC

4120/5332
FIGURE 3586

GCTGGCGGGGCCCGGACAGAAGATGGTGCAGAAGAAACCAGCCGAAC TTCAGGGTTTCCACCGTTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCCGCCAGCCAGCCCATTTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCTT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGGTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAGCACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTGCGATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAGTGAAGATCCTG
GAGGACCCTGGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTT
TAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCC
AATGTACCAGGTGAAC TGACGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTG
TTTTGTAAAGATTTAATAAAAGTCAAAAACTTGC

4121/5332
FIGURE 3587

GGAATTCTGAGAGCTGATTCCCTGCCTTGTCTTCTCCACTGTTCCCTGGAGGAATCCGAGAAGAGCAGAGCGGAGGG
AGCCCCAGACACGGTCCGCGGGAGAGCTGTGGGGCTTGGTGAGTGTTTCGTGGCCTCTCGGGTTGGTCAGCACCC
CCAGCCAGCTGGCCAGGACCCCTCTACAGAAGTCCAGGAGAGCAGGCGTCACCAAGATGTCCAACCCCTTCCTG
AAGCAAGTCTTCAACAAGGACAAGACATTCCGCCCCAAGCGCAAGTTTGAGCCAGGCACCCAGCGCTTCGAGCTG
CACAAGAAGGCGCAGGCGTCTGCTGAACGCCGGGCTGGACCTGCGGCTGGCCGTGCAGTTGCCCCGGGCGAGGAC
CTGAACGACTGGGTGGCTGTTACGTGGTGACTTCTTTAACC CGCTCAACCTCATCTACGGCACCATCAGCGAC
GGCTGCACGGAGCAGTCTGCCCCGTATGTGCGGGGGCCCCAAGTATGAGTACCGCTGGCAGGATGAGCATAAG
TTCCGGAAGCCACGGCACTCTCCGCGCCAGGTACATGGACCTGCTGATGGACTGGATCGAGGCGCAGATCAAC
AACGAGGACCTCTTCCCCACCAACGTTGGCACTCCGTTTCCCAAGAACTTCCTGCAGACGGTGCAGGAAGATCCTG
TCGCGGCTGTTCCGCGTGTTCGTGCACGTCTACATCCACCACTTTGACCGCATCGCGCAGATGGGCTCCGAGGCC
CACGTGAACACCTGCTACAAGCACTTCTACTATTTTCGTCAAGGAGTTCGGCCTCATCGACACCAAGGAGCTGGAG
CCACTGAAAGAAATGACCGCCCGATGTGCCACTGAGAGCCCCGCGGTCTCCCGGTGCCCCAACC GCGCTGGG
GCCTCGGAGACTTGGAGGAGGACGCTCTGGAACCATCATCCCGCTTCTCTCCGGCCTGAGCATCTCAGGGAGACC
AGGGGCCGAGCCGTGAGCAGGTGTTGGTCTCAGGAGCTCCAACCCCGACGGCAGATGCCTTCCTAGTCTCG
AGCCTCAGTCTCCCGTCTGGGACTAAACGTGAACCTCTGTAATTCATGTGTTACTAGCAACCGGAAAGCCAC
TGTGTTTTTAAACCACTTCCACTTTCCAGGAGGCTGGATGGCTTCCAGGGTCACTCCTTGCCCTGGGTGGCTCCC
AGGCTCCTGGAACCTTCTGCCTCCACCTCGCTGGGGAGCCCCCAGGGCTGCTGTGGCCACAGCCCTGCCTGGGCT
GTCTCTCAAGGGCACCCAGCTTGTCTGGCCTCCTACATGTCTCCCGTTGGGGAGGCAAGAGGCTGAGGGGCTTCC
GAGCCCTGAGAGCGGACATCTCTCCCGCAGGCCTTTACTCCGCACTCCCCACTGGCAGCCGCTGGTGTCTCTT
CACACAGAGGCACAACCTGGACCCAGGCAGCCTCTTTCCTCCCTCCCCAATCTCTTCCATTTTTCTACAGATTTT
TTTTTTTTTGGTCATACTAGAGACAGGGGTCTCGCTGAACCTCCTGGCCTCCAGTGATCCTCCATCCTCGGCTCC
CAAAGTGCTGGAATCACAGGGGTGAGCCACCGCACCCAGCCCTCTCTCTTCTCAATGCACTCTGCTTCTTCCGT
TCTTCCGAAACATTACAGTGAATCAGCTGATCCAGGGCTTCTGGAATCCTGGGACCCACGCTCTGCACCCCGGCTTC
TGACTCATTTTCTAAGGGCCCTTTGTGTATCATAAAGGGTTTGATTTTATAGTCACATTTACAACCATCTTGA
GATTTTTTATTTTTTTGAACGGAGTCTCCCACTGTGCGCCAGACTGGAGTCCAGTGGCACAATCTCGGCTCACTG
CATCCTCCACCTCCTGGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCGCCA
CCACGCCCAGGAAATTATTGTAGTTTTAGTAGAGACAAGATTTACCATGTGCGCCAGGCTGGTCTCAAACCTCCT
GACTTCAGGTGATCCGCCTACCTTGGCCTCCAAAAGTGCTGGGATTACAGGCATGAGCTACTGCACCCGGCCTAA
CCAGGCTGGAGTGCAGTGGTGGGATCTCGGCTCACTGCAAGCTCCGCCTCCAGATTACGCCATTCTCCTGCCT
CAGCCTCCCCAGCAGCTGGGACTACAGGCACCCACCGTCACACCCGGCTAATTTTTTTGTATTTTAGTAGAGACA
GGGTTTACCGTGTAGCCAGGATGGTCTTGATCTCCTGACCTTGTGATCCACCAGCCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCACTGTGCCCCGCCAAGAATTTTTTTATCGATAACATAGTGAGCTCTCTGCCTTT
CGGAACGATGTCCACTTTGCTTATGATCAACCCAAGCAGGACTCTTCTCTCCCTGGACGCCTCTCCCTGGTCTG
GAATCTTCCAGTTCTGCCAGAATTGGCCTTTCCAGATGCTGCAAACTTCCAGTTGAACCCCTTTTTCTGTGTGG
CCCCGTTGGGCTGCGAGACCAAAATCCATGAGTTCTGTGTACCCTAGACCTTTGGAAGGTGAGAGCAGGGCCCTGA
GAAAAGGCAGCCACCTCCTCTCCCTGGCTGAACCCCTGCCACCTACTCCTCACCAGAATTGTGAGTGGCCTTTC
ACCACAGTGGTCTCTCTGCTGAGCCCTGCACTGTCCAGACCACACAGAAGTCTGGTCACTCTGGGCGCCTG
GGATGGTCAACGAAGAGAAGCACGCTGTCCCCGTCTCTCCTGGCTTCTGCCAGAAAATCGAACAAGTGCAATTAA
CACACTGTTACTGCCGAAGCCTGAAACTCCCAGGACTTGTCTTGATCCTTCCAGAAACCACAGGTCCGGCACT
TGGAGCCCCCGGAGAGGGACCTCCAGCCGAGCCCTCAAAGAATCCATGAAATCAGGAACTGCTTGATGAAAT
GTATCTCCTTGTACCTGGAAGATGAAGCCCAACACCCACACCTCTGTCTCCCCCAGGGCTCGGGATGTCTCCAG
CAGCCCGGCCACGCAGCTTCCAGGTGGGCTCGGGGAGGTGGGAGCAGGGACCATCTCTGTCCCTCCACCCTCA
CTCCATCCACCTCGGAGACCACCTCCCCCAGCCAGATACGGAATAAACTACAGACGCAGACGTCCG

4122/5332
FIGURE 3588A

GGGGCCCGGAGCGGGATCGCGGCACCTGCCGAGCGGGTCGCCGCCTCTGCCGCGGTCTTGGACCCCGCCGCGC
CCTGGCCTGGGAGCTTGCCCCGCGCAGCGGCCGCGCAGCGCGCGCTCCGCGGGCGGCAGGCACGGGCCCGGGC
CCCCTCACGGCGCCAGCCGCGGGCTCCCCGAGGCAAAAGCCGTGGGCGCCGCGATGGCCCTCAAGATGGTGA
AGGGCAGCATCGACCGCATGTTGACAAGAATCTGCAGGACTTGGTCCGCGGCATCCGTAACCACAAGGAGGACG
AGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGCTGAAGCAGGACAACATAGCGGTGAAGGCGA
ACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACATCAGCTGGGCGCCTTCAACATCATAGAAG
TGATGAGTGCCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCGCTGCTTCCAGAGCTTTACGAAGGCACCG
ACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCAGCCCCAGCCAGTACGACACAGGTGTTGCAC
TGACGGGTCTGTCTGCTTCGTACCCCCAGACCTTGCCAGAGACCTGGCAAATGACATCATGACACTGATGTAC
ACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCGAGCCCTCACCATCTCATCCACAGCACGTCTGCCA
TGTCTCTCTCTATGAATGTGTGAACACCGTGATTGCAGTGCTCATCTCGCTGTCTCCGGCATGCCCAACCACA
GCGCCAGCATCCAGCTTTGTGTTGAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTTGAAGTACCTGG
GGCTGCTGGCAATGTCCAAGATCTGAAGACCCACCCCAAGTCCGTGCAGTCCCAAGGACCTCATCTGCAGT
GCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGAACC
TGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGTCA
CCAAGATCATTGACATCTGCAGCCAGTCCAATACCAGTACATCACCACCTTCGAGTGGTACATCAGCATCCTGG
TGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAAATGCTGGACGTGGCCATCCGCG
TGAAGGCCATCCGCAAGTTCGCCGTGTCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCAGCA
CCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCCTGGATCTGCGGGGAGTTCTCAGAGCATCTGCAGG
AACCACACCACACTTTGGAGGCCATGCTGCGGCCAGAGTACCACGCTGCCAGGCCACATCCAGGCCGTGTATG
TGCAGAACGTGGTCAAGCTCTACGCCCTCCATCCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTCAGG
CCGTCACCCAGCTCATGGTGGACCGGTGCCCCAGTTTGTGCAGAGCGCAGACCTGGAGGTGCAGGAGCGGGCGT
CCTGCATCCTGCAGCTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCCTGTGGCAGAGGAGGTACGCG
CTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCAAGGCCCAGAAGAAGGTTCCAGTCCCCGAAGGCCCTGGACC
TGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCAGGGCCGTCTTCCACGAGG
AGGAGCAGCGGCGTCCCAAGCACCGGCCGTGCGAGGCGGACGAGGAAGAGCTGGCTCGGCGCCGAGAGGCCCGGA
AGCAGGAGCAGGCCAACAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCCCGG
GCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCTTGAAGGTTCCAGGGCTGCCTATGTCTAGATC
AGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGAAGG
AGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGCTGCCACGGAGAGCGACGAGGACATCGCCCTGCCCAGC
AGGTGGACATCGTACAGAGGAGATGCCGTGAGAAATGCTCTGCCACGACGAGGATGACAAAGACCCCAACGACC
CCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAACTGCCTATTAGAAACACAGAA
ACACCGAGACCTCAAAATCCCTGAGAAGGACGTTCATGGTAGAAAAGAAGAGCAAGAAACCAAGAAGAAG
AGAAAAACACAAAGAGAAAGAGAGACAAAGGAGAAGAAGAAGGAGAAGGAGAAGAAGGCTGAGGACCTGGACT
TCTGGCTGTCTACACCCACCGCTGCCCCGCCCCGCCCCGCCCCGTTCCATCCACGGACGAGTGTGAGG
ACGCCAAGACGGAGGCGCAGGGCGAGGAGGACGATGCCGAGGGGCAAGACCAGGACAAGAAATCTCCCAAGCCTA
AGAAGAAGAAGCACAGGAAGGAGAAGGAGGAGCGGACCAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAGGCA
GCGAGGAGGCAGCGGGGAGCCGGTGCAGAAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCCTGAGTCCAGTACT
CCCTCCTCGCTGAAAATTCCTATGTTAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGGTCA
CTGTGGCCATCGTGTGAGAAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGTGACTCACTCA
ATGCCAGGATGGCCCCGCGCAGGGCTCCTCCGTCCACGATGGCGTCCCGTGCCTTCCAGCTGCCCCAGGCG
TCTCAACGAAGCCAGTATGTGTTACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCTGTCTCT
TCATTGCCAAGAATGACGAGGGTGCACCCACGAGAAGCTGGACTTCAGGCTGCACTTCAGCTGCAGCTCCTACT
TGATCACCACCTCCCTGCTACAGTGACGCCTTTGCTAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAATCA
AAGTCGATGGCATTCCGATGTCTTCCAGAATCTTCTGGCGAAGATCTGTTTTACCACCATTTTTCCGTTGTGG
AGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCCTCCTGGTGAAAAAGG
GTGAGAACTCTGTCTCAGTCGACGGGAAGTGAGTGACTCCACGCTACTGAGCAACTTGTAGAAAGAGATGAAGG
CGACGCTGGCCAAGTGTGAGAGCTGCCTGCGAGCCCCGACACCCCGCGGAGCACGTACCCAGGGACCGCAGC

4123/5332
FIGURE 3588B

CCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCC
GCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCATT
TCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCACCTGGGTCTGTGCCCTGCCCCGC
GCTGGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCTGGGCCAGGGCCTGATGGGCACCACGTGAGG
GGCACTTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCCTGCTTTTGACCCAAAGGTCTTGACGG
TTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTGCGCAAGGTTTTCTCTCCAGAACCACAGTGGGAAAGCGG
TCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGAAGTGGGTCTTGGGATCCCAGGCCACGCGCCA
GCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGGACGGGGTGGGTTGA
GGCCTCTCTGCCACCCGTCTTCTGGTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCCCTG
CTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCCAGCACCTTAGGAAGGCCAGGCAGGGCCTGGAAG
CAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCTCAC
AGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGCCAGCGTGGGCACAGGACTGACCC
TTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGTATGAAAAGTGTCACTTTAGCATGTAATCCATTACAGAA
TCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCCCGT
ATAAAGAGAGAGACATATCACGCTGCTGTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAAACAGG

4124/5332
FIGURE 3589A

CGGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACACGAGCCCTTCTCCCCGAGGTGTACGGGAGACCTCCTTCGACCTGGTGGCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTCTGTCTCCAGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTTCGAGAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG
CGAGTTCAGGAAGTGGATGAAATGGTATGGAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTATATTGTGAATAATTTGCCTTTGGTCTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCTCGAAACCCCTTGACCTCT
GAACTTCAGAATAAACAGTAGAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCTGAA
GGGCTCGGTGTCTGTGGACGGGGAAGCCAGTCTCTACTACCTGCACACTATCGACCGACCATACTTGAAAACTA
TTTTTCTAGTCTGAAAAACCCAACTCAGGGAGGAACAGGAGGCAGCCCGCGCGCCAGCAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCACTAAGGGCCAGAGGGCAAGGTGGCCGGCCCCGCGACGCCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCCAAGAAGAACCAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCCCTCTCACCCCA
GGATGCCTACAGATCCCCACAGCCCGTCTTACAGCTACCTCCGAGCGTGCAGCGGCCTCCCCAACCCGCT
GCTGGTGGCGCCACCCCGCCGCGTGCAGAAGCTTCTAGAGTCTTCAAGATCCAGTACCTGCAGTTCTTGGC
ATACACAAAGACCCCCCAGTACAAGGCCAGCCTGCAGGAGTGTGGGCCAGGAGAAGGAGAAGACGCCAGCT
CCTGGGTGCGGCTCAGCAGTCTCTCAGCCACTGCCAGGCCCAGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCATAA
CCAGCAGCTGCGGGAGCAGTCCGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTGCAGCTGCT
CAAGGCTCGCTGCGAGGAGTGCAGCTGGACTGGGCCACGCTGTGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCTGCAGCTCAAGTCTGTGTGCCCGCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCGCGAGCTGGAGCCTGACGCCAGCCGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCGTGGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCCTG
TACCCCTAGCCACGTTCGGCCGGCCGCGCCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGCAGGCGCGCTGCCAGTGAGCT
GCATTGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCTGTCCCTGGGGCCTTGCACTTGCTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCGCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCGTGCA
GCCCCAACAAGCTCCCGGTGAGCATTCCCCTGGCCAGCGTGGTGCTGCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGTGACAGCCCCGTGACCCCTCGTCCACACTTGAAAAGCAGATTGGTGCTAATGCCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGCAGGCTTCTCTACGCTGGCTCGGTGGCCATCAGCGGGGCTTGGC
GGGAGCCCGGCCCTCTCTCACACCTGGAGCCGAGCGGCCACCTTGGATGAGTCTTCCAGCTCTGGGAGCCTTTT
TGCCACCGTGGGTCCCGCAGCTCCACGCCACAGACCCCTGCTGCTGGCACAGCCCGGAACCTCGTCTCTGC
CTCTCCCGCCACACAGCTCTCTCCAGTCCCCGGCTTGGTGGGGCCGCCCAGGGCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTACCATCAC
CACTGGTGCGGGCAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCGTGGGAGCTG
TGTGCCGAGCCACGGGCAGGACAGTCGAGCGCGCGCGGCGAAGCGAGCATCTGCGGGGACGCCAGCTTGAG
CGCAGGCGTGTCCCCAAGCGCCGAGCCCTGCGCTCCGTGCTGCGCTTTTCAACACAGCCTTCGGGGTCTCCCT
CAACCTCAACTCCATGTTAGTAACTAACAGCCCTGGAGATTACAGCCATCTCGTCCCCGAGACCTCCCT
GAAGAGCTCCCTGTGCCCTACCAGGACCACGACCAGCCCCCGTGTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCAGCAGTGTGCAAT
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCGAAAACCTTGAAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGCGGGCGAGCCAGTCAATAGCAGCAAGTGGAAAGTCCACCTTCTCGCCCACTCCGA
CATCGGCCTGGCCAAGTCGGCGGACAGCCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTACGTT
CCGGCCCGCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCAGGAAAGGCTTTCCCGGCTCCCT

4125/5332
FIGURE 3589B

GTCGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCCTTCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCAC
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGACCGCGAGGTGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGCGGCCGTGCCTCCCGGAAGCCTCCTCAGCGCCCCCGGCCTGGCCCCGGCGGCTCCTC
CGCAGGCGGGCGCGGCTCCTCCGCCAGACGCACCGTCTCCTGGGCCCTTCCCGCGGGACCGCAGTTTCGC
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTC
TGTGCCGGCCGCGCAGGCCTGGTGCACGTGTCTGTCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG
GTTTTCCGGGTGGCAGGCGGCACAGTTGGAGGTAACTAGGATTTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCCGCGGCATGGTGCCCGCCGGCTGCCGGGCTCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGCGCGCACGCGCCGAGGAGGCTGGGACTGGTCCAGTTTGTACTGTGCG
ATAGTTTTAGATAAAGTATTTATCATTTTTTTAAAAAGTATAAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCCCAGCGGATTCCGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGCGCCGGCTCCCCGACGCGCTGCT
CCCGTACCAAGGCAGGCCCGTCGCCACCACATTCTCGGAGGCCTCCCCGCGGCCTGAGCCCCCTTCTGAGCGC
CCTGGCGCCTGCCCTGAGCTCTTACCTTTACCCGGCACTGTGAACCCCCAGACTGTTACCCCTCCGGGGCGTG
GGTTGCGCCCTTGCAATGTGAAGGGCCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGTGTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCAATTTACTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCAGGCCTGTCGTGGGTCCCTTGGTGTCTTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTATAGATTTGACAGCTTTTATTTTATAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAAACCTTATTTATTCAAACAGTGCACAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCCTGCCTGCCCCACATCCCTTC
CTGTACAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCAGCTGCTGTGGGTGTGCTGGGGC
CAGGGTGCAGTGTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTGCGCCCCCACTCTGCAGCCTT
GGCGGGTGCCTGGGACTGGGTGTGAAGGAGAGGAGCTGAGGCCGGGGTGTAGCAGGCAGGCAGGGCCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGCCTGGGTTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA

4126/5332
FIGURE 3590

GACATTTTTGGCGCCGGCCCCAGCCTGAGCGGGGACGGCGGCCGGGAGGGCGCGGCCCGGGTTCCCGTTCCCCGC
GGAGCCATGCGGTACAACGAGAAGGAGCTGCAGGCTCTGTCCCGGCAGCCGGCCGAGATGGCGGCCGAGCTGGGC
ATGAGGGGCCCCAAGAAGGGCAGCGTGCTGAAGCGGCGGCTGGTGAAGCTGGTGGTGAATTTCTCTTCTACTTT
CGGACAGACGAGGCCGAGCCCCGTCGGAGCCCTGCTGCTGGAGCGCTGCAGAGTCGTCCGGGAAGAGCCCCGGCACC
TTCTCCATCAGCTTCATTGAGGACCCTGAGAGGAAGTATCACTTTGAGTGCAGCAGCGAGGAGCAGTGTGAGGAG
TGGATGGAGGCTCTGCGTCGGGCCAGCTACGAGTTTCATGCGGAGAAGCCTCATCTTCTACAGGAACGAAATCCGG
AAGGTGACGGGCAAGGACCCCCCTGGAACAGTTCGGCATATCCGAGGAGGCCAGGTTCCAGCTGAGTGGCTTGACG
GCGTGAGCGCGAGGGCACGGTGGTCAGCGTGACGCGGGACGGGACTGGCCCTGCCCAGCCATGAATCGCTTGGCCA
TGCCTGGATCTGTTTTGTTTTGGTTTTTTGGTTTTTTGGGTCAGGGTTTCACTGTGTTGCCAGGCTAGAGTGCAGT
GGTGCCACAGCTCACTGTGACCTTGACCTTCTGGACTCAAGTGATCCTCCTGCCTCAGCTTCCCAAGTAGCGGGG
ATCACAGGCATGAGCCGCCACACCCGGCCATCACACCTGGATTTTCAGTGGGAGGTTTTTGGTTTGGAGACATCC
AAAGCCTGAAGCCAGGTGGGTGTGGGCAGGGGCTGCATTTTATGAACTGCCCAGCAAGCTGCGCTCCCTGGGGC
CCCA[^]GGATCCACCTAACTGGCCTGGCACCTGGTGCCACGTGCTGCTGCCGCCAGGATATGCGCCTTCCCACAGGT
GCCCTGCCTGAGTTGTGTGCATCCAGGGGCTGGTGAGCCCCCAGGCTGGTGGCATGGCCCCCTGCCCCGTGCT
GAATGAATGTACAGAGCCAGACAAAGCTGTGAATGGCCTAGGGGCTGAGTCCCACACCAGCTGTGAATTCTCCTG
CAGACAGGAGGGCCCTGGCTGTGCACCTGGGGAAGTGGTTGCCCTGGGGCCAGGGTGCTTGTTCTGTTCAAATAA
AGGTACCTCTTTTCC

4127/5332
FIGURE 3591

ATGGACTTCCAGCATCGCCCCGGGGGCAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGAC
CGCAGGGGAGCGCCTCCGGCAGCTGGCCCTGGAGACCATCGACATCAACAAGGACCCGTACTTCATGAAGAACCAC
CTGGGGCTCCTATGAATGCAAACCTCTGCCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGG
AAGAAGCACCAGACCAACCTGGCCCGGCGAGCAGCCAAGGAGGCCAAGGAGGCCCTGCCCAGCCCGCGCCTGAG
AAGGTCAAGGTGGAGGTGAAGAAGTTTGTGAAGATCGGCCGCCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCG
GAGATGGGCCAGCAGAGCCTCCTCTTCCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTACCCGC
TTCATGTCTGCGTACGAGCAGAGGATCGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCGAGCCC
TACGAGACCATTGCCCTTCAAGGTGCCGAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAAC
CGGGAGACCAAGCAGTTCTTCTCCAGTTCCACTTTAAGATGGAGAAGCCCCGGCTCCACCCAGCCTCCCTGCT
GGCCCCCTGGGGTGAAGCGGCCTCCACCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCT
TTGCCACCGCCCCCGCCAGGAGGCCTGCCTCTGCCACCCATGCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCG
GGACCACCCAGCTACCCCCGCCAGCTCCAGGGGTCCACCCCCGCCCCAGTGGTGCATCCCCCTGCATCTGGG
GTCCATCCCCCAGCTCCTGGCGTCCACCCCCAGCTCCTGGCGTCCATCCCCCAGCCCCCTGGGGTCCACCCACCA
ACCTCTGGGGTCCACCCCCCAGCTCCTGGAGTCCACCCTCCAGCCCCCGGGGTTACCCACCAGCCCCCGGAGTC
CACCACCAGCCCCCTGGGGTTACCCACCAGCCCCAGGGGTCCATCCTCCCCATCAGCGGGGGTTACCCCCAG
GCCCCGGGGTGACCCAGCAGCCCCCGCGTTACCCCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATG
CACCCTCAGGCCCCGGGGTCCACCCCCAACCTCCCGGGGTCCATCCGTGCGCTCCTGGGGTCCACCCTCAGCCT
CCGGGAGTTCACCCCTCAAATCCTGGGGTGACCCCCCAACTCCCATGCCCCCAATGCTGAGGCCCCCACTTCCC
TCCGAAGGCCAGGGAACATACTCCCCCTCCCCCAACCAACTGA

4128/5332
FIGURE 3592

TGCGAACGGCGAGCAGCGGCGGGCGGCGGAGAGACGCAGCGGAGGTTTTCTGGTTTTCGGACCCAGCGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAAGCCAGC
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTAAGCCTGCACAGCCGCGGCGGCAGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTTGATGCCCCCTCACCCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAAATCTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGCGCTGCCCCGA
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCCTTGTCCTCCCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCCTCGGGGCTGGGCATCCGGCCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTGCTTTAATTCTAAATAAAAATTTATA
TTTACTTTTT

4129/5332

FIGURE 3593

CGCGACAAGATGGCGGATAAGGAGAAGAAGAAAAAGGAGAGCATCTTGGACTTGTCCAAGTACATCGACAAGACG
ATCCGGGTAAAGTTCCAGGGAGGCCGCGAAGCCAGTGGAATCCTGAAGGGCTTCGACCCACTCCTCAACCTTGTG
CTGGACGGCACCATTGAGTACATGCGAGACCCTGACGACCAGTACAAGCTCACGGAGGACACCCGGCAGCTGGGC
CTCGTGGTGTGCCGGGGCACGTCCGTGGTGCTAATCTGCCCGCAGGACGGCATGGAGGCCATCCCCAACCCTTC
ATCCAGCAGCAGGACGCCTAGCCTGGCCGGGGGCGCGGGGGGTGCAGGGCAGGCCCGAGCAGCTCGGTTTCCCGC
GGACTTGGCTGCTGCTCCACCGCAGTACCGCCTCCTGGAACGGAAGCATTTTCCTTTTTGTATAGGTTGAATT
TTGTTTTCTTAATAAAATTGCAAACCTC

4130/5332
FIGURE 3594

GCCGTTGGTTGCGGCGGGACCGGCCGACATGGCGGCAGCGGTGGCGGCTGCGCTGGCGCGGCTTTTGGCGGCCT
TTCTGCTCCTCGCGGCCAGGTGGCCTGTGAGTACGGCATGGTGCACGTGGTCTCCAGGCCGGGGCCCCGAAG
GCAAAGACTACTGCATCCTCTACAACCCGAGTGGGCCATCTTCCGCACGACCTCAGCAAGGCATCTTTCTGTC
AGCTGCGCAACTGGACGGCCTCCCTGCTCTGCTCCGCAGCCGACCTCCCCGCCCCTGGCTTCAGCAACCAGATCC
CGCTGGTGGCGCGGGGGAAGTGCACCTTCTATGAGAAAGTGAGGCTGGCCCAGGGCAGCGGAGCACGCGGGCTGC
TCATCGTCAGCAGGGAGAGGCTGGTCCCCCGGGGGTAATAAGACGCAGTATGATGAGATTGGCATTCCCGTGG
CCCTGCTCAGCTACAAAGACATGCTGGACATCTTCACGCGTTTCGGCCGCACGGTGAGGGCGGCGCTGTATGCGC
CTAAGGAGCCGGTGCTGGACTACAACATGGTCATCATCTTCATCATGGCTGTGGGCACCGTCGCCATCGGCGGCT
ACTGGGCCGGGAGTCGGGACGTGAAGAAAAGGTACATGAAGCACAAGCGCGACGATGGGCCCGAGAAGCAGGAGG
ACGAGGCGGTGGACGTGACGCCGGTGATGACCTGCGTGTGTGGTGATGTGCTGCTCCATGCTGGTGCTGCTCT
ACTATTTCTACGATCTCCTCGTGACGTGGTTCATCGGGATCTTCTGCTGGCCTCCGCCACCGGCTCTACAGCT
GCCTGGCGCCCTGTGTGCGGCGGCTGCCTTCGGCAAGTGCAGGATCCCCAACAACAGCCTGCCCTACTTCCACAA
GCGCCCGCAGGCGCGTATGCTGCTCCTGGCGCTCTTCTGCGTGGCCGTCAGCGTGGTGTGGGGCGTCTTCGCAA
CGAGGACCAGTGGGCTGGGTCTCCAGGATGCCCTGGGCATCGCCTTCTGCTCTACATGCTGAAGACCATCCG
TCTGCCACCTTCAAGGCCTGCACGCTGCTGCTGCTGGTGTGTTCTCTACGACATCTTCTTCGTGTTCATCAC
GCCCTTCTGACCAAGAGTGGGAGCAGCATCATGGTGGAGTGGCCACTGGGCCCTCGGACTCAGCCACCCGTGA
GAAGCTGCCCATGCTCCTGAAGGTGCCAGGCTGAACCTCTACCTCTGGCCCTGTGTGACCGGCCCTTCTCCCT
CCTGGGTTTCGGAGACATTTTGGTGCCAGGGCTGCTGGTGGCTACTGCCACAGGTTTGACATCCAGGTACAGTC
CTCCAGGGTATACTTCGTGGCCTGCACCATCGCCTATGGCGTTGGCCTCCTTGTGACATTTCGTGGCACTGGCCCT
GATGCAGCGTGGCCAGCCCGCTCTCCTCTACCTGGTGGCTGCACGCTGGTGACGAGCTGCGCTGTGGCGCTCTG
GCGCCGGGAGCTGGGCGTGTCTGAGCAGGCGAGCGGCTTTCGCAAAGTCTACCTCCATCTCCGTGGGCCCCAGC
ACCAGCCGACGGCCCGCAGCCTCCCAAAGACTCTGCCACGCCACTCTCCCCGACGCCGCCAGCGAAGAACCCAGC
CACATCCCCCTGGCCTGCTGAGCAGTCCCCAAAATCACGCACGTCCGAGGAGATGGGGGCTGGAGCCCCATGCG
GGAGCCTGGGAGCCAGCTGAATCCGAGGGCCGGGACCAGGCCAGCCGTCCCCGGTAACCCAGCCTGGCGCCTC
GGCCTAGGGGAGGGGTGAGACGCTCGCTGCCGTGCCCGCCACACCAAGATGTTGGGGCTGCCTGGCGCCCACTGG
AGACAGACAGACAGCGCTGTCCCCCGGGACCGAGGCCTGTGCCGTCCCCACCGCCCCAACATGGTGCTCATC
CTTGCCGAGACCCCTGCGGTCTGTGCCCGCGCCAGCCAGCTGCCCGGCTGCACGCTGCTGCTCCAGCTCG
CCCGGCTGCCACAAGCTCTCTGCGGGTCCATCCTCCCCACCGGGTCCGTCTCGCAGGCCCTGCCCGCCTCTC
TGCAGACCCTCAAGCGTCGTCTGCATGAGTGAGCAGGCGTGGGTGGACTCTGGCCGCGGCCACACTGGTGCTCA
CCAGCTGCTTGGCCCTCAGGTGACCTCCCTCCCCACGGCATCCTGCTCTCCGGGTGGAAGAGCAGCTTTCTGTC
TCCCAGAAGGCATCGCTTTTCCCTCTTGAGCAGATCGGAGCCCTGGGAGGTTTGGAAGCTGCCTCCAAGCCTAG
GACACGGACAGTGCCCGGGGCGGCCTCTGGCCCTGACGCTGGCTGAGACAGGCCCGTGGGGCGGGTTTTGGG
GCGTGAACAAGGCTGGCAGTAAGTGGAACAAGCTGCTCCCTGGCTAAGGCCCTGCCCTGCCCTCAGCCAGAGGTG
CCTGGCCATGCTGCACACTCCTCCCCATTTTAATAAATGGTCGCAACTCTAGAAGTCTGCTGGTGCCACCTG
GTGGGGTGGACGTCTCTCAGACTGCCCTTCTGACAAGCAGGGGTGGGCGCCAGGCAGGCTGGGTGAGGCCCTCAG
GGGTCCCTGGAGCCCTGGGAGGGAGGGACTGGGTGCTGGGAGGTCTGGTAGCTCCCGGCACCCAACCTCGCTTC
CCGTGTGGGCCCCGTGTGCTTTTCTGCTGAGAGGGGCTTGGGCCCTCGGTCTCCTCTGTGGCAGCGGCATTGGTG
CCTGGGTTCTTAACCTCTGGACCCAGCAGCTAGGAGCTTCTGGAACCCACGAGGACATCTGCCACTGGCATGGT
CTACTCACTGATGGGGTCTCCTGACTCCAGGGCAGAGACGTCCGTGCGGGAAGTACCGAGGCGTGGCCCCAGG
CCCCGGCATCCTCCCCCTCGCTGCACGTGGTCACTTCCGAAGCAGCGCTCCCTGTGGCCGAGAGACAGAGCCCGC
ACCCTGGCTGTCTGTGGTGCCTGGGCCCCAGCTCCCGCCCGCCACCCGCCCTGTTGAGTGCGGCCTCCAGACTCG
AGTCCAGAATCTGTTTTCTGTCAAGTCAGTCGTCCCAGCTGCACACGGGACTGCTGAGCGCTGCGCTCTCACGG
GTCTGTTCCGGACAGAGGGTGGCAGGGGTGAGCCCTGATCCCTTACAAAAAATACCAGCTTCCAGGGAGTAATG
GCGCCTTCACTGAAGCCATTTTGTACATGGGGACGGGTGGGGACGTCTCTTTTTTGGTGTGGACGTTTGACCA
GTGGGGAGGGGTTAGAGGCGCGGTCTGTCTTGGCTCCGTCTGTCCGTGTGGCCTTGTGCACTTCCGTCTG
ATCATTAACACAGCTTTTGATAC

4131/5332
FIGURE 3595

ACCCCCAAGGAAAAAGGTCACTGGCTAGTGTAGCTAGTGTAACAGGACCCAGGCGATGCATGGGACCCTGCCCT
TTTTTTCTAGTGAGCCTCCGACGCTGTTGCACAAGCTGACTCTTCGTACGTGATGCGACCGGGCTCCGCCCCG
GCGGCAACACGCTGTATAGACGCGCCGGGTGCCTCGTGCGCATGCGCGGCAGGCCCTTCGGGACGAGCTGGAGGC
AGAGCGTGAGTACAAAGTGATCGGCCCTCGGCCGCACGTAGTAGCCCCCTACTCCCCGCCAAGTCAGGGCCTCC
CTCTTCCCGCGGAGTCGCAACCACGGGTAGCTCGTGTAGGTAACGGCAGGTCCAGGCCTCCGCATGAGCGGAGGG
CCCCCGCGCGACCTTGAATGGCCCGGGCGCGCGGTCGTGTGGGAGTTGTAGTCCTCCGTCCCGTCCGCGCG
GACTCCGTTTCCCGTGGTGCCCCGGGCGGCCCGCTTCCGGCGCAGTTAGTTACGAGTCGGCGCACGCGGCCTCGG
TCCGGTTGACTTTGCGGAGCCATGGAGGGCGGCTTCGGCTCCGATTTTCGGGGGCTCCGGCAGCGGGAAGCTGGAC
CCAGGGCTCATAATGGAGCAGGTGAAAGTGAGATCGCCGTGGCCAACGCGCAGGAGCTGCTGCAGAGGATGACG
GACAAGTGTTCGGGAAGTGATAGGGAAACCTGGGGGCTCCCTGGACAACCTCCGAGCAGAAAGTCATCGCCATG
TGCATGGACCGTACATGGACGCTGGAACACCGTGTCTCGCGCTACAACCTCGCGGCTGCAGCGGGAACGAGCC
AACATGTGACCGCGGAGCGCGGGCCACCCACCCTGTTTCAATTTCCATAAACGTGCTTTGAGAGGCGGGGTCCGCA
TGTACGTACTGCCTGCCCCGGGGCTTAGGAGGGTGGCACCAGGTGCTGGGACACACGGGACTGTGTCTCGCCACCC
CCCCCCTGCCCCCTGCCAGCCAGTGACGCTTGGATCTCGGGGTGTGGGGCCCTGTGCCTTCCTGAAGTGCTGG
CAGCCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCCCAAGTCAGCCTCATATTCTGGGCGG
ACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCTGTACCTCCTGCGGATGGGCAAATA
AATTGGTGGAGGACGAGAGAAACCTCTTTATTTCCCTCCTGAGGGGTCTCTGGGAAGAGGTGACGCGTGTCCCT
GGAACCCAGCTCGGAGGGTCTCAGCCTCCCCTGGGTGGGAGAAGTCCATCTTTCCCTTAGTGCCACCGGGCT
GCTGAGTCACGAGGAATGTGTTGCTGCTGCCACCCCTGCCCCAAAGGCTAAGGGGGACAGCCTTCCCCTGTGAC
GGCTTGCTTTGACCTGCTTCGTTCCACCCCGGGTCTGGTGGAGCACCAGGCAGGTGGTCCTCGCTGTGACACT
GAGGTGCTGAGCCAGTGAGCTAGGGTGGAGGGGCTGTGTTTATTGGAACAAAGGTGGTACCAAAATGCATCCCC
ATGACCCACAGCCCCCCCCACACCCGCTCTTGGGTAGGGTACGGTGGGGTGGGGTGTGGGTGGCCTGCTGCTCCT
GTTGCTTTACGTAGAGTCTCGGCCTGGGCAGTCACGTGGTGGTCACTCCTGGATGTGCTGTCTATCCAGCCTC
TCACAGCTGCCACCCGGGTATAGACACCTGGGAAGTGGGGCCGGCCACAGCCATAGCCCCAGCTAGTGACCCAG
TTAGCACCCACCGTCCAGAGGGCTCCCTGCAGGCCAGGGGTCCCCCAGCGTCACCCTGTTGGGGAGAGAAGAAAG
GGGGTTACAGAGGCCGGTACCTCCCCTACAGCAGCCCTTGGGTCAATTGGCCCCCTTAGGAGTGACCCTAGTGACTT
CCCCTGGGAGCCGCATTTTCACTATCTGGAAAATGGGCTCAATGCAAAGGTGGCAGACATTTATGGACACCCGCC
ACGTGGTCCCGGAGTGGAAACGGTGCCCTCCCACTGCAGCCTCTGCCTGCTCTGCCGCCGAGGCCCGGGGATGGGAT
GCGGTGGGTTGCCCAATAAACGGCTGTGGAGTGGAAATTCCTCCAGAGCCAAAAAGGC

4132/5332
FIGURE 3596

TTTAAATGGATATTTATTTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGCCAGGGCCTTGAGGACAGGC
TGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCCTCCGACGGCAGAGCCTCCTTCAGAAAGTGCAGCTCA
AGTCTTAAAGACACCAAACTGAGCCATGGGCACGCGCCGTCTCCGGGCCATGGCGTTCACTGCAGGGCGGGGGC
GGCACCGCTCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGAAGGAATGGGGGGCCCCAGC
CCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACCCGCTGCTCCACGTAGCCCCCTGCTCGCTGTCCT
TGCTCTCAGAAGTCCCGTCCCATGTAGATAGAGGGGGGCGCATCTTACCAAAGCATTTCCTCCTGGAGGCTACG
CCGCTGTGCTCCCACTCAGGCGGCTGGTAGGGAGCTTTGCCTGCCCCGGGGATAACCTCTGCCAGCCGCTGGAAG
TGGGAATGCTGGCGACAGACTGTGTCTCTTTCCACCTTCATAGCAGGAATCACCCGGACCCGACTGGCTGGGC
TTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCCTATGGGGAGTCTGCAGTGGTCTCAGCCAC
ATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGATTTGCCGACAGCCTTGCAG
GCTGGGCTCAGGGACAAAGTCCCCCCCCAAAACCCGAGGTCTCATGTCCAGACGCTGCCCAGTCCTGTCTCTGAA
AACAGCACGCCCCAGGCCACAGAACCCCCACCCTACATTTGCCTTGGGTGGAGCTGGGGGTGGTCTTAGGACT
GCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGGTAATTGGAGGTTTATTGAG
AATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTAAAGTTATTTATGGCCTGGGAAACAATTTGCATTTG
TCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGTGTAAGCCCGTGCCGTGTGA
CTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGAGGCCACGCCTGCTGGACC
AACGCGGGTTCTGGGGTGACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAGCCCAGGAGCCGGGAGGCCT
GCGGGCTGACCCAGAAATCCGATCATGCACCTGTCTCATGCCAGCGGCTTTGGCTGGGGTTGGTCTGAAGCCTGC
ACGCGGCAGTTCTTTGTAAAGATCTGAGGGACTCCTCAGTCCTGGGGCGTCGCCGCCTGCAGCCTCTTCCAAGC
CCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCTGGGGCTGGCATGGACTTTC
ATTTAGAGATTTCGGTTTTTAAAGATGCATGCCTAATGTGTTCTTTTTTTTTTCCAATGATTTGTAATATACA
TTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTT

4133/5332
FIGURE 3597

AGCTCTGACCAGAACGACAAGGCGGCCAGTGCGGCTCGCGAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCC
CTCAGCTACCAGCTCTCCGCCTCACTTCGCTGCCACTTCGCCGCTGCCCCGAGACTTTTCAATCCCACCCCACT
CCTCATCTCACCATTGTTGGTCAAATTGGAAGCCCAGGGCCAGGACCCGGAGGTTTAGAAGATGCTTGGGCTTGGAG
GGAGGAGGGCCGGCGAGGCTAGCGAGGGGACAGGAGACGGCCCTGCTGCGGACGGAGCGCGGAACTGCGTAGGA
ATTCAGTGGTGGTGGGTTTTTTTAAGGCTTTCTACAAAACCAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCC
CGGGGCCAAGCCTGCATTCTGGCTGCCCAGCTTCGGACAGCGGGAACCTCCTCAGGCAGCCACGCAGCGGGTGTGG
GCCAGCATGGGGATGGCGTGGCCCCAGGGCGGGTTTTTCACTCCGCTGCCTGGGCTTCCAGATTCCCGTTCTGGC
AGCGCACCGGCCGGGTTTCTCGGACCGTTGACTTTATTTGGGGGAGTTTCCCGCAGTTCAGTTCCTGACTGTGC
AAGGCCAACAGGGCAGGGGAGGGGAAGACCTGGGGAAGGAAGAATGAGGACAGTCCCGTCGTAAGACCTGTCACA
ACAATA

4134/5332
FIGURE 3598

CGTCGGACTACCGTTGGTTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTCCGCCTT
TTCTGGAAGGATTTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTGGGCTCTCT
GGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA
CAGCGTGGTCCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT
CATCCAGTCCCTTCTGCTGTGACAACGACATCAACATCGTGGGGTGTGCGGCATGCAGCGCCTGGCGCAGCTCCT
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTCACGAACCCTCACAC
GGACGCCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCCAAGAAAGCCGGGGCAACAACCAGTGGGT
CCCTTACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA
AATACAATAAATATTTGAACCCCTCCCCCAGCACAAACCCCAAAACAACCCAACCCACGAGGACCATCGG
GGCAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGACCCAGGCCAGCAGGAGACAGGACCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGTTGAACTTGGTTGGTCCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGTACCCATGAACTCCAGTTTGCGAATTATAGAGACAATCTATTTTGTACTTGCACTTGTTATTCG
AACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTATTCTACTATGAGGGCCTTGTAATAAATTC
TAAAGCCTC

4135/5332
FIGURE 3599

CATGTTTTTGGATTTTTTTTTTTTTCTTTTTTTGAGATGGAGTTTCATTCTTGTTACCCAGGCTGGAGTGCAGC
 TGCATGATTTTCAGCTACCCGCAACCTCTGCCTCCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCT
 GAGACTACAGGCGTGTGCCACTACGCCCCGGCTAATTGTTGTATTTTTAGTAGAGACGGGGTTTACCCTATTGGC
 CAGGCCGCTCTCAAACCTCCTGACCTCGGGATCCGCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAG
 CCACCGCGCCAGTGTGTTTTAAGCATGAGGCATCCGCGTGGCTGGGAGAGGCTTTGACCATCCTTGCTCTTCC
 AGGTTGTCTACCTCTGGCATCCACCATAGACGTTTTTCAAACAGAAAATGCAGGCTGGGGAGCCGCGGCAGGG
 CGGGTGGGGTACCTGTGCTGCTGTGTGTACAAAATTGTTCCATGATCTTGAGTGACTCTGAAGGACTCTGGG
 AGGTGAGACGTTGTCCCGGAGATCAAAACGTCCGCTCAAACGTTACCCTGTGCTCGAACCCTGATCTTTTTGCT
 TTTCCACCCCGTGAACCCAGGACGGCTGTCTGAGGCCGGGAGATGCCTTAGACGCAGGATGGGCCACTCCTCC
 CAGCGCAAGTGGAATCGAAGATGTCTATGGGGTGGGGGGAGGCTTCTGAAAGATGACTGCGTCTCCTCTGCG
 GCACGGACGGGAGCAGGTGCAGCCACATCTTCCAGGGCCTGCCGGCATCACCTGCGGCCACACCTGAGATGGACC
 CCACGCAGCCCTGATCGCAGGAGGCTGGCCGCCCGACCCCTCCACGGGGCTGGCCTAGAAGCAAGTAGTAGA
 AATAAAGTAGCCTAGTCTGTCCCTCCGGCCCCAGTGGAGACAGGCGTCTAAGAACCCTGCCGAGAGGGTCTCT
 GGACGGCCGCCAGGTCTCCGTGCAGGCCCCGTGAGGCGGGGATCCCTGCTTGCTCACTTCTGAGCTGGTGC
 TGCCAGGGTTCCACCTCGCCAAGGCTAGAGGGCTCCGGGTGTGTGTGCAGGTGTGGGGGAGTGACCTCCACTC
 CTCAACCTCGGGCAGTCCACAGGCCACAGCCGGGCTCCCCACCCCGGCACCCAGCTCTCTACGGCAGGTCCG
 GGAGGGCTGGGGCTTCGGGGAGCCCTACCCGCCAAACCTGCTGTTGGCCCGGAGAGCCCCAGAGGCTCCCGGAG
 ACTGCAGCCTCCTGTGGTTGGGCTGGGAGCCGGCAGGGTTGGGGTGTGGGCGTCCCCACCACGCATAGCAGGAA
 TGGCAGGAAGGGACAAAAGCCTGTTCCAGAGACCCTGGGAGGACCCAGGCAGGGAGAGCCCGCTGCCTCCACC
 CTTTCCAACAAGCCATCTTGTTAACTGGGAACAAACACACCCACCCCGTTTTTCTTAAAAGAGGCCTTAATCC
 CCGAGCCCCGCTGCCAGGGCAGAGGGAGGAGGGGACAGCTGTGCCAAGCCCGGCCCCACTGGTGTGTCTCA
 CAATGTGACCCAGAAAATGCCAGCAGGGAACGGAGGCTGCTGCAGAGACGCAGCCCCAGGCAGCCGGGGCTCCTA
 GGCTGGTGCAGATGGTGGGGTTAAACGGGCTGAGCGTTCCAGGTAACCTGAGGCTCGGGGAGGGGAAGGACAGGC
 TGGCCTCTCCTTCACTGTCCACAGGGCCTTGGGTTCCCTGAGCTGTCCAGACCCACCATCTCCCGGACCCAGG
 GAGGTGGCCATTGCCAGAAGCCTGTGGGTTTCTTTCTAGCTTGGGGGATTAAAAAAAATTCTCCACTTTTTTT
 TTTCTTGAGTAGACTTCAGTGACCACACTGTGGAAAATACCTTTGCAGACGTGGCACCCGAGTGACACACCCGAC
 CGCCACATGTGCTTTTCTGCCGGGAATCCCTGGGGTGAACGCAIGTTTTATGGGCGTTTTCCAGGAGCGCGCGTGC
 ACCICACAGCGGGGAGCTGGCGGGCGGGGGTGGCAGCAGCAGCTCTAGCCTTGGGGGGACAAGCCTCTCTCAGCT
 ACGCCAGGGGAAAAGAGAGTTAAGGACACTACCCCCACCCACGCACACACAAGGCAGCGTCGGGTGGGAGAG
 AGAAGGCCGTTTTCTCCTTCTGTAGCCTGGGTCTCCACGGGCCTTCCCCGCTGCTGAGCGAGACACAGTAGCCA
 GGTGAAGGGCCACAGCGGGCCAGGCCCCGACCCCTGTTGTGACCCACCTGGGCACCTTCCCGGACCAGCTCCGCCT
 CCCCTGCCCTCCTCTCTCCAGGAAGGAGCCAGAACCCTACCCCTCTCCACCCCTCCCCAGGGGTAACCCAGGC
 CAAGCACAGATAGCTCAGCTGCGACCTCTGGCCTCTGGGGACATAAACGGGGCGGCTGGGCCAGGGCGGAAGGTG
 CTCTGTTTTCCCTCCTTCTGCGTGGTCCCTTTGACGGGCCGGCCACCGTGTCCGAGGCGCAACGCTAGGCCTCA
 GGCCACGCATCCATCTCCAAGTTAACAGCCCGTCTGCCAAAGTTCTGGGGCAGGTAGGAGAGGGCCGTACACA
 CCTGTCCGCCCGTGAGTGACCCGGGGGGCTTCCGGGTGGAGGTGGAGCCACCACGCCCTTCTCAAGGGGTAC
 TTATTAAGGAGTCCACGGCTGAGGCCAGGCCCTCTGCACAGAAGCCATATGCC

4136/5332
FIGURE 3600

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCGCTCTCCGGGCGCGCTCTGTGGGGTCGAGA
CTGCGCGGGCGTTGGGCGTGCAGCGGCGCCAGTCGGCGGACGAGGGGCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAACGTGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC
TCTTGCTGGGCTTCTTCATGACCGTCTTCTGGAGCAGCTGATCCTGACCTTCGCAAGGAGAAGCCGTCCTTCA
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCCTTCATGGGGGGCG
CGCGGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTGCGGCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCTGC
AGGAGGAGGGGGAGAAAGTGGTGAACCTGTTCTGTTGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCCGAGTGCCATGCCCCTGCGGGACGCGGCCAAGCTGGCGGTACCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCCTGGGCCTGGGCATTGAGAGCGCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCTCTTCCTGGTGTGGGCTACACCGTCTGGCCGGGATGGTCTTCTCAAGTGGTGAG
CGGCCTCGCCATTGTCCCTGCCGCCGGAGCCCCGCCGGGAGCCCCGGGCCGGACACAGGCCGCGTCCCCCGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCCTCCCGGGACCAGGCTGTGC
CCCCGATCCTACACCTGAGCCTCAGAGCACTGCTACTTTTTAAATACTTCTTTCTTTAAAGTCTTTACC

4137/5332
FIGURE 3601

GGCGTCGCGCCCTGGGGCCGGGGCCGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTGCGGGATCGGT
CGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTTC
CTGCATGACCAGCTCCGGCACGGGGGCCCTCTCGTCCGATGCTCAGGAGAGCTTGGAAGTCGCCATCCAGTGCCTG
GAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGCG
GCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCAACCCCGCCTTCCGAGGAGGACTCAGCA
GAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAACCTTTGAAGCTGCCGTGCATTTCTAC
GGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGCAGCCTACAGCAAACTCGGC
AACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAGG
ATGGGCCTGGCGCTCTCCAGCCTCAACAAGCAGCTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGAC
CCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCAGCCCCACGGGA
GGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCTGGCTTCATGAGCATGGCTTCGAACCTAATGAAC
AATCCCCAGATTGAGCAGCTCATGTCCGGCATGATTTGGGTGGCAACAACCCCTTGGGAACCTCCCGGCACCAGC
CCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCAGCAGATGCAGCAGCAGAACCCA
GAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCCCAGCGCCAGCAACGACGACCAGCAGGAGTGA

CGCTGCCTGCTCCCGGTGTGACCGCGTCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTCC
TCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTAT
CTCTGCCCTCTCCACTCCCTTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAGC
TGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTCTTCTAGAATCCTGG
GGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTACGTTTACGCCGTGTGGCGGATCGTGTGGCTTCCAAAG
CCTTTTACAGCCCCCGCCCCCATCCCGTGGTCTGTCTGCAGGAACCTCTCCCGTCTGTGAGAAGCCTCTTCCGA
GTGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGGG
CCATGTGTGTTTGCATGAGGAACCTTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTACCCACGCTCCGCG
GCTCAGGAGCCGTCCTGGGTGCATAGGACCAGTTTCTGTGACTTTCTCCAGTTGGGCATGTTGACAGACATGTT
TCCCTCCTCCACCTCATTTTCTGGTCTCGCGACTGAGAGCCAGGGCGACATCATGACCTTCTGTCCCGGC
CGCCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCTTCTGTCTGT
GATGTTTTCATGGGCCCGGGCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCAG
GTGCCACCCACCTTGGCCCTAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGGG
TTCTGAGGCCTGGGGTGGCAGACGAGCCACGGCGCCGTGGTCCCAGCAGCAGGGTTGTGAGTCGGAGCATCC
TGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGGGG
CCGCCGCGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCCACCCGGGGTGCAGGGCGTGACGTGTG
GGGAATAAATAGGCGTTGTGACCTCT

4138/5332
FIGURE 3602

GTGGCGGCGGTTGGGCCGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCGAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCAGGACGAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCCAGGAGTTTGAGGACGTGTCTACGAGAGCAGCTCAAG
GCGCTGGCCGATGTGGAGGTCACTACACAGTTTCAAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTTCAAGGAGTCACTGAGGCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCCGAGAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAAGCTGAACGAGGACACGACCTTCTGCCCTTC
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCTCAAGTACCCCAATTACTTCCCCCTCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCTTCAACTGCCGTTGCAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGTGCGGGCCAGAAAG
TCCGCGCTGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCTAGATGAGCTGGCGCAGAAGCTGAAGCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCGGGGCTGCCCTTCGACGGCCGATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCTGGGGCTGGCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT
GAGGACGTGCGGCTCTACACCGCGAGGGACGCGGCCTCGGGGGAGGTGGTTCGGCAAGTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCTTCAGCCCCGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACCTTACCAAGCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTCCGCAATGTTT
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCCGTTCGACAGATGCTGGAGAAGTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTGCGGCACTACCGCACAGGCAGCGCCGTGCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACACG
CAGACGGACGCAGACCCCGCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTTCGGCCATCTGGCAGGTGGCTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCTGAAACAGCAAGGTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCCGTGACCCC
AAGCAGGACGCTTCTCTCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCGAGCCGAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCCAGTCTGGCTGCGCTCCCGCCGCCCTGGTGCCTTAGCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGTGGCTGAGCGGCTGTCTTGCTCTTGTATTGTCTGTCCCCACC
CGTCTGGGCCACCCGGCTAGAGACGGCGTCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTGCACTAACACGTCTCTCTGGAACGTCCCTTGTCAGGAGACGGCTCTTCTTTGAAATGAGGTCA
TAAAAGGAAAC

4139/5332
FIGURE 3603A

TCTAATCAGGCCCTGGGACGGGACGCCTCTGTCTAGCCGTGAGTGCCCCGCTGCCCTAGCGGTCCCTGGCG
TCCCCGTTCTGTGCGCTCACCTGCGCCGGTAGCGAAGAAATCGCCCCGGGACATGGACTCAGTGGTCTTTGAG
GATGTGGCTGTGGACTTCACCCTGGAGGAGTGGGCTTTGCTGGATTCTGCTCAGAGGGACCTCTACAGAGATGTG
ATGCTGGAGACCTTTCAGAACCTGGCCTCAGTAGATGATGAACTCAATTTAAGGCCAGTGGGTCTGTTCTCAG
CAGGATATTTATGGAGAGAAAATACCCAAGGAATCTAAAATAGCCACGTTACCAGAAAATGTTTCTGGGCCCTCT
GTTTTAGGAAAAATTTGGGACAGTCTTAGCATCGAAGATCAAACCACAAACCAGGGGAGAAAATCTCAGTAGAAAT
CATGGGTTGGAGAGACTCTGTGAAAGTAATGATCAATGTGGAGAAGCCCTCAGCCAGATTCCACATCTTAATCTG
TACAAGAAAATTCACCTGGAGTAAACAGTATGAATACAACACGTACGGAAAAGTCTTCATGCATCGCCGCACA
TCCCTCAAGAATCCCATCACAGTTCACACTGGACACAAACCATATCAGTGCCAGGAATGTGGGCAGGCCTACAGT
TGTCGTTTACACCTAAGAATGCATGTGAGAACCACAAATGGAGAGAGACCCTATGTGTGTAAATTATGTGGGAAA
ACCTTTCTCTGACTTCTCCTCAATCGGCATGTAAGGATTACACTGCTGAGAAAACCTACGAATGTAAGCAA
TGTGGGAAAAGCCTTTATTGACTTCTCAAGTCTTACTAGTCATCTCAGAAGTCACACCGGAGAGAAGCCATATAAG
TGTAAGGAATGTGGGAAAGCTTTTCACTTATCTCAACGTTTTCGAAGACACACAATAACACACACTGGCGAGAAG
CCATATAAATGTAAGGAATGTGCGGAAGCCTTTAGTTATTTCTCAACTTTTTCGAAGACATATGATTTTACACACT
GGAGAGAAGCCACATAAATGTAAGAAATGTGGGGAGGCCTTCAGTTATTTCTTCGGCTTTTTCGAAGACACATGATA
ACACACACTGGAGAGAAAACCTACGAATGCAACAATGTGGGAAAACCTTCATTATCTCCAGTCTTTTTCGAAGA
CATGAAAGGATTACACTGGAGAGAAAACCTACGAATGCAACAGTGTGGGAAGACCTTCATTTATCCCCAGTCC
TTTCGAAGACATGAAAGGACTCATGGTGGAGAGAAAACCTATGAATGCAACCAGTGCGGGAAAGCATTTCAGTCAC
CCCTCTCTTTTCGAGGACACATGAGGGTGCACACTGGAGAGAAAACCTATGAGTGCAAGCAATGTGGGAAAACCT
TTCAATTGGCCCATATCTTTACGAAAACATATGAGAACACATACTAGAGAGAAAACCTATGAATGTAAGCAGTGT
GGGAAAAGCCTTCAGCTTGTCTGCTTGTCTTCGAGAACATGTGAGAATGCACCCTGAAGACAAAATCCTATGAATGC
AAGCTATGTGGGAAAGCTTTCTATTGCCACATATCCTTACAAAAACATATGAGAAGACATACCGCAGAGAAAACCTC
TATAATGCAAGCAGTGTGGGAAAGCTTTTCACTTGGCCTGAACCTTTTTCGAACAACATGTGAGAAGCGCACACTGTA
GAGAAGCCCTATGAATGTAAGGAATGTGGGAAGGTCTTCAAATGGCCATCATCTTTACCAATACATATGAGACTG
CACACTGGAGAGAAAACCTTATCAATGTAAGCATTGTGGGAAAGCATTCAATTGTTCTCATCCTTAAGGCGACAT
GTGAGAATACACACTACAGAAAACAGTATAAGTGTAATGTAGGACATCCTCCTGCAAATGAATTCATGTGCAGT
GCTTCAGAAAAGTCACACCAGGAGAGAGATCTGATCAAAGTTGTAAATATGGTGTGCTTTATGAGTTTCTTAT
CCTGAAAGTGGACACTCAAGGAGTGTGTCTGTAGTTTCAATTTGCAAATAAACATTTAGTTGAAAAATAATTCTCCA
AATACTCTCAGCTATCCTACATGAATTTGAACAGGTAGTTTCTTACGATTACGTAAATAAAACCTTTTCTCTTAGA
GTGTTTTGGACTCATGGATGATTTGAAGTGTATTTTAAATATGCAAGTAGGTTCAAGTTTATTTAATTTCTTAA
ATTGTAACCTGACTTAGTGTGACAGGTATTGGATATTACGTATCTATTATATTTTCCACCTTTTACTGGGAGTA
TTTTTATTGTTTGGCCAGAGGAGCCTTATTCATTTTAAAGAAAGTAGTTGGCAGAAATTTGTAATTATGCAAG
TTGTTTAAAGGAGTATAGCCTCAAATGAATTGTAATTTTAAATGTTTGGCCATTGCTGTTTGTCTTGTCTGTGAT
TGTGAATTGGACAGTAGGCTTTGACTTGTGATGTGACGGAGAAATCCAGAGTTGCAGATAGTTCTTCTGCATTGT
TGTCAGTGTGGGTAGTGTTAGGAACCTTCAATTTGCTGGAATGCATTTCTTTATGGTTCCATGTCCAAATTTACCA
ATAGCAATAACTTGAATGAAATTTAGAATGAAGAAGAAGTAAGTCATCGCTGAGCTTTTGGGGTTCACATTAAATG
GAGATGGACAGATGCATAGGGGCTTTGTGAACATCAACCTTCAGCTTATTTTCCAGATTCTTATTCTGCCAATC
AAGAGTACCATCAAAAGAAACACTTAAAGTGCTTGATTTCCTACTGTGTGAGAGGTGTAGTCTTCTCAGACATCTC
CATTAACCTTGATATTAGGGATATTCTGTGTGGTCACTACCTAGAGTCTGGATTTTTCTCAAAACCTGCGATGA
CCTCTTGACCACTGATTACAGACTGTCTTGTGTTGGCAGTCTCTGAGCTTCTGATTCTCCCGTTCTGTAGATCTTAA
CATATTTGCATGGGGTCTAATTTATATAGTGAACACCTTGTATCTTAATACTTCCAGTGGCTCTGTGATCCTGA
TTCCACCACGAAAGCCACAGTGTGTCAGTCAAAGAAGAAAAACAACATGGGACTTTGTACCCTATTGCATTTT
TAAGTGTGCTGCGAGTCTTATGTGAGAACAATACTTCTCATATATTAGATTTAGGGAGATTCTGTACT
CAGAACTAAATGCAGTTTCTTGATATAGGTTAAATTATTAGGTTTGAATATGTATCATTAAAAATAATGTGGATT
TTGTTTCAAGGAAAACCTTCTGTAGATATTTCTTAGAAATATCCTGTTTAGCTGGGCACAGTAGCTCATGCTGT
AATCCCTGCACTTTGGGAGGCTTGAGGTGAGGAGTTGAGACCAGCCTGGTTAACATGGTGAACCCCTGTCTCTA
CTAAAAACACAAAAATTAGCCAGGCATGGTGGTGAAGTACCTGTAACCCAGCTACTTGGGAGGCTGAGACAGGAG
AAGTGCTTGAACCTAGGAGGCGGAGGTTGCAGTGAAGCAAGATCACACCACTGCACTCCAGCCTGGGAGACGGGG

4140/5332
FIGURE 3603B

AAAGACTCCATCACACAAGCAAG

4141/5332
FIGURE 3604

GCAAGGTCACGTCTGTCCCCACCTTTTCGCCCCCTCACCTAGCTCCCCCAACGCCAAAGACAAGGTTAAGAAAGT
GATATCGCGAAATAGTTTTTTAAAGCATTTTATTGCATTTATGACTTGGAGTTTATGTGAAACCTCAACGGTAT
TAGCCGAACAGCCTGCCGCACCTTCCGGGAGTTCCAGAGTGGGCCTACAACTCCACAGGGCTCCGCGAGCGCCG
GACGGACGGACTACAATTCCCGACAGGCAGCGCGGCTGGCGGGGCGGTTTCGCCGCGGTGCCACAGGACCTCAGG
GCGAGTGCGGGCTGCCCCGCGCGGCGCCCGCAGGACCCCGCGGCTACCCATGCCGAGGTGAGTCCGCGGGAGCC
GCCGCCGCCCGCTCCCGTCCCAGCTGCCGCCCGCGCGGCCCCGCCGCGGCCAGGATGCTGGAGGAAGCGGGC
GAGGTGCTGGAGAACAATGCTGAAGGCGTCTTGTCTGCCGCTCGGCTTCATCGTCTTCTTGCCCGCTGTGCTGCTG
CTGGTGGCGCCCGCTGCCTGCCGCCGACGCCGCGCAGAGTTACCCGTGTACCGCATGCACAGTACGACCTG
CAGGGCCAGCCCTACGGCACACGGAATGCAGTGCCTGAACACGGAGGCGCGCACGATGGCGGCGGAGGTGCTGAGC
CGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCCTACGACGAGTACCAGAAGGCCCTGCGGCAGTCGGCGGGC
GCCGTGGTCATCATCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTGCTCCGGCAATTTCATGGAGATCGAG
CCGGAGATGTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGACGAGGCCCTGCTGTCTATCTAC
AAGCAGACCCAGGCTGCCTCCGCTCCCAGGGCTCCGCCTCTGCTGCTGAAGTACTGCTGCGCACGGCCACTGCC
AACGCTTCCAGATGGTCACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTGGCTGATTGCCAGCGTGGAGGGG
CGGCTGACGGGGCTGGGCGGAGAGGACCTTCCACCATCGTCATCGTGGCCACTACGACGCCTTTGGAGTGGCC
CCCTGGCTGTCTGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCTGGAGCTGGCACGCCTCTTCTCC
CGGCTCTACACCTACAAGCGCACGCACGCCGCCTACAACCTCCTGTTCTTTGCGTCTGGAGGAGGCAAGTTTAAAC
TACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAGCCTGCTTCAGGACAATGTGGCC
TTCGTGCTGTGCTGGACACCGTGGGCGGGGCGAGCAGCCTGCACCTGCACGTGTCCAAGCCGCCTCGGGAGGGC
ACCCTGCAGCACGCCTTCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAAGTTCCCTGAGGTACGGTTCTCCATG
GTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCGCTTCGCCATCCGCCGACTGCCC
GCCTTCACGCTGTCCCACCTGGAGAGCCACCGTGACGGCCAGCGCAGCAGCATCATGGACGTGCGGTCCCGGTG
GATTCTAAGACCCGTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCGAGTCATCTACAACCTGACAGAG
AAGGGGACACCCCGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCAGGAGCAGCTGGACTCGGTGATG
GACTGGCTACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCACCTTCCTCAGCACGCTGGAGCAC
CACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAAGCGGGACCCAGAGTTTGTCTTC
TACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCGTCTTTGACCTGCTCCTGGCTGTTGGC
ATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCTCTACAAGACCGTCCAGAGGCTG
CTCGTGAAGGCCAAGACACAGTGAACAGCCACCCCGAGCCCGGCGGCTCCACAGTCCCTGGGGCC
GAGCACGAGTCGTATGATGGATGCACTGACTGACCGTCTGGGGCTCAGGCTGGTGTGGGATGCAGCCGGCCGAT
GAGAAAATAAGCCATATTGAATGATC

4142/5332
FIGURE 3605

GCAAGGTCACGTCTCTGTCCCCACCTTTTCGCCCCCTACCCCTAGCTCCCCCAACGCCAAAGACAAGGTTAAGAAAGT
GATATCGCGAAATAGTTTTTTTAAAGCATTATTTATGCAATTTATGACTTGGAGTTTATGTGAAACCTCAACGGTAT
TAGCCGAACAGCCTGCCGCACCTTCCGGGAGTTCCAGAGTGGGCCTACAACCTCCACAGGGCTCCGCGAGCGCCG
GACGGACGGACTACAATTCCCGACAGGCAGCGCGGCTGGCGGGGCGGTTCCGCGCGGTGCCACAGGACCTCAGG
GCGAGTGC GGCTGCCCCGCGCGGCGCCCGCAGGACCCCGGCGGCTACCCATGCCGAGGTGAGTCCGCGGGAGCC
GCCGCCGCCGCGTCCCGTCCCAGCTGCCGCCCGCGCGGCCCCGCGCGGCCAGGATGCTGGAGGAAGCGGGC
GAGGTGCTGGAGAACATGCTGAAGGCGTCTGTCTGCCGCTCGGCTTCATCGTCTTCTGCCCCGCTGTGCTGCTG
CTGGTGGCGCGCGCTGCTGCTGCCGCCGACGCCGCGCAGAGTTCACCGTGTACCGCATGCAGCAGTACGACCTG
CAGGGCCAGCCCTACGGCACACGGAATGCAGTGTGAACACGGAGGCGCGCAGATGGCGCGGAGGTGCTGAGC
CGCCGCTGCGTGTCTACTGGACTTCTCCTACGAGCAGTACCAGAAGGCCCTGCGGCAGTCCGCGGGC
GCCGTGGTTCATCATCTGCCAGGGCCATGGCCGCCGTGCCCGAGGACGTCGTCCGGCAATTTCATGGAGATCGAG
CCGGAGATGCTGGCCATGGAGACCGCCGTCCCGTGTACTTTGCCGTGGAGGACGAGGCCCTGCTGTCTATCTAC
AAGCAGACCCGCTGCTCCGCTCCAGGGCTCCGCTCTGCTGCTGAAGTACTGCTGCGCACGGCCACTGCC
AACGGCTTCAGATGGTACCAGCGGGGTACAGAGCAAGGCCGTGAGTACTGGCTGATTGCCAGCGTGGAGGGG
CGGCTGACGGGGCTGGGCGGAGAGGACCTTCCACCATCGTTCATCGTGGCCACTACGACGCCTTTGGAGTGGCC
CCCTGGCTGTGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCTGGAGCTGGCAGCCTCTTCTCC
CGGCTCTACACCTACAAGCGCACGCACGCCGCTACAACCTCCTGTTCTTTGCGTCTGGAGGAGGCAAGTTTAA
TACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAGCCTGCTTCAGGACAATGTGGCC
TTCTGTGCTGTGCTGGACACCGTGGGCGGGGCGAGCAGCCTGCACCTGCACGTGTCCAAGCCGCTCGGGAGGGC
ACCTGTCAGCACGCCTTCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAGTTCCTGAGGTACGGTTCTCCATG
GTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCGCTTCGCCATCCGCCGACTGCCC
GCCTTCACGCTGTCCACCTGGAGAGCCACCGTGACGGCCAGCGCAGCAGCATCATGGACGTGCGGTCCCGGGTG
GATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCGAGTCATCTACAACCTGACAGAG
AAGGGGACACCCCGAGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCAGGAGCAGCTGGACTCGGTGATG
GACTGGCTCACCAACCAGCCGCGGGCGCGCAGCTGGTGGACAAGGACAGCACCTTCCTCAGCACGCTGGAGCAC
CACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAAGCGGGACCCAGAGTTGTCTTC
TACGACCAGCTGAAGCAAGTGTATGAATGCGTACAGAGTCAAGCCGGCCGTCTTTGACCTGCTCCTGGCTGTTGGC
ATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCTCTACAAGACCGTCCAGAGGCTG
CTCGTGAAGGCAAGACACAGTGAACAGCCACCCCGAGCCCGGAGCCCCCGCGCTCCACAGTCCCTGGGGCC
GAGCACGAGTCGTATGATGGATGCACTGACTGACCGTCTGGGGCTCAGGCTGGTGTGGGATGCAGCCGGCCGAT
GAGAAAATAAAGCCATATTGAATGATC

4143/5332
FIGURE 3606

GGCCGCCCCGGCGCCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTTCGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTGTGCCCAGGTCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAACCTATCATCCGACA
GCAGCTCCAAGCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCTTCGCTGCCGGCGGTCAGCGCAGGCACCGGCCCTCCTCTCGCTGTCCGCGCTGGGTTCACAGGCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCTACCCATTCCCGGCTTCCTCCTCCTCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCGTTTTGAACATGTGTAAACCGACAGTCTGCCCTGGGCCACAGCCCT
CTCACCTGGTACTGCATGCACGCAATGCTAGCTGCCCCTTCCCGTCCTGGGCACCCGAGTCTCCCCGACCC
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTCACCACCTCTGCTAGTTCCAGACACCTCCACGCCCAC
CTGGTCTCTCCCATCGCCACAAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAAGATGAGGGTACT

4144/5332
FIGURE 3607

AATGACTCAGTAAGTTTCAGCGCGCCCGCTCCGGCCGGCCCTGCGCCTCCCGCCGCGCCCGGGATGTATTCTGTCCTCC
CGCTCTGCTTCACCCAGGATGAGTTCCACCCGTTTCATCGAGGCCCTGCTGCCTCACGTCCGCGCCTTCGCCTACA
CCTGGTTCAACCTGCAGGCGCGGAAGCGCAAGTACTTCAAGAAGCACGAGAAGCGGATGTCTGAAGGACGAGGAGC
GTGCGGTCAAGGACGAGCTGCTGGGCGAGAAGCCCGAGGTCAAGCAGAAGTGGGCGTCGCGGCTGCTGGCCAAGC
TGCACAAGGACATCCGGCCCCGAGTGCCGCGAGGACTTCGTGCTGAGCATCACCGCAAGAAGGCGCCGGGCTGCG
TGCTCTCCAACCCCGACCAGAAGGGCAAGATGCGGCGCATCGACTGTCTCCGGCAGGCGGACAAGGTGTGGCGGC
TGGACCTGGTCATGGTCATCCTGTTCAAGGGCATCCCGCTGGAGAGCACCGACGGCGAGCGCCTGGTCAAGGCTG
CGCAGTGGGTACCCGGTCTGTGCGTGCAGCCGACCCACATGGCGTGGCCGTCAAGGAGCTGGACCTCTACC
TGGCCTACTTCGTGCGTGAGCGAGATGCAGAGCAAAGCGGCAGTCCCCGGACAGGGATGGGCTCTGACCAGGAGG
ACAGCAAGCCCATCACGCTGGACACGACCGACTTCCAGGAGAGCTTTGTACCTCCGGCGTGTTCAGCGTCACTG
AGCTCATCCAAGTGTCCCGGACACCCGTGGTGACTGGAACAGGACCCAACTTCTCCCTGGGGGAGCTGCAGGGGC
ACCTGGCATAACGACCTGAACCCAGCCAGCACTGGCCTCAGAAGAAGCTGCCCAGCACCTCCTCCAGTGGGAGCA
AGCGGCACAAATCGGGCTCGATGGAGGAAGACGTGGACACGAGCCCTGGCGGCGATTACTACACTTCGCCCAGCT
CGCCCACGAGTAGCAGCCGCAACTGGACGGAGGACATGGAAGGAGGCATCTCGTCCCGGTGAAGAAGACAGAGA
TGGACAAGTCACCATTTCAACAGCCCGTCCCCCAGGACTCTCCCCGCTCTCCAGCTTCACCCAGCACCCCGGC
CCGTATCGCCGTGCACAGCGGGATCGCCCGAGCCACACCCGTCTCCGCTCTGCATTTCCCTACGACGTCCA
TCCTACCCACAGCGCCTCCACCTACTTCCCCACACGGCCATCCGCTACCCACCTCATCTCAACCCCGAGGACC
CGCTCAAAGATCTTGTCTCGCTGGCTGCGACCCAGCCAGCCAGCAACCTGGACCGTCTTGGTATCTGGGATAGC
AAAGGTCTTCTTCCCTCGCCCTTCTCCATCGTCCCAGGAATCCCAGGGGGCAGCACAGCCGGCCCCCGGCCAC
GTTTTCGGTGGAAAATTAGAGTGAACAAGAACACCCCTGCCGACTCCCAGCCCGGCCAAAAGACAAAACACATA
GACGCACACACTCAGGAGGAAAAGAAAAACAAGGCAGAAGAAGAAGAAGAAATAAAAACCCACCCAAGCA
AGAAGACAAAAGGTAAAGACGCAACGTTTCCAACCTCTCGGGACGCCAAGGCCGCAGGACTGGAGGGCCAGGCCCC
GCCACCCCGACGGGAGACCCGGGACAGGGCGTCTTCTTAAGTTATTCATCTCTCTCCGCTGCTGCTCGGGAAG
GACAGACGCCGGCCGCCCGCCCGGCGCCCGGAGGCCCTGGCTCTGTCCGGAGACCAGGTGAGCACAGCCTGGAGC
CTGTGCCCAGGGCCGACAGGCGGACACCCAGCAAGGCCACCTCTCCCCGGGCCCCCGCGCCTCTGCCGGACACG
GACCGGCCCTCAGCCCCACCGAGGACGCAGCCACTGGGGGAAAGGGAGACACAGCGGACCCCGGCCGGGCAG
CGGAGACCGCAGAGGCGGGCAGGGTGGGGCAGGCGAGTGGTGTGCGGGGGTGCGTGGCGCTTGCGAGCCCTGGC
CAGGGGAGGAAGTGAGGCCAGGCACCTGCTGCCCCTCGAGGGGGCCCTGCCTGCCGCGGGGCTCCCCACAAGC
CCCTCCCAAAGCGCCGGCGACTCGCTGTCTCGCTGGGGACTCTTTCAGCCCTCGCGCCCGCCGTTTGGGAGGA
GAAGTCTCTATGCAATTGGCCCCGGCCCCCTCCACCCCCACCCCCGGCATAGGAGGCCCCCCCCACCTCGCCCGGC
TCACACCCCCCACTTCTCTTTAA

4145/5332
FIGURE 3608

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGTCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACTTCCACAGGATTAACGAGAATGAGAAGTCTCCAGTCAGAACCGG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTCACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAAGAAGCTGTCCATGTTGGAGGGCCACACGGCAGCGCTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CAGCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCCATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGCTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGTGGAGACGAGACCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGGTAA

4146/5332
FIGURE 3609

CTGGGCTCAAGTGATCCTCCTGTCTTAGCCTTCCAAAGTGCTGGGATTACAGGTGTGGGCCACCATGCCCAGCCA
CCATCTTGGTTTAAATTCTTTCTTGGAAATGGAGCAAAGGGCTTCACTCTTCTTTTTCATGGCTGCATAGTAT
TCCATAATTGTTTAAACAATTGATAATAGACACTGTATCGGGTGACTGGTATACCCCCAAAATCACATCTGCCC
AGAGCCTCAGGACATGGCCTTGTTTGGAAATCGTGTAGCAGATGCAGCTAAGATGAGGTACCCCGTGTAGGA
TGGCCCCGAATCCAGTGCCTGGCACCCCTTATAAGGAGAGGGAACTTGGACGCAGACAGGAAGGCCGGGTGAAGA
CAGAAGCAGAGACCGGGGGCCAAGGAGTGCTTGGGTTGCCAGAGCCACCACGGGCTGCAAGAGGTGTGGGACA
GACTCTCTCAGCCACAGAAGGGCCCCAGCCCCGACAGGCCCTGGATTTCAGAGGGCGAACATTTCTGTGGCCGAG
CTCCCAGTGCCTTTCAGTCTTGGAGACGGCCGACAGACACATTTGTCTTGGCCTGTCTCCAGGTCTGTAGACC
CCACAGTGAGCGGCCACTGGCCGGAGGGGAACAGGAAGAGCTGGAGGGGACGTCACACACATGAGCCTTTTAGGA
ATAACGAGTGCACAGTCAAGACCCCCAAACCAACACCATGTAACCTGACACCCAGGGAGGGAGGGAGGGAGGGG
CTGGGAGGGGCTCACCTGTAGGGAGGGGCTCACCTGTACAGCGGTGCTGGGAAGCTGGCCTCGAGGGTCCCCGAG
GGGATACAGGGCCGTGCAGCCTCTTGCCTGAGGGTTTGCATGTCTGCCTGGATCCCCGGGCTCCTGCCAGAAGG
CCTCTGAGGGCCACCGTTGACAGCATAAAGGCCACCCAGTGTCTCGGCAACCACGCTGACCACTCCCTCCTCCCAG
CTGCGGGGTGAGGTGGCCTCGAGGGAAGGGCTGGAGAGTCGTTCTGAGTATTTAACTGGGGGTGACACAGTG
TGGGTGGGCAAGGCCAGGGCCACTGCCAGGTGGGGTCCGTGGCCCTGAGCCCCAGCTCTATGCACCCCCACCT
GGGGTCTGGCTTCTCCATCTCCACACCCCTTGAGGGGCTTCTGTCTCCCCCTGCCCTTCGATCGCAGGAGGCA
GTGCCTGGCCGGGGTGCAGGCACCTGTACCCCAGCTCCTCACTCCTCACCACTCACATCCAGTCCGTTTGTA
AAATACACCCAGGATGAGACCTGCACGCAGTGGCTCACAGCAGCACGATTGTGACAGCCCAGGGCGGAGAACAC
CGAACACCCAGTGAAGGTGAGGGGATCAGCACGGCGCCGCCACCGTGCTGGAACGAGACTCAGCCACAAGGAGGT
GCGAAGCTCTGACCCAGGCCACAGTGCGGATGCACCTTGAGGATGTCACGCTCAGTGAGAGACACCAGACACAGA
AGGGTACGCTGTGATCCCACTTCTATGAAATGTCCAGGACAGACCAATCCACAGAATCAGGGAGAGGATTCTGTG
GTGCCGGGACTGGGGAGGGGACCTGGGGGTGACTAGGTGACATAATGGGGACAGGGCTGCCTTCTGGGTGATGA
GAATGTTCTGGAATCAGATGGGATGGCTGCACGGCGTGGTGAAGGTACTGAACGCCACCTCACTGTAAGACGGTA
GATTTTGTATTTTACCACAATAAAACAAAACAAAACAAACC

4147/5332
FIGURE 3610

TTTCCCGAGATCACCAAGATGCTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCACACGCAGAGCATGAGCAGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCTG
GCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCACG
GGCGAAACGCCCACGCTGGGCACTCTGGACTTCTACATGGCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGCC
CAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGGC
GGGCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGTG
CACCCTTTGGGGCCTGGTCCCATCCTGCACCTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATCCC
TTTAGCTTTCAATCTCECCAGCCCCCTGAACCCGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTCAC
AGCCGAGGGTGCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCACAGGACACAGGGCA
GACGAAACCCACCCCGAGCACACGGCAGGACCCCAAAATTACTACTACGGGGGGCTGTGCCATAGGCCACACA
GGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCGCATGCCTGTACCCAGATGGGTGGGGGCCGGCTTTG
CCCATCCTGCTCTCCTCCAGCCGAGGACCCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTTAA
ATAAAAACAAGTAAAATTTGTGTTTAA

4148/5332
FIGURE 3611

AGCGCCACCAGGACGTGCTGCGGCAGAAGCTGTACAAACTGAAGCAGGAGCAGGGCGTGGAGAGCGAGCCGCTGT
TCCCCATCCTCAAGCAGGAGCCCCAGTCCCCAGCCGACGCTGGAGCCTGAGGACGCGGCGCCCCACCCGCCCCG
GGCCCTCCTCGGAGGGCGGCCCCGCGGAGGCCGAGGTGGACGGCGCGACCCGACAGAGGGCGACGGCGACGGGG
ACGGTGAGGGCGAGGGCGAGGGCGAGGCGGTGCTCATGGAGGAGGACCTGATCCAGCAGAGCCTGGACGACTACG
ACGCCGGCAGGTACAGCCCCGCGGCTGCTCACGGCGCACGAGCTGCCACTGGACGCGCACGTGCTGGAACCGGATG
AGGACCTGCAGCGCCTGCAGCTCTCGCGCCAGCAGCTCCAGGTACGCGGAGACGCCAGCGAGAGCGCCGAGGACA
TCTTCTTCCGGCGGGCCAAGGAGGGCATGGGCCAGGACGAGGCGCAGTTTACGCGTGGAGATGCCACTCACCGGCA
AGGCCTACCTGTGGGCCGACAAGTACCGGCCACGCAAGCCGCGCTTCTTCAACCGCGTGCACACGGGCTTCGAGT
GGAACAAGTACAACCAGACGCACTACGACTTTGACAACCCACCGCCCCAAGATCGTGCAGGGATACAAGTTCAACA
TCTTCTACCCCGACCTCATCGACAAGCGCTCCACGCCCGAGTACTTCTGGAGGCCTGCGCCGACAACAAGGATT
TCGCCATCCTGCGCTTCCACGCGGGGCGGCCCTACGAGGACATCGCTTTCAAGATCGTCAACCGCGAGTGGGAAT
ACTCGCACCGCCACGGCTTCCGCTGCCAGTTTGCCAACGGCATCTTCCAGCTGTGGTTTTCACTTCAAGCGCTACC
GCTATCGGCGGTGCACGGCCCTGGGGAACGGCAGGCAGGTGTCTCGGGGGCACAGTAAAGGGGCTTCGGTGAAGC
TGGTGGTCACTCCGGGGCCGCTGTCTGGGCTGCAGGGCCGCGGGTTACGTCCACCTCAGGCCGCATCTTTCTT
TCGCCAGGCCTCAGTTTCTCTATATAAAAGGGGGTCAACATTGAGCCTGCCATGGTGAGCTGAGGAGACACT
GGGACAGGCTGGCCTAGGGTCTGTATGCAACGGAGGGGGCGCTAGGGGCATCTTTCGAGCACGAGGTTGGCCAGC
AGCCGCCAGCTGACCTCACCGTCCAGGCGGACACTCTCCACCGCCCCCTCAGCCAGGCTGGGTGGGGCCCACAGGG
CCTGCCCCAAGTGCGGGCCACACAGGGTGTGTGGAGATGGGCCAGAGGGGCTGGGCTTGGCGGTGCCAGGCTC
GTGAGAAGCAGGAACTCAAGGCCAGCCCTGCCACATCACGGGGCACCCACTGGGCGTGAGGCAGAGCCCGCGGC
TGTGGGGCAGCTCCAGCCCTGCCCACAGGCCACCCTCGCCCGCACAGGCAGCACTGAGGCCGGGACCTTGTGGC
GCCCCATCCGCCACTGCAGAAGAGACCCTCTGTGGACACCCACACTCTGCAGGGACTGGCCCCAACTCACCCCG
TGCTGGCTGGTGGGGTCCATTTCCCCGCGAGCGGTATGGAGGATGCGTCGAGGTCCCTGTCTCTGTCAAGGTCTGT
GGGAACCAAAAGTCACTGAGCCGTCTCCCCCACCTCTGAGCACAGGGCCTGGAGGGCAGGGGCTCCCCGAAGG
CTGGGGGTGGAGAAGGGTGAGGGGCTTCCCCAGGGATCCCCCACCTGGCCTGCTCACGGGGCCTTGGAGCAT
GAGACCAGTGACCCCGAGTTTTGCCCATATCAGGACAGTGGCTCCTTCTCACTCCCCTTTCTCAGGCCAGGAGGG
CCGAGGGCCACACGGGTGCCACAGCCAGGTCCGAGTGGCCAGCCGGCAGGCTTGTTCTTCAGCATCCGACGGG
AACATCTCCAACAGAAGCAAAACGGAAAGTGCCCTCCCGGACCCCCAGAGGGCCACCAACCTCACCAGTCACCAG
CCCCAGACCACCCACAGCCCTCCAGACACCCCGCCTCATCTGGAAATAGTTCCGTTTGTCTCTAAAAAGAC
TTGTAGGTGGGAAAAAAATCTTTTGTCTCATGGAATTGGCCTATTGGCAAGATCGCATGTTTTTTAATAAAC
GTTGTATTTTAGAATAA

4149/5332
FIGURE 3612A

GCGGCGGTTCGAGCTCGGGTCCCCCTCGGGCGCCCCCGCCGCTCCGCGCGCGGCCATGGAGCTGGAGGTACCG
GACGAGGCGGAGAGCGCTGAGGCGGGGGCCGTGCCCTCGGAGGCGGCGTGGGCGGCAGAGAGCGGGGCGGCGGCA
GGTTTGGCTCAGAAGAAGGCGGCCCAACAGAGGTTCTGTCCATGACGGCACAGCCGGGCCCCTGGCCATGGGAAG
AAGTTGGGCCATCGAGGTGTGGACGCATCCGGCGAAACCACCTACAAGAAGACCACCTCCTCCACCCTGAAGGGT
GCCATCCAGCTGGGCATCGGCTACACCGTGGGCCACCTGAGCTCCAAGCCCCGAACGCGACGTGCTCATGCAGGAC
TTCTACGTGGTGGAGAGCATCTTCTTCCCCAGCGAAGGCAGCAACCTCACCCCGCCACCCTTCCAGGACTTC
CGCTTCAAGACCTATGCACCTGTGCGCTTCCGCTACTTCCGGGAGCTCTTTGGGATCCGGCCAGATGATTACTTG
TACTCCCTGTGCAATGAGCCGCTGATCGAGCTGTCCAACCCGGGCGCCAGTGGCTCCCTCTTCTACGTCACCAGC
GACGACGAGTTCATCATCAAGACCGTCATGCACAAGGAGGCCGAGTTCCTGCAGAAGCTGCTCCCTGGCTACTAC
ATGAACCTCAACCAGAACC CGGACGCTGCTGCCAAGTTCTATGGGCTGTA CTGCGTGCAGTCGGGGGGCAAG
AACATCCGCGTCTGGTTCATGAACAACATCCTGCCCCGCGTGGTCAAGATGCACCTCAAGTTCGACCTCAAGGGC
TCCACCTACAAGCGGGCGCGCCAGCAAGAGGAGAAGAGCTTCCCCACCTACAAGGACCTGGACTTCATG
CAGGACATGCCCCGAGGGGCTCCTGTGGACGCCGACCTTCAGCGCCCTGGTCAAGACGCTGCAGCGGGATGC
CTGGTCTTGAAAGTTTCAAGATCATGGACTACAGCCTGTGCTGGGCGTGACAACATCGACCAGCAGCAGCGC
GAGCGGCAGGCGCAGGGCGCCAGAGCACCTCAGATGAGAAGCGGCCTGTGGGCCAGAAGGCGCTCTACTCCACG
GCCATGGAGTCCATCCAGGGTGGCGCGCGCGCGGGGAGGCCATCGAATCGGATGACACGATGGGCGGGATCCCC
GCTGTGAACGGCGCGGGGAGCGGCTGCTGCTGCACATTGGCATCATCGACATCCTGCAGTCTACAGGTTTCATC
AAGAAACTGGAGCACACCTGGAAGGCCCTCGTCCACGATGGGGACACGGTGTCCGTCCACCGCCCCAGCTTCTAT
GCCGAGCGCTTTTTCAAGTTCATGAGCAACACGGTCTTTTGGGAAGAACTCCTCCCTGAAGTCTCGCCCTCCAAG
AAGGGGCGCGGCGGAGCCTTGCTAGCTGTGAAACCGCTGGGGCCACCGCTGCCTTCTCGGCCAGCCAGATCCCT
AGCGAGCGGGAGGAGGCCAGTACGACCTGCGGGGGGCCGAGCTACCCACGCTGGAGGACGAAGGCCGGCCC
GACCTCCTGCCCTGCACGCCACCTTCTTTCGAAGAAGCCACTACAGCCTCCATTGCCACGACTCTGTATCCACA
TCCCTCTCCATTCTGAGCGGTCCCCCTCGGAGACGTGCGAGCAGCCGCGGTACAGGCGGCGCACACAGTCTGCT
GGACAGGATGGCAGGCCGCGAGGAGGCCACCCGCGGAAGAGGATCTGCAGCAGATTACAGTGCAGGTGGAGCCT
GCGTGCAGCGTGGAGATTGTGGTCCCCAAAGAGGAGGACGCGAGGGGTGGAGGCTTCCCCGGCCGGTGCCTCTGCT
GCTGTGAAGTAGAACTGCCAGCCAGGCCCTCAGACGAGGAGGGCGCACCTGCCAGCCAGGCCCTCGGACGAGGAG
GACGCGCCCCGCCACCGACATCTACTTCCCACCGATGAGAGGAGCTGGGTGTA CTCCCCGCTCCACTATAGCGCC
CAGGCCCCCCCCGGCCTCCGACGGCGAGAGCGACACATTAATTTCTATGCAGCCCCGACCCAGAGCCGAGCTCCAC
TTCTGCTCCGGCTGCCCCCGAAGGCGCTGCCACCCCGCTGAGGCCAGAGCTCGGGAGATGCCCCGCTCGCCGC
CCCACCGGACCTCGTCTCCCCCTGCACGGATGCCGACGGCGGGGCCCTCCCCGACAAGCCTCCAGGGCCCCG
GCACCCCGGTTCGGCAGCCTGCCCCCTGTGAGACCCACCTCCCAGCGGCCAATCGCATTTGAGTCTTATTTGGC
ACAGAGACGGAAGCACGTGTGTGCCGTTTTAGGAAAAGAACAAAAAGACACAAACAAACCAACCAGAGGGAGAA
GAGCCCCCTGCCACTGCACTCTTTGGTTCTCTGCTGTGCCTGCCTGTGTCTGAGGAAGAAGCCAGGCTGTTTCG
GGTGGCCTCTGGGGACCTGAGCCCCGGGGGCCCATCGGCCTGCAGAGGGGACGGCTGGGGTCCCCGAGCAACTCT
GCCTCCATCCACGTGGGAAGCGGACCCTCCTGCCCTCAGCTTGGGTTTGGGGGCTCAGTGCAGGACATCTGGCC
TGAACATCGACTGTGGGGACAGCCCTCGCCCTGCCAAGCACTGCGGCCACTCAGCAGCTATGTTCCCGCCGAGT
GGGGCCCTGACGCCCACCTCCCAGGTGCCCTCGAGCAAAAACCTCTGGCGCCTCCAATCCAGACCCACCACAGC
TGGAGGGCCAGGCCTCCTCTTCCCCAGGCTGCCACCCACGCTGGCGGAGCTCAGGGCTGGGGACTTGTCTTCTC
TTCCAACGTAGGCCACTCAGCAACTGGCATGGAGGGCCAGGCAACGGAGACGTTTTCTCCATGGCAGGACAGAG
CGGGAGGCCGGGCCTTGGGCCACAGGAGACCAGCTCAGGGCGGAAGGTGAGGCTCCCCGCCCCCTCCACGTGGAG
ACATGGCCTAGGGGGCCAGGCCGGCTCCACAGGAGTCTCCTTCAGGACTGGTGTGGATGTCCGCCGCTCTTTC
TTGTTTAAGTGATGTGATGTCTCCGAGGAGGGGAGAGAAGACTTTGTTTCCGACTCATCACCTCCAAGAGGGCA
GCGCTCCCAGTGGTGGGACTCAGCCAGACTGCCCTGGGGCAGCTTCTGGGCCGCTGCGCTCAGAGGGTGCTG
GTTGGAGGCCAGAGCTCGGCAGAGTCACCCACCTGCCCTTCCCAGGACCCCTGAGAGGGGCTTATTGGTGATG
GCTGTGGGAATCCCCACTTCCAAGATGTGCCAGGATGTGAGGAGCTGGAGTGAAGCTGCACCTTTGGGAAGA
ATTCTCTCCAGACCTGGCAGAGCTGGTGTGGGGTCTGAGACGGCCGAGAACCTCCCAGGCAGGGCTCTGTGT
TTTGTCTGTTACAACCTCCGATGACGCCACGCCACCCGCTGTTACGTCCCGTCGGCCTCCTGCACAGCCCACA
CGCTGCGCCCCGAAGGCCCTGCTGTGGAGAAGCCGGACCCATCCCCGAGGTCCCCAGCGAGGACACACACTCCA

4150/5332
FIGURE 3612B

CGAGAGCAGCCCCCTCCACTCTGCCCAGGAGAGGGGCCGACCCTCCTCGGGAACCGGCCAGCCGCGTGGCTCCCAG
CATCCATCAGGACAAGCCCACGTGGGGTCCTCCCTGCGTGCTCAGAGGGTCTGTCCAGCCCTGGGAAGCGACCTT
GGCCTCAGTTCACAGCCTGGTGCTCATCTGCTGGCACCAGGGCATCCACCCATCAGCCCCGCCCTGTCCCTCCGA
AGGACACCCAGCAGGCACCCCCCGGGGAGGCAGGGGCAGAGGTCAGAAGGGGTGTCTGGGACCTGGATGGCCAGC
AGGGACAGGGGCATTGTCTCTCAAAGGCCCAACCCCAGAGGCCACACCAGTCTCCAGGGAGTCTCGAGTC
GCCCTGCCCAGAGCCCTGGCACCAGAGACGCCAAGAGCCTGTGGGGTGACTCGGAGCAGCAGGTGTGGCCCCGGG
CGGGCGGCACCGCGTCCAGGGCAGCCTCCCTCCGCTGAGTGACACGGGACACCAGTGCCCGGCCGACGCGCCTTT
GCAGGAGAAATGTGCAAACCTCTGTGGATAACATTTTCCATTCTGTGTTGTCTCCAAGGCCCTTTTGGAG
ATATACTTGGTGTGTGGTTGTGTTTTTGGTTCCTTTTTCAGAGAACTGTAAACCGAGGCTGACGTGCTCCACTGAC
TGTGCCGAGGGGCGGGGCGAGGAGGACGGCAAGACCTATTTATAATATTTAGCGAACTCGGTCTCCCTCAGATCC
CCCGCGAGGGAGGCTGCTGGACCCACCCCGCTGTCCCCATGATAGAAGTCTGTAAATACCTTGGTGACCAATGC
CCACTTCCCCTCCTGGGTACCTCTGATGGCTGCTGTCCACTGAGAACGTGGGCAGTGTCCAAATTCCTGTACTG
TAAAGACTAAAAGGCGTTTGCTCTGAGACTGACAAGGCGGAACTTCCATGTGTCTCCTGCCAGGCTCTGTCCCC
CTACGCCATCCCGACACGTCCCGTTCCCCCGAAACCTGGCTCAGTGCAATACTCCCATTGCCATGGGGTCCTTC
ACCATGGTACTGTCTCCACAGCCCTCAGTCCCCACCCAGGAGAGGCGCCTGCCACCTCCTCCTCATCTCCGGTG
GTTCAATCGCTCCGCTGTCCCCAACCCAGTCCCATTTTTATGGCCAACTGATTCTGAAACAAAATGAACTGC
AAACCTCGTGTGTCTTAACCTCCCCCAGGGATGCCACTCCATTCCCTCCGCCCCGTGGTCTGGTGCGTGACAATCC
AAAGCGCCGAGACGAGGGTGTGTGTCCCTCAAACCCAGAGTGGTGGGCGCCTCTGAAACCATAACAGCCACTCCT
GGCCCCAAACACTGGTTTGCATCCCAGGTTCTCGCCACCTACCCCGCCACACCCCGTCTTTTTAGAGATCTC
TCTAATAAATCGGGTAATAAGC

4151/5332
FIGURE 3613

GGAGCGGGCGCCGGGACCGGGAATCCCCGAGCTGCGCCTTCTGGGGACGCGGCCCGGGCTACGTGCGGGCCGTCC
GTGGGGAGCGGGGTCTCTGGAGGCTGCGCGGGGCTGAGGCGGCCTCGATTGGAAGTGCCTGAAGATGCCGGCCT
AAGCCTGGAGTCCAGGCATGGACTTCCCCACAATTTCCCGATCCCCTTCGGGGCCTCCAGCCATGGACTTGGAGG
GGCCCAGGGACATTCTTGTGCTTCGGAGGACCTCACCCCTGACAGCCAGTGGGACCCTATGCCAGGAGGCCCCG
GCAGCCTCAGTCGGATGGAACCTTGATGAGTCAAGCCTTCAGGAGCTGGTGCAGCAGTTTGAAGCTCTGCCAGGCG
ATCTGGTGGGCCCATCCCCAGGTGGAGCCCCCTGTCCCCTACACATTGCCACAGGCCATGGCCTGGCCTCCCAGG
AGATTGCTGATGCCACGGGCTCCTGTCTGCCGAAGCTGGCCGGGATGACCTGCTGGGCCTCTTGCACTGCGAGG
AATGCCCGCCTTCCCAGACTGGTCTGAAGAGCCTCTAGAGCCTGCCCCCGACTGTTGCAGCCCCCTGAGGACC
CAGATGAGGATTCTGACTCCCCAGAATGGGTGGAGGGGGCCTCTGCTGAGCAGGAGGGCAGCAGGAGCTCAAGCA
GTTCCCCGGAACCTTGGCTGGAGACGGTGCCTCTAGTCACACCTGAAGAGCCACCCGCTGGTGGCCAGAGCCCCG
AGACCCTGGCTTCTTACCCTGCCCCCAGGAGGTGCCTGGTCCCTGTGACCATGAAGACCTCCTGGACGGTGTCA
TATTTGGGGCCAGGTACCTGGGGTCCACCCAGCTGGTGTGCGGAACGGAACCCGCCACCAGCACGCGCATGGCCC
AGGCCCGGGAGGCCATGGACCGCTCAAGGCCCCCGATGGGGAGACCCAGCCCATGACGGAGGTGGACCTGTTG
TCTCCACCAAGAGGATCAAGGTCTTGACAGCGGACTCCCAGGAGGCCATGATGGACCACGCCCTGCATACCATCT
CCTACACAGCCGACATCGGCTGCGTGCTGGTGCTGATGGCGCGGCGGCGGCTGGCACGGAGGCCGGCACCCCAGG
ACCACGGCCGCCGCTCTACAAGATGCTCTGCCACGTATTCTACGCGGAGGACGCCAGCTCATCGCCAGGCCA
TTGGCCAGGCCTTCGCCCGCCGCTACAGCCAGTTCCTACGGGAAAGCGGTATTGACCCAGCCAGGTGGGCGTGC
ACCCGAGCCCAGGCGCCTGCCACCTCCATAATGGGGACCTGGACCACTTCTCCAACAGTGACAACCTGCCGGGAGG
TGCACCTCGAGAAGCGGCGAGGGGAGGGCCTGGGCGTGGCCCTGGTGGAGTCGGGCTGGGGCTCCCTGCTGCCCCA
CAGCCGTGCATGCCAACCTGCTGCACGGGGGGCCTGCTGAGCGCTCGGGGGCCCTCAGCATCGGGGACCGCCTGA
CCGCCATCAACGGGACCAGCCTGGTGGGGCTGCCCTGGCTGCGTGCCAGGCCGCTGTCCGCGAGACGAAGTCGC
AGACGTGGGTGACACTCAGCATCGTCCACTGCCCTCCCCTCACCACCGCCATCATCCACGGCCCCACGCCCCG
AGCAGCTGGGCTTCTGCGTGGAGGACGGCATCATCTGCAGCCTCCTCCGTGGTGGCATCGCCGAGCGTGGGGCA
TCCGCGTCGGCCACCGCATCATTGAGATCAATGGGCAGAGTGTGGTGGCCACGCCACACGCCCCGATCATCGAGC
TGCTCACCAGGGCCTATGGCGAGGTGCATATCAAGACGATGCCAGCTGCCACATATCGCCTCCTTACAGGCCAGG
AGCAGCCCGTGTACCTGTGACACCTCATCCCTTGCCCTGCCACTGTGCCTTCGCCTCCATGGCCCCGAGCCCCA
TCCTGGGCCTGCCCTGGCTGGCCAGGACCCAGCGGTTCTGGTCTGTATGATTTCTTAATATAAAAACAGTAA

4152/5332
FIGURE 3614

GCACCTTGCAAGCTGCCCCGAATACGTCATGGCGACCAAACGCCTTTTCGGGGCTACCCGGACGTGGGCCGGCTGG
GGGGCCTGGGAGCTCCTAAACCCCGCCACTTCCGGAAGACTCCTGGCCCGGATTATGCCAAGAAACAGTTATG
AAGGGGGCCAAATCGGGAAAAGGTGCAGTGACCAGCGAGGCCCTCAAGGACCCCGACGTATGCACAGATCCTGTC
CAGCTCACCACATATGCCATGGGCGTCAACATCTACAAGGAAGGGCAGGATGTACCCCTGAAACCGGATGCTGAG
TACCCTGAATGGCTGTTTCGAGATGAACCTTGGGTCCCCCAAAGACCCTGGAGGAGCTGGACCCCGAGAGCCGGGAG
TACTGGCGCGGGCTGCGGAAACAGAACATCTGGCGCCACAACCGGCTGAGCAAGAACAAGAGGTTGTAGCATGGA
GGGCCCCGCATCGCTGACCCCCACGCCGAGGGCTTGCCGTTTTTCCCGGAGGACGTGGACTTTTGTGAGACAAGAG
GCGGCTCCCCAGCCTGGGTTTCCATGTGACCCACAGTGGGGCTGGACCAGGGCCCTGGAGGCCAATAAAGAGCT
TTCTGGGTAGACCCTATTTCCCTTGGTATTGTCTGGTGTGCGCCTGGCGGGAAGTGGGTCCCTCAGACCCCAGG
GATCCCAGCCTCCACCCAGCCAGTGGTGGGCCGTCTGCAGGTCCCCTGTGCCTCCGGCCCTTGGTGGGCTTCTC
TCCCCAACTCCTGGAATTCCTGACACTGCTCACGAGGCCCCGGCCCCAAATCTCAAGTTGCTGGGTGAGGGGGTT
GTCCTAGCTAAGCCACTCTTGGTTGCAAGGGACTCAAACCTAACTATCTCAAGCCATCAGAGTCAGAAAAGAGGC
TTTATGAGCTTCAAGAA

4153/5332
FIGURE 3615

GTTGCCATTAGGGGACTCCTGAGGTCCTATCTCCAGGCTGCGGTGACTGCACCTTCCCTGGAGTGGAAGCTGCTG
GAAGGCGGACCGGCCGCCATGTCACGTTTCAGGCAGGAGGACGTGGAGGACCATTATGAGATGGGGGAGGAGCTG
GGCAGCGGCCAGTTTGGCGATCGTGCGGAAGTGCCGGCAGAAGGGCACGGGCAAGGAGTACGCAGCCAAGTTCATC
AAGAAGCGCCGCTGTTCATCCAGCCGGCGTGCGGTGAGCCGGGAGGAGATCGAGCGGGAGGTGAACATCCTGCGG
GAGATCCGGCACCCCAACATCATCACCTGCACGACATCTTCGAGAACAAGACGGACGTGGTCCTCATCCTGGAG
CTGGTCTCTGGCGGGGAGCTCTTTGACTTCCTGGCGGAGAAGGAGTCGCTGACGGAGGACGAGGCCACCCAGTTC
CTCAAGCAGATCCTGGACGGCGTTCACTACCTGCACCTCTAAGCGCATCGCACACTTTGACCTGAAGCCGGAAAAC
ATCATGCTGCTGGACAAGAAGCTGCCCAACCCACGAATCAAGCTCATCGACTTCGGCATCGCGCACAAGATCGAG
GCGGGGAACGAGTTCAAGAACATCTTCGGCACCCCGGAGTTTGTGGCCCCAGAGATTGTGAACATATGAGCCGCTG
GGCCTGGAGGCGGACATGTGGAGCATCGGTGTTCATCACCTATATCCTCCTGAGCGGTGCATCCCCGTTCTGGGGC
GAGACCAAGCAGGAGACGCTCACCAACATCTCAGCCGTGAACCTACGACTTCGACGAGGAGTACTTCAGCAACACC
AGCGAGCTGGCCAAGGACTTCATTGCCCGGCTGCTCGTCAAAGATCCCAAGCGGAGAATGACCATTGCCAGAGC
CTGGAACATTCTGGATTAAGGCGATCCGGCGGCGGAACGTGCGTGGTGAGGACAGCGGCCGCAAGCCCGAGCGG
CGGCGCCTGAAGACCACGCGTCTGAAGGAGTACACCATCAAGTCGCACTCCAGCTTGCCGCCCAACAACAGCTAC
GCCGACTTCGAGCGCTTCTCCAAGGTGCTGGAGGAGGCGGCGGCCGCGAGGAGGGCCTGCGCGAGCTGCAGCGCA
GCCGGCGGCTCTGCCACGAGGACGTGGAGGCGCTGGCCGCCATCTACGAGGAGAAGGAGGCCTGGTACCGCGAGG
AGAGCGACAGCCTGGGCCAGGACCTGCGGAGGCTACGGCAGGAGCTGCTCAAGACCGAGGCGCTCAAGCGGCAGG
CGCAGGAGGAGGCCAAGGGCGCGCTGCTGGGGACCAGCGGCCTCAAGCGCCGCTTCAGCCGCTTGAGAACCCTG
ACGAGGCGCTGGCCAAGCAAGTAGCCTCCGAGATGCGCTTCGTGCAGGACCTCGTGCGCGCCCTGGAGCAGGAGA
AGCTGCAGGGCGTGGAGTGCGGGCTGCGCTAGGCGCAGTGGGGTGGGCCAGGCCCCAGGACAGCCGGAGCTCGGC
CTGCGGTGGGGGCGCTTCTGTGGACGCTGCGCCTCCCATCGCCCGGTGCCTGTCTTGCCCAGCGCCACCAGG
CTGGAGGCGGAGTGGGAGGAGCTGGAGCCAGGCCCCGTAAGTTCGCAGGCAGGGGTGGGTGTGGGACGGGGCTGCT
TCTCTACACAGCCTCCACGCTGGCCTTCACCTTCACCCCTGCATCGTCGGTGACCCTGGGACCCTCCAGGCAGCG
TGGCCTGTGGCACCGTGAGGGTTGGGACCCACCGAGGCGCAGAGGCGGCCCGAATGCAGCCCTGGTTTCAGGCCCCG
GAGGAGGGTTTGGCGGTAGTTGCACGGACAATTCGGCGGGGTGCTGCCTGTTGCTGCCATTAGCCCAGGAGGAGG
TCGTGGGACGGGGAGGGTGGGATGGACGGCGGACAGGCAGTCCCCACGCTGCTGGGTGGCGCCGGGCTTGGTGGG
GTCTTCCACTGTGTGCCCTTCTCGCCGAGGCGGTCCCCCGGGTGTGGGGTGCCCTGCTGCGGACTCCTCCGCGA
GCCCCATCGTCGCGCCTGTGGACGCCTAGGCAAGAGCGGCCCTCTGCAGCCAAGAGAAATAAAATACTGGCTTCC
AGAT

4154/5332
FIGURE 3616

ACGGTAGACCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTTCATCGCCACGTGGAC
CATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGCGGGCATCATCGCCTCGGCCGGGGGAGACA
CGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATCTCCCTCTTCTAC
GAGCTCTCGGAGAATGACTTGAACCTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCCTCATCAACCTCATTGAC
TCCCCGGGCATGTGCACTTCTCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCATTGGTGGTGGTG
GACTGCGTGTGAGGCGTGTGCGTGACAGCGGAGACAGTGTGCGGCAGGCCATTGCCGAGCGCATCAAGCCTGTG
CTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCCGAGGAGCTTACCAGACTTTCCAG
CGCATCGTGGAGAACGTGAACGTATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCATGGGCAACATCATG
ATCGATCCTGTCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCTTCACCCTGAAGCAGTTTGCC
GAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCCAAGAAAGTAGAG
GACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCAGCCAACGGCAAGTTCAGCAAGTCAGCCACCAGC
CCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTGTTTGATGCGATC
ATGAATTTCAAGAAAGAGGAGACAGCAAAACTGATAGAGAACTGGACATCAAAGTGGACAGCGAGGACAAGGAC
AAAGAAGGCAAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCCCTGCCGAGACGCCCTTGTGTCAGATGATC
ACCATGACCTGCCCTCCCTGTGACGGCCAGAAAGTACCCTGCGAGCTCCTGTACGAGGGGCCCCGGACGAC
GAGGCTGCCATGGGCATTAAAGCTGTGACCCAAAGGCCCTCTTATGATGTATATTTCCAAAATGGTGCCAACC
TCCGACAAAGGTTCGGTTCTACGCCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTGAAGGTCAGGATC
ATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACAATCTTGATGATG
GGCCGCTACGTGGAGCCCATCGAGGATGTGCCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTGGACCAGTTCTCTG
GTGAAGACGGGCACCATCACCACTTCGAGCACGCGACAACATGCGGGTGATGAAGTTCAGCGTCAGCCCTGTT
GTCAGAGTGGCCGTGGAGGCCAAGAACCCGGCTGACCTGCCAAGCTGGTGGAGGGGCTGAAGCGGCTGGCCAAG
TCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATATCATCGCGGGCGCCGGCGAGCTGCACCTG
GAGATCTGCCTGAAGGACCTGGAGGAGGACCACGCTGCATCCCCATCAAGAAATCTGACCCGGTCTGTCGTAC
CGCGAGACGGTCAGTGAAGAGTCGAACGTGCTCTGCCTCTCCAAGTCCCCAACAAGCACAACCGGCTGTACATG
AAGGCGCGGCCCTTCCCCGACGGCCTGGCCGAGGACATCGATAAAGCGAGGTGTCCGCCGTCAGGAGCTCAAG
CAGCGGGCGCGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCCGAAGATCTGGTGTCTTGGGCCC
GACGGCACCGGCCCCAACATCCTCACCGACATACCAAGGGTGTGCAGTACCTCAACGAGATCAAGGACAGTGTG
GTGGCCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTGCGCTTCGACGTC
CAGGACGTACCCCTGCACGCGGACGCCATCCACGCGGAGGGGGCCAGATCATCCCCACAGCACGGCGCTGCCTC
TATGCCAGTGTGCTGACCGCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAGTGTCCAGAGCAG
GTGGTTCGGTGGCATCTACGGGGTTTTGAACAGGAAGCGGGGCCACGTGTTCCGAGGAGTCCCAGGTGGCCGGCACC
CCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCCCTTTGGCTTACCGCTGACCTGAGGTCCAACACG
GGCGGCCAGGCGTTCCCCAGTGTGTGTTTGACCACTGGCAGATCCTGCCCCGAGACCCCTTCGACAACAGCAGC
CGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCCCTGGACAACCTTC
CTGGACAAATTGTAGCGGCCCTTCTGTCAGCGCCTGCCGCCCCGGGACTCGCAGCACCCACAGCACCCACGTCC
TCGAATTTCTCAGACGACACCTGGAGACTGTCCCGACACAGCGACGCTCCCTGAGAGGTTTTTGGGGCCCGCTGC
GTGCCATCACTCAACCATAACACTTGATGCCGTTTTCTTTCAATATTTATTTCCAGAGTCCGGAGGCAGCAGACAC
GCCCTCTTAGTAGGGACTTAATGGGCCGGTCGGGGAGGGGGAGGCGGGATGGGACACCCAACACTTTTTCCATTT
CTTCAGAGGGAACTCAGATGTCCAAACTAATTTTAACAAACGCATTAAAGAGGTTTATTTGGGTACATGGCCCGC
AGTGGCTTTTGGCCCCAGAAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAAGTCCTGTGCGGT
GTCACCATGAGCACCTCCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTG

4155/5332
FIGURE 3617

AACATGGTGATGAGTTTTTCGAGTCTCCGACCTTCAGATGCTCCTGGGTTTCGTGGGCCGGAGTAAGAGTGGACTG
AAGCACGAGCTCGTCACCAGGGCCCTCCAGCTGGTGAGTTTGACTGTAGCCCTGAGCTGTTCAAGAAGATCAAG
GAGCTGTACGAGACCCGCTACGCCAAGAAGAACTCGGAGCCTGCCCCACAGCCGCACCGGCCCTGGACCCCTG
ACCATGCACTCCACCTACGACCGGGCCGGCGCTGTGCCAGGACTCCGCTGGCAGGCCCCAATATTGACTACCCC
GTGCTCTACGGAAGTACTTAAACGGACTGGGACGGTTGCCCCCAAGACCCTCAAGCCAGAAGTCCGCCTGGTG
AAGCTGCCGTTCTTTAATATGCTGGATGAGCTGCTGAAGCCCACCGAATTAGTCCACAGAACAACGAGAAGCTT
CAGGAGAGCCCGTGTCATCTTCGCATTGACGCCAAGACAGGTGGAGTTGATCCGGAACCTCAGGGAACTGCAGCCC
GGAGTTAAAGCCGTGCAGGTCGTCTGAGAATCTGTTACTCAGACACCAGCTGCCCTCAGGAGGACCAGTACCCG
CCCAACATCGCTGTGAAGGTCAACCACAGCTACTGCTCCGTCCCGGGCTACTACCCCTCCAATAAGCCCGGGGTG
GAGCCCAAGAGGCCGTGCCGCCCATCAACCTCACCCACCTCATGTACCTGTCTCGGCCACCAACCGCATCACT
GTCACCTGGGGGAAGTACGGCAAGAGCTACTCGGTGGCCCTGTACCTGGTGCGGCAGCTGACCTCATCGGAGCTG
CTGCAGAGGCTGAAGACCATTGGGGTAAAGCACCCGGAGCTGTGCAAGGCACTGGTCAAGGAGAAGCTGCGCCTT
GATCCTGACAGCGAGATCGCCACCACCGGTGTGCGGGTGTCCCTCATCTGTCCGCTGGTGAAGATGCGGCTCTCC
GTGCCCTGCCGGGCAGAGACCTGTGCCACCTGCAGTGCTTCGACGCCGTCTTCTACCTGCAGATGAACGAGAAG
AAGCCACCTGGATGTGCCCCGTGTGCGACAAGCCAGCCCCCTACGACCAGCTCATCATCGACGGGCTCCTCTCG
AAGATCCTGAGCGAGTGTGAGGACGCCGACGAGATCGAGTACCTGGTGACGGCTCGTGGTGCCCCGATCCGCGCC
GAAAGGAGCGCAGCTGCAGCCCGCAGGGCGCCATCCTCGTGCTGGGCCCTCGGACGCCAATGGGCTCCTGCCC
GCCCCAGCGTCAACGGGAGCGGTGCCCTGGGCAGCACGGGTGGCGGCGGCCCGGTGGGCAGCATGGAGAATGGG
AAGCCGGGCGCCGATGTGGTGGACCTCACGCTGGACAGCTCATCGTCTCGGAGGATGAGGAGGAGGAGGAAGAG
GAGGAGGAAGACGAGGACGAAGAGGGGCCCCGGCCCCAAGCGCCGCTGCCCTTCCAGAAGGGCCTGGTGCCGCCC
TGCTGA

4156/5332
FIGURE 3618

CCCCTGCCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGCGCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCCCTCGGCTACCCCTCGGCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCCGACGCCGGCCTG
GGCCGCGGCCGCGAGCCCCGGGCTCGCGTAGGCGCCGACCGCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCGGCCGCGGCCCGCGGAGCCCCGATGCTGGCCCCGAGGAAGCCGGTGCTGCCGGCGCTCACCATCAACC
CTACCATCGCCGAGGGCCCATCCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACCTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTCTCACCCAGAAAGCCAAGGTCGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCCTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCTTGACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGGCGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACCTTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCGGAAGGTACC
CCATCCCCCGCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCCCGGGCGCCCCGTACGCGGTACGCGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTCACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAAACCTGCGGTGAACCAG
...CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGAACCTGCCACCGTC
CCTGTCCATGCCCCGCCCTTCCAGCTGAGGACCGTGGCGCCTCCACCCACCCTCCTGCCTCACCCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCGTCTGGCCGGGGTGCTCTGGGGA
CGGGCGACGCTGCTGTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC

4157/5332
FIGURE 3619

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAAACTTTATTGTTCCCGTGGGGCAGTCGAGGATGTCGGTGAATTAC
GCGGCGGGGCTGTGCGCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCTTCGACCCCCGGAGAGCTG
GAGCGGAAGGTGTGGGAACTGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTCCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCC
AAGTTCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAAACTGGCA
GAGCTCCACGGGAACATGTTTGTGGAAGAATGTGCCAAGTGTAAAGACGCAGTACGTCCGAGACACAGTCGTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCCGACCGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCACGCTGGGTACATCGCTGCAGATCCGGCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGAGGCCGCTGTGTCATCGTCAACCTGCAGCCCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTGATGACCCGGCTCATGAAGCACCTGGGGCTGGAGATCCCCGCCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCCGCCCCACCCCCAAGCTGGAGCCCAAGGAGGAATCTCCCA
CGGATCAACGGCTCTATCCCCGCGGCCCAAGCAGGAGCCCTGCGCCCAGCACACGGCTCAGAGCCCGCCAGC
CCCAAACGGGAGCGGCCACACAGCCCTGCCCCCACAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGC
TCACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAACTGTGGATTCTTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTTTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCTCTGGTGCAGTTCGGGAAGAAGCCACACCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAACCTCCTCTGTCCCCAGGGCTCCCTTCTGGGCCCCCTACAGCCACCCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCAGTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGGAAGTCTCAATGCAATAAAAAACAATTTCTTTCTTGCA

4158/5332
FIGURE 3620

CCGCAGCCATGACCCCGCAGCTTCTCCTGGCCCTTGTCCTCTGGGCCAGCTGCCCGCCCTGCAGTGGAAGGAAAG
GGCCCCCAGCAGCTCTGACACTGCCCCGGGTGCAATGCCGAGCCTCTCGGTACCCGATCGCCGTGGATTGCTCCT
GGACCCTGCCGCCTGCTCCAAACTCCACCAGCCCCGTGTCCTTCATTGCCACGTACAGGCTCGGCATGGCTGCCC
GGGGCCACAGCTGGCCCTGCCTGCAGCAGACGCCAACGTCCACCAGCTGCACCATCACGGATGTCCAGCTGTTCT
CCATGGCTCCTACGTGCTCAATGTCACCGCCGTCCACCCCTGGGGCTCCAGCAGCAGCTTCGTGCCTTTCATAA
CAGAGCACATCATCAAGCCCACCCTCCAGAAGGCGTGCGCCTAAGCCCCCTCGCTGAGCGCCAGCTACAGGTGC
AGTGGGAGCCTCCCGGGTCTGGCCCTTCCAGAGATCTTCTCACTGAAGTACTGGATCCGTTACAAGCGTCAGG
GAGCTGCGCGCTTCCACCGGGTGGGGCCATTGAAGCCACGTCTTCATCCTCAGGGCTGTGCGGCCCGAGCCA
GGTACTACGTCCAAGTGGCGGCTCAGGACCTCACAGACTACGGGGAAGTGAAGTACTGGAGTCTCCCCGCCACTG
CCACAATGAGCCTGGGCAAGTAGCAAGGGCTTCCCGCTGCCCTCCAGACAGCACCTGGGTCTCGCCACCCTAAGC
CCCGGGACACCTGTTGGAGGGCGGATGGGATCTGCCTAGCCTGGGGCTGGAGTCCTTGCTTTGCTGCTGCTGAGCT
GCCGGGCAACCTCAGATGACCGACTTTTCCCTTTGAGCCTCAGTTTCTCTAGCTGAGAAATGGAGATGTACTACT
CTCTCCTTTACCTTTACCTTTACCACAGTGCAGGGCTGACTGAACTGTCACTGTGAGATATTTTTTATTGTTTAA
TTAGAAAAGAATTGTTGTTGGGCTGGGCGCAGTGGATCGCACCTGTAATCCAGTCACTGGGAAGCCGACGTGGG
AGGGTAGCTTGAGGCCAGGAGCTCGAAACCAGTCCGGGCCACACAGCAAGACCCCATCTCTAAAAAATTAATATA
AATATAAAATAAA

4159/5332
FIGURE 3621

AAGCCGGAGTCTAGAGCTCCGGGCGCGGGGAGGCGCGGCCATGGCAGCTCCGGAGCCGCTGTCCCCGGCGGGCGG
TGCGGGCGAGGAGGCGCCGGAGGAGGACGAGGACGAAGCGGAGGCCGAGGACCCTGAGCGGCCGAATGCGGGAGC
GGGCGGTGGACGCAGTGGCGGCGGCGGCAGTAGCGTCAGCGGAGGAGGCGGCGGCGGGGCCGGGGCGGGGGG
CTGCGGCGGGCCCCGGGGGCGCGCTCACCAGGCGCGCGGTCACACTGCGGGTGCTCCTCAAAGACGCGCTGCTGGA
GCCTGGCGCCGGGGTGCTGTCCATCTACTACCTGGGGAAGAAGTTCTGGGCGACCTGCAGCCAGACGGAAGGAT
CATGTGGCAGGAGACCGGGCAGACCTTCAACTCACCAGCGCCTGGGCCACCCACTGCAAGAAGCTGGTGAACCC
TGCCAAGAAGTCGGGCTGTGGCTGGGCCTCTGTCAAGTACAAAGGCCAGAACTGGACAAGTACAAGGCCACCTG
GCTCCGGCTGCACCAGCTGCACACGCCTGCCACGGCTGCTGATGAGAGCCCAGCCAGTGAAGGGGAGGAGGAGGA
GTTGCTGATGGAAGAGGAGGAGGAGGACGTTCTGGCAGGGGTCTCAGCAGAGGACAAGAGTCGGAGACCACTGGG
GAAGAGCCCTTCAGAGCCTGCCCACCCGGAGGCCACAACCCAGGGAAGCGGGTGACAGCAAGATCCGGGTTC
GGTCCGCTACTGCATGCTGGGCAGCCGCGACTTGGCCAGGAACCCCCACACCCTGGTGGAAGTAACATCCTTTGC
AGCCATCAACAAGTTCCAGCCGTTCAACGTGGCTGTTTTCTAGCAACGTGCTGTTCTGCTGGACTTCCACAGTCA
CCTGACACGGAGTGAGGTCGTGGGTACCTGGGGGGCCGCTGGGACGTCAACAGCCAGATGCTGACGGTGCTCAG
AGCCTTCCCTTGTCGGAGCCGGCTCGGGGACGCAGAGACTGCAGCTGCCATCGAAGAGGAGATCTACCAGAGCCT
GTTCTGCGGGGCCTGTCCCTGGTGGGCTGGTACCACAGCCACCCACACAGCCCGGCGCTGCCATCTCTGCAGGA
CATCGACGCACAGATGGACTACCAGCTGCGGCTGCAGGGCTCCAGCAATGGCTTCCAGCCCTGCCTCGCCCTGCT
CTGCTCCCCTTACTATTCTGGCAACCCAGGCCCGAGTCCAAGATCTCACCTTTCTGGGTGATGCCTCCTCCCGA
GCAAAGGCCCAGTGACTATGGCATCCCCATGGATGTGGAGATGGCCTACGTCCAGGACAGCTTCCTGACCAATGA
CATCCTTCACGAGATGATGCTGCTGGTGGAGTTCTACAAGGGTTCCTTGCCAGCAGGACGCCCCAAGGACCAGAGCCTGTG
GAGCCAGGAGCACACCTACCTCGACAAGCTTAAGATCTCCTTGCCAGCAGGACGCCCCAAGGACCAGAGCCTGTG
TCACGTCCTGGAACAGGTGTGCGGCGTCCTCAAGCAGGGGAGCTGAGCCTTCCAGGGCAGGGTGGGCTCCAGTTG
TCTTGAGGGTCCGGATGGGCTCAGGTAATAAAGAAACGGAAGCAGCAGCC

4160/5332
FIGURE 3622

GTGCGGTTGCCATGTAATATCCTGGCCGCGCGGGCGCGGAGCGGCTGAGGCGGCGCGGGGCGGGCGCGGAGCT
GGCAAGCGGGTGGCGGAGGCGGCGCCGACGGGGACTGCTGAGGCGCGCAGAGGGTCTGCGGGCGCCCGGGAGCCTG
TCGCTGGCGCGGTCCGGGCGGGAGGCTCGGCGGCGGGCGGCGAGCATGTCGGTGGCGGGGCTGAAGAAGCAGTTCT
ACAAGGCGAGCCAGCTGGTCAGTGAGAAGGTCGGAGGGGCCGAGGGGACCAAGCTGGATGATGACTTCAAAGAGA
TGGAGAAGAAGGTGGATGTCAACAGCAAGGCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCA
ACCCAGCCTCGCGGGCTAAGCTGACCATGCTCAACACGGTGTCGAAGATCCGGGGCCAGGTGAAGAACCCCGGCT
ACCCGCAGTCGGAGGGGCTTCTGGGCGAGTGCAATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTG
GTGACGCATTGCTGGATGCCGGCGAGTCCATGAAGCGCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCA
AGCAGAACTTCATTGACCCCTCCAGAACCTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACTGAAGAAAC
CGAGGGCCCGCCCTGGACTTTGACTACAAGAAGAAGCGGCAGGGCAAGATCCCGATGAGGAGTACGCCAGG
CGCTGGAGAAGTCTCGAGGAGTCCAAGGAGGTGGCAGAAACAGCATGCACAACCTCCTGGAGATGACATCGAGC
AGGTGAGTCAGCTCTCGGCCCTGGTGGATGCACAGCTGGACTACCAACCGGCGAGCCGTGCAGATCCTGGACGAGC
TGGCGGAGAAGCTCAAGCGCAGGATGCGGGAAGCTTCCTCACGCCCTAAGCGGGAGTATAAGCCCCAAGCCCCGGG
AGCCCTTTGACCTTGGAGAGCCTGAGCAGTCCAACGGGGGCTTCCCTGCACCACAGCCCCAAGATCGCAGCTT
CATCGTCTTTCCGATCTTCCGACAAGCCCATCCGGACCCCTAGCCGGAGCATGCCGCCCTGGACCAGCCGAGCT
GCAAGGCGCTGTACGACTTCGAGCCCCGAGAACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTATCACGCTGA
CCAACCAGATCGATGAGAACTGGTACGAGGGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGG
AGGTGCTTGTGCCCCCTGCCGCAGTCACTACCCGTGTCCCCGCCCCGCCCCCTCCGTCCACACTGGCCGGCACCCC
CTGCTGGGTCTCCTGCATTCCACGGAGCCCCTGTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCC
CGGCCCTTGAGGTACTCCCTGAGCAGGACCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCTG
TTTACACTAGCGCTGACTCCCAACGGTGACGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCGCTCCC
CAACTTCTCGCCAGCTGGCCGAGGCGGGGCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAG
CCCCACCTCCGTCTGACCCGACGGGGGCCGGCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGG
GATCGAGGGTCCCCATGGGGTGGCTCAGAGATAGGACCCTGGTTTTAAATCCCTCCAGCCTGGTGCTGGTGATG
GGCCTTGCCCTACTCCAGGGCCAATGCACCCCGCCTCACACACGCACTCCTTCTCCTCAAGGCCAGGGCAGAG
GGCCTCACCGCCTCCCGGGCCTGCTGTGAGCTTGAGCCCGGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACA
GAGAACATGGTCTCCTGCAGGGCCCTGCCTCCCAAGCCCGCCCTCAGAAAGCCAAGTACCTTTTCAGCTTTTAA
ACTGCCCCCATCCCAACCCAGGGAGGCCTGTGTCACTCTGGCACAAGCTGCCACCACCAGCCACCCACCCACC
CCAGCACACCTCACACGGGACCACAGCCGCGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCCA
GCCCCTGGTGGCCAGGCTCCCTTGCTGAGCCGCTGCCACTTACCCTGTGGGAAGTGGCCCCAGCCATCTCCTC
TAGACCAAGGCAGGCAGCCCCGACATCTGCTTCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCT
GGGCCAGGCCACATTACATTCCCCCTCCCCCTGTGGTCCAGTGAAGCCTCCGGACCCAGGCTCTGCTCTGCCCT
GCCCTGCACCCCTCTGTCAGAAGTACATGAGGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCA
AACTGAAATGTACGCCTGAATTTTGTAACAGAAGTATTAAATGTCTCTTTCTAC

4161/5332
FIGURE 3623

GGAGTGC GGGGCGCCCGGGGAGCCGCCACAGCCATCGATTGCAAAGATAGACCAGCTTTTCCAGTTAA
GAAGTTAATACAAGCCCGTCTGCCGTTTAAGCGCCTGAATCTTGTCCCAAAGGGGAAAGCCGATGACATGTCAGA
CGATCAGGGTACTTCTGTGCAAAGTAAAAGCCCGATTAGAGGCCTCTTTGGACACCTTGGAÀACAAGTGTCA
TGTGGGTTCTGACATAGACTTTAGACCGAACTTGTCAACGGGAAGGGTCCCTTAGATAACTTTTAAAGAAATAG
AATCGAAACCAGTATTGGCCAGAGCACAGTCATCATTGATTGACAGAGGACTCGAATGAGCAGCCAGACAGTCT
TGTGGACCACAATAAACTAAATTCTGAAGCCTCTCCCTCCAGGGAGGCAATAAATGGCCAGCGAGAAGACACTGG
GGATCAGCAGGGGTTGTTGAAGGCCATTGAGAACGACAAGTTGGCATTTCCTGGAGAGACCCTTTCAGACATTCC
TTGCAAAACAGAGGAGGAGGGTGTGGCTGTGGAGGTGCAAGGGAGGAGAGGCGACTCCCAGGAATGTTCCGCCACG
GAGCTGCCCGGAGCTGACGAGTGGCCCGAGAATGTGCCCCAGAAAGGAGCAGGACAGTTGGAGTGAAGCTGGGGG
CATCCTGTTCAAAGGGAAGGTGCCTATGGTGGTCTTGCAAGGACATCTTGGCTGTGAGACCACCGCAAATCAAGTC
CCTTCCAGCCACACCCCAAGGCAAGAACATGACCCCTGAGAGTGAGGTGCTGGAATCTTTCCCGAAGAAGACTC
TGTA CTAGCCATTCTGCTCCCTGAGCTCTCCCTCTTCCACCAGCTCGCCCCAGGGGCGCCTGCTCCCCAAAGCA
GCACAGCTACCATGAGTCCCTTCCCCACCTCCACGCCCTCCGCAGAATAACTAAGAAATTCGTCAAAGGCTCTAC
AGAGAAGAACAAGCTCAGACTGCAAAGAGATCAGGAGCGTCTGGGCAAGCAGCTCAAGTTACGTGCAGAAAGGGA
AGAAAAGGAGAAGCTGAAAGAGGAGGCCAAGCGGGCCAAGGAGGAGGCCAAGAAGAAGAGGAGGAAGAGAAGGA
GCTTAAGGAAAAGGAGAGGCGGGAGAAGCGGGAGAAGGATGAGAAGGAGAAGGCGGAGAAGCAGCGGCTCAAGGA
GGAGCGGCGCAAGGAGAGACAGGAAGCCCTGGAGGCTAAACTTGAGGAAAAAGGAAAAAGGAAGAGAAGAACG
GTTAAGAGAAGAAGAGAAGCGCATTAAAGCAGAGAAGGCCGAAATCACGAGGTTCTTCCAGAAACCAAAGACTCC
ACAGGCCCCCAAGACCCTGGCCGGCTCCTGTGGGAAGTTTGCCCCCTTTGAAATTAAAGAGCACATGGTCTTGGC
CCCTCGGCGTCGGACCGCTTTTCCATCCAGACCTCTGCAGTCAGCTGGACCAGCTCCTCCAGCAGCAGACGGCGGA
GTTCTCCTTCTTGAAAGACCTCAAAGGCCGGCAGCCCTGAGGTCCGGACCCACGCACGTTTCCACCCGGAATGC
AGATATTTTAAACAGTGATGTCGTCATCGTGGAGCGTGGGAAGGGCGACGGTGTTCCTGAGAGGAGGAAGTTTGG
CAGGATGAAGCTCCTGCAGTTCTGTGAGAACCACCGGCTGCCTACTGGGGTACCTGGAATAAGAAGACGGCACT
CATCCGCGCGGAGACCCCTGGGCCCAGGACACGAAGCTCCTGGACTATGAGGTGGACAGTGATGAGGAGTGGGA
AGAAGAGGAGCCTGGGGAGTCCCTGTCCACAGTGAGGGGGATGATGATGACGACATGGGAGAGGATGAAGATGA
GGACGATGGTTTCTTGTGCCCCATGGGTACCTGTCTGAGGACGAAGGTGTGACAGAGGAGTGTGCCGACCCTGA
GAACCATAAGGTCCGCCAGAACTGAAGGCCAAGGAGTGGGACGAGTTCTTGGCTAAGGGGAAGCGCTTTCGCGT
CCTGCAACCTGTGAAGATCGGCTGCGTGTGGGCGGCTGACAGAGACTGCGCAGGCGATGACCTGAAGGTACTGCA
GCAGTTCGCAGCCTGCTTCTTGGAGACCCTGCCGGCCAGGAGGAGCAGACGCCCAAGGCCTCCAAGCGGGAGAG
GAGAGACGAGCAGATCCTGGCCAGCTGCTGCCGCTCCTGCACGGCAATGTGAACGGGAGCAAGGTATCATCCG
GGAGTTCCAGGAGCACTGCCGCCGGGACTGCTCAGCAACCACACCGGCAGCCCGGGAGCCCTCCACCACCTA
CCTGCACACCCCAACCCAGCGAGGATGCCGCCATCCCTCTAAGTCCCGGCTCAAGCGGCTCATTTCCGAGAA
CTCAGTGTATGAGAAGCGGCTGACTTCAGGATGTGCTGGTACGTGCACCCGCAGGTGCTACAGAGCTTCCAGCA
GGAGCACCTGCCCGTGCCGTGCCAGTGGAGCTATGTGACATCGGTGCCCTCGGCCCCAAAGAGGACAGTGGCAG
CGTCCCTCCACGGGGCCAGCCAGGGCACTCCCATCTCGCTGAAGAGGAAGTCAGCGGGCAGCATGTGCATCAC
CCAATTATGAAGAAGCGCAGGCACGACGGCCAGATTGGTGTGAAGACATGGACGGCTTCCAGGCAGACACGGA
GGAGGAGGAAGAGGAGGAGGGCGACTGTATGATCGTGGATGTCCCGATGCTGCGGAGGTCCAAGCCCCGTGTGG
AGCCGCTTCCGGAGCTGGGGGTGGTGTGGGGGTGGACACGGCAAGGCCACCCTGACCTCGAGCCCACTGGGTGC
ATCCTGAGAGCAGGGGTGACGTATGTAGAATGCTTAGGGTGTCTCCCAAGTGTGCAGAGTTCTATATAGGATGCTGG
ATTCTGTGTAAAGAGCACTTTGTCTGCTTACGGACCTCCCCAAAGTGTGCAGAGTTCTATATAGGATGCTGG
ATTAGTTCCTTTGATATTTGTAATAATCCCCAAGAGCCGCATATGAATCTGCCCTTTAATAAAGCATTATTGA
GATTGCTGGCCTATTGGGGAAGCCTGCGGGCACAGGA

4162/5332
FIGURE 3624

TTTTCTTCCGGTGGCTGGTCTCCGGCGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCGCCCCCGCGGCCCCC
GCCGCCGGGCCAGCCGCCACCAATGAAGAAATTCTTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCCGTGAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCACAAAGAGAAGCCCAACCAGCCAGCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCCGCCCTAGCCCCGGCTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACTTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCACCTGGCTGTG
CCTGGCGTGTAATTACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAACTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCAGAAGGTGTGCTTCCCGCCAGGATCAGGAGGACCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGGCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGC GCGCC
AAGCTGGACAGGCAGCGCCGCGTCTTCCAGCCCTCGCCCCTGGCCTCGCAGTTCGAACTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGCGGTGTACGGGTTCGTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCCTG
GCCTTGAACGAGTGCGGGCTGGTGCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGCCGAGCCGGACTCCATCCTGAAACCCGAGCTCCTGTCAGCCATCGAGAAGCTCTTGGAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTCTCTCCCCGCCACCCAGGGCCT
CCAAGCCACCTCTGGAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCGAGGGAGAGGCCTGGGGAC
ACCAAC

4163/5332
FIGURE 3625

CGCCGCTGCAGCCGCTTTCCGCGGCCTGGGCCTCTCGCCGTCAGCATGCCACACGCCTTCAAGCCCCGGGGACTTG
GTGTTTCGCTAAGATGAAGGGCTACCCTCACTGGCCTGCCAGGATCGACGACATCGCGGATGGCGCCGTGAAGCCC
CCACCCAACAAGTACCCCATCTTTTTCTTTGGCACACACGAAACAGCCTTCCTGGGACCCAAGGACCTGTTCCCC
TACGACAAATGTAAAGACAAGTACGGGAAGCCCAACAAGAGGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAG
AACAACCCCCACGCCAGCTACAGCGCCCCCTCCGCCAGTGAGCTCCTCCGACAGCGAGGCCCCGAGGCCAACCCC
GCCGACGGCAGTGACGCTGACGAGGACGATGAGGACCGGGGGTTCATGGCCGTCACAGCGGTAACCGCCACAGCT
GCCAGCGACAGGATGGAGAGCGACTCAGACTCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCT
GCGCTAAAGATGTCCGTCTCGAAACGAGCCCCGAAAGGCCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCCATCC
GAAGAGGAGAACTCGGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACAGGACTTCACACCTGAGAAGAAAGCA
GCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGGACGGAAAAAAGAAGGCGCCATCAGCCTCCGACTCCGAC
TCCAAGGCCGATTTCGGACGGGGCCAAGCCTGAGCCGGTGGCCATGGCGCGGTGGCGTCTCCTCCTCCTCTTCC
TCTCCTCCTCCGACTCCGATGTGTCTGTGAAGAAGCCTCCGAGGGGCAGGAAGCCAGCGGAGAAGCCTCTCCCC
AAGCCGCGAGGGCGGAAACCGAAGCCTGAACGGCCTCCGTCCAGCTCCAGCAGTGACAGTGACAGCGACGAGGTG
GACCGCATCAGTGAGTGAAGCGGGCGGACGAGGCGGGAGGCGCGAGCTGGAGGCCCGGCGGCGGAGAGCAG
GAGGAGGAGCTGCGGCGCCTGCGGGAGCAGGAGAAGGAGGAGAAGGAGCGGAGGCGGAGCGGGCCGACCGCGGG
GAGGCTGAGCGGGGACGCGCGGCAGCAGCGGGGACGAGCTCAGGGAGGACGATGAGCCCGTCAAGAAGCGGGGA
CGCAAGGGCCGGGGCCGGGTCCCCCGTCTCCTCTGACTCCGAGCCCCGAGGCCGAGCTGGAGAGAGAGGCCAAG
AAATCAGCGAAGAAGCCGAGTCTCAAGCACAGAGCCCGCCAGGAAACCTGGCCAGAAGGAGAAGAGAGTGCGG
CCCAGGAGAAGCAACAAGCCAAGCCCGTGAAGGTGGAGCGGACCCGGAAGCGGTCCGAGGGCTTCTCGATGGAC
AGGAAGGTAGAGAAGAAGAAAGAGCCCTCCGTGGAGGAGAAGCTGCAGAAGCTGCACAGTGAGATCAAGTTTGCC
CTAAAGGTGACAGCCCGGACGTGAAGAGGTGCCTGAATGCCCTAGAGGAGCTGGGAACCCTGCAGGTGACCTCT
CAGATCCTCCAGAAGAACACAGACGTGGTGGCCACCTTGAAGAAGATTTCGCCGTTACAAAGCGAACAAGGACGTA
ATGGAGAAGGCAGCAGAAGTCTATAACCCGGCTCAAGTCGCGGGTCTCGGCCCAAAGATCGAGGCGGTGCAGAAA
GTGAACAAGGCTGGGATGGAGAAGGAGAAGGCCGAGGAGAAGCTGGCCGGGGAGGAGCTGGCCGGGGAGGAGCTG
GCCGGGGAGGAGGCCCCCCAGGAGAAGGCGGAGGACAAGGCCAGCACCGATCTCTCAGCCCCAGTGAATGGCGAG
GCCACATCACAGAAGGGGGAGAGCGCAGAGGACAAGGAGCACGAGGAGGGTTCGGGACTCGGAGGAGGGGCCAAGG
TGTGGCTCCTCTGAAGACCTGCACGACAGCGTACGGGAGGGTCCCGACCTGGACAGGCCTGGGAGCGACCGGCAG
GAGCGCGAGAGGGCACGGGGGACTCGGAGGCCCTGGACGAGGAGAGCTTCAGSCCGGGCAGCCAGGCCAGCCCC
CCGCCCGAGCTCAGGCTGCCCTCTCCTTCCCCGGCTCGCAGGAGAGCAGAGCAGAGAACTGTGGGAACGCTGT
GCTGTTTGTATTTGTTCCCTTGGGTTTTTTTTTCTGCCTAATTTCTGTGATTTCACCAACATGAAATGACTA
TAAATGGTTTTTTAATG

4164/5332
FIGURE 3626

CCCCGGCCCCGGCTCCGGCGCTGCTCCCACCGCCGCGGCAACGGCCCCGGCCCACGGAGGCGGCTGGACGGACCC
CCGACGGTTGGACGTACGGACTCTGCTTCGAGAGTAGGCCATGGACACCTTCAGCACCAAGAGCCTGGCTCTGCA
GGCGCAGAAGAAGCTCCTGAGTAAGATGGCGTCCAAGGCAGTGGTGGCCGTGCTGGTGGATGACACCAGCAGTGA
GGTGGCTGGATGAGCTGTACCGCGCCACCAGGGAGTTCACGCGCAGCCGCAAGGAGGCCAGAAAGATGCTCAAGAA
CCTGGTCAAGGTGGCCCTGAAGCTGGGACTGCTGCTGCGTGGGGACCAGCTGGGCGGTGAGGAGCTGGCGCTGCT
GCGGCGCTTCCGCCACCGGGCGCGTGCCTGGCCATGACGGCCGTGAGCTTCCACCAGGTGGACTTCACCTTCGA
CCGGCGCGTGCTGGCCGCCGGGCTGCTCGAGTGCCGCGACCTGCTGCACCAGGCCGTGGGTCCCCACCTGACCGC
CAAGTCCCACGGCCGCATCAACCACGTGTTCCGGCCACCTAGCCGACTGCGACTTCCTGGCTGCGCTCTACGGCCC
CGCCGAGCCCTACCGCTCCCACCTGCGCAGGATCTGCGAGGGCCTGGGCCGGATGCTGGACGAGGGCAGCCTCTG
AACCCCGGCGCCGCCAACC GCGCCCCCTCGCGCCTTTTGGGGCTCTCCTGCTGGGCGCGGGTGGGGTTTGTGGGT
TTTTTTCCACCTCTTTTCTCCCAATCGGACTCCGGCCAAACTCCCCTAGACAGATGGGTGACCTGTCTCCTTTGA
GAGGATGCTGAGGCATCTGTAGCAGCTGTTTCAAACACCAATGTCACCTCTCCTCCTGGCCCCCGCCCAATGGGG
AGAGGAATTTGGGGCCCTACTCTGGGGACCACCTTTCACCCGTTTGTACTTTCTGGGCCACGCCGACCCTGGGT
CGCTTGATGTAAAGCCAAAAGCTGCTGCCTCCCACTTGGATCATGTGCGCTGGGATTTTCATCCCTCGCACAAG
GACTACGGGTTACACGGTGAAGTGGGGGAAGGAAGTGTTAGGGGGCAAGTCGCGGCACCCCCCTTCCATAAA
CTCACGTCTTAACCCCCAGGACCTCAGAAGATGATCTGATTTGGAAATAGGATCATTACAGATGGAATTAGTTCA
GATGATCTCATCTTGGAGTAGGGTGGGCCCCAATTCAAGGACTGGGTCCTTAAAAAAGGGGGCCTGGGGCAGG
GCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCTGAGGCGGGCGGATCACGAGGTCAGGAGATCGAG
ACCATCCTGGCTAACACGGTGAACCCCATCTCTACTGAAAATACAAAAAATTAGCTGGGCATGGTGGCACATGC
CTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGATAATCACTTGAACCAGGAGGAGGAGGTTGAGTGAGCCGA
GATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAGAAGCGGGGGAGTGGGGGA
TTGAGGCCACGTGCAGTGGCTCACTACTCTAATTCAGCACTTTGGGAGGCCGAGGCAGGAAGATTGCTTGAAGT
CAGAAGTTCAAGACCAGTCTGGGCAACATGGTGAGACCCCTCGTCTCTACAAAAAATAATTATCGTGGTGGGCCG
GGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACAAGGTCAAGAGATCGA
GACCATCCTGGCCAACATGGTGAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGTTCGCTGC
CTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGCAGGTTGCAGGGAGGCG
GAGGTTGCAGTGAGCCGAGATTGCACCACTGCACTTCAGCCTGGTGACAGAGCGAGACTCGTCTCAAAAAA
AAAAAAAAAAAAAAAAAAGTACTGTGGTGGTGACACGTATAATCCCAGCTACTTGAGAGATGACGAGGGAAGA
TCACTTGAGCCAGGAGTTAAGAGGCTGCAGTGACCGATGATCATGCCACTGCACTCCAGCTTGGGTGAGAGTGG
GACTCTGTCTT

4165/5332
FIGURE 3627

GTCTACCCGCCCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCCAGCGGAGGGTGGAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCCGGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAACT
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

AAGTGTGCTTGAGCCGGCGGGTCCCTGTGTCCGCCGCGGCTGTCTGTCCTCCCGCTCCCGCCACTTCCGGGGTCGA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCAGTCCGGCCGCCGCCAC
GTCCCGGTCTGTGTCCACGCGCTGCAGCTGGAATGGAGGCTCTCTGGACCCCTTTAGAAGGCACCCCTGCCCTCT
GAGGTCAGCTGAGCGGTTAATGCGGAAGGTTAAGAACTGCGCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGTGAATTCGAGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGACG
CGCCACAGATGACCCGGCCGCCCGCTTCCAGGTGCAGAAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGTCAGAAGACGGATGAGTC
TGGGCCCCACTCCCACCGCCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAACTCCCTCCTCTACTCTGA
GATTCCCAAGAAGGTCCGGAAAGAGGCTCTGCTGCTCCTGTCTTGGAAAGCAGATGCTGGATCATTTCAGGCCAC
GCCCCACCATGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCCTGGGGGTCTTCGGCATCAC
CTCTACGACTTCCACAGCGAGAGTGGCCTCTTCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCCGCAGCG
CGGCAAGAACGGCTTCATGGTGTCCCCTATGAAACCGCTGGAAATCAAGACCCAGTGTCTAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCCTGCCTTCTTCTCCTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGGTTTATCCAATGTCTTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGGCCACAGCCTCTTGGGA
AGGTTTCAGAGGGCCTCAAGACGCTGCGAATCCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCATTACGT
CCCCCTCTCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCAGGACAGGAGCAAGAATCCCAAGAT
TGCCTTGAAACTGCGTGTAGTTTCCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGTGTGA
GCCCTTCAGCTGCTGTGTTCGCGAAGGTGGAGTACATCGCCAGGGCCGGGTGGACCCGGGATGGCAATAACGCTG
GGCCATGTCTCTGGACCGGGCCAGCAGTGGCTCCAGTCTGCTCCTCCTCCCCCGGCCCTGTTTCATCCCAGCAC
AGAGAAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACAGGGA
GGTCACCAACGTCTGGATCAATGTTTCATGACATCTTCTATCCCTTCCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTTCTCCGCGCCAATGAATGCAAGACCGGCTTCTGCCATTGTACAAAGTCACCGCCGTTTTTAAATCCAGGG
CTACGATTGGAGTGAGCCCTTCAGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCGCTGGAGCACCACTCTACGTGGTCAGCTATGAGGCGGCCGGCGAGATCTGACG
CCTCACCACGCCCCGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTCTGTGAGCCACTACAGCAG
CGTGAGCACGCGCCCTGCGTGCACGTCTACAAGCTGAGCGCCCCGACGACGACCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCGCCGATTATGTTCTCCAGAGATCTTCCATTTCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCTTGCAGCCAGGGAAGAAGCACCCACCGT
CCTCTTTGTATATGGAGGCCCCAGGTGCAGCTGGTGAATAACTCCTTCAAAGGCATCAAGTACTTGCGGCTCAA
CACACTGGCCTCCCTGGGCTACGCCGTGGTTGTGATTGACGGCAGGGGCTCCTGTGACGAGGGGCTTCGGTTCGA
AGGGGCCCTGAAAAACCAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCCTGCAGTTCTGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCTACGGGGGCTTCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGGTGCCCCGGTCACCGTCTGGATGGCCTACGACACAG
GTACACTGAGCGCTACATGGACGTCCCTGAGAAACAACCAGCACGGCTATGAGGCGGGTTCGCTGGCCCTGCACGT
GGAGAAGCTGCCCAATGAGCCCAACCGCTTGCTTATCCTCCACGGCTTCTGGACGAAAACGTGCACTTTTTCCA
CACAACTTCTCTGCTCTCCAACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTTCGTGCCCCGAGTCGGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCCACCGGGAGCCGCCACATCACAGCACAAGTGGCTGCAGCTCCGCGGGGAACAGGCGGGAGGGACTGAG
TGGCCCCGCGGGCCCCAGTGAGGCACTTTGTCCGCCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTACCAGC
CCCGACGCCTTTTATCCTTTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGA
TGGTGGTCTCGGGCCAGCCCCCTCCTCTCCCCGCTTCTGGGAGGAGGAGTTCACAGCTGATGGAGCAGTGGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCTGGGGCTCCCTGTGACCTCTCAGTCCCCTGGCCCCGCC
AGCCACCGTCCCCAGACCCCAAGCATGCAATTGCTGTGCCCCCGCCAGCCTCCCCAACCTTGATGTTTGTGTT
TTGTTTGGGGGATATTTTTTATAATTATTTAAAGACAGCCGCGCGCGTGGCTCACGTCTGTAATCCAGCA
CTTTGGGAGGTGAGGCGGGCGGATCACCTGAGGTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCC
GTCTCTACTAAAAATACAAAAAATTAGCCGGGTGTGGTGGCGCGTGCCTATAATCCAGCTACTCGGGAGGCTGA

4167/5332
FIGURE 3628B

GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGTTGCAACCCAGCACCTGGTAGGCTCCATTTCTTCCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCCTCCCCAGCCC
AGCCGCCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAA
AAGAAAAGAAAAAAAAAAAAAA

4168/5332
FIGURE 3629A

GGGGGACGGTGAAGGTTGCCTCCCGCCCGTCCGGGCTCTGATCCTCCGTCTCCCCGTCCCCGGCGGGCCGGCCCA
TGGCCTGGCGGAGGCCCGAACCATGGACCTCCGCACCGCCGTGTACAACGCCGCCCGTGATGGCAAGCTGCAGCT
GCTCCAGAAGCTGCTCAGCGGCCGGAGCCGGGAGGAAGTGGACGAGCTGACGGGCGAGGTGGCCGGCGGGGGAAC
GCCGCTACTCATCGCCGCCCGCTACGGCCACCTGGACGTGGTGGAGTACCTGGTGGACCGGTGCGGCGCGAGCGT
GGAGGCCGGTGGCTCGGTGCACCTTCGATGGCGAGACCATCGAGGGCGCGCCGCCGCTGTGGGCCGCTCCGCAGC
CGGCCACCTGGACGTGGTGGGAGCCTGCTGCGCCCGCGGGCCTCGGTGAACCGCACCAACGCGCACCAACTCCAC
GCCTCTCCGCGCCGCTGCTTCGACGGCCACCTGGAGGTGGTGGCTACCTGGTGGCGAGCACCAGGCCGACCT
GGAGGTGGCCAACCGGCACGGCCACACGTGCCTCATGATCTCGTGCTACAAGGGCCACCGTGAGATCGCCCGCTA
CCTGCTGGAGCAGGGCGCCAGGTGAACCGCGCAGCGCCAAGGGCAACACGGCCCTGCATGACTGCGCCGAGTC
CGCGAGCCTGGAGATCCTGCAGCTGCTGCTGGGGTGCAAGGCCCGCATGGAACGTGACGGCTACGGCATGACCCC
GCTGCTCGCGGCCAGCGTGACGGGCCACACCAACATCGTGGAGTACCTCATCCAGGAGCAGCCGGCCAGGAGCA
GGTCGCAGGGGGAGAGGCTCAGCCTGGGCTGCCCCAAGAAGACCCCTCCACCAGCCAGGGGTGTGCGCAGCCTCA
GGGGGCTCCGTGCTGCAGCTCCTCCCCAGAGGAACCACTGAACGGGGAATCTTACGAAAGCTGCTGTCCACCAG
CCGGGAAGCTGCCGTGGAAGCCTTGAATTGCTGGGAGCTACGTATGTGGATAAGAAACGAGATCTGCTTGGGGC
CCTTAAACACTGGAGGCGGGCCATGGAGCTGCGTCACCAGGGGGGCGAGTACCTGCCAAACCGGAGCCCCACA
GCTGGTCTGGCCTATGACTATTCCAGGGAGGTCAACACCACCGAGGAGCTGGAGGCGCTGATCACCGACCCGGA
TGAGATGCGCATGCAGGCCCTGTTGATCCGGGAGCGCATCCTCGGTCCCTCGCACCCGGACACTTCTATTACAT
CCGTTACAGGGGTGCCGTGTACGCCACTCGGGCAATTTGAGCGCTGCATCCGCTTGTGGAAGTACGCCCTGGA
CATGCAACAGAGCAACCTGGAGCCTCTGAGCCCCATGACCGCCAGCAGCTTCTCTCCTTCGCGGAACCTTCTTC
CTACGTGCTTACAGGACCGGGCCGCCAAAGGCAGCCTGGGCACCCAGATCGGCTTTCAGACCTCATGGGGGTTCT
CACCAAGGGGTCCGGGAAGTGAACGGGCCCTGCAGCTGCCAGGGAGCCCGGAGACTCAGCCCAGTTACCAA
GGCGCTGGCCATCATCTCCACCTGCTTACCTGCTGGAGAAAGTGGAGTGCACCCACGCCAGGAGCACCTGAA
GCACCAGACCGTCTA¹CGCCTGCTCAAGTGC²CGCCAGGGGCAAGAACGGCTTACCCCTCTGCACATGGCTGT
GGACAAGGACACCACAAACGTGGGCCGCTATCCCGTGGGCAGATTCCCCTCCCCTGCACGTGGTCAAAGTGTGCT
CGACTGCGGGGCCGACCCGGACAGCAGGGATTTTACAACAACACCCCGCTACACATAGCAGCCCAGAACAACCTG
CCCGGCCATCATGAATGCCCTGATCGAAGCAGGGGCCACATGGACGCCACCAATGCCTTCAAGAAGACGGCCTA
CGAGCTGCTGGACGAGAAGCTGCTGGCCAGGGGTACCATGCAGCCCTTCAACTACGTGACCCTGCAGTGCCTTGC
GGCCCGGGCCCTGGATAAGAACAAGATCCCTTACAAGGGCTTCATCCCGGAAGATCTGGAGGCGTTTCATCGAAT
GCACTGACCCTGCCAGAACGCCTGCACCCTCACCTCTCCCCTCTCCTGCTGAGATGGGGGAAATCCGGCTGCGGC
ATAGCAGATGCTCGTTCTTGCCTCCTTCAGGCACCAATCAGGAGAAGGGTTCTGCCTCCCATCCCCTCTACCTGC
AGACAGGGTTCGGAGGTGTTAGCGAGCCTTTGGTGCTAGAAGCCTGCGGGGTGATGTGCTAAGAGGACAGTCTTTC
TCCGGGAGCCCGCTCACTCATTCTGAGTTAGGAAAAGACACAAGACCTTCCCACATCCTGTCTGCCTGGGTAG
GGAGGCCTTTGCCTTGTTACCTAGAGGCGGAGGGACTGAAGCCATTGCGTTTCTTCCCTGCTAGAAACACAGGAA
GAAGTTGAGGACTGTCTGCCTTCCCTCGTCCCTTTACCTGGCCAGATAACTCCAGCCGCTGAATACAGTGTTAGG
ACTGGGGGCTCCTGAGATGAGAGTTTGAATTACAGGAATGAGACCACCTCTCATTTCTCCAGCATGATCGCGC
CCTGCTCCCGTGCCACCGTAGTCCCTGGCAGACAGGCAGGGCTCTGCCAGGGCAGCCTGCCACTTGCATAGCTT
TCGGTTGGTTTTGGTGTCTGTTTTATTTAATAAGTGGGCAGGTTGCAAGCGTTGCACAGAAATCTGAGATTTTAC
TGCCTTTTTTTTTTTTTTAAGAAAGTTGTTTGTGGACTCCATAAGTGAATTTCAAGCAGTGAGGATTTTGTGG
TGCCTGAGATGGCCGAGGGCACAGGGAGTGAGCTGTATGTGTGAGGAATTTGGTGAGCGAGATAAAAGTCCACGG
TGTCAACCCCTAAAACATGGGTGACCGTACATTTTTTATACATCTCCACTCTACGGCCTTTTACAGGCTTTCCGAT
TTTACAGGCCTTTCCAAGTTTCCATTCTCCTTAGAGAGAAGCTGTGCTTCCAAACAGAAATCAGGAGTGACCAC
AAAGCTGAAAAACACTTGTCCACCCAGCAAGAAGTGGCAACAATTGGTTTGGGTCTGCATTGCCATAGTGCCCGA
GTTAAACCTGCAGGCCACTCTGCCTTGCAGTGGCCTCTGATTTTCAATTGTGGGTGCATCCACAGGTGGCCCGAGCT
GTTCTTTTACGCTGCTCCAAGGATTGAGACCAAGTCATCATGAAAAAGGCCCAAGTACAGTCTTAATGCGATAAA
TCCACTAGCTAAGACGTGAGTGCCAAGACCAGCCTTCCAGCCGAGGTTTGGACAAAGTCTCAGGTTCCCGTGAC
TCAGGGTAAGGTGCTGGGGCTGCCAGAGGACCTGCCCCAGCAAGATTTTGTCAAGAGCGAGACTCCATCAGCCC
AGGCAGACGGGAGCAGGTTCTTGGCCAGCGTAGACAGCAGCAAAACAGCAGAGGGAAGCCATTCTCACTGCATCC
TCCCTGCAGTAGCCACGGCCAGGCCCTTAGGAGGAGCAGTGACCGGGGGTGTCCAGAAATATCCTGTCCCTGGAT

4169/5332
FIGURE 3629B

GGAAACTAGGTCTCGTTTGGATTTTTTTTTTTTTTTTGGCGTGTTAGGAAATTATTTATTAATTTACAAGACAGGT
TTTAACTCAGCCGAGGTGGGAAATGGTGTCCCTGTCCCTCCCAAAGCACAGAGCACAGAAATGAGGCCGTTTACA
TGGCGAGTCTCCGTGCTGGTGTTTAAGTCATTAAAAAGATACTCAAAGAG

4170/5332
FIGURE 3630

ATGCAACCTCCACTGGCCTCCCTGATACCCCCGAGCTCCAGAAACCAGCACCAACTACCCAGTGGAGTGCACCG
AGGGGTCTGCAGGCCCCCAGTCTCTCCCCTTGCCATTCTGGAGCCGGTCAAAAACCCCTGCTCTGTCAAAGACC
AGACGCCACTCCAACCTTTCTGTAGAAGATACCACCTCTCCAAATACCAAGCCGTGCCACCTACTCCCACCACCC
CAGAAACATCCCCCTCCTCCTCCTCCTCCTCCTCCTCCTCATCTACTCCTTGTTTCAGCTCACCTGACCCCCCTCCTCCC
TGTTCCCTTCTCCTCCTGGAATCATCATCGGAACAGAAATTCTATAACTTTGTGATCCTCCACGCCAGGGCAGACG
AACACATCGCCCTGCGGGTTTCGGGAGAAGCTGGAGGCCCTTGCGTGCCCGACGGGGCCACCTTCTGCGAGGATT
TCCAGGTGCCGGGGCGCGGGAGCTGAGCTGCCTGCAGGACGCCATAGACCACTCAGCTTTCATCATCCTACTTC
TCACCTCCAACCTTCGACTGTGCGCTGAGCCTGCACAGGTGAACCAAGCCATGATGAGCAACCTCACGCGACAGG
GGTCGCCAGACTGTGTTCATCCCCTTCTGCCCCCTGGAGAGCTCCCCGGGCCAGCTCAGCTCCGACACGGCCAGCC
TGCTCTCCGGGCTGGTGCGCTGGACGAACACTCCAGATCTTCGCCAGGAAGGTGGCCAACACCTTCAAGCCCC
ACAGGCTTCAGGCCCCGAAAGGCCATGTGGAGGAAGGAACAGGACACCCGAGCCCTGCGGGAACAGAGCCAACACC
TGGACGGTGAGCGGATGCAGGCGGCGGCACTGAACGCAGCCTACTCAGCCTACCTCCAGAGCTACTTGTCCTACC
AGGCACAGATGGAGCAGCTCCAGGTGGCTTTTGGGAGCCACATGTCATTTGGGACTGGGGCGCCCTATGGGGCTC
GAATGCCCTTTGGGGGCCAGGTGCCCCCTGGGAGCCCCGCCACCCTTTCCCACTTGGCCGGGGTGCCCCGAGCCGC
CACCCTGCACGCATGGCAGGCTGGCACCCCCCACCGCCCTCCCCACAGCCAGCAGCCTTCCACAGTCACTGC
CCTTCCCGCAGTCCCCAGCCTTCCCTACGGCCTCACCCGCACCCCTCAGAGCCAGGGCTGCAACCCCTCATTA
TCCACCACGCACAGATGGTACAGCTGGGGCTGAACAACCACATGTGGAACCAGAGAGGGTCCCAGGCGCCCCGAGG
ACAAGACGCAGGAGGCAGAAATGACCGCGTGTCTTGCTGACCACCTGGGGAACACCCCTGGACCCAGGCATCGG
CCAGGACCCCATAGAGCACCCCGGTCTGCCCTGTGCCCTGTGGACAGTGAAGATGAGGTTCATCTGCCACTTTCA
GGACATTGTCCGGGAGCCCTTCATTTAGGACAAAACGGGCGCGATGATGCCCTGGCTTTCAGGGTGGTCAGAACT
GGATACGGTGTTTACAATTCCAATCTCTCTATTTCTGGGTGAAGGCTCTTGGTGGTGGGGGTATTGCTACGGTCT
TTTAATTATAATAAATATTTATTGAATGCT

4171/5332
FIGURE 3631

TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTTCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCGGTACAGCAGCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGCTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGCTGCTGTCAG
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCCACGGAGAAGGTCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTCTGGGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTCTGGAGGCGGT
GGACGCGACCCGCGGTGCTGTGTCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGCCAGATGGTGTGAGTGGGGTCGACACGGTGTCTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCCCTTACGGATGCCGAAGTGGCCCGCATCGCCACATCCCTGGATGGCTTTGACGTGCGGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTCTGGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTCGAGCCACCAAGCAGAGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGTCCT
AAGCCTGATGGAACTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCAAGCCAGAGCAGGTGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGCGGAGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCCAGAGCCGTGAGCGTGTCTGCCAGCGCCCCGAGGGCCCT
GGACCACATGGTGGAAATATGTGGCCCAACACACCTGTACGTGGCTCGTGGGACCCTTTGCCCTGGAATCAC
TGAGAAAAGCCCCGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCTCTAACC CGGGGCTCATTCAAACCTATTTTCTAGCCACTCTCTCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAGAA
GCCTGTTCTGAGCCTCACCTATCAGTCAGTAGAGAGAGATGTCCAGAAAAAATATCTTTCAGGAAAGTTCTCCC
CTGCAGAATTTTTTTTCTTTGTTAAATATCAGGAATATAGCCGGGTGCGGTGGCTCACACCTGTAATCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTGAGGTGTTTCGAGACCAGCCAGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCAGTTAGGAGGCTGAG
GCAAGAGAATCTCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA

4172/5332
FIGURE 3632A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGCTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTCCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCTTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGCCCGGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCCCTCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCCGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCGGGTGAAGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCGGTCTCTGCAAGCATGCAAGGACGACGTGAACGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCCTTCCACATCTACTCTGGACCCG
CCCCCTCAGCAGTGTTCCAGCGGAGCAGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCTCGGCCACATCGTCCTCACAGCGGACTGG
GGCAAGGGCATGGCTGTGTGGGCCGCACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTACGCGAGTCCGGGTGTCCATCGGCCCCACGTGGCT
GGCATACACGGCCGGAGCAACGACGGAGCGTACTCCCTAGTCTTGCGGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTTCGGGAAGCCGGTCAGGGTGGTGGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGTTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCGAGCAGGGGCCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCAGGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGCGAGCGGCAGCCGTTCCAGTTGTTCTGAGTAAAGTGGAGGAGACGTT
CCAGTGTATCTGCTGTGCTCAGGAGCTGGTGTTCGGGCCCATCACGACCGTGTGCCAGCACACGTTGTGAAGGACTG
CCTGGACAGATCCTTTCCGGGCACAGGTGTTTCAGCTGCCCTGCCGTGCCGCTACGACCTGGGCCGAGCTATGCCAT
GCAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTGTGAAAACGTGTGCGAGGGCTCGTTCATCGGCACTGATTTTGTCTTAGTGGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAGGTTTGTCTTCTTTTTTTTTTTATTTTTATTTTTT
AAATCTATACATTTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGT
GGAGGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCA
GTCTTCTCTCGGGTCTGGCCCCAAGGTCAGAGCAAGCATCTTCTGACAGCATTTTGTATCTAAAGTCCAG
TGACATGGTTCCCCGTGGTGGCCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAAAGTCTCTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAG
TCACGTGCAAGTGCCCTTTGATTCTGTTCTTTCTAAAGACGACAGTCTTGTGTTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAACTGCGGTATCCAGTCTTCTCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTAAATTTT
TTTTTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTGTTTTGTTTTTCTTTTGAAGGGTTTGTAAATTTTTTCTAATTTTACCAA

4173/5332
FIGURE 3632B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

4174/5332
FIGURE 3633A

GTCCGAGCAACCGAGCGGGGCGCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCGCGCACGCCGCTCAGGAACCATCAGTGTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCACCGGGCGGGCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCGATCTACGGGGTGCATCAGCGGCTCTTTGTATGATGACGACGTGGCCAGTGGAACATCGGGA
GCCTCCGGACCATCTGGACATGGTGGAGCGCAGTGGCGGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCTGTGACGCCATCCACCAGAGCACGGCAAGCGCTGGAGCGGCTGGCCATCGGCTTCT
TCCCGGGAGCTCGCAGGGCTGCGACGCCTTCCTGCGGCATAAGATGACCTCATCTCGCCATCATCTGAAGA
AGTACGGGATCCCTTCAGCCGGATCACGCAGGAGGCCGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCACTGCGCAGAATCTACCAACTTCGCCACCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTCGTGCGCATCTCGAGCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCACGGCGCTACCAGCC
CCGAGCTGAGCTCTGGAGTGCATCCCGGGCTCGCTGAAGGCCAAGTCTCTCCGAGGTCTACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGAGCGTGAAGGAGGAGCTGGGCGGAGGTTGACCCGAGGAGGAGGAGGAGGAGCGCAGCCAC
TGCCACACGCGCGGAGGCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCTGCTGCCCCACAGCTGCGCCCCCGCTGCTCACTTCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCGGTGTGGGCGGAGGCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTGCTGCCCCCTGAGGTGCCAGTGGAGGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGGCGCGGCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGCTGTCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACAGTTTCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAGCCCGGGCGGAGAGGGGCGAGCACCGTCCACATTTTCAAAT
TGAAGATGGAGATCAAGAAGAGCCGCGGCCATCCCTGGGCGGCGGCCACCCGGTCCCCACTGTGGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCTTTCTCGGGGAGGAAGATGTGAGTGACCCGGACGCTTGA
GGCCGCTGCTGTCTGTCAGTGAAGAACAGGGCGGCCAGCTTCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGTGCTGCGAGTCCATGCCAGTTGCTATGGCATCCGTCCCAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCTGGACTGCGGAGTGTGCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCCTGAACGTGATTGAGCGCCACCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAATGCCGAAGCGGATGAAGAAGGTGTGAGGTGCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTT
TCCACGTGACCTGCGCCACGCGCAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAAGTCGGGGGGTACGCTGTCCAACCTCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATACCA
AGAACCGCAACGGGCTGTACTACCGCTGTGCGGTGATCGGTGCGCCTCGCAGACCTGCTACGAAGTGAACCTCG
ACGATGGCTCCTACAGCGACAACCTGTACCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTCATCTCCTCCGTACCA
GCCACATCTACAGGTGGAGTTTGGAGACGGTCCAGCTGACGGTGAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGTGTCACTGAGCACGGGGGACCGCAGGAGCCCGCTTCTCGGGG
AGGAGGCCAAGGCCGCAAGCGCCCGCTGTGGGCAACCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCTGCAAGTGCAGGGCGGGCCGAGCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCTCAGCCCGGGCGGGAGGCCATGGCATGCCCCGGGCGTTGCTGTGTAATTCCTGTCTCTGCTGTC

4175/5332
FIGURE 3633B

CCCGACCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTGAGAGCATCTCGCTGTTTTTTTGTGTTGTTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACGC
CCCGGTTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCTGTGCCACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGGTCTGGGGCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCCAGGCCCTTCTGGTTGGTAGTGAGTGAGTGAGACAGCTTCCCAGCTC
TTCGGGTACAACCCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTCGCCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTA AAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAGAGTGTCCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTACGCAGGAGCAAGCCTTTCATTTCCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTCGGGGAGGTTGGGGGGTGTCAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCCCTGCTGCCCTTGTCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGTTTATGAACGCTGC

4176/5332
FIGURE 3634A

GGCGCACGCTGGCGGTGGCAGCGGTGGCAGCGGTGCCGGCGGGCCCCGCGGGCCGGGGGCTGAGCGGCGCCCGCTG
GGGTGCGTCTGGGCTCCGACAGGCCACGAGAAGCTGCCGGTGCACGTAGAAGACGCCCTCACCTATCTGGACCAGGT
GAAGATCCGCTTTGGCAGCGACCCCTGCCACCTACAACGGCTTCTTGGAGATCATGAAGGAGTTCAAAAGCCAGAG
CATCGATACTCCTGGAGTCATCAGACGTGTCTCGCAGCTCTTCCACGAGCACCCCTGACCTCATTGTTGGATTCAA
CGCTTTTCTTCCCCTCGGATATAGAATAGACATTCCCAAGAATGGCAAGTTAAACATACAGTCGCCTCTGACAAG
CCAGGAGAATTTCGACAACCACGGGGACGGTGCAGAGGACTTCAAGCAGCAGGTGCCGTATAAAGAGGACAAACC
CCAGGTGCCCCCTGGAGTCCGATTCCGTGGAATTCAACAACGCCATCAGCTATGTGAATAAGATTAAAACCCGCTT
CCTAGACCACCCAGAAATCTACAGGTCACTTCTGGAGATCCTGCACACGTACCAGAAGGAGCAGCTGAACACGAG
GGGCCGGCCATTCCGAGGCATGTCTGAAGAGGAGGTGTTACCCGAGGTGGCCAACCTCTTCCGGGGCCAGGAGGA
CCTGCTCTCAGAGTTTGGACAGTTCTGCCGAAGCCAAGCGGTCTCTGTTACAGGAAACGGGCCGTGCGAGAT
GCACAGCGTGCAGAAGAACGAGCAGCACAAGACCCCCGAGCAGCAGGAAGCGCTCCCCGGCCCTCGCTCCTCCG
CCCCGTGTCTGCACCCGCCAAGAAAAAATGAACTTCGTGGTACCAAAGACCTGTCCATCGCTGCAAGTGGGAA
GTACGGGACTCTGCAGGAATTTTCTTTTGACAAGGTCCGCCGGGTGCTGAAGAGCCAGGAGGTGTATGAAAA
CTTCTCCGCTGCATCGCACTCTTCAACCAGGAGCTGGTGTCTGGCTCTGAGCTCTGCACTCGTCAGCCATT
TCTGGGGAATTTCCAGAACTCTTGCACAGTTCAAGTCTTCTGGGGGTAAAAGAGCTGTCTTTCGCGCCACC
CATGAGCGACAGATCCGGGGACGGGATAAGCCGGGAAATTGATTATGCATCCTGCAAGCGCATAGGATCCAGCTA
CCGGGCACTCCCCAAACCTACCAGCAGCCCAAGTGCAGTGGGAGGACAGCCATCTGCAAGGAGGTACTGAACGA
CACCTGGGTCTCCTTCCCTTCTGGTCTGAGGACTCCACGTTCTGTCAGCTCCAAGAAGACACCGTACGAGGAGCA
GCTTACCCGCTGTGAGGACGAGCGCTTCGAGTTAGACGTTGTCTGGAGACGAACCTGGCCACAATCCGTGTGTT
GGAAAGTGTGCAGAAGAAGCTATCTCGGATGGCGCCGGAAGACCAGGAGAAGTTCCGGCTGGACGACTCCCTGGG
AGGCACGTCGGAGGTGATCCAGCGCCGTGCCATTTATCGCATCTATGGCGACAAGGCCCCGAGATCATCGAGAG
CCTCAAGAAGAACCCTGTACCGCTGTCCCGTTGTCTGAAAAGACTGAAGGCCAAGGAAGAGGAGTGGCGGGA
GGCCACGAGGGCTTCAACAAGATCTGGCGGGAGCAGTATGAGAAGGCGTACCTCAAGTCCCTTGACCACCAGGC
TGTGAACCTCAAGCAGAACGACACCAAGGCCCTGCGCTCCAAGAGCTTGCTCAACGAGATCGAGAGCGTCTACGA
CGAGCACCAGGAGCAGCACTCGGAGGGCCGAGTGCCCCCTCTAGCGAGCCGCACCTCATCTTTGTGTACGAGGA
CCGGCAGATCCTGGAGGACGACGAGCGCTCATCAGCTACTACGTGAAGCGGCAGCCGGCCATCCAGAAGGAGGA
CCAGGGCACCATCCACCAGCTGTGACCAAGTTCTGTGCCAGCCTCTTCTTCTCTCAGCAGCTGGACCTGGGCGC
CTCCGAGGAGTCAGCTGATGAGGACCGGGACAGCCCCAGGGGCAGACCACAGACCCAGTGAGCGGAAGAAGCC
GGCGCCAGGACCCACAGTAGCCCCCAGAGGAGAAGGGGGCCTTCGGGGATGCCCCGGCCACTGAGCAGCCACC
CCTGCCGCCCCAGCCCCGCACAAGCCCTGGACGATGTCTACAGCCTATTTTTTGCCAACAACAAGTGGTACTT
CTTCTGCGCTGCACCAGACCCTGTGCTCCAGGCTGCTGAAGATCTACCGCCAGGCGCAGAAGCAGCTTCTGGA
GTATCGGACCGAGAAGGAGCGGGAGAAGCTGTGTGTGAGGGCCGAGGGAGAAGGGCAGCGACCCCGCCATGGA
GCTGCGGCTGAAGCAGCCCAGTGAAGTGGAGCTGGAGGAGTACTACCGGCCCTTCTGGACATGGTGCAGGACCT
GCTGGAGGGCAGCATCGACCCACGAGTACGAGGACACCCTACGCGAGATGTTACCATCCATGCCTACGTGGG
CTTACCATGGACAAGCTGGTGCAGAACATTGCGCGGCAGCTGCACCACCTCGTGAGCGATGACGTCTGCCTGAA
GGTGGTGGAGCTCTACCTGAACGAGAAGAAGCGGGGTGCCGCTGGTGGGAACCTGTCTCCCGCTGCGTCCGCGC
TGCTAGGGAGACCAGCTACCAAGTGAAGGCTGAGCGCTGCATGGCCGACGAGAAGTCTTCAAGGTGATGTTCTT
GCAGCGCAAAGGGCAGGTGATCATGACCATCGAGCTCCTGGACACCGAGGAGGCCAGACGGAGGACCCTGTGGA
GGTCCAGCACCTGGCTCGGTACGTGGAGCAGTATGTGGGGACCGAGGGCGCGTCCAGCTCGCCACTGAGGGCTT
CCTCTGAAACCTGTGTTCTTCTGCAGAGGAACCTCAAGAAGTTCGCCCGCCGGTGGCAGAGCGAGCAGGCGCGGGC
CCTGCGCGGTGAGGCCAGGAGCTCCTGGAAGCGGCTGGTGGGCGTGGAGAGCGCCTGCGACGTGGACTGCCGCTT
CAAGCTCAGCACTACAAGATGGTGTTCATCGTGAACCTCCGAGGACTACATGTACCGTCGCGGGACCCCTCTGCCG
GGCCAAGCAGGTGCAGCCCCCTGGTCTGCTCCGCCACCACCAGCACTTTGAGGAGTGGCACAGCCGCTGGCTGGA
GGACAATGTGACGGTGGAGGCGGCTAGCCTGGTGCAAGTGGCTGATGGGTGAGGAGGACGAGGACATGGTACC
CTGCAAGACGCTGTGTGAGACAGTGCACGTGCACGGCCTGCCCGTGACCCGCTACCGCTGCAGTACAGACGCGG
CCCGGCTCGCCCTGAGCCCGCCCTCATGGGCACCGGGCAGGCGCCTCACAGAGCACAGACGTGCCCTCGGCCTTG
GTCGTGTGCGGGCCGTTTTCTTGAACGACGTGAGAGGCATCTCCAGCCCTCTGCTGCCGACAGCGCACTCCA
GGGACGAGACGCCGCCCGCTGGCTCCCGGTCTCTGTGGGCTGCTGTGTGCCAAACCTGAGCTACCTGCACCCG

4177/5332
FIGURE 3634B

AGCCCTGGGGCTCAGCCCCACCACAGGGGCGGGTGGACGTGCTGGCCGAGGAACAAGCAATCATGTTTGCCTCCC
CGTCCGTACATGTGCCAAATCCCTGGCAGGCAGATGGCTCCTGCCCCATATTCTTGCCGTGTCTTGAAAAGTC
ACAGGTGACAGCCCTCCTGAGGCCCACACTTTGGAGGGGGTCCATGTCCAAGAGACCCTGACAAGGAAGGAGTTG
AGCCCTGGGTAGGCTTGCTTGAAAAGTGAGTCCTTCCAGAATATTCTCAGAGCTGCCAGAAACATCATCTGAGGG
TTTGGGCATCAGCTCTGCCTGGCTGGTGTTCAGGCCCTCAGTCACTTTGGAAGTGAGAAGAACCCTTCAGCCAAA
CCTTTGGGATCCCATTTTGAAGTCCAGAGCTGGAGCAGGCGGGCAGTGCCCTGGGAGACCCCGCTCTGGATAAGA
CACCCAACCCAACTCCAGCAGCTGGACTCTGGGCCCCACAAGGGGAGGGACCCAGCCAGTATTCCCTCAGAGCC
GGCAGGACCCTGCTGTGGGGCGGCGGGCCAGTCGTGTTCTGTCAGTGGGCACCCTAGGCGTATGTGTATACAG
CACAGATATTTATTCCTTTTCGCTTTTAGTGGTTGTTATTTCTGTAGCAGCCAAGTCCTGCGGCTCCCTGGGGCTG
AGATCTCCCTTTGTGGAATCCGAGAGCCGCCCTGACAGTCCCAGCCGCCACCCAAGGAGCCCCATCCGCCACC
CACCTGGGACCCACGCGGCCACTCCAGGGATCATTGTTGTCCTTTTGTGAGGGGCTGAGGCGACTGTCCCATGG
AGGCATCCAAGGCTTTCTGTGCCAAGAATCCCAAGTGACTGGGGCTGGGGACCACTTCTCCAGGCCTCTCTCCCC
GACCATGAGAGCCCCCTGGCCCTGGCCCCCTGCACACCAGTAGGCCAGAATAACCGCCACCCTTGCCATCCTGCAA
CAGCTGGACTCAAGTTTCCAGGAAGTGAGATGTGTTTCTAGAAGTTTCTGTGGAACCTGGAGGCTCCTGATGC
CTTTGACTCCAGGCTGGGCGATTCCGATGCTGACCCGTCTCCTGGGCTCCCCACCCCGCTCCCCAAGTGTAC
ACAGGCACCTTTGTACACATCCTGGTTTTCTAAGAAGGGAACCTTGCCATCAAGATTCCTGTACCAGGCCACGGCC
GTCTCGGGCAGAGCCACCTGGGCCCCGGGTGCAGCCGAGACCCGCCGAGCCCCCTCCTCCAGTATTCCCATCC
CCGCATGCTTCTAGGGAGCGCCTCTTTCCGTTCTTGAGGAATTTCTGTTCTGGGGCTTGCTCTTCTTTGCAGC
TGTTTTGAATGTAGTTTTCTTTCTATTTATTTGCACATTAAAGTTAATAATTGAATATTGA

4178/5332
FIGURE 3635A

CTCCACGGGCTGGCTGGCAAGCGGCCCTGGTGGGTCTGCGGGGGCAGGGGCAGCCTTCCTGGTTTATCTCTACC
GGCGCATCTGCTCGTCCGCCCTCGGCTCCAGAAGCTGGGGCTCAGGGTCCGGCGAGGCAGGAAGCCTGAGGCCAC
AGCCCAGAGCAGCCTGAGTGCAGTCATGTGGGGGGCGACTGCTCCTGTGGCCCTGGTGCTGGGGTTACAGCCTGTC
TGGCGGCACCCAGACCCCCAGCGTCTACGACGAGAGCGGGAGCACCGGAGGTGGTGATGACAGCACGCCCTCAAT
CCTGCCTGCCCCCGCGGCTACCCAGGCCAAGTCTGTGCCAATGACAGTGACACCCTGGAGCTCCCGGACAGCTC
ACGGGCACTGCTTCTGGGCTGGGTGCCACCAGGCTGGTGCCCGCCCTCTATGGGCTGGTCTGGTGGTGGGGCT
GCCGGCCAATGGGCTGGCGCTGTGGGTGCTGGCCACGCAGGCACCTCGGCTGCCCTCCACCATGCTGCTGATGAA
CCTCGCGGCTGCTGACCTCTGCTGGCCCTGGCGCTGCCCGCGGATCGCCTACCACCTGCGTGGCCAGCGCTG
GCCCTTCGGGGAGGCCGCTGCCGCTGGCCACGGCCGCACTATGGTCACATGTATGGCTCAGTGCTGCTGCT
GGCCGCGCTCAGCCTGGATCGCTACCTGGCCCTGGTGACCCGCTGCGGGCCCGCCCTGGCACTGCCCTGACACTGCAGCGGCAGAC
CTTCCGGCTGGCGCGCTCCGATCGCTGCTCTGCCATGACGCGCTGCCCTGGACGCACAGGCCTCCCACTGGCA
ACGGGCCCTTACCTGCCTGGCGCTGTGGGCTGTTTTCTGCCCTGTGGCCATGCTGCTGTGCTACGGGGCCAC
CCTGCACACGCTGGCGGCCAGCGCCGGCGCTACGGCCACGCGCTGAGGCTGACCGCAGTGGTGCTGGCCTCCGC
CGTGGCCTTCTTCGTGCCAGCAACCTGCTGCTGCTGCTGCATTACTCGGACCCGAGCCCCAGCGCCTGGGGCAA
CCTCTATGGTGCTACGTGCCAGCCTGGCGCTGAGCACCTCAACAGCTGCGTGGATCCCTTCATCTACTACTA
CGTGTGCGCCGAGTTACGGGACAAGGTGCGGGCAGGGCTCTTCCAACGGTGC CGGGGGACACCGTGGCCTCCAA
GGCCTCTGCGGAAGGGGGCAGCCGGGCGATGGGCACCCACTCTCTTTGCTCCAGTGAACAAAGTGGGGAAAGGC
TGTA CTGGGTGCAACAGGGTCCCTTCCCCCACTTCACGTCCTTCTGGGACCTCAGAATGTGACCTTATTTGGAA
ATAGGGTTGTTACA ACTGTCACTAGCGGAGGTCACTTTGGAGAAGGGTGGGCCTTACATCCAGTGTGGGTGGTGT
CCTCATAAGATAAGGAGAGGCCAGGCCTGGTGGCTCACGCCTGTAATCCAGCACTTTAAGAGGCCAAGGCGGAT
GGATCACTTGAGCCCAGGAGTTCAACACCAGCCTGAGCAACATGGTAAAACCCATCTCTACCAAAAATACAAAA
ATTAGCTGGGCTTGGTGGCTGGCGCCTGTAATCCAGCTACTCAGGAGACTGAGGCAGAAGGATCGCTTGAACCT
GGGAGGCAGAGGTTGAGTGAGCCGAGATTGCGCCACTGGACTCCAGCCTGCGTGACAGAGAGCCTGTCTCTAAA
TTAATTAATTAATTAATTTAATTCAATTTTAAAAAGACGAAAAGTGACGGCCAGGTGCAGTGGCTCACGCCTATA
ATCTCAGCACTCTGGGAGGCCAAGATGGAGGATTGCTTGAAGCCAGGAGTTTGGGACCAGCCTGGGCAACATAGG
GGGATCCCATCTCTACACACAAAAAATTTTAAATGAACCAGGCATTGTGGCATGCGCCTATAGTCCCAGCCAC
TCAAGAGGCACAGGCGGGAGGATCACTTGAGCCTGGGAGGTTGTGGTTGCAGTGAGCTATGATTGTACCACTGCA
CTCCAGCCTGGGCAACAGAGCAAGACCTTGCTCTCAAAAATAAACAACTAAAATTAATAAAGAGACGAGAGAT
AGTGGGTGTGGTGGCTCACACCTGCAATCCAGCACTTTGGAAGGCCGAGGTGGGCAGATCATCTGAGGCCAGGA
GTTCAAGACCAGCCTGGCTAACATGGTGAATCCTATCTCTACCAAAAATACAAAAATTAGCCAGGCGTGGTGGT
GGGCACCTGTACTGGGGAGGTGCCACCCAGCTACTGGGGAGGCTGAGTCAGGAGAATCGCTTGAACCTGGGAGG
CGGAGGTTGCGGTGAGCTGAGATGGTGCCACTGCACTCCAGCCTGGGCGAAAGAGCGACTCTGTCTCAAAAAAA
AGAGAAGAGGAGAGGACACAGAGACACACAGAGAAGAAAGCCATGTGGCGGCAGAGGCAGAGATGGGAGTGATGC
GGACGGACACAACTAAGGGATGCCACGATGCCAAGCACAGCCAACAGCCACCAGCAGCCAGGAGACAGGCCTGG
GACGGGCTCTCCCTCACAGCCTCCAGAGGGAACAGCCCTGCCACCACCTTGACCCCTGGACTTCTGGCCTGCAGA
ACTGTGAGACAATAAACTCTCATTGTTTTAAGCTGCCTGGCATGTGGCACTTTGTGAGGGCAGCCAGGAATCTG
AAACAGGATCAAACCTGCTTCTGGGCCCTGCCAGCATCTCTGGCTCGGCTTCTGGGCTGGATGCAGCCACG
ACGCACTGGTGTCTGAGATGGGGCTGGAGCTGGGGCTGGGGCTGCATTCCCTGGAGACTCACTGCAAGTTCTGTC
CCAGGAGGCTGAGGGCACCCATCCTCAGTGCCCAATGCTGTGGCCCCACCAGGCCAGAGCCTGGTTGGCCATT
CTCATGCCCCACAGCTTCTGGCTTTGGGATGTCTCTTGAGCAACCAGAAATGACACCCCCAACTCTGCTCCCCAA
ACCCATCACTAGCACGGCTCAGCCTCCTGCTATCCCCTGACTGCTGGGGACCCTCGCCTTCCCTCCTCTCACCTG
CAGGCTGATCCTTCTTTTCACTTTCTGTCAATGTCAACAGGGATAAGGTGGGACAATGGGGGGTGGGGGTGAGCA
GTGTGTGCTGGGGGGTTTCGGGTGCTGCAGACCTGGAACCTCCCTTCTGCCAGGATGTTGGCAGCCGGTTGTGACC
TTGCACGGGACAGACACACCCACCGCAACCTCATCCCCCTCAGCACTAACACATCCACTCTCAACCCCGTCCCC
TTGCACTGACCACACCCACCCCGTTTCGGCCCCCGCCCCCGCACTGAACACACCCGCCCTCAACCCCGCACCCCTC
CGCACTACCTCCCCCTCGCGCTCGACCCCGCCCTCACCACACTGACCACCCCTCAACCCATTGCGCCCACTGCC
CACCACAGTGACCACACCCCTCACTGGCTCGGCCCTGCCCCAGTATACTGACCATTCCCCAGCCACTTCCCTTCC

4179/5332
FIGURE 3635B

GCACTTACCACTCCCCAGCCACGCCCTCCCCGCTGACCGCTCCTCCAGCCCCGCCTCCCCGTACAGGCAGAG
CGCCCCGCCACCTCTATGCTGCGTTCTCCTGACTTTACGTTGGCCCCCTCCTCTGCCAAGCCCCCAGGGGAGCCCT
CCCTGGCGTCCGAGGGTGGGAGTCGGGGTGTGGCAGGCCGCGGTGGGGGGCGGCAGTGGCTCCGCGCACTCACCC
GGGCCCCGGGCAGGGGCGCGCTCCACTTCGTTGCACGCGGGTCCGGCGCACAGTTCCCGGGCGAGTGGGCTGTGG
GTGCTGACGTTGTAGAAGCGAGTGGCCTCGAAGGCTACGGGACGAGGGTGGCGGGTGACCAAGTGCAGGCGCGAC
GGGTGAGGACCGGGCCGGCCGGGGTGCGGGCGCGGGCCCTACCGGGTTCGTAGTAGTGTACACGGAGACT
GGCAGCGCCGACGTCTTCCCCACCACGCACTCCCGGAGAGCACGGAACCGCACGCACGTGAGGCACCGGCTGGGG
ATCTGTGGGGCAGCGGCGGGCGCAGGCTCGACCCGGGCCAGGAGGCCCGGGGCGCTGAGCTCAGGCCCAGAACTG
GCTGATTCAGGGATACCCAGGACGCGTGAAACACAGAAGAAACGTGATCCCATTTTCTTTTTTCTTTTACTTT
TCTTTTTTTTTTTTTTCTGAGACAGAGTCTCGCGCTGTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCT
CACTGCAAGCTCGGCCTCCTGGGTTCAAATGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATAACAGGCGCC
CACCACCGCACCTGCTAATTTTTTGTATTTTTGATCAAGACGGAGTTTACCATGTTGGCCAGGCTGGTCTCCA
ACTCCTGCCCTCAAGTGATCCGCTCGGTCCCATTTTTTATTCTTTGGGTCTTCCATCCCACTGGGAAAACGTC
TCAGGTGGCCTCTGAAACACCACTCCTTTTTGTGTGTGTGCACGCATGGCTGAGCATGTGTGGGTGGGAGTCAGC
ACATTCACGATACTGTGCAATCATCACCTCTGTCTAGTTACAGAACGGTTTCTTTCTCCCCCAAAGAAACCCCAT
CGCCATCAGCACTCACTCCCCACTCCCCAGCCCCTGGCAACCACAAATCTTTCCAACCTCTACGGATTGCTGT
TCTGGGCATTTTCATGTCAATGGAATCATGTACTCTGTG

4180/5332
FIGURE 3636

GCGAGACCAAGTGCAGGGGAGGACAGGCGAAGCGCGCTCTGGGGCCGCGCTCTCCACACTTAGCCGGCGCTGC
CTCACGCCTCGCAGCCACCCCTCCTGCGTCTCCACAAATGGTCCGACCCGCAAGCAAGGGGCGGGTCCGGCTTT
GAAAAGCCGGCGGGTCGGGCCTTGAGGTGGAAGGCGGGAAATGGCGGATTCTCGGGGCGAGGCGCTGGGAAGC
CTGCAACCGGCCCCACAAATTCTAGCAGTGCCAAAGAAGGATAAAAAGAGTTCAAGGTGGAAGAGTGATTGAGT
CCCGGTATCTGCAGTATGAAAAGAAGACAACCCAAAAGGCTCCTGCAGGAGATGGGTACAGACCCGAGGGAAGA
TGTCTGAAGGTGGAAGGAAATCCAGCCTGCTCCAGAAAAGCAAAGCAGATAGCAGTGGGGTCGGAAAGGGTGACC
TGCAGTCCACGTTGCTGGAAGGGCATGGCACAGCTCCACCTGACCTGGATCTCTCTGCTATTAATGACAAAAGCA
TCGTCAAAAAGACGCCACAGTTAGCAAAAACAATATCAAAGAAACCTGAGTCAACATCATTCTGCCCCCTCGGA
AAAAGAGCCCGGATTTATCTGAAGCAATGGAAATGATGGAGTCTCAGACACTACTGCTGACGCTACTATCCGTAA
AGATGGAGAACAATCTTGCTGAGTTTGAAAGAAGGGCAGAAAAGAATTTATTAATAATGTGTAAGGAGAAGGAGA
AGCTACAGAAAAAGGCCACGAGCTGAAGCGCAGGCTTCTCTCTCAGAGGAAGCGGGAGCTGGCAGATGTCC
TGGATGCCCAGATCGAGATGCTCAGCCCCTTCGAGGCAGTGGCCACACGCTTCAAGGAGCAATACAGGACATTG
CCACGGCCCTGGACACTACCAGGCACGAGCTGCCCGTGAGGTCCATCCACCTGGAGGGAGATGGGCAGCAGCTCT
TAGACGCCCTGCAGCATGAACTGGTGACCACTCAGCGCCTCCTGGGAGAACTTGATGTTGGTGATTTCGGAAGAAA
ATGTGCAGGTGCTGGAATTACTGAGCGAACTCAAGGACGTGACGGCGAAAAGGACCTTGAGCTCCGAAGGAGCT
TTGCCCAGGTGCTGGAATCTCCGCAGAGGCAAGCAAAGAGGCAGCCTTGGCAAACCAGGAAGTCTGGGAAGAGA
CCCAGGGCATGGCGCCCCCAGCCGGTGGTATTTCAATCAAGACAGTGCCTGCAGAGAATCTGGGGGAGCACCCA
AGAACACGCCCTGTCTGAGGACGACAACCCGGGTGCCTCGTCAGCCCCGCTCAGGCCACGTTTCATCAGCCCAA
GCGAAGATTTTCTTCAAGCAGCCAGGCAGAAGTCCCGCCCTCTCTCTCTCGTTCAGGGAGGGACTTGTCATGAC
TCATGGTTACATTCAGGATACTTGAGCACTTTATATACTACCGTAGCACTGTAGCTATTTTTATGTGATAATCT
TGTTTGATAAAAAAGTAAACCTGTTTGAATTGAAGCCTCCATTTCTATGAAGGGGCCAGTTGG

4181/5332
FIGURE 3637A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCATCAAGGAC
GCCATTGCCAGCCTGCGGCTGGACGGCACCAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCCT
CAGGAGGATGGCTACTACTTCTGTGCTGAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACCTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCGCTTCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCTTCCGTCATCTACAACCCCACTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACAGTCTTCGCGCTGGCCGACGTGGCCCTACTACACC
ATGCTCAGGAAGCGCGTGAACAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAC
TTCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGGAAATGCCAAGACAGCCCCACAACAACACTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGCTCGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGCTCAGGAGAAGGATGAGAGGAACCTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCTCCCCGCCACCAAGAAGCAG
ATTTTTGCCGTCTCTCGGCCATCTGTACCTGGGCAACGTCACCTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTCGGGCCACCCGAGGTGCTGGACACCCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCGGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTGTCCATTGGGGTCTGGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCAGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCTCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCC
CAGCCACGAGCCAGACCCTGCTGGCCAAGTCAAACAGCAACATGAGGACAATAAGTACTTCTGGGCACCCCG
GTCATGGAGCCAGCTTTTCATCATCCAGCACTTCGAGGGGAAGGTGAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGGCCCTGCTGCGGGGAGTGACAGCTCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGCTTCGGGAG
GCCGGACGCCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCCAAGTCAACCAGAA
GAGCTGCCAAGAGGAGCCAGCACCCTTCGGAAAAACTTTACCGGATTGTCATAACCAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCTTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCCAGACATCCCTTAACAAGCTCTTGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCCTGCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTGAGGGTACAGCGCCAAGTACAGTTCCAGGATTTACCCGAG
CAGTTCCAGGTGCTCCTGCCAAGGATGCCAGCCCTGCAGGGAGGTATCTCCACCCTCCTGGAGAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGCTGGAGCGTCGGCAC
TTCCTGCAGATGAAGCGGGCCGCCGTACCATCCAGGCCTGCTGGCGGTCTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCAGGCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCACCAGAAA
CAGAGCATCATCCGCTGCAGAGCCTGTGTCGGGGGCACCTGCAGCGCAAGAGCTTACGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAGAAGGAGAGGGAAGCCCTGGAAGCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGAGGTAGCTGAGCAGGGCCGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGCCCCAAGCCAGAGAAG
ACTCTCCACCCAGAAAACCGTGGCGGCTGAAAGTCAAGAGAAAGTCCCCAGCAGCCGGGAGAAGCGTGAGTCG
CGTCGGCAAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAAGGAGAGCAGAGAAGAT

4182/5332
FIGURE 3637B

GAAACCCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAGCAGCCCACAGAGCAACCCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGGCCCTGGCAGCGCCCCGAGACCCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCAAGGGTTTCAGGAAAAGCCGACAGCCCCGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAAGTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGCCAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCACGCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCCAAGTCTCTCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCCTCCCA
GACGCAGGGCTGTCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAGAGGCTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAGGGGAAGAAGAACCGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATCACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCCTGCTCAACAAGATAAAATGACCTC
CGTTCGAGAGAGATCCCAATGAGAGCTTGTTTATCGAAGCCACCGAGAAGTTTCAGGAGCAACATCAAAACGATG
TACTCTGTCCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTCGTCAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTTACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAAACGGGCACGTGTTGCCAGCTACCAGTTAGCATCCCGCAGTCGTGCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCTCGGTGCCATCGTGTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAACTTCCCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCTCCGAGCCGTCGAGCTGCCGGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCCAGAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC
GCACCTTGCTCCTGCGCTGCCCTGACAACCTCGGACCCGCTGACCAGCATGAAGGACGTCTCAAGATCACCACG
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAACCTGGAGGCT
GCAGAGAGTATCGCTTCCGAGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGACAGCCGGCGCGATGAGGACCGGAAAAGGAGATTCTATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATACCTACCAGGCTGCCGGAGCTGGACCCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG
ACGTCCGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGCCTCGGAAGGGCCCCCTGCGCTGCT
CTCCCTTGCCCCGGCGCGCCACCCCCGAGCCCCCTCCCCACCGTGGCCGCCCTCCACGACGAAGGCCGTCGTC
TTGTAACGGTCAGAGTGAAGACCCCCCGGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCCACCAGGC
CTGCCCTCCCACCTGCCCTCGCTGGGCACCGGGTGCCGGGAGGCGGCTGCCCCAGTGCGGCGCCGGGAGCCACCT
GCCCCGCCCGGACCAGATACATTCCGTGTACATACGCCCGGGGCGAGCCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGGCCCAAGTGCAGAGTCAAGGCAGGAGAGGCGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCCACTCCCTTTTTG
TACGTTTAACTGTTTCTTTGTACGTGGTTTACGTAACCTTAACTGTAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAAAGCTGCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCATGGGCTGGG
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCCGTGCTCTCTGACACATGTCTCCGGGGGCGAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCCATGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTACGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

4183/5332
FIGURE 3637C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

4184/5332
FIGURE 3638

CGCGCAACTTGCGGCCAAACTTTCCCCCGGCCTCCCGCGCTCGGATGGCGGCCCGCTGAGTTGGCCGCAGCCCC
CGGGCGAGCGGCGGCCAGGCCAGAGGACGCCCCCTGCGCGGCTCGGGCCGGGCCATGGCCCCGCGCCCCCGCGG
GGGCCCCAGGGCGGGGACGCGAGTCCTCTGGGCCCCCGGCCGCGCCTCTAGCGTGCCCCCTCCCGGCCCCGGG
CCCGCCCCGCGCACGCGTGGGAAAGTTGGCCTGGAACCGGCCGACCAGTTCCGCCCCGGGCGCGAGGACCGGCC
GCAGGAAGTTGCTGCAAAACTTTTTTGGGGGGTGAGCCCGTGCCCCCGCGCGCCGGGGCCGAATGCGCGCCGC
GTAGGGTCCCCGGGCCGAGAGGGGTGCCCGGAGGGAAGAGCGCGGTGGGGGCGCCCCGGCCCCGCTGCCCTGGG
GCTATGGCCATGGTGACCGCGGCTGGGGCGGCCCGCGCGGACACGAACGGCGTGGACAAGGCGGGCGGCTAC
CCGCGCGCGGCCGAGGACGACTCGGCCTCGCCCCCGGTGCCGCCAGCGACGCCGAGCCGGGCGACGAGGAGCGG
CCGGGGTGCGAGGTGGACTGCGTGGTGTGCGGGGACAAGTCGAGCGGCAAGCATTACGGTGTCTTCACCTGCGAG
GGCTGCAAGAGCTTTTTCAAGCGAAGCATCCGCCGCAACCTCAGCTACACCTGCCGGTCCAACCGTGACTGCCAG
ATCGACCAGCACACCAGGAACAGTGCCAGTACTGCCGTCTCAAGAAAGTGCTTCCGGGTGGGCATGAGGAAGGAG
GCGGTGCGAGCGCGCCGATCCCGCACTCGCTGCCGTGGTGGCGCGCCTCTCGGGCAGCCCCCGGGCTCG
GCGCTGGCGGCGAGTGGCGAGCGGCGGAGACCTCTCCCGGGGCGAGCCGGTGTCCGAAGTATCGCGCAGCTGCTG
CGCGCTGAGCCCTACCCTGCGGCGGCCGACGCTTCGGCGCAGGGGGCGGCGGGCGGGCGCGGTGCTGGGCATC
GACAACGTGTGCGAGCTGGCGGCGCGGCTGCTCTTCAGCACCGTGGAGTGGGCGCGCCACGCGCCCTTCTTCCCC
GAGCTGCCGGTGGCCGACCAGGTGGCGCTGCTGCGCCTGAGCTGGAGCGAGCTCTTCGTGCTGAACGCGGCGCAG
GCGGCGCTGCCCCCTGCACACGGCGCCGCTACTGGCCGCCCGGCCTCCACGCCGCGCCTATGGCCGCCGAGCGC
GCCGTGGCTTTCATGGACCAGGTGCGCGCCTTCAGGAGCAGGTGGACAAGCTGGGCCGCTGCAGGTGCGACTCG
GCCGAGTATGGCTGCCTCAAGGCCATCGCGCTCTTCAGCCCCGACGCGCTGTGGCCTCTCAGACCCGGCCCCAGTT
GAGAGCCTGCAGGAGAAGGCGCAGGTGGCCCTCACCGAGTATGTGCGGGCGCAGTACCCGTCCCAGCCCCAGCGC
TTCGGGCGCCTGCTGCTGCGGCTCCCCGCCCTGCGCGCGGTCCCTGCCTCCCTCATCTCCCAGCTGTTCTTCATG
CGCCTGGTGGGAAGACGCCCCATTGAGACACTGATCAGAGACATGCTGCTGTGCGGGAGTACCTTCAACTGGCCC
TACGGCTCGGGCCAGTGACCATGACGGGGCCACGTGTGCTGTGGCCAGGCCTGCAGACAGACCTCAAGGGACAGG
GAATGCTGAGGCCTCGAGGGGCTCCCGGGGCCAGGACTCTGGCTTCTCTCCTCAGACTTCTATTTTTTAAAGA
CTGTGAAATGTTTGTCTTTTCTGTTTTTAAATGATCATGAAACAAAAAGAGACTGATCATCCAGGCCTCAGCC
TCATCCTCCCCAGGACCCCTGTCCAGGATGGAGGGTCCAATCCTAGGACAGCCTTGTTTCTCAGCACCCCTAGCA
TGAAGTTGTGGGATGGTGGGGTTGGCTTCCCTGGCATGATGGACAAAGGCCTGGCGTCGGCCAGAGGGGCTGCTC
CAGTGGGCGAGGGTAGCTAGCGTGTGCCAGGCAGATCCTCTGGACACGTAACCTATGTCAGACACTACATGATGA
CTCAAGGCCAATAATAAAGACATTTCTACCTG

4185/5332
FIGURE 3639

GGGGCTGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGGCTGATTTAGAAGGAGGT
TCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGCCCCACTGAAGAGGAGGA
GGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGGCAGT
AGGGGACACAGGCCAGCGTGGGCAGCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAA
CACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCCTGAGGTCCAAATTCGGACACCAAGGGT
CAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTCCAAAGCTGGAGTCGTTCAA
CGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGGACAAAACACAAGATCGA
CAAAAGCCACGAGTTTGCAGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGCCTGACCTCCGACCCCCG
CGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTGGAAGGACTTTTCAGCCT
CATCCAGCAGAAAACCTGAGCTTCGGGTCACAGAGAACGTGCAGACGATTCCCCCGCCATATGTGGTCCGCACCAT
CCTTGCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAGAAAATGTTCCAGTGCCC
ATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCÀCTGAGGAGAAGGAGGAGGAGATGAGTTGGAAGGATAT
GTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCACTGGCTGGGCCAGCCCT
GGAGTTGCACAACCTGCATGGCGAAACTGTTGGCCACCCCCCTGCAGCGGCCTTGCCAGAGCCATGCTTCTACAG
CCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTGTACATCTGCACCTTCT
TGTGCAAGGAAGTCCTTGCCCTAAAGCCTTGGTTCTCAAACCTGGGTTCTTGGGACCTCCGGGGTGGGGGGGTTT
CAGGAGGCACGTAGGGTACCTTGCCAGGGTCTTAGGAGGGAAACCCAGGATTCCAGGAGGGATCCAGGAACCTGTG
GGCACCCATTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTGATGGATAATTTTGTCTTCCCTGTGT
GATTTTGGCCATCAAAATAAAAATTTGAGACTCGTTAA

4186/5332
FIGURE 3640

AAAGGGCCGGCTGTTTCGGCGGCCCGGGGATGCCCCCTGCGCTGACCGCCAGGGGCAGGTGCCCGCCCGGTAGAC
GCACCCGGCCTGACCCCGCGCCACCATGTAAACGGCGCCAGCAGGCGGACGCTGGCTTCTCCGCTGGGACCCCT
CCGCCCCGACCCGGGCCCCCGGCCCTCGATGAGGACACACCATGCTGACCGGGGTGACCGACGGTATCTTCTGT
TGCTTGCTGGGCACGCCCCCAACGCCGTGGGGCCACTGGAGAGCGTCGAGTCCAGCGATGGCTACACCTTTGTA
GAGGTCAAGCCCCGGCCGCGTGTGCGGGTGAAGCATGCAGGACCCGCCCCAGCCGCTGCCCCACCTCCACCATCA
TCCGCATCCTCGGATGCAGCCCAGGGGGACCTCTCCGGCTTGGTCCGCTGTCAGCGCCGGATCACCGTGTACCGC
AATGGGCGGTGCTGGTGAAAACCTGGGCCGAGCCCCCTCGAGCCGACCTCCTACACGGGCAGAATGGCTCTGGG
GAGCCGCCCGCCCTGGAGGTGGAGCTGGCAGATCCGGCGGGCAGCGATGGCCGCTTGGCCCCGGCAGCGCA
GGCAGCGGCAGCGGCAGTGGCAGTGGTGGGCGGCGGCGGAGCCAGGCGCCCCAAGAGGACCATCCATATTGAC
TGTGAGAAGCGCATCACTAGCTGCAAAGGCGCCAGGCCGACGTGGTGTCTTTTTTCATCCATGGTGTGCGCGGT
TCCCTGGCCATCTGGAAGGAGCAGCTGGACTTCTTTGTGCGCTAGGCTATGAGGTGGTGGCTCCTGACCTGGCC
GGCCACGGGGCCAGCTCTGCGCCCCAGGTGGCCGAGCCTACACCTTCTATGCGCTGGCTGAGGACATGCGAGCA
ATCTTCAAGCGCTATGCCAAGAAGCGAAATGTGCTCATTGGCCATTCTACGGTGTCTTTTCTGCACATTCTTG
GCACATGAGTACCCAGACCTAGTGACAAGGTGATCATGATCAATGGCGGGGGCCCTACGGCGCTGGAGCCCAGC
TTCTGCTCAATCTTCAACATGCCCACCTGCGTCTGCACTGCTTGTGCGCTGCTGGCCTGGAGCTTCTCAAG
GCCGGCTTCGCCGCCAAGGAGCCAAGGAGAAGCAGCTGTAAAGGAGGGCAACGCTTTCAACGTGTATCCTTC
GTACTCCGGGCCATGATGAGCGGCCAGTACTGGCCCCAGGGCGACGAGGTCTACCACGCCGAGCTACCGTGCCC
GTCTGCTTGTCCACGGCATGCACGATAAGTTTGTGCGGTGGAGGAAGACCAGCGCATGGCCGAGATCCTGCTC
CTGGCATTCTGAAGCTCATCGACGAGGGCAGCCACATGGTGATGCTGGAATGCCCTGAGACGGTCAACACGCTG
CTCCACGAATTCTGCTCTGGGAGCCCGAGCCCTCGCCCAAGGCTCTACCGGAGCCACTGCCGGCGCCTCCAGAA
GACAAGAAGTAGCCGCTGGGCCGGCGGGGCATCGCTTGGTGAGCACAGCCGAGCAGGAGGAGGCCGAGCCTGC
GCCAGTCTGCAGCGCAGACCACCTGGGCGGGCCGTTTCGCTCCGGTGGGCGGGGCCAGGTACAGGAGACGCCCC
AGGCTGCTTGGGCGGGCGTGGCATCCGAGGGAGCCAGCGGACATTCCGCTCTCCGCTTCCGTCCCGGGGGCC
CATCGGCGTTTTGGGGCCGAGCCGGGACCCTACGGAAGATGACCTTGTACAGAAGCTCTCCCTCACCTTCCCC
CCAACGCCACGGCCAAGGCAGGCCCCCAACCCGCTGTCTTCCGTGTACGCCGTGCTTGATCCTGGGACCCACGA
GCCCCACAGGGACCTCGAGGCCCCATCCCGTTATCCGAGACCCTTCCTACCCCCATTCTCGGCGCTGGGAGC
TATTTTTGCCCAAGGGGGGGGATGGGGGGGCTGGCGCCACCGAACCTGCACATCTCAACTTGTAACCTCAATAAA
CAGAAGTGACAATCGG

4187/5332
FIGURE 3641

GCGGCTCTGGGCTCCGGAATCGCCCGCAGCCGGTACTGCGGGACCCACTGCGGATATGGCTGTCTTGGCTGGATC
CCTGTTGGGCCCCACGAGTAGGTCGGCAGCGTTGCTGGGTGGCAGGTGGCTCCAGCCCCGGGCCTGGCTGGGGTT
CCCAGACGCCTGGGGCCTCCCCACCCCGCAGCAGGCCCGGGGCAAGGCTCGCGGGAATGAGTATCAGCCGAGCAA
CATCAAACGCAAGAACAAGCACGGCTGGGTCCGGCGCCTGAGCACGCCGGCCGGCGTGCAGGTCATCCTTCGCCG
AATGCTCAAGGGCCGCAAGTCGCTGAGCCATTGAGGATCGCGACGCAGTCGGCGGGACCCTCATGGAAGCATCGC
CCTCGCCTCGGACCTTGCCCTGGCGCTATTTTTGCAGGGAGCTGGGGAGCAGGAACGCCTCGGACCTGAGTGCTCT
CCATATTGTGGGGTTGAAGTCTGGATGGGAGCTTGCCAAGTCCCTTTTAGGCTTTTAATTAGGAAGCATTCG
AACCTGCGCAACAGACCAAAGAACAGTACAAAGAACATCCGTGTACCCAGTACCCTGACTACCGACTACCTACAA
CCCGTCCCTGCCCCATCCTGAGTTCTTTGAAGCTGATCTCAGGCATCGGATTATTTCTTCTGTAAATATTTCAG
AATGTATCTCTCCAAGATGAGAGCTCATTAAAAGACAATTACAAAGCTTATCACATCCAAAAGAATTATCAATAA
TTTTGAAATATTATTAAACGTGTAATAAATGTTCAAAGTTCCACTTGC

4188/5332
FIGURE 3642

GGGAGGTGGTGGCGCCATCAGTGTGGGCTGTGCCGTGGCTGGAAGTTACTGTGAGGCGGCGGCTAAGAAGGCGGC
TCTGGTGGCGGCGGTGGAGGCTGAGGCGGCGGCCGAGGCGGCGACGGAGGAAACAGAAGATGGCAGATTTTTTGA
AAGGACTGCCTGTCTACAACAAAAGCAATTTTAGTCGATTTACGCGGACTCCGTGTGCAAAGCCTCGAACCGAC
GGCCCTCAGTCTACCTGCCTACCCGCGAGTACCCGTCTGAACAGATCATCGTGACAGAAAAGACAAACATCCTCC
TGCGCTACCTGCATCAGCAATGGGACAAAAAGAACGCTGCCAAGAAGAGAGACCAGGAGCAAGTGGAGCTGGAAG
GCGAGAGCTCCGCACCTCCCCGCAAGGTGGCGCGGACCGACAGCCAGACATGCACGAGGACACTTAAGACTCTC
AACTCCACAGGCGCCTCCTGCCAGGTCTGCTCCTCGGTGCGCCACCCGCCTGCCCCGCCATGTGTAAGCACCCGC
CCGCCCCGCTCCCTGCCGGCCCATCCACACCCTGCGTCCACACCACTTCCAACCTCATAGGAGCCGATGTATTTA
TTTTCTTGAGTTTTTATTTATGCTGTAACTGTATCAAGCGTTGGTTAAAGGGGACATCAGACCCAGTAGTGTG
ATGTTGGTAGATGCTTTTTAAAAAAACAACATTGTCCCCCGACCCCGCCTTCCATCGGGCCAGTTCCCCGAT
TCCTGCCCCCAGTTCTCCAGAGAACCAGAGTGTGTCTGTGAGAGTCTCTAGCGGGGGCTTTACTGTGGCCGGGCG
ACAGGGGCGGGCCCGGGGTGGCCTGACCTACCAGGACAGCCGAGTGGCCTTCTCCCCCAACACCGGTCCAGGC
CATTGAGACTCGGTCTTGTCCCACGCTTCGCCCCGAACTTTCCCATGCCAGGCCTCACTCAGCGTGCACGCACG
TTGGGGAGAAGTCGGCCCTTGGGATCTTTCTCTTGAGTCATTTTATTTTATCATGGACTAGTGCGTGCTCCGTG
TCCACCCCAATAAAAGGGTCTTTCCTA

4189/5332
FIGURE 3643

GGTGAGCAGGGACGGTGCACCGGACGGCGGGATCGAGCAAATCGGGTCTGGCCATGGAGCACGGAGGGTCTACGC
TCGGGCGGGGGCAGCTCTCGGGGCTGCTGGTATTACCTGCGCTACTTCTTCCTCTTCGTCTCCCTCATCCAATT
CCTCATCATCCTGGGGCTCGTGCTCTTCATGGTCTATGGCAACGTGCACGTGAGCACAGAGTCCAACCTGCAGGC
CACCGAGCGCCGAGCCGAGGGCCTATACAGTCAGCTCCTAGGGCTCACGGCCTCCAGTCCAACCTTGACCAAGGA
GCTCAACTTCACCACCCGCGCCAAGGATGCCATCATGCAGATGTGGCTGAATGCTCGCCGCGACCTGGACCGCAT
CAATGCCAGCTTCCGCCAGTGCCAGGGTGACCGGGTCATCTACACGAACAATCAGAGGTACATGGCTGCCATCAT
CTTGAGTGAGAAGCAATGCAGAGATCAATCAAGGACATGAACAAGAGCTGCGATGCCTTGCTCTTCATGCTGAA
TCAGAAGTGAAAGACGCTGGAGGTGGAGATAGCCAAGGAGAAGACCATTTCGACTAAGGATAAGGAAAGCGTGCT
GCTGAACAAACGCGTGCGGGAGGAACAGCTGGTTGAATGCGTGAAAACCCGGGAGCTGCAGCACCAGAGCGCCA
GCTGGCCAAGGAGCAACTGCAAAAGGTGCAAGCCCTCTGCCTGCCCCTGGAACAAGGACAAGTTTGAGATGGACCT
TCGTAACCTGTGGAGGGACTCCATTATCCCAGCGAGCCTGGACAACCTGGGTTACAACCTCTACCATCCCCCTGGG
CTCGGAATGGCCTCCATCCGAGAGCCTGCGACCACATGCCAGCCTCATGAGCTCCAAGGTGGAGGAGCTGGC
CCGGAGCCTCCGGGCGGATATCGAACGCGTGCGCCGCGAGAAGCTCAGACCTCCAACGCCAGAAGCTGGAAGCCCA
GCAGGGCCTGCGGGCCAGTCAGGAGGCGAAACAGAAGGTGGAGAAGGAGGCTCAGGCCCGGGAGGCCAAGCTCCA
AGCTGAATGCTCCCCGCGAGACCCAGCTAGCGCTGGAGGAGAAGGCGGTGCTGCGGAAGGAACGAGACAACCTGGC
CAAGGAGCTGGAAGAGAAGAAGAGGGAGGCGGAGCAGCTCAGGATGGAGCTGGCCATCAGAACTCAGCCCTGGA
CACCTGCATCAAGACCAAGTCGAGCCGATGATGCCAGTGTCAAGGCCCATGGGCCCTGTCCCCAACCCCGAGCC
CATCGACCCAGCTAGCCTGGAGGAGTTCAAGAGGAAGATCCTGGAGTCCAGAGGCCCCCTGCAGGCATCCCTGT
AGCCCCATCCAGTGGCTGAGGAGGCTCCAGGCCTGAGGACCAAGGGATGGCCCGACTCGGCGGTTTGCGGAGGAT
GCAGGGATATGCTCACAGCGCCCGACACAACCCCTCCCGCCGCCCCAACCACCCAGGGCCACCATCAGACAAC
TCCCTGCATGCAAACCCCTAGTACCCTCTCACACCCGACCCGCGCCTCACGATCCCTCACCAGAGCACACGGC
CGCGGAGATGACGTCACGCAAGCAACGGCGCTGACGTCACATATCACCGTGGTGATGGCGTCACGTGGCCATGTA
GACGTCACGAAGAGATATAGCGATGGCGTCTGTCAGATGCAGCACGTGCGACACAGACATGGGGAAGTTGGCATG
ACGTCACACCGAGATGCAGCAACGACGTCACGGGCCATGTCGACGTCACACATATTAATGTCACACAGACGCGGC
GATGGCATCACACAGACGGTGATGATGTACACACAGACACAGTGACAACACACACCATGACAACGACACCTATA
GATATGGCACCAACATCACATGCACGATGCCCTTTACACACACTTTCTACCCAATTCTCACCTAGTGTACGT
TCCCCGACCCTGGCACACGGGCCAAGGTACCCACAGGATCCCATCCCCTCCCGCACAGCCCTGGGCCCCAGCAC
CTCCCCTCCTCCAGCCTCCTGGCCTCCCAGCCACTTCTCACCCTCAGTGCCTGGACCCGGAGGTGAGAACAGGA
AGCCATTACCTCCGCTCCTTGAGCGTGAGTGTTCAGGACCCCTCGGGGCCCTGAGCCGGGGGTGAGGGTCA
CCTGTTGTCGGGAGGGGAGCCACTCCTTCTCCCCAACTCCCAGCCCTGCCTGTGGCCCGTTGAAATGTTGGTGG
CACTTAATAAATATTAGTAAATCCTT

4190/5332
FIGURE 3644

ATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTTCTGCTGGGG
ATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAGGCCAACAGC
GAGGCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTGCAATGTCACCCATCTCCTGCAACAAGAGCTGACC
GAGGCCCAGAAGGGCTTTCAGGATGTGGAGGCCAGGCCGCCACCTGCAACCACACTGTGATGGCCCTAATGGCT
TCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACATTAAACCAT
AAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGAATCGCGGAC
AAGAAGTACTACCCAGCTCCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTGCTGGGCCTC
AGCGCTCTGCTGCAGTGAGATCCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCCTGCTCGGCTTTTCGCTTGAA
CATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGGGTAGCCGGA
GAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGAAGTCTGGGTGTGGGGACACAGTCGGGTGACCCAGG
GCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCCTGAGATTGGGCATGGGG
TGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTGCGGGGGGGTGTCTTTTTCTGGGGTCTT
TGAGCTCCAAAAATAAACACTTCCTTTGAGGGAGAGC

4191/5332
FIGURE 3645

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTCGGTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATCGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCTGTCGGCCTCTGCACCCCGCCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCGCTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGTATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCCTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGAAGAAGGCCAAGGCCCGAGGGC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA
TAAACTACTACCCGGTTCTCGCC

4192/5332
FIGURE 3646

GCCGGAGTTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCCGAGGGCAT
CTTGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCCTACTGCCCCCTTGGCACAGATCCCCAGCAA
GGGCATGGACGATCGTCTTTTCTACATCTACACGTGCGGGACCACCGGGCTGCCCCAAGGCTGCCATTGTCGTGCA
CAGCAGGTACTACCGCATGGCAGCCTTCGGCCACCACGCCTACCGCATGCAGGCGGCTGACGTGCTCTATGACTG
CCTGCCCCCTGTACCACTCGGCAGGAAACATCATCGGCGTGGGGCAGTGTCTCATCTATGGGCTGACAGTCTCTCT
CCGCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAAGTGTACCTGGCACGGCCCATCCTG
GACTGAGAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCCTTGGTGCCCCCTGTGTCTGCCTCCTCTCCC
TGCTTTTTCAGCCTCTGTCTCCTTCCATCCCCTGTCCCTGTCTGGCCTTAACTCTTCCCTCTTTTTCTTTTCTTTCT
TTCTTTCTTTTTTTTTTAAGATAGAGTCTCACTCTGCTGCCCCGGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
TGCAACCTCTGCCTCCTGGGGTTCAAGTGATCCTCCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
CCACCACGTCCAGCTAATTTTTATATTTTATAGTAGAGACGGGGTTTCA'CCATGTTGGTCAGGTTGGTCTTGAAC
CCTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGCTGGGATTATAGGCGTGAGCCTCTGGCCCCGGCCT
TTCTTTTTCCTCTCCTCTCCTGCGGAGAGTGGAACACGCGTGTCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCTCTCGGC
TGTGCCCTTACGGAGCCCCGATCCAGGCCTCCTGTGGCTGTTGGGTTCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCTGCTGAATGGAGGAGCCGGGGGTCCCCAGGCCAACTGGAAAATCTCCCAGGCTA
GGCCAATTGCCTTTTGCACCTTCCCCGTTCTGTACATTTCCCCAGCCCCACCTTCCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACTTGGATGTCAACCTGTGAGCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGCCCTGAACCCTGCACTGCGTGGCTGCCAGCCAGCTGCCTCCTGTCTCTGGGAG
GAGGCCTCCTGGGTGTCTCATCTGGTGTGTCTACTGGAGGGTCCACAGGAGAGGCAGCAGAGGGGTGAGGGGA
GGTCTCCTGCCGGGGGTGGCCTCTCAAGCCTCAGGGGTCTAGCCTGTTGAATATACCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTGGTGGCGATGTCCAGACAATCCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAACATCCACGCCAGCCTTTCTGGGGCCGGCCACCCAGGCC
GCCTGTCCGTCTGTCTCCTCCAGCAGACCCCTGGCCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACCTTCTGGGCACTGTGGTTTTATTTCCTAATTGATTTAAGAAATAAACCTGAAGACCGTC

4193/5332
FIGURE 3647

CCGCCGCCGCCCTCGCCATGGCCGCGCCGGCCCCGGGCCTCATCTCGGTGTTCTCGAGTTCACAGGAGCTGGGTG
CGGCGCTAGCGCAGCTGGTGGCCCAGCGCGCAGCATGCTGCCTGGCAGGGGCGCGCCCGTTTCGCGCTCGGCC
TGTCGGGCGGGAGCCTCGTCTCGATGCTAGCCCGCGAGCTACCCGCGCCGTCGCCCTGCCGGGCCAGCTAGCT
TAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCACGTACGGCCTCT
ACCGGACGCATCTTCTCTCCAGACTGCCGATCCCAGAAAGCCAGGTGATCACCATTAAACCCGAGCTGCCTGTGG
AGGAGGCGGCTGAGGACTACGCCAAGAAGCTGAGACAGGCATTCCAAGGGGACTCCATCCCGGTTTTTCGACCTGC
TGATCCTGGGGGTGGGCCCCGATGGTCACACCTGCTCACTCTTCCCAGACCACCCCTCCTACAGGAGCGGGAGA
AGATTGTGGCTCCCATCAGTGACTCCCCGAAGCCACCGCCACAGCGTGTGACCCTCACACTACCTGTCTGAATG
CAGCACGAACTGTCATCTTTGTGGCAACTGGAGAAGGCAAGGCAGCTGTTCTGAAGCGCATTTTGGAGGACCAGG
AGGAAAACCCGCTGCCCCCGCCCTGGTCCAGCCCCACACCGGGAACTGTGCTGGTTCTTGGACGAGGCGGCCG
CCCGCCTCCTGACCGTGCCCTTCGAGAAGCATTCCACTTTGTAGCTGGCCAGAGGGACGCCGACGTGGGACCAG
GCACGCGGCCCATGGGGCTGGGCCCCTGCTGGCCGCCACTCTCCGGGCTCTCCTTCAAAAAAGCCACGTGCTGCT
GCTGCTGGAAGCCAACAGCCTCCGGCCAGCAGCCCTACCCGGGGCTCAACACACAGGCTGTGGCTCTGGACATCC
GGATATTAAAAGGAGCGTTGCTGG

4194/5332

FIGURE 3648

CCCCTTTAAGGCGCGGCCAGAGTCCTCCCGCAGAAAAACGACTTAAAGGAGACGCGTGGCGCGATGCGCGCGGCC
CCACGCGCGGGCCGGCGGGCGGGCAGCCGCTCCTGGCGCTGCTGCTTCTGCTGCTGGCGCCACTGCCGCCGGGG
GCCCCGCGGGGCGCCGACGCCTACTTCCCCGAGGAGCGCTGGAGCCCGAGTCGCCCCCTGCAGGCGCCGCGCGTG
CTCATCGCGCTGTTGGCGCGAAACGCGGCCCCACGCGTTGCCACCACGCTGGGCGCACTCGAGCGGCTGCGGCAC
CCGCGGGAGCGCACGGCGCTATGGGTGGCTACGGACCACAACATGGATAACACGTCAACTGTGCTGCGGGAGTGG
CTGGTGGCCGTGAAGAGTTTGTACCATTCGGTGGAGTGGCGGCCAGCAGAGGAGCCCAGGTCTTACCCGGACGAG
GAAGGCCCCGAAACACTGGTCTGACTCACGCTACGAGCATGTCATGAAGTTGCGCCAGGCAGCCCTGAAATCAGCT
CGAGACATGTGGGCTGATTACATCCTGTTGTAGATGCGGACAACCTGATCCTCAACCCTGACACACTGAGCCTG
CTCATCGCTGAGAACAAGACGGTGGTCGCCCCCATGCTGGATTCCCGGGCTGCGTACTCCAACCTTCTGGTGTGGA
ATGACTTCCCAGGGCTACTACAAGCGCACACCTGCCTACATCCCTATCCGCAAGCGAGACCGCCGGGGCTGCTTT
GCAGTTCCCATGGTGCACCTCGACCTTCTGATCGACCTGCGGAAGGCGGCGTCCAGGAACCTGGCCTTCTACCCA
CCTCACCTGACTACACCTGGTCTTTGACGACATCATCGTCTTTGCCCTTCTCCTGCAAGCAGGCAGAGGTTTCTAG
ATGTATGTGTGCAACAAGGAGGAGTACGGATTCTTGCCAGTGCCATTGCGCGCCACAGCACCTCCAGGATGAG
GCCGAGAGCTTCATGCATGTGCAGCTGGAGGTCATGGTGAAGCACCCGCCCGCAGAGCCCTCCCGCTTCATCTCG
GCTCCCACCAAGACACCGGACAAGATGGGCTTCGACGAGGTCTTCATGATCAACCTGAGGCGGCGGCAGGACCGG
CGGGAGCGCATGCTGCGGGCGCTGCAGGCACAGGAGATCGAGTGCCGGCTGGTGGAGGCCGTGGACGGCAAAGCC
ATGAACACCAGCCAGGTGGAGGCGCTGGGGATCCAGATGCTGCCTGGCTACCGGGACCCCTACCACGGCCGGCCC
CTCACCAGGGTGAGCTGGGCTGCTTCTGAGCCACTACAACATCTGGAAGGAGGTGGTGGACCGGGGGCTGCAG
AAATCGCTTGTGTTTGGAGATGACCTGCGTTTTGAGATCTTCTTCAAGAGACGTCTGATGAACCTCATGCGGGAT
GTGGAGCGGGAGGGCCTGGACTGGGACCTCATCTATGTGGGCCGGAAGCGGATGCAGGTGGAGCACCCCGAGAAG
GCTGTGCCTCGCGTGAGGAACCTGGTGGAGGCCGACTATTCTACTGGACAGTGCTGCCCGGGATGAACTCTGAG
GGGTAGCAGCCAGAAAGCCAAAGCAGCCATCGGTGGCCAGGCTCCACGTGCTTACTGAGGACATCAGGTCCACC
TCTGGACCCCTTGGCAGGCCACAGAGGGCTCTCGTGTGGGGTGGTGTCCAGCCA

4195/5332
FIGURE 3649

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCTCCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCCCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCACCTTCTCCAGGTCTGAAGGACAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGACAGCGCCCATACTCACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCTGGCACCCGCTGTGCCTGGCCTTACAGGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCGGCG
CAGCTGCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGTGTCTGGAGCCCCGACCTCCGGGGCTTCTCAGGCTGGGCCGGCCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGCGGCACCTGGACCGCGTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTTCTTCAACGCTGCGAGGCCGCGTCCGCGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCCTGGCGCAGCTGGGCATCACGCCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGTCTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGCGCCGAGCGCACGCTGGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCCTGTGTTCCCCGTTGACCCCCGCCGCTGCCTCCTGGACGGCCTGGTCCGCTGCAG
CACTTGAGGTTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAAGACCCCCGGGAG
TTGAAGAAAGACCCCAAACCGAGTGTCTCCCGACCCAGCCGCGGAGGTGCGCCGGGACGCTCTCTGTGCCC
AACCTCAAGAAGACGAATGCCCAGGCGGCACCCAAGCCCCGCAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGAGCCCGCCAGCCTCCGATGTGAGAAGCCAGCCCCCAGTGACAGCTTGGGC
TCTCCGGCCTCCAGCTGGTGGCCACGCCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTCCCCCTGAGTCCACCGGAGCCCCGAGAG
GGCAGCGAGCGGCTGTGCTGAGCCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCTCACCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTGCG
GTGTCTTTGAGCAGGTGCTGCCGCCATCCGCCCCACCAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGCCCGGTACAGGAACGGGCA
GGTGGGCTGGGGGCGGAGGAGACGCCACCCACATCGGTGAGCGAGTCCCTGCCCACCCTGTCTGACTCGGATCCC
GTGCCCCCTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCTTG
CCTGACCCCCCTCAAGGTCCCCCACCCTGCCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCCC
CCCAAGACAGCACGGCAAACGGAGAACGTGAGCCGACCCGGAAGCCCTGGCCCCGCCCAACTCACGCGCTGCC
GCCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACTC
AGTGCCCCGAGTGAGCCCACTGAGAAGGGAGGCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGCC
ACTCGAGGCCGCTCGGGGTGAGCCAGCAGCGGGCCGGGGTGTGAGCCACCCACCCAAGTCCCCGGTCTACCTG
GACCTGGCCTACCTGCCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTCTTCCAGCGCGTGCGCGCGCTC
TGCTACGTATCAGTGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCCGCTCCTGGACGCGCTACTGGCCAGC
AAGCAGCATTGGGACCGTGACCTGCAGGTGACCCTGATCCCACTTTCGACTCGGTGGCCATGCATACGTGGTAC
GCAGAGACGCACGCCCGGCACCAGGCGCTGGGCATACGGTGTGGGAGCAACAGCATGGTGTCCATGCAGGAT
GACGCTTCCCGGCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCGCCTGT
CCCTAGATTACGCCACATCAGAAATAAATGTGACTACACTTG

4196/5332
FIGURE 3650

CGCGCCGCAGCCGCGGAGGGAGGGGCGGGGCTCCGGTGTCTAGCGACCAAGCCGCAGGTGGCGGCGAGCGCG
GGGCTCGGCCCGAGCTCAGGAGATGGGGAAGTCTAGGACCGGAGCTGGACAGTGACTCAGACACCAGACAGGCAC
TGGACGGGGCTGCAGGGGTCTCCACAGAGACCATCAGGATGTCGTATTTTGGGGAGCATTTTGGGGCGAGAAA
AATCATGGCTTTGAGGTCTGTACACAGCGTGAAGCAGGGGCCCATCTCCACCAAGGAGCTGGCGGACTTCATC
CGGGAGAGGGCCACCATCGAGGAGACCTACTCGAAGGCGATGGCGAAACTCTCCAAGCTGGCCAGCAACGGGACC
CCCATGGGGACCTTCGCCCGCTCTGGGAGGTCTTCGCGTCTCTCGGACAAGCTGGCGCTGTGCCACCTGGAA
CTGACACGGAAGTTACAGGATCTCATCAAGGACGTTCTCCGCTACGGCGAGGAACAGCTCAAGACCCACAAGAAG
TGCAAGGAGGAAGTGGTGAGCACCTTGGATGCTGTGCAGGTACTCTCGGGCGTCAGCCAGCTCCTGCCAAGTCC
CGCGAGAACTACCTGAACCGTTGCATGGACCAGGAGCGGCTGCGGAGGGAGAGTACCAGCCAGAAGGAGATGGAC
AAGGCGGAGACTAAAACCAAGAAGGCGGCAGAGAGCCTGCGGCGCTCAGTGGAATAACAACCTCAGCCCCAGCT
GACTTTGAGCAGAAGATGCTGGACTCAGCCCTGCGGTTCCAAGCCATGGAGGAGACACACCTGAGGCACATGAAG
GCACTGCTGGGCTCATATGCTCACTCGGTGGAGGACACGCACGTGCAGATTGGGCAGGTGCATGAGGAATTTAAG
CAGAACATCGAGAACGTGAGGTGGAGATGCTACTCAGGAAGTTTGCAGAGAGTAAGGGCACAGGCCGGGAGAAG
CCTGGACCTCTGGACTTCGAGGCATACAGTGGGCTGCCCTGCAGGAAGCGATGAAACGTTTGGGGGAGCCAAG
GCCTTTGCGCTTCAGGACTAAGCCGGCGGGAGCGGGAGCCAGAGCCACCTGCAGCTGTAGATTTCTGGAGCCC
GATTACAGGGACATGTCCAGAGGTGGATGAAGAAGTTTCACTGTCCGGCCTGATGTGACCCAGAACAGCACGGCC
GAGCCCTCCCGTTTCTCGTCCAGCGACTCCGACTTCGACGATGAAGAGCCCCGCAAGTTCTATGTGCACATCAAG
CCTGCCCCGGCCCGGGCTCCAGCCTGCAGCCCCGAGGCAGCAGCGGCACAGCTCAGGGCCACCGCGGGCAGCCTC
ATCCTTCTCTCTGGCCCAGGGGACCATGAAACGCCATTCTTCACGGGACGCTGCTGGGAAACCCAGAGACCT
CGGTCTGCCCCCAGAACCAGCAGCTGTGCAGAGAGATTGCAGTCAGAGGAGCAGGTGTCCAAGAACCTCTTTGGG
CCGCCCCCTGGAGTCAGCCTTTGACCACGAAGATTTTACAGGCTCTAGCAGCCTGGGCTTCACCTCCAGCCCCCTC
CCTTTCTCTCTCTCTCGCCCCGAAACGTGGAGGATTCCGGCCTGGACTCTCCGTCCCACGCGGCACCTGGCCCC
TCCCCAGATTCTGGGTCCCCCGCCAGGCACCCCGCAGAGCCCCGCCCAGCTGTAGGGCGCCACCCCCAGAGGCC
AGGGGTATCCGGGCACCGCCTCTGCCAGACTCGCCCGAGCCCCCTCGCCTCGTCTCCAGGCCCTTGGGGCTGGAG
GCCTTGGCCGGAGGAGACCTGATGCCTGCACCTGCTGACCCACAGCCAGGGAGGGCCTGGCAGCCCCACCCAGG
AGACTTCGCTCTAGGAAGGTGTCTCTGCCCTCTCACACGTAGCAATGGGGACCTGTCTCGTTCCCTGAGCCCCCTC
CCTAGTGGGCTCTTCAGCCGCCAGCACTGCCTTGGAAACGGCCAGCTTCTTATCCAGACAGGACACGGAGTCTCC
CGGGGTCCGAGCCCTGTGGTCTCTGGGCTCCCAGGATGCCCTGCCCATAGCCACAGCCTTCACAGAGTATGTCCAC
GCCTACTTCCGTGGCCACAGCCCCAGCTGCCTGGCTCGAGTAACCTGGGGAGCTGACCATGACCTTCCCTGCTGGC
ATCGTGCCTGTGTTTACGCGGGACCCACACCACTGTCTCAGCTTCCGGCTGTACACACAACCGCTATTGAG
CACTTCCAGCCCAACGCCGATCTGCTGTTTCACTGACCCCTCCAGAGTGACCTGAGACCAAGACTTCTGGCTC
AACATGGCAGCTCTGACCGAAGCCCTGCAGCGCCAGGCAGAGCAGAACCCCACTGCCTCCTACTACAACGTGGTG
CTGCTGCGATACAGTTCTCCCGCCCGGGTCCCCAGTCTGTGCCTCTGCAGCTCAGTGCCCACTGGCAGTGTGGA
GCCACCTCACCAGGTCTCAGTGGAGTACGGCTACCGGCCGGTGCCACGGCTGTGCCACACCACTACGAAC
GTCCAGATCCTGCTGCCTGTGGGGGAGCCTGTGACCAACGTCCGCTTGCAGCCGGCTGCCACCTGGAACCTGGAG
GAGAAGCGGCTCATTGGAGGCTTCCAGATGTGTCCGAGGCAGGCGGTTCTGGCCGCTCTCTGCCAGCTGGGAG
CCGCTCTCAGGGCCAGCACACCCAGCCCCGTGGCTGCACAGTTACACAGCGAGGGGACCACTCTGTCCGGCGTG
GACTTGGAACTGGTGGGCAGCGGTTACCGCATGTCTGCTGGTGAAGAGGAGGTTTGCCACAGGGATGTACCTGGTG
AGCTGCTGAACCCGCAAAATGCTGCTGCCCCAGCTCTACACTGCGCCTGGTGCTGGCTGACCACCCCTGCCCTC
CTGCCGACCCCTGGGGCCTCCACCCAGCCTCCCTGAGGCCATACTCCACGGAGAGGAGCCCCATGCCAGCC
TGGCTGAGCCCCGAGATTGCTCTCTCCCCCTCATGCCAACCCACACAGGTCCCGGCCTTTTAATGTTCTTTGAAT
AAACACTTTATTTTCTAATAAAATAAAAAAGGAAACCT

4197/5332
FIGURE 3651

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACC GCGCCCGAGCCCACTCCATTCAAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

4198/5332
FIGURE 3652

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGTGGCCA
CGTCCAGCAAGGTCACCCGGGGCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCTGCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCAAGTGAGCCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCTCCCGCCAGAGGGTCCCTGCCCGGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

4199/5332
FIGURE 3653

GGGATTTTCTGCTCCGGTTGGTGAGCGCGCCTGCGCGTTGACGGCGAATTTGCGTTCTGAGGCTGCAGCGTCGGC
ATCTTGAGCTGCCGTTTCGCGAGTTTCGAGGCCAGGTTCCGCCTGTCTGTTGGTTTCGCACCCCGGACGCGATGCTAT
TCGACAAGGTGAAAGCGTTCTCGGTGCAGTTGGACGGCGCGACCGCGGGCGTCGAGCCCGTGTTTAGCGGCGGGC
AGGCCGTGGCGGGCCGGGTGCTGCTGGAGCTGTCAAGCGCGCGCGTGTGGGTGCCCTGAGGCTGCGCGCGCGGG
GCCGCGCCACGTGCACTGGACCGAGTCGCGCAGCGCGGGCTCGAGCACGGCTTACACGCAGAGCTACAGTGAAC
GCGTGGAGGTGCTGAGCCACCGCGCCACGCTCCTGGCGCCAGATACCGGGGAGACCACGACGCTGCCTCCTGGGC
GCCATGAGTTCCCTGTTCACTTCCAGCTGCCCCGACCTGGTGACATCCTTCGAGGGCAAACACGGTAGTGTCC
GCTACTGTATCAAGGCCACCCTGCACCGGCCCTGGGTCCAGCACGCCGGGCAAGGAAGGTGTTCACTGTCTATCG
AGCCTGTGGACATCAACACGCCAGCCCTGCTGGCACCTCAAGCGGGGGCTCGGGAAAAGGTGCCCCGATCCTGGT
ACTGTAACCGTGGCCTAGTCTCCCTTTTCGGCCAAGATCGACCGCAAGGGCTACACCCAGGAGAGGTATCCCTG
TCTTTGCCGAGATCGACAACGGCTCCACACGTCTGTGTGCTCGGCGAGCCGTGGTGCAGACACAGACGTTCA
TGGCCCGAGGCGCCGAAAGCAGAAACGGGCAGTGGTGGCCAGCCTCGCGGGCGAGCCGGTGGGCCCCGGGCAGC
GGGCGCTGTGGCAGGGCCGGGCACTGCGGATCCCCCAGTGGGTCTTCCATCCTGCACTGCCGCGTTCTACACG
TGGACTACGCACTCAAGGTCTGTGTGGATATCCAGGAACGTCCAAGCTGCTGCTGGAGCTGCCACTGGTGATCG
GCACATTCCCTTGCAACCTTTTGGCAGCCGTTCTTCCAGCGTGGGCAGCCACGCCAGCTTCTGCTGGACTGGA
GGCTGGGGGCTTGGCGGAGCGGCTGAGGCTCCTCCTGAGTACTCGGAGGTGGTAGCCGACACTGAGGAGGCAG
CCTTGGGGCAGAGCCCTTCCCGCTTCCGCAGGACCCCGACATGAGCCTTGAAGGCCCGTCTTCCGCTACATCC
AAGAGTTCGCTACCGCCCGCCACCCCTGTACTCTGAGGAGGATCCAAACCCACTCTTGGGGGACATGAGGCCGC
GCTGCATGACTTGCTGAAACGGCACAGGGACCCCTCGAGGAACAAGGTTGCACACCAGCTTTCAGCCACCATGACT
GTGGGGAGTGGCTGGACCAAGGGCTGACCTCCCCGACTGCATCAAAGTTGGGGAACCAAGTCTCAGAGTGAGGCG
GGGGCCTTTTCGGATATCACATGGGACAGAGGAAGAGCCCGGTGGAATCTGACTTACCTGGACCGCTGTCTTGT
GAGGCATTGAATGCCCAGTGCAGTATCCGAGAGACTGTTTAATAACCTGTCTTCCAGCCAATTGGTGGTGCTGG
AATCCCCTAGGAGCCTTCAGTCTGGGAGAAACAGAGCCAGACATAGACAGTTCCAGCATCACAGAACCAGAAGAA
GAGACCTGCAACTGTGAGAGTCCAGACAGGAAGCAGAGAAGGCGTCTTGGCGAAAGGGCATTTTAGCTGAGGCT
TTGGAGTACGAATAGGAGCTCAGCAGGCAGACGAATGAGGAATAAAGGTGAGAGAAGGTGAGAGCTGAGTGACGT
TTGGAATCCACCCGTTTATTGTAGAACTGGGGGTTTCAGAGGGCAGGTGCCTCAGAGTTGAGGCCACACAGTGAG
GTCTGGTGGGTGAAAGGACCCAGGAACGAGGCGTTTCAGGAAGCAGGTTGTCAGAGCTATGTGGAGTCTGTGGGT
GGCAGGGGCAGCGCTCCAGCCTTTGAAGACTTTGAAAGCCAGAGATTCTTGGCGCAGGCTTGGACTTCTTGGGA
GCTCCTCCAAGTACCCAGGGGCATCAGAGCTGCCTGGGTGTTACATGGCCCAGGGAACCCAGGTTTCAGGGTAGGA
CAGGCAAGACCAGATACCCAATGTGCAAAGTGAAACACTGGGCTCCCTGTAAACGATGAAGAATTCAAGACAG
TGACAGCATTACGTCACCCCTGGGGACAGAGGTGAGCCTAAGGTGACACACGGGGACTACTGTGCTTCCGGAGGC
TCCCTGTGTCTTGGAGGAGAAAAGCATTAGAGGGGGCAGCTGGACAAGCTCCCAACTGCAGAGTCCAGCCCTGG
CTGGGGCAGGGCCCCGGCCTGGGACTCAGCATTTCTGATATGCCTTAAGAATTCATTCTGTTTTGTACAATTATT
TTTTAAAGATAAACGTGTGGAGAAAG

4200/5332
FIGURE 3654

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCTCTGCCACCTCATCTGTAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTGGGATATACTTATACTAAAAAAATTTATTCATTGATGCTATGGTTTGAATGGTCCCCAAAGTTCATAT
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCACCTGTGCGCGCGGCTCTGGTGCAGTGGCGGC
GGCTCCTGTTCTGCGCAGCTCTCTCCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCGCCATGGCTTT
ACTTACTGCGGCCGCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCAGCATGCCAGTGC
TTCTTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGTATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAGAGGGCAGCTCTGCCTTCCCATGTGGTTCAC
CATGCTGGACAACCTTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCAAGCATATGCACGGGGTATCAGCCGAACCCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTGCGAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTCCACCAACATGTTAGGCTATACTGATCATCAGTTCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACAGCCACTTGG
TGGGCAGTGGCCTTTCAGACCCTTACCTGTCTTTGCGAGCAGCCATGAACGGGCTGGCAGGGCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTCAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTGACGAGAGTTTGTCTGAAACACCTGCCTAATGACCCCATGTTAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTTTGGGGTGTAC
GAGCATTGGGTGTACTGGCAGAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAGTACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGAAGTTAAATATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTGCAAGCCCTCAATAAGCCAGCAAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAACTATCCAATTAAATTAAGGT
CTGGGAGTGTTCGTTTCCCATTACTTTAATACTACCCCCCTCCCAGACTTCTACACCTGTTTACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAAGTAAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCAAGCTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCTCCTTCCCTCGTCCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTCTCCTTTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT
TGCACAGGTTTTTCACTCACTGCAATGCTCTACTTCTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

4201/5332
FIGURE 3655A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAACACTCGGGTGCCCCCTTACCTCAGGCTCCGCCTCGGCCTCGGTTT
ATCCGCCCCGGCTCGAATGCGCTCGGGCATTTCGCCCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGCGCGCG
AGGCGGGGATCCCGCGGTGCGGCGACGGTGGCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTACGCGG
GCTGCGGCGGCGGTGGCGGCCCGACAGGTGCGCGTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAAGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCCCTGTGGTTCGCTGTGACTGCTGGAGATAGAGGTCCAGCACCCCAAGCCAACCCAGCGGACCCCTCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCACCCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGCCGGAGGACCTGGAGC
TGCTGCCCCGCGACGTGCTGGTAGTGAGCGGGCGGCCCTTGCAGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCACAGAGCGTGGGCTGGATGCCCGGCCCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCTTGGGGCCCGTGGCCCTGGCCCGGCCCGGCCCTCGCCACGGGGCCCCCGCCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCCGACTTGGCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCTGCTGGCACTGCCCGCGCGCTCGTGACCCCCGAGGCCCTCGGCCGAGGCGCGCGGGCCCTGCGGG
AGGCGCGGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCGCGTGGCCAGCGCGCCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCGCGTGTGCTGCGCGCGCGCGCGCGCGCTCTCGCCGCGGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CCAGCCCTGACTTCCCGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCCGCTAAACCCCCCAAGGCAAAGCCGGCTCCACAGTCTTGCCCAATGGAGGGAGGCCACCCCTCCC
TGCAGGATGCTGAGTGGTACTGGGGGGACATTTCAAGGGAGGAGGTGAACGAGAAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAAGCGGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCACATATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACATGCCAAGCTGGACACACGGCTCCTCTACCCCTG
TGTCAAATACAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCTGCTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACAGTACCTCGTGTGGCTCACCCAGAAAGGCGCCCGGCAGAGAAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACCACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGTGCTACGCTGCTCCGTGGTAGTGGACGGCGACACCAAGCACTGCGTCATCTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCTGCACTACCAACGCGCT
CGCTGGTGCAGCACAAACGACGCGCTCACCGTACCCCTGGCGCACCCAGTGCAGCGCCCCGGGCCCCGGCCCCGCG
CTGCCGCCCCGCTGAGACCGGAGGACCCGCCCAAGCAGAGCCGCCCCCTGGGGCCCGTCTGCGCCGAGGCTGCGGC
GGCGGGAGCCACGGACCGACAGCCACATCCAGGGTCTCATTTCTCCGGCTCTGGCTCTTGTGTTGGGGTCTCT
CTCACCTCTTTCTCTTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCCTTTTCTCTGTCTTTCTTGG
CCCCTGTCTCTCTCATGTTGGGGGTCTAACTCCCCACCCCATATCTACGTGTCTCTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCCGGGTCCCGGAAGCCCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCCAGCCTGGGCACCCCTGATTTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGGGGCCGGGCGGGA

4202/5332
FIGURE 3655B

CCCGCCCCACAGACTCCAACCTCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGGAGACTCCTCCGTCTCAAAAAATAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCCCTCTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

4203/5332
FIGURE 3656

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCCTGCTGCGAT
GACCCTGTGCGCACTTCTGCTGTTCTGCCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC
GTCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAACTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTGCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCCCTTGGAAAGATCAGACCCAGCTCCTTACCCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTGTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCACCCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAACCTAGTTTAAT

4204/5332
FIGURE 3657

CGAAAGCAGAGCGGCGCGCCGGTTCTTGTTCTTGAGGGCGATGGCGCGGGGTGGCTGGCGCCGGCTACGCCGC
CTGTTATCCGCGGGGCGAGCTTCTATTCCAGGGCCGCGCGCTGCTCGTCACTAACACGCTGGGCTGCGGCGCGCTC
ATGGCGGGCCGGTGATGGCGTGCGCCAGTCCTGGGAGATCCGCGCCCGGCCCGGCCAGGTTTTCGACCCACGGCGC
TCCGCGAGCATGTTTGCGGTGGGCTGCAGCATGGGTCCCTTCTGCACTACTGGTACTTGTGCTGGACCGCCTA
TTCCCTGCGTCTGGCCTCCGAGGCTTCCCAAATGTCCTCAAGAAGGTCTCGTGGATCAGCTGGTAGCCTCTCCA
TTGCTGGGCGTCTGGGAATTCTACAAGGCAGACTGGTGCGTGTGGCCTGCTGCGCAGTTCGTGAACTTCTCTTC
GTGCCCCCCTAATTCGAGTCACCTACATCAACGGCCTGACGCTGGGCTGGGACACGTACCTGTCCTACTTGAAG
TACCGGAGCCCAGTTCCTCTGACACCCCGAGGCTGTGTGGCCTGGACACCCGAGCAGACTGAACTGTCTGCTTC
CTGGACCAGATGCAAGACTGTCTCTGGCGGACCACCCCTCTGACAGAAGGGGAATGGGCTCCTGCAGCAAGCT
CGGGTCTTGAGCCACGTCCCAGCACCACTTCAGCTCCGGAGCATTGGGCTGAGCCGCCCTTTCCAAGCTCACTTC
TGGGACTGAGTTTCTCAACCGGAACACACCCATGAAGATGGATGATCATCCCCTAGCCCTTCTCAGCAGGAACC
TCATGCGACCTGTGACCAAGATGTCCCATCCTCAGCACAGGGCCCACTCTGCCAACCAGTCTCAAGCACCAGCCC
CTCAACACTGCCATCCACCTGGCTCTGGGCCAAGCCACCAATCCAGAGCTCCCTCAGGTCTGGGACTAAGGCGG
GGACATGACTGATCCCCCTCAGAGCAGGCTCAGGCCTGGAGTCGGCCCCCAAAAGTTTACATAGGGCCAGGCAGC
CTCTGTGTTTCTTTCCCTGGTCTGAACTGTGGAAATGCCATTAACTCTCTCTATAATGTAAGTAACTGCTG
GCTGGGCGCAGTGGCTCCACCTGTAATCTCAGCCCTTCCCGAGGCTGAGGTGGAAGGATTGCTCGAGGCCAGGT
GTTGAGACCAGCCTGGGCAACATAGCAAGACCCTGTCTCTATTTATATTGAAAAATAAAAATAACAAAAG

4205/5332
FIGURE 3658A

GCACAGCCATCTGTGGTGA CTAGGAGGTCCCCAAGCCGAGGACACCCATCAAGGACCTTTAGAGTGGCCTCAGAC
CAAGGTCAACCAATCAATGGCTAACTGGGGGTCCCAAAACCTAGCCCAGCCATCTATGGACAGTGGGGAGCCCTCA
AGCCTAGCCCAGCCATCTCAAGCCCTGGGGTAACCTCAAATCTGGCCCAGCCATCTCAAGCCTTTGGGGTGTCT
CCAAGTCCAGACTACCCATCTCAGTCTGTTGGGGAGTACCCAATGCTGGCTCAGCCATTTTCAGCCCAGTGGGTG
TCCCCAAGTCCAACCTACCCATCTCAGGCCATTAGGGAGTACCCAACCTGGCCCACCCATATCAGCTCACTGAG
GTGTCCCCAAGTGACGCTACTCATATCAGCCCAGTGGGTGTCCCCAAGCCAGGCTACCTATCTATGGCCATT
GAGATGTCCCCAAGCCCAGAATACCCATCTGTGGCCACTGAGGTGTCCCCAAGCCCAGGCTACCCATCTCAG
ACTGAGATATCCCCAAGCTCAGGCTACCTATCTGTGGCCACTGAGGTGTCCCCAAGCCCAGGCTACCCATCTCAG
CTCACTGAGGTGTCCCCAAGCTCAGGCTACCTATCTGTGGCCACTGAAGTGTCCCCAAGCCCAGACTACTCATCT
CAGCCTACTGAGATGTCCCCAAGCTCAGGCTACCTATCTATGGCCACTGAGGTGTCCCCAAGCCCAGGCTACCCA
TTTCAGCCCAGTGGGTGTCCCCAAGCCCAGACTATCCATGTGTGGCCACTGGGGAGTCCCCTAGCCTTGCCAG
CCATCTCAGCCCAGTGGGTGTCCCCAAGCTCAGCCTACCCATCTGTGGTCACTGGGGAGTCTCCAAGCCTGGCC
CAGTCATATCAGCGCACTGAGGTGTTCCTAAGCCCAGCCTACCCATTTATGGCCACTGAGGTGTCCCCAAGCCCA
GGCGACCCATCTGTGGTCACTGGGGAGTCCCCAAGCCCAGCCTACCCATCTCAGCCCAGTGGGTGTCCCCAAGC
CCAGCCTACCCATCTCAGCCCAGTGGGGAGTCTCCAAGCCTGACCCAGCCATCTCTGACCATCAGAGTGTCCCCA
AGCCTAGCCATGTCTATCTCAGACTATTGGAGTGTCCCCAAGCCTAGCCATGCCATCTCAGACCATTGGAGTGTCC
CCAAGCCTAGCCATGCCATTTACACCATTGGAGTGTCCCCAACCCTAGCTCACCATCTATGGCCATTGGGGAG
TCTCCAAGCCTGGCCCAGCCTCTCAGTCCACTGGGGAATCCCCAAGCTTGACCTGGCCATCTCAGGCCACTGGG
GTGTCCCCAAGTGTAGCCACCAATCTGTGGCCAGTAGGGTTTCTCAAGCCTAGCCCAGCCATCTCAAGCCAGT
GGGATGTCCCCTAGACAAGATTACCCACCAGTGGCCTCCAGGGTGTCCCCAAGCCAGGTTTCATCGATCTATG
AGCAGGATGTCCCCTAGCAGAGCTCATGCATCTATGACCTGTATGGTGTCCCCAAGCCAGGTTTCATCGATCTATG
CCCAGTGGGTGTCCCCAAGCCTTGCCCAGCTATCTCAGGCCACCACTGCAGTGGCCTTAAGACCAGCTCATCAA
CCTATGGCCTGTGGTGTATCCCCAAGCCTAGCCCAGCCGTCTCAAGCCACAGGGATGTCTTCAAGGCTAGCCCAC
CAACCTATGACCTGTGTGGTGTCTTAAAGCCCAGCCCAGCCATCTCAAGCCATTGGTGTGTCCCCAAGCCTAGCC
CACCCATCAGGACCCCATGGGTTGTCTCCAAGTCTAGCTCACCCTATGTGGCCAGTGGGGCGGGCTCCAGCCTA
GCCCACCCATCTCAGACCACTGCAGTATCCCCAAGGCAAGCCCAACCATCTGTGGCCTCCAGTCCAGGCAAGACA
AATTCATCTGTACCTAGCCTCCAGCCTAGCCGAGCCAGCTATAGCCCCCAGCCTATTCCCACCATCTGTGGCC
CACACGGAAGCCCTAAGCCTGGCTCAGTACCCCCGGACACTAGGTTGGCCCCAAGCCGATCCCAGCCATCTGTG
GTCAGTGGTACATGTCTAGGCTCAATGAGCCATGCTGGGGGTCTAGGCTGGATTCAAATCTGCAGTGTTCAGG
GTGGACTCAGTAGCCCCGTGTCTGTGTACCCATCAGCGTTTGTTCAGTTAGCCTGGGTGGACCATATCCCTCT
GTGGCTGGAAATATGGACCAGGGTCTGAACCAGCCATCCCTGGGTACTGGGGTGAACCTATGTGAAGAACCTCTG
ATGGTTAGTGAGATGGTATCCAGCCCCCGGACTTCAAGTTCAACGACGTGTCCCTTGGGTTCATCATCCACCC
AGGGTTGGTGGGAGGCATGTGTGTCCACCCTCTGTGGTTAGTGTTCACACCAAATCTCTCTCATGCTGATGAG
GAGGCCTGTTGTGTAGGCCAGTGAATCACGCCTCTGTTCAAGGGGTGTGGCTGTAAGCCATCCCAGGAGCCTTG
GCTGATGCTATGTTCCCAGTGGGTCTCAGGGGACCACATCTCCTGGCCTAGCTGGGAATCTCCCCTGGAGAACC
ATAGCAACTGGCATGGGCCAAAGTCAATGTGAGTGGCCAATGGCATGGCTTCCCTTGATCCAGGCTTTAGAG
GCAGGTGGCCCTTTGACACATCCCTCTGGAACACAGGGATGGCCCCCAGCCCCCTCTCTGGCTTCAGTGCCCAAC
AGACTGGCCGTGACTCAGTCTAATCTTTCCCTGAACAGCATGGACCCCAGCAGCTCCAGATCAGTGTGGTTATT
CCAAAAAACATAGACTGCTGGCACCCCTCTGAGGCATCCATGGTCCCACCCAGTTACCAGCAGAGAGATGTGATT
CCGCAGGACTCTCTGAAGAGCAGGGCTGGTCTGTGGTGGCGCAGGAGTTTGTAGCCAGTAGAATGAGCACGGGC
GCAGTCCCAGGCACTCTGCCTGGTGGCATAACCTCCAGCCTTCCCCCGGGCTCCACCATCCGAGGCATGGGTAC
AGCCTTCCCGCAGGCTCTGTGTCCAGTTGGGTGGCTCCAGTCTGATGGCAGACAGAAAGAAGCCAAGTCTATCT
GTAAGACCCTCCGCTAGCTTAGCTGCTCCAAACTTGCTCCAGGTTCAAGTAGTGAGTGGGTGAGCCAGTTGTC
CCCCTGGTTCTGTGCCAATGATGGGGGCTCTAGTGTGGCTCAGAGCTGCTCCAAGGGGCCCCATGGTGATTGACA
TCACTGCCCCCTCTTACCTCAAAGCCTGGCTGGGGAGAGGTCTTTAGCCCCCTTGAGATGCCCCACACCACCAG
TCTGGCTCCAGGTCACTCTCAGCCCCGGCAGCTAGTGGCACAGTGAGGAGTCTACACCGAGTGCCCCACGGTTCT
ATCAAGAGCCTTACAATTGAGCCAAGATGCTAGGATAATGCCATCTGGGGTACAGGGGACCAAGCCAAGCTAGG
AGAATTGGATGAGGCTGTGTTCCAAGTGTGAGGATCAAGTGGATCCAATGACCTATTTCAGCAAAGCCAGGGTCAC

4206/5332
FIGURE 3658B

TGGTGCAACCCAGTGGATGTACTCCAGTCCTCTGGGAGCTGATGGGGGCCATGATCATAGGTCCCTGTCTGAGAA
AGGGTCTCTTCCCCAAGGGAGGTGGCTCCCAGCCATGCTAGTGGCATGGTCCCTGTCCCTTTCCAGGCCCCGGGT
TTAGCCACTAAGTCCCCCTCAGTTTATCAACAGGGGTCTGTCACTCACGTATACCCCCAAATCACTCTCAGGGT
ACAGTGGCTTCTAATGTAGTCTCAGGATCACCCAGCTGGCCCGTGGCAGTACTGAGGCTTTCAGATTGCTTTCA
GTGTCTGTGGGCAGGATGGGGAATCCTAGTCTTCTTCAGAGGTACAGGGACCACCAGCATGGTCTCACATGTGCCA
CTATATCCGTCCTCGGCTAGAAGGGCATTGTCCAGTCCCTTCCAGACAGAAGCTGTCCCAATCCACTCCAGAAA
ACAGTGTCTGGAAACATGGCTCCGAGCAGCCGCTGGGACGCCATGGGCCCTAAAAATTCCTACAGATCCGTGCAT
GGTAGGATTGTTCCAGAACTGCTAGAAAGTTCTGTGGCCAGGGTTAGGCCCTTACAGTATGTGCAAAGACAACCA
TCCCAGGCCCTCAGCCCGAAGTGGTGCAAACCCACCCACAGGCCCTCTGCAGAGGTAAGGCCCGTCATCCGCACT
GGGGAGATGACACACTCCTCGGTCAATTCTCCGCTGGCCCCGGGAGTTTCGGAGGGTGTCTCTAGGCTATGAGTCT
TCCCCAAGTGGTTCCCTGCCACCCCTTTTTAACCAGGAGTCACCGTGGAGACGGCAGGACTCCTATAGCCCCCAG
AATCCTGCCGTTAGTCACAAGGCATCCCTGAACTCCACTATACTCCAGGGCCCCGCGGACGCTGGTGTGGTTGGT
GGCCAATCGTGGAACCGCGCATGGGAGCCAGCCAGGGGTGCTGCGTCCTGGGACACCTGGCGCAACAAGGCGGTG
GTGCTTCCCAGGCGGTCCGGGGAGCCAATGGTGTCCATGCAGGCTGCAGAGGAGATCCGCATCCTCGCAGTGATC
ACTATCCAGGCGGGCGTCCGTGGCTACCTGGCGCGTTCGAGGATCCGGCTGTGGCACCGGGGGGCCATGGTCATC
CAAGCTACTTGGCGCGGCTACCGTGTGCGGCGGAACCTGGCACACCTCTGCAGAGCCACCACGACCATCCAGTCT
GCCTGGCGCGGCTACAGCACCCGCCGGGACCAAGCCCGGCACTGGCAGATGCTCCACCCCGTCACGTGGGTGGAG
CTGGGCAGCCGGGCGGGGTCATGTCTGACCGAAGCTGGTTCCAGGATGGCAGAGCCAGGACAGTATCTGACCAT
CGCTGCTTCCAGTCTGCCAGGCACACGCTTGCAGCGTCTGCCACTCCCTGAGCTCCAGGATCGGGAGCCCGCCC
AGCGTGGTGATGCTAGTGGGCTCCAGCCCTCGCACCTGTCATACCTGTGGACGCACACAGCCCACCCGTGTGGTG
CAGGGCATGGGCCAGGGCACTGAGGGCCCCGGGGCAGTGTCTTGGGCTCCGCCTACCAGCTGGCTGCCCTGAGT
CCCAGGCAGCCGCATCGCCAGGACAAAGCGGCCACAGCCATCCAGTCCGCCTGGAGGGGCTTTAAGATCCGCCAG
CAGATGAGGCAGCAGCAAATGGCAGCGAAGATAGTTCAAGCCACCTGGCGAGGCCACCATAACCCGAGCTGTCTG
AAGAACACAGAGGCGCTCTTGGGACCAGCAGACCCCTCGGCCAGCTCACGGCACATGCATTGGCCTGGCATCTAG
GACCCTGGCTCCCTGCAGTGGGACTTCGTGGGAGGCACTCATGGCTCTCTGGGTCTAATGAATAAAGTCCTCCA
CAGCCT

4207/5332
FIGURE 3659A

GCTAGGTTTAGCTTCAGGGGAGCCAGGGCAGTGTGCTGCATATTGCATGGATGAAAGGCTGAAGGCTGCCTC
CTCTTGACAGGCTGGCTTCTGAGATTGCACCTTCTTCTCCTGCTACTCCTCCAAATCTATGACCCTTCAAGGCAGA
GCTGACCTGTCCGGTAATCAAGGCAATGCAGCCGGCCGCTAGCTACAGTTCACGAGCCAGTTGTACCCAGTGG
GCGGTGCATCCTCCAGCCCCGCTCACCCAGTCTCCTGGACAAAATGGAGAAAGCGCTCCACAGCCCCAGCAC
GAGGGCCTCAAGTCCAAGGAGCATCTTCCGCAACAGCCTGCCGAAGGCAAGACGGCGTCCCGCCGCTCCACGC
CTCCGGGCTGTGGTTCGAGAGCCAGGCCTTCAAGAACATCCTGGTAGACGAGATGGACATGATGCACGCCCCGTGCA
GCCACGCTCATCCAAGCCAACTGGAGGGGCTATTGGCTCCGGCAGAAGCTGATTTCCAGATGATGGCGGCCAAG
GCCATCCAGGAGGCCTGGCGGCGCTTCAACAAGAGACACATCCTTCACTCCAGCAAGTCGTTGGTAAAGAAAACG
AGGGCGGAGGAGGGGGACATACCTTATCACGCCCCACAGCAGGTGCGCTTCCAGCATCCGGAAGAGAACCGCCTT
CTGTCCCCGCCCATCATGGTGAACAAGGAGACCCAGTTCCCTTCCCTGTGACAATCTGGTCTCTGCAGACCCCAG
TCGTCCCCCTCCTGCAGCCCCCAGCAGCTCAGGGTACCCAGAGCCCTGTGTGCAGGGTCTCATGTGTCGACAG
GTCCGGGGGCTGGCCTTCTGCCACACCAGACGGTACCATCAGATTTCCTGCCAGTGAGTCTGGACGCAAAA
TGCCAGCCATGCCTGCTGACCAGAACCATCAGAAGCACCTGCCTCGTCCACATAGAGGGTGACTCAGTGAAGACC
AAACGTGTAAGTGCCCGGACCAACAAAGCCAGGGCTCCGGAGACACCATGTCCAGAAGGTATGACCAGGCAGTT
ACGAGACCATCCAGAGCCCCAAACCCAGGGCCCTGTGAAAGCAGAGACCCCCAAAGCCCCCTTCCAGATATGTCCA
GGGCCCATGATCACCAAGACTCTACTCCAGACATATCCAGTGGTCTCCGTGACCCTGCCACAGACATATCCAGCG
TCCACGATGACCACCACCCACCCAAAGACTAGCCAGTTCCCAAAGTAACAATAATCAAGACCCACAGCCAGATG
TATCCGGGGCCACAGTGACCAAACTGCACCTCACACATGCCCCATGCCACAATGACCAAGATCCAGGTACAC
CCCACAGCCTCCAGAAGTGGCACCACCGGCAGACATGCCCTGCGACCATCACGGCAAAGAACCGACCTCAGGT
TCCCTTCTGGCTTCCATCATGAAGAGCCTGCCCCAGGTATGCCCGGGGCTGCGATGGCAAAGACCCACCCAG
ATGACCCCGGTCAACACCCAGCCAAAACCCATTGCAAACATGTCTGTAGCCACAATGTCCAAGACTTCATCC
CAGAGGAGCCAGTTGGGGTGACCAAGCCCTCACCCAGACCCGCTGCCAGCCATGATAACCAAGACCCACGCC
CAGTTACGCTCGGTGGCCACCATCCTCAAGACTCTGTGTCTGGCCTCTCCAACAGTGGCAAATGTCAAGGCTCCA
CCCCAAGTGGCGGTAGCAGCCGGAACCTCCCAACACCTCAGGCTCCATCCATGAGAACCCACCCAAGGCCAAGGCC
ACCGTGAATGTGAAGCAGGCTGCAAAGGTGGTGAAGCCTCATCCCCCTCTATTTGGCTGAGGGGAAGATCAGG
TGCTTGCTCAACCACATCCGGGAACCTGGGGTCCCCAGGGCTGCAGCTGAGCTTCTTTGGAAGCCGAGAAAATC
AAGACTGGCACCCAGAAACAGGCGGAAAACAGACATGGCATTAAAGACCAGTGTGGCAGTGGAAATGGCTGGGGCT
CCATCCTGGACAAAAGTTGCTGAGGAAGGGGACAAGCCACCTCACGTGTATGTGCCTGTAGACATGGCTGTCAAC
CTGCCCCGGGGACAGCTGGCTGCCCCACTGACCAATGCCTCATCCAGAGACATCCACCCTGCCTGTCCAGAGA
CCACTGGCCGCCCCGCTGACCAAGGCCTCATCTCAGGGACATCTGCCCACTGAGCTGACCAAGACCCCATCCCTG
GCCATCTGGACACCTGTCTGAGCAAGATGCATTTCCAGACACATCTGGCCACAGGTGCCGTGAAGGTCCAGTCC
CAAGCGCTCTAGCCACCTGTCTGACCAAGACGCAGTCCCGGGGGCAGCCGATCACAGACATAACCACGTGCCTC
ATCCAGCGCACACAGGCTGTCTGATCTCAGCAGCAACACCCACTCCAGGTGCTCCTAACAGGGTCCAAGGTGTCC
AACCACGCTGCCAGCGCTCGGTGGCTCAGCGCCCCACCTGGGCCAAGCCAGAGGACAGACAGACCCAGCCA
CAGCCCCACGGACACGTGCCGGGGAAGACCACTCAGGGGGGACCATGCCCGGCAGCCTGTGAGGTCCAGGGTATG
CTGGTGCCGCGGATGGCACCCACCGGCCATTCCACATGCAACGTTGAGTCTTGGGAGACAACGGAGCCACAGT
GCCAGCCATCAATGCCCGGCCAGCGGTGCCCTGCCAGGAGGACACGGGCCCCGCGGACGCTGGTGTGGTTGGT
GGCCAATCGTGGAACCGCGCATGGGAGCCAGCCAGGGGTGCTGCGTCTTGGGACACCTGGCGCAACAAGGCGGTG
GTGCTCCAGCGCGGTCCGGGGAGCCAATGGTGTCCATGCAGGTGCAGAGGAGATCCGCATCCTCGCAGTGATC
ACTATCCAGGCGGGCGTCCGTGGCTACCTGGCGCTCGCAGGATCCGGCTGTGGCACCGGGGGGCCATGGTATC
CAAGCTACTTGGCGCGGCTACCGTGTGCGGCGGAACCTGGCACACCTCTGCAGAGCCACCACGACCATCCAGTCT
GCCTGGCGCGGCTACAGCACCCGCCGGGACCAAGCCCCGCACTGGCAGATGCTCCACCCCGTCACGTGGGTGGAG
CTGGGACGCGGGGCGGGGTATGTCTGACCGAAGCTGGTTCCAGGATGGCAGAGCCAGGACAGTATCTGACCAT
CGCTGCTTCCAGTCTTGCCAGGCACACGCTTGACGCTCTGCCACTCCCTGAGCTCCAGGATCGGGAGCCCGCCC
AGCGTGGTGATGCTAGTGGGCTCCAGCCCTCGCACCTGTACATCTGTGGACGCACACAGCCACCCGCTGTGGTG
CAGGGCATGGGCCAGGGCACTGAGGGCCCCGGGGCAGTGTCTTGGGCTCCGCTACAGCTGGCTGCCCTGAGT
CCCAGGCAGCCGATCGCCAGGACAAAGCGGCCACAGCCATCCAGTCCGCTGGAGGGGCTTTAAGATCCGCCAG
CAGATGAGGCAGCAGCAATGGCAGCGAAGATAGTTCAAGCCACCTGGCGAGGCCACCATAACCGGAGCTGTCTG

4208/5332
FIGURE 3659B

AAGAACACAGAGGCGCTCTTGGGACCAGCAGACCCCTCGGCCAGCTCACGGCACATGCATTGGCCTGGCATC**TAG**

GACCCITGGCTCCCTGCAGTGGGGACTTCGTGGGAGGCACTCATGGCTCTCTGGGTCTAATGAATAAAGTCCTCCA
CAGCCT

4209/5332
FIGURE 3660

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTTCCCTCCGCTGGAATGCGCCTCCCGCCCCAACCCAACCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCCGGGGCAGGGCGTGTCCTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCCCTGGACAAGAAACAAAAGCAAATCGTCCATTCCCCAGTGGATTGG
ATGAAAACCTGGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATGA

4210/5332
FIGURE 3661

CAGCGGCGGCGGCGGAAGTGGCCGGCGAGCCCGGTCCCCGCCGGCACCATGCTTCCCTTGTCAGTCTGCTGAAGACG
GCTCAGAATCACCCCATGTTGGTGGAGCTGAAAAATGGGGAGACGTACAATGGACACCTGGTGAGCTGCGACAAC
TGGATGAACATTAACTGCGAGAAGTCATCTGCACGTCCAGGGACGGGGACAAGTTCTGGCGGATGCCCCGAGTGC
TACATCCGCGGCAGCACCATCAAGTACCTGCGCATCCCCGACGAGATCATCGACATGGTCAAGGAGGAGGTGGTG
GCCAAGGGCCGCGGCCGCGGAGGCCTGCAGCAGCAGAAGCAGCAGAAAGGCCGCGGCATGGGCGGCGCTGGCCGA
GGTGTGTTTGGTGGCCGGGGCCGAGGTGGGATCCCGGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGA
CAGGCGGGCAAACAGTGAGCGGCCACCCAGACCGGTGCTGCGCCCCCTCCTGCCAGGGTGGCGATTCCGCTCCA
CAGTCTCGGACGGATCTGCTCAGAAAGGAAGAGGCAGGCGCCAGGGGGAACCCCTTCGTGTTTTGTGACCCCTC
CTTTTAGGTGAAGCCCTTTTTCTTGCTAAAACCGGCAATTCTCCGGTTAGAAATGTTACTTGGTGTTTTTTGGT
TTTGTGAAACGGCCGTCCCAAAACTGGCTGGATTCTTAGAAGAGTCTGTGTTGAAGGCATCTTTCAAGCCCTCGC
TCTGGTTCTCAGGGCAGCATTTTCCAGGCGGGTTTGTGTTTGCATTTCTTGGAGCCTCTCCGAGCAGCAACCAGAC
GGGAGATTTTTATTTAAGCTGTTTATGCTGGGACTGACAGCCTGCAGGGTTTCCTTGGGCGCGGCCCCAAAATT
GCCTTCAAACAAACCCGGGACGGTTGAAAGCCTTCGAACCGTGCAGGGGATGCCTCGGGCCCTGGCCCTTCGCT
TCCTCTCTTGTGTTATGGAAATAAAAACAAATAAACTACA

4211/5332
FIGURE 3662

GCAACCTGCACAGCCATGCCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCCGGGACCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGGCCCTGCAGTCCGGATACTCACGCCAGAAGTGGGCTG
GGATCCGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCGAGGCCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCCGCCCGCTCGCAGTCGGACCAACTGCTG
GCAGAACTTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGCTGTCACACGGTCCGCGCGTCCGCTG
GAAGACCTGGGCTGGGCCGATTGGGTGCTGTGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGCAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAGACCGACACCGGGGTGTCGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAACCTGTGTATTTATTTAAACTCTGGTGATAAAAAATAAGCTGTCTGAACTGTT

4212/5332
FIGURE 3663

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCGCTGCCGCCGCCGCCGCCGCCGCGTCTGGAG
CTCCCCCGCGCGGACGATGCCTGCCGTGCCCGCCTGGGGCTCGGGGCGGTGAGGCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGCGCCGCTGACAGGTGTGGGCCCCGGCGGGCGGCGGCGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTCCGGCCGTGCCCTCCGACAGCCAGGCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAATCATCAC
GCTGGGGGAGCCCCCTGGGTTCTGCACTCCTGGTGGTGGCTCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCCTGCGAGCACTCCGGCGAGGCCAAGGCCCTCCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCGAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCCGTGGGCCAGCCCCAGTGGAAACTCGATCCC
CTACTCCTCCTCATCCCCGGCAGCTACACCGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTGCCGAAGAGTTCCCCCGGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG
GACCCTTCCTGCCATTTGTATTTTGTCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTTGGTTTTTGGT

4213/5332
FIGURE 3664

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTTGTCTGGGCTCGAACC GGCTCTCCAGACGTTGGGCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGAGGGGCGCAGCGCTTTCTCCGGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCCGCTGCCTGAGTCGACTCTGCGCGCCCGCGCGCATCGAGGCGCGCCGCCCAGTTCTTCGTGCA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCTCAGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCGGAGGTGCCCCGGCTCGG
GGTCATGCTTGTGGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCCTGAGCCT
GGGCTGGACGCGGAGGGCCAGGAGGTGTTCTGTAACCTTACGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCGGCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCCAGGCTCGCTGCGCAGCAGCTGGAGCAGATCCGAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCCTAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGAGAACACCCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCGGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGCTCTATACGCCCGGCGAAGAGCCTGACCACTGCGTGGTCATCAAGTA
TGTGCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGCGAGACCTTCCACCCCGTGCTGTCCCTGCT
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCGCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACTGAGG
CCCCGGTACACAGTTTCTCGGCTCTTCTCCCCGCTGCCCCCAGACCCCTACCTTGAAGGCCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTCTTGGGGCTGTGACCTGA

GATGGTTCGCAAGATCGCGCGCTGAAGGAGGATAGGAGCTACGGGCTGTCTGTGCGGGCGGGTTAGCGACGGCAGC
AAGGTGTGGTGTTCACGTGAAGCTCACCGACAGTGCCTGAGGGCCTTCGAGAGCTACCGCGCCAGACAGGAT
TCTGTTTCTACTGAGGCCATCTATCCGATTTCAAGGAAGCCAAGGGCACATCTCCATCCCCAGCCTGACTGCCCC
GCAGAGGCGCGGACGTTCTCCTTCTACCTCTCCAACATCGGCCGCGACAACCCCCAGGGCAGCTTCGACTGCATC
CAGCAGTATGTCTCCAGTCATGGGGAAGTTACCTGGACTGCCTGGGCAGCATAACAGGACAAGATCACGGTGTGT
GCCACCGACGACTCTTACCAGAAGGCGCGGCAGAGCATGGCCAGGCGGAGGAGGAGACGCGGAGCCGAAGTGCC
ATTGTCATCAAGGCTGGAGGCCGCTACCTGGGCAAGAAGGTTCAGTTTCGAAACCAGCCCCAGGTGCAACAGAA
GCGGTGCCCTCCCGGAAGCGGGCAACCCCCATCAACTTGGCGAGTGCCATCAGGAAGAGTGGTGCCAGTGCCGTG
AGTGGGGGCGAGCGGGGTGTCCCAGAGGCCCTTCCGTGACCGAGTGCTGCACCTCCTGGCACTACGGCCCTACCGC
AAGGCTGAGCTGCTGCTGCGACTGCAAGAAGGACGGCCTGACGAGGCGGACAAGGACGCGCTGGATGGCCTCCTC
CAGCAGGTGGCCAACATGAGTGTAAAGGACGGCACGTGTACACTGCAGGACTGCATGTACAAGGATGTGCAGAAG
GACTGGCCTGGCTACTCGGAGGGGGACAGCAGCTGCTGAAGCGGGTGCTCGTCCGGAAGCTGTGCCAGCCACAG
AGCACTGGCAGCCTCCTTGAGAGCCCTGCTGCCTCCAGCCCCCAGGCGAGCGTGGGCGCTCGGCCTCGCCCCCA
CAGAAGCGGCTGCAGCCTCCTGATTTATCGACCCCCCTAGCCAAACAAGAAACCCCGGATATCGCACTTCACTCAG
AGAGCTCAGCCTGCCGTCAACGGGAAGCTGGGCGTGCCCAATGGCCGTGAGGCCTTGTGCCACCCCGGGCCCCA
CCAGCCAGCACGGACACCCTCAGCTCCAGCACTCACCTGCCCCGCGGCTGGAGCCCCGAGGGCCCCACGACCCC
CTGGCCGATGTACGAATGACCTGGGCCACAGCGGCCGAGACTGTGAGCACGGAGAGGCGGCTGCCCCAGCCCCC
ACTGTGCGCCTCGGCCTGCCCTGCTGACGGAAGTGTGCCAGCCAGCAGGCCACACGGCAGCCCCCTCGCGCAGC
AAGCCCAAGAAGAAGTCCAAGAAGCACAAAGACAAGGAGAGGGCGGCTGAGGACAAGCCCCGGGCCCCAGCTTCCA
GACTGTGCACCTGCCACCCATGCCACCCCGGAGCCCCAGCAGACACCCAGGTTTAAACGGAACTTGCAGCGTT
TCCAGTGTTCACAGCTCCACGTCGGAGACGCCTGACTACTTGCTGAAGTACGCAGCCATCTCCTCTTCGGAGCAG
CGCCAGAGCTACAAGAAGCACTTCAATGCCGAGTACAGCGAGTACCGCGACCTGCACGCCCGCATTGAGCGCATC
ACGCGGCGGTTTACCCAGCTCGACGCCCAGCTCCGGCAGCTCTCCAGGGCTCCGAGGAGTATGAGACTACTCGA
GGGCAGATTTTGAGGAATATCGAAAAATCAAAAAGACCAACACCAACTACAGCCAGGAGAAGCACCGCTGCGAG
TACCTGCACAGCAAGCTGGCCACATCAAGAGGCTCATCGCCGAGTACGACCAGCGGCAGCTGCAGGCTTGGCCC
TAGCCGCCCTCCCCGATGGCGGGGATCTGGGAGGGTCGGGGGAGCAAAAGGCGGTGAGAGAGGATTTATTTAAAA
AAATAAACCCGAGGAAGATGCTCATCTGAGCCAGCAGCGCGGCTTTCAGGGCAGCCCCCTGCAGAGCTCTGCCCC
TGGCGGGTGGCTGCAAGCCACCTCGGCCCTCCCTGCGCTTCTGAGCAGTCCCTGCTATGATGGGCTCGCCAG
GAAGCCCACTGCCTCTCTCCTGGCTGCAGCCTCCGGGTTTCAGGCTCCTGTCTCGCCAGAAAGACTCCTAGGCCCT
TGGGGTGGCGCGCTGCCTTTTCTAGTTTATACAAAGACAGCCACTTTTAGCTACTGCTAATGAGACTTGAGTC
TATTTTTGTACAAAAGAGAAGCAAAATCTTTTCTAAACCTGTGCCTCCCTCTCCTCGGACACCCAGGGTCTAG
CCGCTGCCCTGGGTCTGCTGCACTGAGTATTCAGAGGTCGTGAAAGGTGCAGCTGCGTTCTGAGGGCGTGGGGAA
TGGGCGAGGTGGCCTCTGCTGGTCTTGCTCTACGTTTAGGCACCCCTTTCCCGAGCCTCTCCTCCTTGGGCAGG
GTCTCTGCTCCAGCAAGCAAACAGGGTGGCCAGGTGGCTATTTTGAGAACTCCAGCTGGTGGCCCCAGACAGCT
GCTCAGAGCCAAGGGGGCAGAGGGCTTTCAGCGCCCCCAGGCCTGCCCTGCTATTTAGGCCCTCAGCTGTGCGG
GGCCACTGTGTTTCTGTGCTCCAAGTTGAGACTCGGCCGAGCGGCGTCAGACTTTTCTTTGCGATGTCTCGGT
TTCCCATTTGTTGCTGCTGCTGCTCATTCCACACTGTTGAGACCTTGTGGTCTCGATGCTGCTGGCCTCCCTCCG
TCCCTCTGTCCACTTGTGGGTCTTGGGGTC

4215/5332
FIGURE 3666

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCCGAGAGTTCCTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACTCTGGGTGACTGTGACGTCATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATAACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCAGCAACGCCCCTACCA
GCGGGCGGACTTCGTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCTGAACAACCTGGCGGCCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTCCGCAAGGGCAAGGTGCTGGCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTACCGGAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTTCAT
CGCTGCCAGGAATGACCACCTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGACAGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCTTC
AGACCCAGTTTTCCCCCACCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCCTCAA
CAGGCCTGGGGGCAGCCCTTCCCCTGCCTAGTCCCCGCCTGAGTGCCAGCCCCCACCCGCCTGCCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCACCTGC

4216/5332
FIGURE 3667

ACGCACGCAAGCGGCTCCAGGGTACGTCCCCGCCACGCGCGCTCGCAGGATCGGTGCGTGGTGACGTTTCGCCGG
CGCGGGCGCCATCCCGGAAGCGCGAGCAAGGCCGCCAGATGTGCAGGCAGCGGAGGAGAGAAAGAGATGGACCT
CCCGGACTCGGCCTCGAGGGTCTTCTGCGGCCGCATCCTGAGCATGGTGAACACAGATGATGTCAACGCCATCAT
CCTGGCCCAGAAGAACATGCTGGACCGCTTTGAGAAGACCAATGAGATGCTGCTCAACTTCAACAACCTGTCCAG
TGCCCCGCTGCAGCAGATGAGCGAACGCTTCCTGCACCACACGAGGACCCTAGTAGAGATGAAACGGGACCTGGA
CAGCATCTTCCGCCGTATCAGGACGCTGAAAGGGAACTGGCCAGGCAGCACCAGAGGCCTTCAGCCATATCCC
AGAGGCATCCTTCCTGGAGGAAGAGGATGAAGACCCATCCCACCCAGCACCACGACCACCATTTGCCACCTCAGA
ACAGAGCACGGGCTCATGTGACACCAGCCCCGACACCGTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTC
CCATGTCCAGCCTGGCTCCCCAGCCATCAACGGCCGCAGCCAGACAGATGACGAGGAGATGACGGGCGAATAGCC
CTGCTGCCCCGGTGCCCTTGAGGGGGTCTCAGGGCAGCAGCATACAAGGTGGCAGCGGGTAACCCTGCCCTTGTTCTG
TCATCCAGGGCTCCTTTGCTGCCCCGTTCTGTACCCAGGGCTCCTAGGGGGACAAGGCTCTCTCCCGAGGGGTG
TGGAATTCCTGGGGGGGTCTTTAATTCTGGCTCCTTCCTTCCTCAGAACATCTCTATTCTGCAAGACCCCTCTGC
CATGCCAGGGCACGCCCCATTCCAGCTGGAGTCGTGGGGCTGGGCACAGGGGAATTTTCCAGAGCTGAGCCTGAC
GTCTGCTCTGAAGAATGCTTAGAAGGTTCCAGACACCAGAGCCAGATGTCCCCACCACCGGTCAGGACCTCCT
TGAGGTGCACAAGCACGGTCTCCTCTGAGTTCACCCAGCCCCACCCCGCACCCACTAATTCTGCTTTTCCTGCC
CCTTGCTCCGTAAAAGTATCAAATACTTTCTCCTTGGTATCTCAAGGAGGTTTCTGAGATAGGTAGAAGTCTTGA
GACGGAGGCTGGCCATCCATTAGCCCTGAGCGTGCTGAGTTCGTGTTTCTCTGAATAGAGGTGTGGAACCTGA
GGGGCCAGCAGGCCTCTCTGAAGGCCTCCATGGAGCAAACGGAGCCACCTCGGGAAAGAGTTTAATGGAATATTT
TTGTACCCGATGTTTACAGATGCTGTTGGGAAGTTATCAATAAAAAGACACCATTACTAAAAAGGG

4217/5332
FIGURE 3668

TTCTTTTCTTCAGCGAGGCGGCCGAGCTGACGCAAACATGCAGATCTTTGTGAAGACCCTCACTGGCAAAACCA
TCACCCTTGAGGTCGAGCCCAGTGACACCATTGAGAATGTCAAAGCCAAAATTCAAGACAAGGAGGGTATCCAC
CTGACCAGCAGCGTCTGATATTGCGCGCAAACAGCTGGAGGATGGCCGCACTCTCTCAGACTACAACATCCAGA
AAGAGTCCACCCTGCACCTGGTGTGCGCCTGCGAGGTGGCATTATTGAGCCTTCTCTCCGCCAGCTTGCCCAGA
AATACAACTGCGACAAGATGATCTGCCGCAAGTGCTATGCTCGCCTTACCCTCGTGCTGTCAACTGCCGCAAGA
AGAAGTGTGGTCACACCAACAACCTGCGTCCCAAGAAGAAGGTCAAATTAAGGTGGTTCTTTCCTTGAAGGGCAGC
CTCCTGCCCAGGCCCCGTGGCCCTGGAGCCTCAATAAAGTGTCCCTTTCATTGACTGGAGCAGCA

4218/5332
FIGURE 3669

AGTCATGATCACCGAGACCGCGGCGGAGCCTACGGTCCCTGCAGTGCCTGCTGCTGAGGAGGCCACCGAAGCTCG
GGGACGCGAGGAGCCGGCGTGGCCCTGGAAAGACGCCCCGATCCGGACGCTGGTGCAGCGCATCCACCAGCTGCA
GGCTGAGCGCGCGCAGGGCTTCCGCCGACTGGAGGAGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGGGGCG
CGGCCTCAGGGTCCCCACATGCCGCAGAGGCCACCGCCAGTACCTGCGCAGCGGCCCTGACTACGACTTCGCGCG
CTACCGGAGCACAGTGCACGGGGTGACCCAGGCCTTCGCCGCCGCTCGCGGGAGGTGCTGGCGGTGGAAGCAGA
GCTGGGCGGGCCTCGCAGGCAGCCGCTGCTCGCCGGCCACGTGCGCAGCCTGCAGGAGCTGGAGCAGACGCGGCT
GGGCACGGTGGCCCTGCTGCAGTTGATGGAGACGCCAGAGCTGGCGGGGCAGGAGGACGCTGTACGGATGCAGCA
GCTGAAAATGAAGGTAATTAAAACCATGGAGGCGATCAGCGAGGTTCTCCAGGACCTTAGGTTTGATGCGGAATC
TGCCGAGTGAATGGCGGCTCCCCAGGGATGCGCCGAGGGAGATGGGAAACGGGGCGGATGGCGCCCAGCCCAGCCC
TAACTGCCAGCTGGCTGGGGTTGCGCCCCACTGCGCTGCTGACCTTCCTGCAGTTCAGACACCTCCCACAATAA
AGAGCTCCTCCTCTGT

4219/5332
FIGURE 3670

ATCCTCCGTGCCCCGGCCTGAGCTGGAGTCCCCCGCGCCCCCGCGTTCCGCCCCGGCCATGGCTGCGGTGGCGCTG
ATGCCACCGCCGCTGCTGCTGCTGCTGTTGGCGTCGCCGCCCGCCGCTCCGCGCCGTCCGCCCGCGATCCC
TTCGCCCCCAGCTCGGGGACACGCAGAACTGCCAGCTGCGGTGCCGCGACCGCGACCTCGGCCCGCAGCCCTCG
CAGGCGGGGCTGGAGGGCGCCTCCGAGTCTCCCTATGACAGAGCCGTTCTGATCAGCGCTTGCGAGCGTGGCTGC
CGCCTCTTCTCCATCTGCCGATTTGTGGCCAGAAGCTCCAAGCCCAATGCCACCCAACTGAGTGTGAAGCAGCC
TGCGTGGAAGCCTATGTGAAGGAGGCAGAGCAGCAGGCCTGTAGCCACGGCTGCTGGAGCCAGCCCGCGGAGCCT
GAGCCGGAGCAGAAGAGAAAGGTCCTGGAGGCTCCAAGTGGGGCCCTCTCCCTCTTGGAATTGTTTTCCACCCTC
TGCAATGACCTTGTCAACTCAGCCCAGGGATTTGTCTCCTCCACCTGGACATACTACTTGACACTGACAATGGG
AAAGTGGTGGTGTTCAGACTCAGCCCATAGTGGAGAGCCTCGGCTTCCAGGGGGGCGCTGTCAGCGCGTGGAG
GTGACCTGGCGAGGCTCCCACCCTGAAGCCCTGGAGGTGCACGTGGACCCTGTAGGCCCCCTGGACAAGGTGAGG
AAGGCCAAGATCCGAGTCAAGACCAGCAGCAAGGCCAAGGTGGAGTCTGAAGAGCCACAGGACAATGACTTCCTC
AGTTGCATGTCCCGGCGCTCGGGTCTGCCTCGCTGGATCCTGGCCTGCTGCCTCTTCCCTCTCCGTGCTGGTGATG
CTGTGGCTGAGCTGCTCCACCCTGGTGACCGCGCCTGGCCAGCACCTCAAGTTCCAGCCTCTGACCCTGGAGCAG
CACAAGGGCTTCATGATGGAGCCCGATTGGCCCTGTACCCGCCGCCGTCCACGCCTGTGAGGACAGCCTACCA
CCCTACAAGCTGAAGCTGGACCTGACCAAGCTGTAGGCCCTCCACTGGCCCCATCACTGCCAACTGCAGGGGGCCC
CTCGGGCCTCACTTGCCCTGAGCCCAGGAGTCCAAGGGCAGGGTGGGTCCAGCCTTGAGCCCCTCCACCCCCAAA
TCCTTCCCTCTCCTCCAGTCCCACCCTTGCCCCACGGAGTCTGGGGACGCAGTGCCCCAGCTGGGAAGAGGGC
GGGATCGGGCACTGGTTCTCCTTGTCCCCGCTTTCTTGGGGGCTTGCTACTTTTTGTCTTCTATTGTGTGGCTT
TCTGAGTATTTGAACCCAGTCTGTGTACCTTCCTTTTTCTTCTATGTCCCCTCTCTGCGGGGGGGCGCTG
AGGCTGAGGGGGAGCTGCGTCTTGCTAGGGCTTCCCCCTTCTCCCCATCCCGGTCTCCAGAGACCCAGCTTCTGA
GAGACAGGGTGTGGGCATCTCCATGCCCCTATAAAGCGTGCCTGGGGCTTGTCTGGGGCTGG

4220/5332
FIGURE 3671

CAGCACGGCCGACAAGAACGGGGCCCTCAAGTGCACCTTCTCGGCACCCAGCCACAGCACCAGCCTCCTGCAGGG
CCTGGCCACCCTCCGCGCTCAGGGCCAGCTCCTCGATGTTGTGCTGACTATTAACAGAGAGGCCCTTTCCTGCACA
CAAGGTCGTCCTGGCTGCCTGCAGCGACTACTTCAGGGCCATGTTACCGGCGGCATGCGGGAGGCAAGCCAGGA
CGTCATCGAGCTGAAGGGCGTGTGCGCCCGTGGCTGCGGCACATCATCGACTTCGCCCTACAGCGCCGAGGTGAC
ACTGGACCTGGACTGCGTGCAGGACGTGCTGGGCGCGGCCGTGTTCTTGAGATGCTGCCCGTGGTGGAGCTGTG
CGAGGAGTTCCCTGAAGGCGGCCATGAGCGTGGAGACCTGCCTCAACATCGGCCAGATGGCCACCACCTTCAGCCT
GGCCTCGCTGCGAGAGTGGTGGATGCCTTCACCTTCCGGCACTTCTGCAGATCGCCGAGGAGGAGGATTTCTT
GCGCCTGCCACTGGAGCGCCTGGTCTTCTTCTGCAGAGCAACCGGCTGCAGAGCTGTGCCGAGATCGACCTGTT
CCGCGCGGCCGTCCGCTGGCTGCAGCATGACCCGGCCCGCGGCCGCGCCAGCCACGTGCTCTGCCACATTCTG
CTTCCCGCTCATGCAGTCGTCCGAGCTGGTGGACAGCGTGCAGACGCTGGACATCATGGTGGAGGACGTGCTGTG
CCGCCAGTATCTGCTGGAGGCCCTTCAACTACCAGGTGCTGCCCTTCCGGCAGCACGAGATGCAGTCTCCGCGCAC
CGCCGTGCGCTCGGATGTGCCCTCGCTCGTCACCTTCGGCGGCACGCCCTACACCGACAGCGACCGCTCGGTTCAG
CAGCAAGGTCTACCAGCTGCCTGAGCCGGGAGCCCGCCACTTCCGCGAGCTCACGGAGATGGAGGTAGGCTGCAG
CCACACGTGCGTGGCCGTGCTGGACAATTTGTGTACGTGGCCGGGGGCGAGCACCTGCAGTACCCGAGCGGCGA
GGGCGCAGTGGACGCCCTGCTACCGCTACGACCCCGACCTGAATCGCTGGCTGCGCCTGCAGGCCATGCAGGAAAG
CCGCATCCAGTTCAGCTGAACGTGCTGTGCGGCATGGTGTACGCCACGGGCGGCCGCAACCGAGCCGGCGAGCCT
GGCCTCCGTGGAGCGGTACTGCCCCCGGCGCAATGAGTGGGGCTACGCCTGCTCGCTGAAGCGCCGTACCTGGGG
CCATGCTGGGGCCGCTCAGGGGGCGCCTCTACATCTCGGGTGGCTACGGGATCTCAGTGGAGGACAAGAAGGC
CCTGCACTGCTACGACCCCGTGGCCGACCAGTGGGAGTTCAAGGCGCCATGAGCGAACCCCGCGTGTCTACACGC
CATGGTGGGTGCCGCGCGCCGATCTATGCCCTCGGGGGCCGATGGACCACGTGGACCGCTGCTTCGACGTGCT
GGCTGTGGAGTACTATGTGCCGGAGACGGACCAGTGGACCACGCTGAGCCCCATGCGGGCCGGCCAGTCAGAGGC
CGGCTGCTGCCTGCTGGAGAGGAAGATCTACATCGTCCGGGGCTACAACCTGGCGTCTCAACAACGTACAGGGCAT
CGTACAGGTGTACACACGGACACCGACGAGTGGGAGCGGGACCTGCACTTCCCGGAGTCCCTTCGACGGCATAGC
CTGCGCCCCCGTCTGCTGCCCCGGGCGGGGACCAGGAGTAGCCCCCAAGACCCCGGGACCCTGGCCTGACCG
CATGTTGTCTCCAAGTGGGGCTTGGCGAATGCACGTCTGCCTGAGAACCCAGTGCCCCCTTCGCCCCGGGTGC
CCTTGAGGGGCTGCTGCGTTGATAAGCCCCCTCCAGGGGTCCCTCCCTCCCTCCTTCCCAAAGCAGATCCTG
GCTGCGAGTCCATCCGAGGGAGCCTGCCGGCAAAGCGTCTGACATGTGGTGGCAGCAAATTCGTCCCCGGGTGG
TTTCCTCGCCTGGCCCCCGAGTCCCCACGGGCTGGCGGGTGGGAATCCAGGTCTCCAGGGGGTCCCTGTGCAGCT
CCATCTCACTTCTCTACTGCCTCCAGCCCCACGGTTTCAGGCATTCAGATGTGAGCTCATCAACATTGAACCCA
AAGTCGGTGGTATATGACTCACCTCCTTCCAAGTCTCCTGCGCGCGTGTTTTTAAATAAACTACCCGAAACG
TCCGTAACACACGGACCTCCAGGAGCAGTGAGAGGTGGCTTAGAAGCCCCCTGGTTTGGGGTGGGTGGAGGAGG
GGCACGTGTCTGCCCTCCCTGGGGTGCCTCCTTCCCCATCCCAAGCTGCTGAGGGGAGGCCCTGGTCATGCCT
CAGTTCCTGCCTTCATCTGCTTCCGGAGGAAAAACCATATCAACTCCTAGAAACGCTCCTTAGGGGCTTGGGAC
CTTCCATTTGGCACTGAGCATCTTGTGGGGCCTTAACTGGCTGAGACATCCCGGCCCTCTACATTTGCCCTGTTG
GCCAGGACAGTCCCCTTCCGCAATTGGAGGGCGACGCTAACTTCAGATCCCATAGTGGCGCTTGCCGCAGGTCT
GGTGGGGTGTCTTTTTCTCCTCCCTCCTTCCACCCCTCCGCGCCCTGCCACTCCCTGGCCTGCCCTGTTTTTG
GGTCAACATTGCTACGGAGCCAGCAGTGAGGCCCTTCCCTTCAAGGGCTCTGTGGTATCTCTGGCCACATTTGTT
CTAATGTCTGAACCTCTAAATCTTTTCTTTTGTATTGGTTTTACTGTTTTTAAGAAGCCAGCACTGCTGTCTCAT
AGATGGGATTTGTACTCTTGGGGCAACTTAAAGTGTCTCTCTCGCTGCTAACAGACGATTGATGTCTGTCTCTG
TGACCCACTCACCATGTAAAGAATTAACCTCCTATCTTAGCAGACATCGTCTCCTAATATTTCCCTTTATTTAAT
AAAAATGTTATGGTG

4221/5332
FIGURE 3672

CCAGCCGGCGCTTGCGCGGTGGCACGGGCGAGTGGGGGGGCGAGGAGGTGGAGGAGGAGGAGGAGGAGGAGGAGG
TGGCGGCGAGAAGATGGCGGACTTCGAACAATCCGCGGAAATTCAGCGAGAAGATCGCGCTGCACAATCAGAAGCA
GGCGGAGGAGACGGCGGCCCTTCGAGGAGGTTCATGAAGGACCTGAGCCTGACGCGGGCCGCGCGGCTCCAGCTCCA
GAAATCCCAGTACCTGCAACTGGGCCCCAGCCGAGGCCAGTACTATGGCGGGTCCCTGCCCAACGTGAACCAGAT
CGGGAGTGGCACCATTGGACCTGCCCTTCCAGACCCCTTCCAATCCTCGGGCCTGGACACCAGCCGGACCACCCG
GCACCATGGGCTGGTGGACAGGGTGTACCGGGAGCGTGGCCGGCTCGGCTCCCCACACCGCCGGCCCTGTCAGT
GGACAAACACGGACGGCAGGCCGACAGCTGCCCTATGGCACCATTGACCTCTCACCACCCGCGGACACCAGCTG
GAGAAGGACCAATTCTGACTCCGCCCTGCACCAGAGCACAATGACGCCCACGCAGCCAGAATCCTTTAGCAGTGG
GTCCCAGGACGTGCACCAGAAAAGAGTCTTACTGTAAACAGTCCCAGGAATGGAAGAGACCACATCAGAGGCAGA
CAAAAACCTTTCCAAGCAAGCATGGGACACCAAGAAGACGGGGTCCAGGCCCAAGTCTGTGAGGTCCCCGGAAT
CAACATCTTCCCGTCTGCCGACCAGGAAAACACTACAGCCCTGATCCCCGCCACCCACAACACAGGGGGTCCCT
GCCCAGCTGACCAACATCCACTTCCCCCTCCCCGCTCCCGACCCCGCTGGACCCCGAGGAGCCACCTTCCCTGC
ACTGAGCAGCTCCAGCAGCACCAGCAACCTCGCGGCCAACCTGACGCACCTGGGCATCGGTGGCGCCGGCCAGGG
AATGAGCACACCTGGCTCCTCTCCACAGCACCGCCAGCTGGCGTACGCCCCCTGTCCCTGAGCACAGAGGCAAG
GCGTCAGCAGGCATCGCCACCCCTGTCCCGCTGTACCCATCACTCAGGCTGTAGCCATGGACGCCCTGTCTCT
GGAGCAGCAGCTGCCCTACGCCCTTCTTACCCAGGCGGGCTCCCAGCAGCCACCGCCGAGCCCCAGCCCCGCC
GCCTCCTCCACCCGCGTCCCAGCAGCCACCACCCCGCCACCCCCACAGGCGCCCGTCCGCCTGCCCCCTGGTGG
CCCCCTGTTGCCAGCGCCAGCCTGACTCGTGGGCCACAGCCGCCCCCGCTGCAGTCACGGTACCGTCTCTCT
CCCCAGTCCCCCCCAGAGAACCCTGGCCAGCCATCGATGGGGATCGACATCGCCTCGGCGCCGGCTCTGCAGCA
GTACCGCACTAGCGCCGGCTCCCCGGCCAACAGTCTCCACCTCGCCAGTCTCCAATCAAGGCTTCTCCCCAGG
GAGTCCCCGCAACTGGAGCAGTTCAACATGATGGAGAAGCCATCAGTCCAGCAGCCTGTACAGCCCGGGCTC
CACACTCAACTACTCGCAGGCGGCCATGATGGGCCTCACGGGCAGCCACGGGAGCCTGCCGGACTCGCAGCAACT
GGGATACGCCAGCCACAGTGGCATCCCCAACATCATCTCACAGTGACAGGAGAGTCCCCCCCCAGCCTCTCTAA
AGAACTGACCAGCCACCGAGGACACCTTCCGGATGGACCGCTGTGAGCGGGCAGCCCGGCACCCTGCCGCTCAG
CCGTCCCCGACGGCGCCTCCCCAGCCCGGGGACGGCCGTGCTCCGTCCCTCGCCAACGGCCGAGCTTGATTTCTG
AGCTTGCAATGCCGCCAAGCGCCCCCGCCAGCCCGCCCCGGTTGTCCACCTCCCGCGAAGCCCAATCGCGAGG
CCGCGAGCCGGGCGCTCCACCCACCCGCCCCAGGGCTGGGCTGGGATCGGAGGCGGTGAGCCTCCCGCCCCCT
GCAGACCCTCCCTGCACTGGCTCCCTCGCCCCAGCCCCGGGGCCTGAGCCGTCCCTGTAAAGATGCGGGAAAGTG
TCAGTCCCGGCGTGGCGGGCAGGCTCAGGGGAGGGGCGCGCATGGTCCGCCAGGGCTGTGGGCGGTGGCGCATT
TTCGACTGTTTGTCCAGCTCTCACTGCCTTCCTTGGTTCCCGGTCCCCAGCCCATCCGCCATCCCCAGCCCGT
GGTCAGGTAGAGAGTGAGCCCCACGCCGCCAGGGAGGAGGCGCCAGAGCGGGGCGAGCGCAAAGTGAAATA
AACACTATTTTGACGGC

4222/5332
FIGURE 3673

CACCCAGCTCCCCGCCACCGCCATGGTCCCCGACACCGCCTGCGTTCTTCTGCTCACCCCTGGCTGCCCTCGGGCGC
GTCCGGACAGGGCCAGAGCCCGTTGGGCTCAGACCTGGGCCCGCAGATGCTTCGGGAAGTGCAGGAAACCAACGC
GGCGCTGCAGGACGTGCGGGAGCTGCTGCGGCAGCAGGTACAGGGAGATCACGTTCTGAAAAACACGGTGATGGA
GTGTGACGCGTGCGGGATGCAGCAGTCAGTACGCACCGGCCATACCCAGCGTGCGGCCCTGCTCCACTGCGCGCC
CGGCTTCTGCTTCCCCGGCGTGCCCTGCATCCAGACGGAGAGCGGCGCGCTGCGGCCCTGCCCCGCGGGCTT
CACGGGCAACGGCTCGCACTGCACCGACGTCAACGAGTGCAACGCCACCCCTGCTTCCCCGAGTCCGCTGTAT
CAACACCAGCCCCGGGTTCCGCTGCGAGGCTTGCCCGCGGGGTACAGCGGCCCCACCCACCAGGGCGTGGGGCT
GGCTTTCGCCAAGGCCAACAAAGCAGGTTTGACGGACATCAACGAGTGTGAGACCGGGCAACATAACTGCGTCCC
CAACTCCGTGTGCATCAACACCCGGGGCTCCTTCCAGTGCGGCCCGTGCCAGCCCGGCTTCGTGGGCGACAGGC
GTCCGGCTGCCAGCGCGCGCACAGCGCTTCTGCCCCGACGGCTCGCCAGCGAGTGCCACGAGCATGCAGACTG
CGTCCTAGAGCGCGATGGCTCGCGGTGCTGCGTGCGTGGTGGGCCGGCAACGGGATCCTCTGTGGTCGCGACACTGAC
CTAGACCGGCTTCCCGGACGAGAAGCTGCGCTGCCCGGAGCGCCAGTGCCGTAAGGACAAGTGCCTGACTGTGCCC
AACTCAGGGCAGGAGGATGTGGACCGCATGGCATCGGAGACGCTGCGATCCGGATGCCGACGGGGACGGGGTC
CCCAATGAAAAGGACAAGTGCCCGCTGGTGCGGAACCCAGACCAGCGCAACACGGACGAGGACAAGTGGGGCGAT
GCGTGCGACAAGTGCCGTTCCAGAAGAACGACGACCAAAAGGACACAGACCAGGACGGCCGGGGCGATGCGTGC
GACGACGACATCGACGGCGACCGGATCCGCAACCAGGCGGACAAGTGCCTAGGGTACCCAAGTACAGACCAGAAG
GACAGTGATGGCGATGGTATAGGGGATGCCTGTGACAAGTGTCCCAGAAGAGCAACCCGGATCAGGCGGATGTG
GACCACGACTTTGTGGGAGATGCTTGTGACAGCGATCAAGACCAGGATGGAGACGGACATCAGGACTCTCGGGAC
AACTGTCCCACGGTGCCTAACAGTGCCCGAGGAGTCTAGACCACGATGGCCAGGGTGATGCCTGCGACGACGAC
GACGACAATGACGGAGTCCCTGACAGTGGGACAAGTGCCTGCTGCTAAGGTGGTAGACAAGATCGACGTGTGTCCG
AGGGACGGCGTGGGCGACGTGTGCCAGGACGACTTTGATGCAGACAAGGTGGTAGACAAGATCGACGTGTGTCCG
GAGAACGCTGAAGTCACGCTCACCGACTTCAGGGCCTTCCAGACAGTCGTGCTGGACCCGGAGGGTGACGCGCAG
ATTGACCCCAACTGGGTGGTGTCTCAACCAGGGAAGGGAGATCGTGCAGACAATGAACAGCGACCCAGGCTGGCT
GTGGGTTACACTGCCTTCAATGGCGTGGACTTCGAGGGCACGTTCCATGTGAACACGGTCACGGATGACGACTAT
GCGGGCTTCATCTTTGGCTACCAGGACAGCTCCAGCTTCTACGTGGTCATGTGGAAGCAGATGGAGCAAACGTAT
TGGCAGGCGAACCCTTCCGTGCTGTGGCCGAGCCTGGCATCCAAGTCAAGGCTGTGAAGTCTTCCACAGGCCCC
GGGGAACAGCTGCGGAACGCTCTGTGGCATAACAGGAGACAGAGTCCCAGGTGCGGCTGCTGTGGAAGGACCCG
CGAAACGTGGGTTGGAAGGACAAGAAGTCTATCGTTGGTTCCCTGCAGCACCGGCCCAAGTGGGCTACATCAGG
GTGCGATTCTATGAGGGCCCTGAGCTGGTGGCCGACAGCAACGTGGTCTTGGACACAACCATGCGGGGTGGCCGC
CTGGGGGTCTTCTGCTTCTCCAGGAGAACATCATCTGGGCCAACCTGCGTTACCGCTGCAATGACACCATCCCA
GAGGACTATGAGACCCATCAGCTGCGGCAAGCCTAGGGACAGGGTGAGGACCCGCGGATGACAGCCACCCTCA
CCGCGGCTGGATGGGGGCTCTGCACCCAGCCCCAAGGGGTGGCCGTCCTGAGGGGGAAGTGAGAAGGGCTCAGAG
AGGACAAAATAAAGTGTGTGTGCAGG

4223/5332
FIGURE 3674A

AGCGGCTGGCGGCTTCGAGGGGAGCTGAGGCGCGGAGGGGCTCGGCGGCAGCGGCGGCGGCTCGGCACTGTTACC
TCTCGGTCCGGCTGGCGCCGGGCGCGCGGTTTGGTCCTTTCCGGGCGCGGGGGCGACAGCGGCAGCGACCCG
AGGCCTGCGGCTAGGCCTCAGCGCGGCGGCGGCTCGAGTGACGCGGGAACCGGCCGAGGGCCCTACCCGGA
GGCACCATGAGCGTGGAGGCGTACGGGCCAGCTCGCAGACTCTCACTTTCCTGGACACGGAGGAGGCCGAGCTG
CTTGGCGCCGACACACAGGGCTCCGAGTTCGAGTTCACCGACTTACTCTTCTAGCCAGACGCAGACGCCCCC
GGCGGCCCGGCGGCCCGGGCGGTGGCGGCGCGGAGGGCCGGGCGCGCGGGCGGGCGCTGCGGCGGGACAG
CTCGACGCGCAGGTTGGGCCGAAGGCATCCTGCAGAACGGGGCTGTGGACGACAGTGTAGCCAAGACCAGCCAG
TTGTTGGCTGAGTTGAACCTTCGAGGAAGATGAAGAAGACACCTATTACAGGAAGGACCTCCCCATACACGCTGC
AGTTACTGTGGAATACACGATCCTGCCTGCGTGGTTTACTGTAATACCAGCAAGAAGTGTTCTGCAACGGACGT
GGAAATACTTCTGGCAGCCACATTGTAAATCACCTTGTGAGGGCAAAATGCAAAGAGGTGACCTGCACAAGGAC
GGGCCCCCTGGGGGAGACAGTCTGGAGTGCTACAACCTGCGGCTGTCGCAACGTCTTCTCCTCGGCTTCATCCCG
GCCAAAGCTGACTCAGTGGTGGTGCTGCTGTGCAGGCAGCCCTGTGCCAGCCAGAGCAGCCTCAAGGACATCAAC
TGGGACAGCTCGCAGTGGCAGCCGCTGATCCAGGACCGTGCTTCTGTCTGGCTGGTCAAGATCCCCCTCCGAG
CAGGAGCAGCTGCGGGCACGCCAGATCACGGCACAGCAGATCAACAAGCTGGAGGAGCTGTGGAAGGAAAACCTT
TCTGCCACGCTGGAGGACCTGGAGAAGCCGGGGGTGGACGAGGAGCCGAGCATGTCTCCTGCGGTACGAGGAC
GCCTACCAGTACCAGAACATATTGCGGCCCTGGTCAAGCTGGAGGCCGACTACGACAAGAAGCTGAAGGAGTCC
CAGACTCAAGATAACATCACTGTCAAGTGGGACCTGGGCCCTTAACAAGAAGAGAATCGCCTACTTCACTTTGCC
AAGACTGACTCTGGTAATGAGGATTTAGTCATAATTTGGTTAAGAGACATGCGGCTCATGCAGGGGGATGAGATA
TGCTTGGGTACAAAGGGGACCTTGGCCCCCTGTGGAAAGGGATCGGCCACGTCAAGGTCCCTGATAATTAT
GGCGATGAGATCGCCATTGAGCTGCGGAGCAGCGTGGGTGCACCTGTGGAGGTGACTCACAACCTCCAGGTGGAT
TTTGTGTGGAAGTCGACCTCCTTTGACAGGATGCAGAGCGCATTGAAAACGTTTGCCGTGGATGAGACCTCGGTG
TCTGGCTACATCTACCACAAGCTGTTGGGCCACGAGGTGGAGGACGTAATCATCAAGTGCCAGCTGCCAAGCGC
TTCACGGCGCAGGGCCTCCCCGACCTCAACCACTCCAGGTTTATGCCGTGAAGACTGTGCTGCAAAGACCACTG
AGCCTGATCCAGGGCCCCGCCAGGCACGGGGAAGACGGTGACGTGCGCCACCATCGTCTACCACCTGGCCCCGGCAA
GGCAACGGGCCCGGTGCTGGTGTGCTCCGAGCAACATCGCCGTGGACCAGCTAACGGAGAAGATCCACCAGACG
GGGCTAAAGGTCGTGCGCCTCTGCGCCAAGAGCCGTGAGGCCATCGACTCCCCGGTGTCTTTTCTGGCCCTGCAC
AACCAGATCAGGAACATGGACAGCATGCCTGAGCTGCAGAAGCTGCAGCAGCTGAAAGACGAGACTGGGGAGCTG
TCGTCTGCCGACGAGAAGCGGTACCGGGCCTTGAAGCGCACCGCAGAGAGAGAGCTGCTGATGAACGCAGATGTC
ATCTGCTGCACATGTGTGGCGCCGGTGACCCGAGGCTGGCCAAGATGCAGTTCGGCTCCATTTTAAATCGACGAA
AGCACCCAGGCCACCGAGCCGGAGTGATGGTTCCCGTGGTCTCGGGGCCAAGCAGCTGATCCTTGTAGGCGAC
CACTGCCAGCTGGGCCAGTGGTGATGTGCAAGAAGGCGGCCAAGGCCGGGCTGTACAGTCGCTCTTCGAGCGC
CTGGTGGTGCTGGGCATCCGGCCCATCCGCCTGCAGGTCCAGTACCGGATGCACCCTGCACTCAGCGCCTTCCCA
TCCAACATCTTCTACGAGGGCTCCCTCCAGAATGGTGTCACTGCAGCGGATCGTGTGAAGAAGGGATTGACTTC
CAGTGGCCCCAACCAGATAAACCAGATGTTCTTCTACGTGACCCAGGGCCAAGAGGAGATTGCCAGCTCGGGCACC
TCCTACCTGAACAGGACCGAGGCTGCGAACGTGGAGAAGATCACACGAAGTTGCTGAAGGCAGGCGCCAAGCCG
GACCAGATTGGCATCATCACGCCCTACGAGGGCCAGCGTCTTACCTGGTGCAGTACATGCAGTTCAGCGGCTCC
CTGCACACCAAGCTCTACCAGGAGGTGGAGATCGCCAGTGTGGACGCCTTCAGGGACGCGAGAAGGACTTCATC
ATCCTGTCTGTGTGCGGGCCAACGAGCACCAAGGCATTGGCTTTTTAAATGACCCAGGCGCTGAACGTGGCC
CTGACCAGAGCAAGGTATGGCGTCATCATTGTGGGCAACCCGAAGGCACTATCAAAGCAGCCGCTCTGGAACCCAC
TTCAGTGAACCTACTATAAGGAGCAGAAGGTGCTGGTGGAGGGGCGCTCAACAACCTGCGTGAGAGCCTCATGCAG
TTCAGAACCCACGGAAGCTGGTCAACACTATCAACCCGGGAGCCCGCTTCATGACCACAGCCATGTATGATGCC
CGGGAGGCCATCATCCAGGCTCCGTCTATGATCGGAGCAGCCAGGGCCGGCCTTCCAGCATGTACTTCCAGACC
CATGACCAGATTGGCATGATCAGTGCCGGCCCTAGCCACGTGGCTGCCATGAACATTCCCATCCCCCTCAACCTG
GTCATGCCACCCATGCCACCGCCTGGCTATTTTGGACAAGCCAACGGGCCTGCTGCAGGGCGAGGCACCCCGAAA
GGCAAGACTGGTGTGGGGGACGCCAGAAGAACCCTTTGGGCTTCTGGACCCAGCCAGACTAACCTCCCCAAC
AGCCAAGCCAGCCAGGATGTGGGTCACAGCCCTTCTCTAGGGCGCCCTGACGCAGGGCTACATCTCCATGAGC
CAGCCTTCCAGATGAGCCAGCCCGGCTCTCCAGCCGAGCTGTCCAGGACAGTTACCTTGGTGACGAGTTT
AAATCACAAATCGACGTGGCGCTCTCACAGGACTCCACGTACCAGGAGAGCGGGCTTACCAGCATGGCGGGGTG

4224/5332
FIGURE 3674B

ACGGGGCTGTCCCAGTATTTAAAAGGTGGCGGCGGAAGAGCTAAGCAACGTGGCTTAGTCCATCAGCATCTTATTC
TGGGTAATAAAAAATAAAAATAAACGGATACCTGTTTTTCCACTGCTAAAACTGAAGCACCAGTGTGTGAGCAACA
GGAAGGGAGAGCGCACGAGGGAGAGGAGCCGAGGCCGAGCGCCCCCTGCTGGCCCGGGCGGCGAGGAGCAGAGG
GAGCGGAGGAGGGGCGGCCCGGGAGCCGCGGCCACCAGGAGGCCCGCTCCGTCCCATCGGGGCTGCGGCCA
GGGCGGAGGGAGGAAGACCCCTCATCTCAGAGTAGCCCTTTCTCTGTCTTTTATTTCTTTTCTCTTTGATTGA
AAGGGGACTACGTCTTAGCAGGAAAAAACTTCGCATTTCTGTGCCCGAGCAGGCTCCTTGCAAAGACAGCAGC
GTGCGGGGAGAGCCCCGGGAGGGCGCGTCTGTCCACGCCTACCGGACGCGCCGAGGTGCGGCTGCCTGTGTCT
CCGAGGGCCTTCATTTAAAGAAAATAAGGGTGTTTTGGGTTTTTCTCTTTGTTTTTTCAAGATTCTTTTAAAGG
AGTACTGAAGAATACTTTCTTAAGTTTGTCTGTAAAATCTTAGCGGTGGACCTGGGAGATTTGAGAAGCTTCCAG
AAACAGTTTTAAACAAGCCAGCGCTACTGGAGAAGAGGAGCAACACCTGTGCCGCGGCCGAGGAGTTTTGTTGTT
GGTTTTAGCTTCCAGTGGCTTCTTTCTGCGGGGCATCAGGCTGTGGGGTAGCCGCCCCGCGAGCCTGGAAGCTG
CTCGTTCTCCGCTGGACTCAGAAGCCAAGCTGCTTCCCGCCTAGACTCGGCGCAGGGCCCCGACCCGGTGAGGAA
GGTGCTTTTGGCCCCATTGCGAGGGGCTTGGCCAGGACTGGCCCTGTGGCCAGGAGGCGAGAAGGTGGCTGTTT
CCGATTGACGGCTTTTTCCCGGGGGCCTTTGGAAGATTTGGTGGAAAGACAAGAGGGCCTGTCCCTGTCCCCGT
CCCCAGGAGGTACCGACAGTCCCTGTGCTGGTTAGACACGGAGCGCTGCACACCGAAAGCCCAAATTGGGAGCTC
TGCTTGGCGCAACTTTGCTGATGGGGTGATTGCTGCTTCTGGGGGTAAGGAAACAAGTTACAGAAATTACCGC
GTTCTGTGTGAAGGGACTGAGGGTGTGGTGTGATTGGCAGAGGGTCATTTTAGGAGAGCTGCCCCAGCCCCTCGA
ACGCCTGGCTTGGGGTGTGATTCTGCCTGGCGGCCAGGCCTCCAGCTTCCCTGCCCCGGGCCTGGGGCTGTCAC
TGGCCCTGATCCGAACACCTCCAGATTCCGGCTTCTACATGGGACAGACGGGGACGCACAGGCCACCTTCCTTCT
GGCAGGGACTCTTATTTATTCCCATTTGCTCTAGGGCTTTTCGGTTTCCCTTCTTCCGGTAGGCCGCGTAGAGGCA
TGCACCGGGTAGGTTTCCGCGGTGACCCCGCGGGCCTGAGGGACGCTCCCTGCCCCATCCCGGCTGTTGGGCT
GGGCCGCTTTGCTCTGCTTCGCCCTGTGCTGTGTTCTCCAGCTTTGTAGCAGCAGCCTTGACAAACCCAGGCGC
ACTGTACCAAGGCAATGTAACTTTTGATTTTCGGTCAATTTAAGTTCTTTTGTACCAAATATTAATAAACAGTT
TTGACTTC

4225/5332
FIGURE 3675

ACGCGGGGCGCGGGCTCCGTCGGCTACGCGGGGCGGGCGCAGGCGACGGGCACGGCGGGCGAGCGGGCGGTATG

GCGGCGGGCGGGGCCCGCGGGGGCCGACGGGGCCCCGAGCCCATGCCGAGCTACGCGCAGCTAGTGCAGCGCGGC
TGGGGCAGCGCGCTGGCGGGCGCGGGGCTGCACGGACTGCGGGTGGGGGCTGGCGCGTCGCGGGCTGGCTGAG
CACGCGCACCTGGCGCCGCCGAGCTGCTGCTGCTGGCGCTCGGCGCGCTGGGCTGGACCGCCCTGCGCTCCGCG
GCCACTGCGCGCCTCTTTCGGCCCCCTGGCGAAGCGGTGCTGCCTCCAGCCCAGAGATGCCGCCAAGATGCCCCGAG
AGCGCTTGGAAGTTTCTCTTCTACCTGGGCAGCTGGAGCTACAGTGCCTACCTGCTGTTTGGCACCAGCTACCCC
TTCTTCCATGACCCACCATCTGTCTTCTACGACTGGACGCCGGGCATGGCAGTGCCACGGGACATTGCAGCCGCC
TACCTGCTCCAGGGAAGCTTCTATGGCCACTCCATCTACGCTACGCTATACATGGACACCTGGCGCAAGGACTCG
GTGGTCATGCTGCTCCACCACGTGGTCACTCTCATCCTCATCGTCTCCTCCTACGCCTTCCGGTACCACAATGTG
GGCATCCTTGTGCTCTTCTGACGATATCAGTGACGTGCAGCTTGAGTTCACCAAGCTCAACATTTACTTCAAG
TCCGCGGGCGGCTCCTACCATCGGCTGCATGCCTTGGCAGCAGACTTGGGCTGCCTCAGCTTCGGCTTCAGCTGG
TTCTGGTTCCGCTCTACTGGTTCCCGCTCAAGGTCTGTATGCCACCAGTCACTGCAGTCTGCGCACGGTGCCT
GACATCCCCTTCTACTTCTTCTCAATGCGCTCCTGCTGCTGCTCACCCTTATGAACCTCTACTGGTTCTGTAC
ATCGTGGCGTTTGACGCCAAGGTGTTGACAGGCCAGGTGCACGAGCTGAAGGACCTGCGGGAGTATGACACAGCC
GAGGCCAGAGCCTGAAGCCCAGCAAAGCCGAGAAGCCACTGAGGAACGGCCTGGTGAAGGACAAGCGCTTCTGA

ACCCCTCGGCCCCGCCCCGTGGACCCGGCCCCACCCCGAATACCCCGGCCACGCTCCCCGTCTTGGCCGCCCC
TCCACCCCTTCAACTCTGCTCCTCTAGGGCGCGGCCACCTCCCTGGGACCCCGCCCCCTCATCTGCTCCA
GTTCCCGGCCACGCCCCCAGGACCCCTGCCCCCTCCGGGGACACCGGCCCGCCCTCAGCCCACTGGTCCCGGGC
CGCGCGGACCCCTGCGCACTCTCTGGTCATCGCCTGGGAGGAAGATGCCACCGCCGCGAGCAAGGTCCCTGCGGCC
ACCACCTCCTCCTCCTCCTGGCCCTGCTGCTGCCCTCGCTGCCCTGACCCGCGCCCCCGTGGCCCCAGGCCAG
CCGCGGCCCTGCTCCAGGCTCTAGGACTGCGCGATGAGCCCCAGGGTGGCCCCAGGCTCCGGCCGGTTCCCCCGG
TCATGTGGCGCCTGTTTCGACGCCGGGACCCCCAGGAGACCAGGTCTGGCTCGCGGGCGGACGTCCCCAGGGGTCA
CCCTGCAACCGTGCCACGTGGAGGAGCTGGGGGTGCGCGGAAACATCGTGCGCCACATCCCGGACCGCGGTGCGC
CCACCCGGGCTCGGAGCCTGCCTCGGCCGCGGGGCATTGCCCTGAGTGGACAGTCGTCTTCGACCTGTCGGCTG
TGGAACCCGCTGAGCGCCCCGAGCCGGGCCCGCCTGGAGCTGCGTTTCGCGGCGGGCGGGCGGCGAGCCCCGAGG
GCGGCTGGGAGCTGAGCGTGGCGCAAGCGGGCCAGGGCGCGGGCGCGGACCCCGGGCCGGTGTGCTCCGCCAGT
TGGTGCCCGCCCTGGGGCGCCAGTGCGCGCGGAGCTGCTGGGCGCCGCTTGGGCTCGCAACGCCTCATGGCCGC
GCAGCCTCCGCTGGCGCTGGCGCTACGCCCCGGGCCCCCTGCCGCTGCGCGCGCCTGGCCGAGGCCTCGCTGC
TGCTGGTGACCTCGACCCGCGCCTGTGCCACCCCTGGCCGGCGCGCGCGGACGCCGAACCGTGTGGGCG
GCGGCCCCGGGGCGCTTGTGCGCGCGGGCGGCTGTACGTGAGCTTCCGCGAGGTGGGCTGGCACCGCTGGGTCA
TCGCGCGCGCGGCTTCTTGCCAACTACTGCCAGGGTCAGTGCGCGCTGCCGCTCGCGCTGTCGGGTCGGGG
GGCCGCGGGCGCTCAACCACGCTGTGCTGCGCGCGCTCATGCACGCGGCCCGCCGGGAGCCGCGACCTGCCCT
GCTGCGTGCCCGCGCGCCTGTGCCCCATCTCGTGCTCTTCTTTGACAACAGCGACAACGTGGTGCTGCGGCAGT
ATGAGGACATGGTGGTGAGAGTGCGGCTGCCGCTAACCCGGGGCGGGCAGGACGCGGGCCCAACAATAAATG
CCGCGTGGTCTGCTC

4226/5332
FIGURE 3676

GGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCGGCCCCGGCCTCCGGCGGCTCCGGGGAGG
TAGACGAGCTGTTTCGACGTAAAGAACGCCCTTCTACATCGGCAGCTACCAGCAGTGCATAAACGAGGCGCAGCGGG
TGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCCTGTATAGAGCGTACCTGGCGCAGAGGAAGT
TCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATGTTTGCTGACTACC
TCGCCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGCGTGGACGTGACCA
ACACCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCCCTGCGTGCGCTGC
ACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGCCTGGACCTCGCCC
GGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCAGCTCGCCACTGCCTGGGTGAGCC
TGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCAGGAGATGGCTGACAAGTGCTCGCCCACCC
TGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAGGGCCTGCTGCAGG
AGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCCAGCACCTGGGCAAGC
CCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATCCCTTCATCAAGGAGTACC
AGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACGTACGCTCCCAGCGCCTGAGGGCTGGCCCAGAGCTGTCA
GGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCACCTGCATCCCCTC
TGGGGGCAGGAGCCCACCCCCAGCACCCCCATCTGTTAATAAATATCTCAACTCC

4227/5332
FIGURE 3677

ACAAGCGGCCACAAGGATGGCAGGCTTCGCGGAGCTCGGGCTGTCATCGTGGCTCGTGGAACAATGTCGGCAGCT
GGGTTTGAAGCAGCCCACGCCCCGTGCAGCTCGGCTGCATCCCCGCCATCCTGGAGGGTCGAGACTGCTTGGGCTG
TGCTAAGACAGGCAGTGGGAAGACAGCAGCGTTTGTCTTCCCATCTTGAGAAGCTGTCTGAGGATCCCTATGG
CATCTTCTGCCTCGTCCTGACACCCACCAGGGAGCTGGCCTACCAGATCGCAGAGCAGTTCCGGGTCTTGGGAA
GCCTCTAGGGCTGAAAGACTGCATCATCGTTCGGTGGCATGGACATGGTGGCCAGGCGCTGGAGCTCTCTCGGAA
ACCACACGTGGTCATCGCCACGCCGGGGCGCCTGGCAGATCACCTGCGCAGCTCCAACACTTTTAGTATAAAGAA
GATCCGCTTCTTGGTGATGGATGAGGCAGACCGGCTGCTGGAACAGGGCTGCACTGACTTCACCGTGGACCTGGA
GGCCATCCTGGCGGCTGTGCCGGCCCGCAGGCAGACATGCTGTTTACGCGCCACGCTGACCGACACACTCCGGGA
GCTGCAGGGTCTGGCCACCAACCAGCCCTTCTTCTGGGAAGCACAGGCCCGGTGAGCACCGTGGAGCAGCTGGA
CCAGCGCTACCTGCTGGTGCCTGAGAAGGTCAAGGACGCCTACCTGGTCCACCTGATCCAGCGCTTCCAGGATGA
GCACGAGGACTGGTCCATTATCATCTTCACCAACACGTGCAAGACCTGCCAGATTCTGTGCATGATGCTGCGCAA
ATTCAGCTTCCCCACCGTGGCTCTGCACTCCATGATGAAGCAGAAAGAACGCTTTGCCGCCCTAGCCAAGTTCAA
GTCCAGCATCTACCGGATCCTGATCGCAACAGACGTGGCCTCCCGGGGCTGGACATCCCTACGGTACAGGTGGT
CATCAACCACAACACCCCGGGCTCCCCAAGATCTACATCCACCGAGTCGGCCGGACGGCCCGTGCAGGGCGGCA
GGGTCAGGCCATCACGCTGGTGACACAGTACGACATCCACCTGGTGCACGCCATCGAGGAGCAGATCAAGAAGAA
GCTGGAGGAGTTCTCCGTGGAAGAGGCCGAGGTGCTACAGATCCTCACACAGGTCAACGTGGTGCGAAGAGAGTG
TGAGATCAAACCTGGAGGCGGCCACTTTGACGAAAAGAAGGAGATCAACAAACGGAAGCAGCTGATCCTGGAGGG
GAAGGACCCTGACCTGGAGGCCAAGCGCAAGGCTGAGCTGGCCAAGATCAAGCAGAAGAACCGGCGCTTCAAGGA
GAAGGTGGAGGAGACGCTGAAGCGACAGAAGGCTGGCAGGGCTGGCCACAAGGGGCGTCCACCCAGGACACCGTC
TGGGTCCCACTCAGGCCAGTCCCTCCAGGGCTGGTCTGAGCCCCACACGGCCATCTGCCCAGTCTTACT
CGTCCATGGAGCTGAGGGTCGGAGGAACCTTCCTTGGGGGCAGCAGCCCTTCCCGGGGCTACCCAGTGCCCCA
CAGCAGAACCCGTGGGCGCTCGTGTGTGCGGGCCCTGCTCCTCTGCCCCGAAACCACTGGCTGGTCCCTTCCCT
GAGCCCTGGCCAAGATTAGGCTGCAGGGGAAGAAAGAACATGACCGGGAGGTTGTGACCCCAACCCAAGGTCAC
CCCCAGGGGTGCCGCATACAGGAGGTGCTTAATAAACGGGTCTTTTACTTCCTC

4228/5332
FIGURE 3678

GGCGCATGACTAGTTGGGGCCAAACCAGTGCTCCTGCCACCTCTCTGGCTGCCCCCTAGAGCCTGCCCATCCCAG
CCTGACCAATGTCCACAGCCAGGGAGCAGCCAATCTTCAGCACACGGGCGCACGTGTTCCAAATTGACCCAGCCA
CCAAGCGAAACTGGATCCCAGCGGGCAAGCACGCACTCACTGTCTCCTATTCTACGATGCCACCCGCAATGTGT
ACCGCATCATCAGCATCGGAGGCGCCAAGGCCATCATCAACAGCACTGTCACTCCCAACATGACCTTCACCAAAA
CTTCCCAGAAGTTCGGGCAGTGGGCGGACAGTCGCGCCAACACAGTCTACGGCCTGGGCTTTGCCTCTGAACAGC
ATCTGACACAGTTTGCCGAGAAGTTCCAGGAAGTGAAGGAAGCAGCCAGGCTGGCCAGGGAGAAATCTCAGGATG
GCGGGGAGCTCACCAGTCCAGCCCTGGGGCTCGCCTCCCACCAGGTGCCCCGAGCCCTCTCGTCAGTGCCAAACG
GCCCCGCGAGGAAAACTGTTCCGCAGCCAGAGCGCTGATGCCCCGCCCCACAGAGCGCGAGCGGCTAAAGA
AGATGTTGTCTGAGGGCTCCGTGGGCGAGGTACAGTGGGAGGCCGAGTTTTTCGCACTGCAGGACAGCAACAACA
AGCTGGCAGGCGCCCTGCGAGAGGCCAACGCCGCCGCGAGCCAGTGGAGGCAGCAGCTGGAGGCTCAGCGTGCAG
AGGCCGAGCGGCTGCGGCAGCGGGTGGCTGAGCTGGAGGCTCAGGCAGCTTCAGAGGTGACCCCCACCGGTGAGA
AGGAGGGGCTGGGCCAGGGCCAGTCGCTGGAACAGCTGGAAGCTCTGGTGCAAACCAAGGACCAGGAGATTGAGA
CCCTGAAGAGTCAGACTGGGGGGCCCCGCGAGGCCCTGGAGGCTGCCGAGCGTGAGGAGACTCAGCAGAAGGTGC
AGACCCGCAATGCGGAGTTGGAGCACCAGCTGCGGGCGATGGAGCGCAGCCTGGAGGAGGCACGGGCAGAGCGGG
AGCGGGCGCGGGCTGAGGTGGGCCGGGCAGCGCAGCTGCTGGACGTCAGCCTGTTGAGCTGAGTGAGCTGCGTG
AGGGCCTGGCCCGCTGGCTGAGGCTGCGCCCTTGAGCCGGGGCTGGTTTTCTATGAACGATTCCGGCCTGGGATG
CGGGCCAGGCTGCAGGCGGCATAGTTGGGCCCATTCTGCTCGAAAGGGACTGGGGGTCCCAACTTAGCCCTGG
GTGGGCCGGGCCGGGCTGGGCTGGGGTGGGCCCCAGTCGGCTCTGGTTGTTGGCAGCTTTGGGGCTGTTTTGAG
CTTCTCATTGTGTAGAAATTTCTAGATCCCCGATTACATTTCTAAGCGTG

4229/5332
FIGURE 3679A

GGTTCATTGTCATGTCCCCGCTCGCGCGGCGGCGGCGGGTGAGGAGCCTGAGGCGGCGGCGGGGGTGGCTC
CGCGCGCGGTGGTCTCGGGGGCAAAATAACATGCGAGCCAGACGAATTACACAGGAGACTTTTGATGCTGTATTA
CAAGAAAAAGCCAAACGATATCACATGGATGCCAGTGGTGAGGCTGTAAGCGAAACTCTTCAGTTTAAAGCTCAA
GATCTCTTAAGGGCAGTCCCAAGATCCAGAGCAGAGATGTATGATGACGTCCACAGCGATGGCAGATACTCCCTC
AGTGGATCTGTAGCTCACTCTAGAGATGCCGGAAGAGAAGGCGCTGAGAAGTGACGTATTTCCAGGGCCTTCCTTC
AGATCAAGCAACCCCTCCATCAGTGATGACAGCTACTTTCGCAAAGAATGTGGCCGGGATCTGGAATTTTCTCAC
TCTGATTCTCGGGACCAGGTCATTGGCCACCGGAAATTGGGGCATTTCGTTCTCAGGACTGGAAATTTGCGCTC
CGTGGTTCTTGGGAACAAGACTTTGGCCATCCAGTTTCTCAAGAGTCCTCTTGGTCACAGGAGTATAGTTTGGT
CCCTCTGCAGTTTGGGGGACTTTGGATCTTCCAGGCTGATTGAGAAAGAGTGTTGGAGAAGGAGAGTCGGGAT
TATGACGTGGACCATCCTGGGGAGGCTGACTCTGTGCTTAGGGCGGCAGTCAAGTCCAGGCCAGAGGTCGAGCT
CTAAACATCGTTGACCAGGAAGGTTCCCTCCTAGGAAAGGGGGAGACTCAGGGCCTGCTCACAGCTAAGGGGGGT
GTTGGGAACTTGTACATTGAGAAATGTGAGCACAAAAAATACCCACCGTGAATCGTATTACTCCCAAAACT
CAGGGCACTAACCAAAATCCAGAAAAACACTCCAAGTCTGTGACCTGTGACCTGGGGACAAACCCAGGACAGAAGAT
ATCCAGTTCCTTCAGAAAGATCCCTCTGGGCTGGATCTGGAAGAATCTTCGGCTCCCAAGAAAGATGAGC
TTTGACATCATAGATAAGTCTGATGTTTTTCAAGATTGGGATAGAAATAATCAAATGGGCAGGATTCCACACC
ATAAAAGATGATATTAATTTTCCCAACTTTTCCAGACTCTCTTTGAACCTGAAACAGAAACCTGTGCTAAAATG
CTTGCCCTCATTCAAATGTTCTTAAACCAGAGCACAGAGATTTTTGCTTTTTTACTATCAAATTTTTAAAGCAC
TCTGCTTTGAAAACACCCAGAGTTGATAATGAGTTTTTAAACATGCTTTTAGACAAAGGTGCTGTGAAGACCAAA
AATTGCTTTTTTGAATCATAAAGCCTTTTGACAAGTACATAATGAGACTTCAAGACCGGCTTCTGAAGAGTGTC
ACACCTTTGCTTATGGCCTGCAATGCCTACGAGCTAAGTGTCAGATGAAGACCCTCAGTAACCCCTGGACTTG
GCTCTTGCCCTAGAAACCACTCTCTGCGGGAAGTCTTTGGCCCTTTTGGGACAGACATTTTCTTGCC
TCTTCTTTCCGGCAGGAGAAAACTTTAGAAGCTGTGGCCTGCAAGATATAGCTCCCTCACCTGCTGCGTTTCCA
AACTTCGAAGACTCCACTTTGTTTGGGCGAGAGTACATAGACCACCTGAAGGCCTGGCTAGTCAGCAGCGGATGT
CCCCTCCAGGTTAAGAAAGCCGAACCAGAGCCGATGCGAGAGGAGGAGAAAAATGATTCTCTACGAAACCTGAA
ATTGAGGCCAAGGCTCCAAGTAGTCTGAGTGATGCTGTCCCCAGCGAGCAGATCACAGGGTAGTGGGCACCATC
GACCAGCTTGTGAACGTGTCTGCAAGGCAGCCTGTCTCCCAAAGAGAGAACTCTTCTCAAAGAGGACCTGCT
TACTGGTTTTTGTCTGATGAAAATAGTCTGGAGTATAAATATTACAAGCTGAAGTTGGCAGAAATGCAGCGGATG
AGCGAGAACTTGCAGGAGCCGACCAGAAGCCGACCTCAGCAGACTGTGCAAGTGAGGGCCATGCTGTACTCCCGG
GCTGTCCGCAACCTCAAGAAGAACTCTTCCGTGGCAGCGCGGGGCTCCTCCGTGCTCAAGGGCTCCGGGGC
TGGAAGGCGAGGAGAGCGACCACCGGGACCCAGACCCTCTATCCTCAGGCACCAGGCTGAAACACCACGGCCGG
CAGGCTCCAGGCCTCTCACAGGCAAAACCATCCCTGCCAGACAGAAATGATGCTGCCAAGGACTGCCGCCAGAC
CCAGTTGGACCTTCTCTCAGGACCCAGCTTAGAAGCCTCAGGCCATCCCCAAGCCAGCAGGAGTGGACATC
TCTGAAGCACCTCAGACCTCTTCTCCCTGCCATCTGCTGACATTGACATGAAGACAATGGAGACTGCAGAGAAA
CTGGCTAGATTTGTTGCTCAGGTGGGACCAGAGATCGAACAATCAGCATAGAAAACAGCACCGGATAACCCCTGAC
CTGTGGTTTTCTACATGACCAAAATAGTTCTGCTTTCAAATTTCTATCGAAAGAAAGTGTGTTGAACATGTCCATCA
ATTTGTTTACGTCATCTCCGCACAACCTTTCACACTGGTGGTGGTGACACCACGGGTTCTCAGGAGAGCCCCGTG
GACCTCATGGAAGGGGAAGCAGAGTTTGAAGACGAGCCCCCTCCGCGGGAGGCTGAGCTGGAGAGCCCAGAGGTG
ATGCCTGAGGAGGAGGACGAGGACGATGAGGATGGGGGAGAGGAGGCCCCCGCTCCTGGAGGGGCGGGCAAGTCT
GAGGGCAGCACCCCTGCCGACGGCCTTCCCGGCGAGGCTGCCGAGGACGACCTGGCTGGAGCACCTGCCTTGTC
CAGGCCTCCTCAGGTACCTGCTTCCCTCGGAAGAGGATCAGCAGCAAGTCATTGAAGGTTGGCATGATTCCAGCT
CCCAAGAGAGTGTGCTCATCCAGGAGCCAAAAGTCCATGAACCAAGTTCGAATTGCCTATGACAGGCCTCGGGGT
CGTCCCATGTCCAAAAGAAGAAACCAAGGACTTGACTTCGCCCAGCAGAAGCTGACCGATAAGAACCTGGGC
TTCAGATGCTGCAGAAGATGGGCTGGAAGGAGGGCCATGGCCTGGGCTCCCTCGGAAAGGGCATCAGGGAGCCG
GTCAGCGTGGGAACCCCTCGGAAGGGGAAGGTTGGGTGCTGACGGGCAGGAGCACAAAGAAGACACATTGAT
GTGTTCCGACAGAGGATGATGAGATGTACAGACACAAGCGGGCCAACAAATAGATCAAACCACTGATGTGAAA
GATAAGCCTTGAAGCAGCAATTGCCCTTAAACATCATCCCTGCCCTGGATCGGCCTGGAGCCAGTGCCCAAGTA
CGGTTTGGTGTGTACATGAAAACAAACGCTCTCTGCAGTCTCTGGGGCGGAGGTTTCGCTGGCTTTTCTTCTCTC
AAAGAAAAAACATGCACCATTTTCAATGTGCTTTTGCTCTCTCTCTGTTACATGCTTTTAGCAGCAAGTCC

4230/5332
FIGURE 3679B

CCTCCAAATCTGTCTTGGTTCCCTTCAGAAGGTGGCGCTGCCCCGAAAGGCACCTCAGCCTGTGAGTGCTGAG
GAACCAGCTCCTCTGGCTGATTTTCCAGTTGGACTGGCCATTGCTCTCCAGAAGTGCTCTGTTAGCAAACGTGAT
GTGGAAACGATCACAGATGGTGTTCGTTGTTTCGCCAGAATTTATACGGGGGAGACAAATCCCGGTAATTA
CCAAGTCTGCACTCGGGTACCAAAGCTCTGAAGCTCTCTGAACAGTTGCCATACTTGAGTTGATGAATGTGTTAT
TCATGGTGTCTCATCTCATCAATGCATCTTGAGAGACTTAATGAAATTTTAGCAACAGTATAGAATAGCTCTATC
GGGTGGGGAGTAATCATTAACAGATGAAATCGGCCCCAGATTAC

4231/5332
FIGURE 3680

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTCGC
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTTCGCGGTCGTCCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCCGGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCGATGGGGCCAGAGGAGGCAGTGAAAGAGGCCGTGGAGCAGTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTCAGCATACCTCACCCGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCCAGAAAGGGGGCTACCCCATCATCTTCACTGCCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCTCGGATCGCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCCCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCTCTGCTGACTGGTGCCATCACCCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAGCGTTCTGGATAACCCTGGCATCCTGAGCGAG
CTCTGTGGAACCCTGTCCCGCCTGGCCATTGCAACGAGTTCTGCCAGGAGGTCGTGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTGAGGAGCTCGTGAAG
CAAGTGCTGAGCACCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCTGGCCCTGCGTAAGCCCCGACAACAGCCGCATCATCGTGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGCGTGCAGAAACAGGCTTGATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATGATGAGGCCCGATCTGCCACCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGTCATGTGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTTCACTGTCCCCATTAGTTCTGTCCCTTCACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGGAGCCTTGAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCAG
CCACTTCTGGGTCCCAGCCAGCAGCACGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG
TCTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCTTGGG
CCAGCCAGGATACCTGATAATAAAGATCATTGGGTG

4232/5332
FIGURE 3681

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCATGGCGGTCCCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAACGGCAGTTTGTT
CCGATACAAGCACCCGCTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGATGCCCTGGTCCTGCGCTTCTTCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCCCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCCCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACTGACCATGTGCGAGGACAG
ACCCATGCTGCAGTTCTCTCTGCACACCAGCTTCTGTCTCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGACGGGACTTCTTGACACCAGCCGCCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGTGCTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAAGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGAGTACCTGACCGCGCTCATCCTCACCCCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCAGCTCCTCTACTATCCCCGACCCATC
CTCAGCCAGCGCTGCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCTCTTCTCCGTGGCGTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTCTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGGCGCCCCGTGTCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCTTCAACACAGTGCCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCTGGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

GGTGCGTATGGAGGAGCCGGAGATGCAGCTCAAGGGGAAGAAAGTCACGGACAAGTTCACTGAGAGCGTCTACGT
 CCTGGCCAACGAGCCATCCGTGGCCCTGTACCGGCTGCAGGAGCATGTGCGTCGCTCCCTCCCCGAGCTGGCCCA
 GCACAAGGCAGACATGCAGCGTTGGGAGGAGCAGAGCCAGGGAGCCATCTACACTGTGGAGTACGCCTGCAGCGC
 CGTGAAGAACCTGGTGGACAGCAGCGTCTACTTCCGCAGCGTGGAGGGTCTGCTCAAACAGGCCATCAGCATCCG
 GGACCATATGAATGCCAGTGGCCAGGGCCACAGCCCCGAGGAACCAACCCCGCCCTCCTCAGCCTGATCCTGGAA
 GAGACTCGGGGCCCCCAGCCTCCGCCAACCAGACAAAGATCATTCCTCAGCCTGGGACGATGGGGAGGAAA
 AAAATCCAGATCTCCCGCATCCTGGACCAAAGGAATCGGCAGGTGACGTTACCAAGCGGAAGTTCGGGCTGATG
 AAGAAGGCCTATGAGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCATCTTCAACAGCGCCAACCGCCTC
 TTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCTGAAGTACACAGAGTACAGCGAGCCCCACGAGAGCCGC
 ACCAACACTGACATCCTCGAGACGCTGAAGCGGAGGGGCATTGGCCTCGATGGGCCAGAGCTGGAGCCGGATGAA
 GGGCCTGAGGAGCCAGGAGAGAAAGTTTCGGAGGCTGGCAGGCGAAGGGGGTGATCCGGCCTTGCCCCGACCCCGG
 CTGTATCCTGCAGCTCCTGCTATGCCAGCCAGATGTGGTATACGGGGCCTTACCGCCACCAGGCTGTGACCCC
 AGTGGGCTTGGGGAAGCACTGCCCGCCAGAGCCGCCCATCTCCCTTCCGACCAGCAGCCCCCAAAGCCGGGCC
 CCAGGCCTGGTGCACCCTCTCTTCTACCAAGCCACCTCACCAGCAAGACACCACCCCACTGTACCTGCCGACG
 GAAGGGCGGAGGTGAGACCTGCCTGGTGGCCTGGCTGGGCCCCGAGGGGGACTAAACACCTCCAGAAGCCTCTAC
 AGTGGCCTGCAGAACCCCTGCTCCACTGCAACTCCCGGACCCCACTGGGGAGCTTCCCCTTCCCTCCCGGAGGC
 CCCCAGTGGGGGCCGAAGCCTGGGCGAGGAGGGTCCCCCAACCCGCGGCGCCTCCCCGCGGACCCCCCAGTCA
 GCATCAAGTCTGAGCGCCTCTCTCCGGCCCCCGGGGGCCCCGGCGACTTTCCTAAGACCTTCCCCTATCCCTTGC
 TCCTCGCCCGGTCCCTGGCAGAGCGCTCTGCGCCCTGGGCCCCGCTGCGCCGCTGCCCTTGGCCGACGGCTTGGC
 CCCGGTAGAGATACCCCGTGGCACCAGCCCCAGAGCGCTCGCCAGGTACGGCGAGGGGCAGCTGGGGACCCACC
 TCCCTCCAGGCCTCTTTCAGAGAAGACCCAACAGTGAACGCCCCCTCCGCGGTGGGGGCTTGGAGGTGGGCGGCTG
 GACTCAATCCACCCTGGGGGGCTCCTTTCTTCTTCTTCTATTTGTGTGTATATCCACAAATAAAACGCGCGTGGCG
 TCCGTGGACC

4234/5332
FIGURE 3683

ACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGGCTGGTGGAGCGAC
ACCCAGGCAGGAGAGGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACGAGTTGGGGGAGTC
CTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCCGCCCTTGCTTATAAGCCTT
TGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAGGGTCCGGTCTCCA
GTTTGCCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTTGAGAGAACTGGGCTT
TCGGCGCGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGCAGAAGACCTCATC
CAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGAGAGGAGGCTGCAGATGGCTCAGAC
ACTGTGGTCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTTCCTCTCCA
CAGGCAGGCAGCTCCCTGAAGCACTCCACCACTCTCACCACCGGCAGCGAGGGAACGAGGTGTGAGCTCTGCCG
GCCACCCTAGACTCCCTGTCCATCCACAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAAGGAGCATTGCGG
AAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCTCATCTGGGCCTCCGCCTTTGGAGAG
ATTGAGACCGTTTCGCTTCTGTGAGTGGGGTGCCGACCCACATCCTGGCAAAAGAGCGAGAGAGCGCCCTG
TCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGACATCAACATCTAT
GATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTGAAATGCGTTGAGGCCTTGCTGGCC
CGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGCCCTGGGATACCGG
AAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCAGAGCAACCTGGTGCCCGCTGACCCTGAGTGA

AGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAACCCAGAAGTACTT
CAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTTCTGTGCAG

4235/5332
FIGURE 3684

CACGCGGTTCCGGGTCCCAAGATTTGGCTCCAAGAGCTATTTCGAGAGAAACAGCCTCGCACAAAAAGCCACCGC
CCCCGAAACCCGCGGGAAATCTGTTTCCTGTGAAAGGCCTGGCCTCCGGGCATTGGCGGTTTCCCTGATCCTCTC
TCCCAAATTTTCCGGCAGGGGATTGATCGAGGCGACATTTAGGACTGGGGTGGGCGAGGGAGTGGCGGTTCTCGT
CCCAAGTTACAGGTGAGGACGTTCAGGCCAAGGCGTAGCCAAGATCGCGCCGCCCTGTAGCTTGAGGAGGCGCCG
GGATTCTGAACCAAGGCTGTGCCCAATCCTAAGCCCTGCGAGGTCTTGTGGAACCGACATGACCCACTCTTTGGTT
TGTCCAGAGACAGTGAGCAGGGTGAGTTCAGTGCTGAATCGCAACACTCGGCAGTTTGGAACCAACATCTTTTC
GACCAGGATGAGGAGACATGTTGGAACCTCAGACCAGGGCCCCCTCCAGTGGGTGACGCTGGAGTTTCCCCAGCTC
ATCCGTGTCTCCAGCTGCAGATCCAGTTTCAGGGTGGCTTCTCCAGTCGCCGGGGCTGCCTGGAAGGTTTCACAG
GGCACTCAGGCTCTCCACAAGATTGTAGATTTCTACCCTGAGGACAACAACCTCGCTTCAGACTTTCCCCATACCA
GCTGCTGAAGTGGACCGGCTGAAGGTGACGTTTGAGGATGCCACTGACTTTTTTGGCCGTGTGGTTCATCTACCAC
CTGCGGGTGCTTGGGGAGAAGGTGTGAGACCTCTAGGGGCTGTCTCCTCCAGGAAGCCCTCCGGGAAGCACAGCA
AAGTCCCTCATTCTGCACAGAAGGTTTATTGGTTCCTCTTGGGAAGGGTCCCCCTCCACCACCTGTCCAGAAGCT
GCCTTTGAAGTCAGTTCTGGGTTTCCCCAGCTCTGGCTGACCATTTTGTTCCTGAGTGTCTGAGTCCCCGGCAG
GCGGCCTTCACTCAGGGTCAGCGGGCACCAGGTTGCTCTGGAAGAGCTTGAGGATGTGGTTCTCGATCACCTGTT
GCACTGAGATGGGGCAGGGAAAAGGTGGGCTGTGAGCTTGAATCGGGAGTGGGGTGGAGGCACAGGCCAACCTGC
GCTCTCCCCTTAGGGGACAAACAGGGACCCTTGACAGAGACCTGCATTACAGAGCAAAGCTGGGAGAACCAGGAC
TCACCCCAGGAACCTCAACTTCCCCTAAGTTTGTAAAAATGCACTTTGTAGCTTTTCAGAATTAATATAAAAAAT
ATTCCTACC

4236/5332
FIGURE 3685

GTCTCAAGATGGACAACCGGGATGTTGCAGGAAAGGCTAACCGGTGGTTTGGGGTTGCTCCCCCTAAATCTGGAA
AAATGAACATGAACATCCTTCACCAGGAAGAGCTCATCGCTCAGAAGAAACGGGAAATTGAAGCCAAAATGGAAC
AGAAAGCCAAGCAGAATCAGGTGGCCAGCCCTCAGCCCCACATCCTGGCGAAATCACAAATGCACACAACCTCTT
CCTGCATTTCCAACAAGTTTGCCAACGATGGTAGCTTCTTGCAGCAGTTTCTGAAGTTGCAGAAGGCACAGACCA
GCACAGACGCCCCGACAGTGCGCCAGCGCCCTCCCAGCACACCCACCCCGAGCGCTGGGAAGAGGTCCCTGC
TCATCAGCAGGCGGACAGGCCTGGGGCTGGCCAGCCTGCCGGGCCCTGTGAAGAGCTACTCCCACGCCAAGCAGC
TGCCCGTGGCGCACCGCCCGAGTGTCTTCCAGTCCCCTGACGAGGACGAGGAGGAGGACTATGAGCAGTGGCTGG
AGATCAAAGTTTCACCCCCAGAGGGAGCCGAGACTCGGAAAGTGATAGAGAAATTGGCCCGCTTTGTGGCAGAAG
GAGGCCCCGAGTTAGAAAAAGTAGCTATGGAGGACTACAAGGATAAACCAGCATTTCATTTTGCACGATAAGA
ATAGCAGGGAATTCCTCTACTACAGGAAGAAGGTGGCTGAGATAAGAAAGGAAGCACAGAAGTCGCAGGCAGCCT
CTCAGAAAGTTTCACCCCCAGAGGACGAAGAGGTCAAGAACCTTGAGAAAAGTTGGCCAGGTTTCATAGCGGACG
GGGGTCCCGAGGTGGAACCATTGCCCTCCAGAACACCGGTGAGAACCCAGGCATTTCAGCTTTCTGTATGAGCCCA
ATAGCCAAGGGTACAAGTACTACCGACAGAAGCTGGAGGAGTTCCGGAAAGCCAAGGCCAGCTCCACAGGCAGCT
TCACAGCACCTGATCCCGGCCCTGAAGCGCAAGTCCCCTCCTGAGGCCCTGTCAGGGTCTTTACCCCCAGCCACCA
CCTGCCCCCGCTCGTCCACGCCTGCGCCCACTATCATCCCTGCTCCAGCTGCCCCCGGGAAGCCAGCCTCCGCAG
CCACCGTGAAGAGGAAGCGGAAGAGCCGGTGGGGGCTGAAGAGGATAAGGTAGAGCTCCCACCTGCTGAACTGG
TGCAGAGGGACGTGGATGCCTCTCCCTCGCCTCTGTTCAGTTTCAGGACCTCAAGGGGCTCGGCTATGAGAAGGGGA
AGCCTGTGGGTCTAGTGGGCGTCACAGAGCTTTCAGACGCCCAGAAGAAGCAGCTGAAGGAGCAGCAGGAGATGC
AGCAGATGTACGACATGATCATGCAGCACAAAGCGGGCCATGCAGGACATGCAGCTGCTGTGGGAGAAGGCAGTCC
AACAGCACCAGCACGGCTATGACAGTGTGAGGAGGTGGACAGCGAGCTGGGCACCTGGGAGCACCAGCTGCGGC
GCATGGAGATGGATAAGACCAGGGAATGGGCCGAGCAGCTGACAAAGATGGGCCGGGGCAAGCACTTCATCGGAG
ACTTCCTGCCTCCAGACGAGCTGGAAAAGTTTATGGAGACCTTCAAGGCCCTGAAGGAGGGCCGTGAGCCTGACT
ACTCAGAGTACAAGGAGTTCAAGCTGACTGTGGAGAACATCGGCTACCAGATGCTGATGAAGATGGGCTGGAAGG
AGGGCGAGGGGCTGGGCTCAGAGGGCCAGGGCATCAAGAACCCAGTGAACAAGGGCACCACCACAGTGGACGGCG
CTGGCTTCGGCATTGACCGGCCGGCGGAGCTCTCCAAGGAGGACGACGAGTATGAGGCGTTCGCAAGAGGATGA
TGCTGGCCTACCGCTTCGGGCCAACCCCTGAACAATCCAGACGGCCTTACTACTGAGTGTCTTGAAATACA
TACTTTCTGAATGACCAACCGTCCCTGGACTGTGGAATGTTCCGGCCTGCATTTCTGCCACCCCTTCCGTTGTC
ACGAGTGCCGTGCCGTGTAATAAAGTCCAGTGCTCATCCACC

4237/5332
FIGURE 3686A

GCGGCTTGTGTGTGTGGAGGCCAAATGCGGGCTCAGGCGGCGGCAGCGGCCAGGCGGGCGGGCCAGGCTGC
GCAGGCCGAGGCGGCCGACTCGTGGTACCTGGCGCTTCTGGGCTTCGCTGAGCACTTCCGCACTTCCAGCCCCGC
CAAATCCGCTGTGCGTGCCTGCAGGCCGTGTCCCTTCAAGCCGCCGAGCGCATCGAGGCCCCGTAC
ACACCTGCAGCTGGGCTCCGTTCCTATCACCACCAAGAAGCAGCGAGGCGCGCAGCCACCTGGAGAAGGC
GTGGTTGATATCACAGCAAATCCCGCAGTTCGAAGATGTTAAATTTGAAGCAGCAAGTCTGTTGTCTGAATTGTA
CTGTCAAGAGAATTCCGTTGATGCAGCAAAGCCGCTGCTGCGGAAGGCGATCCAGATCTCACAGCAGACCCATA
TTGGCACTGCCGCTGCTCTTCCAGCTCGCTCAACTGCACACGCTTGAGAAGGACCTGGTGTGCGGCTGTGACCT
CTGGGTGTAGGGGCCGAGTACGCCCGGGTGGTGGGATCTGAATACACACGGGCGCTGTTCCCTCCTCAGCAAGGG
GATGCTGCTGCTGATGGAGCGAAAGCTGCAGGAGTGCACCCGCTGCTGACCCTCTGCGGGCAGATCGTGAGAA
CTGGCAGGGGAACCCCATCCAGAAGGAGTGCCTGCGTGTCTTCTTCTGGTGCTCCAGGTACCCACTATCTGGA
TGCCGGGAGGTGAAGAGCTGAAGCCGTGTCTGAAGCAGCTGCAGCAGTGCATCCAGACCATCTCCACACTGCA
CGATGATGAGATCTTCCAGCAACCCCGCTGACCTCTTCCACTGGCTGCCAAGGAGCACATGTGTGTGCTTGT
CTACCTGGTGACTGTGATGCACTCCATGCAGGCCGGCTACCTGGAGAAGGCGCAGAAGTACACGGACAAGGCCCT
CATGCAGCTGGAGAAGCTCAAGATGCTGGACTGCAGCCCCATCTGTCTATCTTCCAAGTATCTGCTGGAGCA
CATCATCATGTGCCGCTTGTACGGGTACAAGGCCACGGCGCTGCAGGAGATCTCCAGGTCTGCCAGCTGTG
CCAGCAGTCCCCCGGCTCTTCTCCAACCATGCAGCACAGTGCACACATTGCTGGGCTGTACTGTGTCTCTGT
CAACTGCATGGACAACCGGAAGCCAGTTCACACGGCCCTGCGGCTACCAACCACCAGGAGCTGTGGGCTT
CATCGTACCAACCTGGCGAGTGTGTATATACGGGAAGGAAATAGACACCAAGAGGTACTCTACAGTCTGCTGGA
GAGGATCAACCCGGACCACAGCTTCCCTGTGAGCTCGCACTGCCTCCGAGCAGCCGCTTCTATGTGCGTGGGCT
CTTCTCCTTCTTCCAGGGACGCTACAACGAGGCCAAGCGATTTCTGCGGGAACTCTGAAGATGTCCAATGCTGA
GGACCTGAACCGGCTCACAGCCTGCTCCCTCGTGCTTCTGGGCCACATCTTCTATGTGCTGGGAAACCACAGGGA
GAGTAACAACATGGTGGTGCCTGCCATGCAGCTCGCCAGCAAGATCCCGGACATGTGCGTACAGCTGTGGTCTGTC
AGCACTGCTGAGAGACCTGAATAAAGCCTGTGGGAACGCCATGGATGCCCATGAAGCGGCCAGATGCACCAGAA
CTTCTCGCAGCAGCTGCTCCAGGACCACATTGAGGCCTGCAGCCTCCCGAACACAACCTCATCAGTGGACAGA
CGGTCCACCCCCCGTGCAGTTCGAAGCTCAGAATGGACCAACACCAGCCTGGCCAGCCTCCTGTGAGCCTTGA
TGGGGCCATCCAGCTCCGCGAGGCTGCGCGTCTCCGGCTTCCACCCAGACGGCACTCAAGCCTGCCCCGAGGC
GTGCTTCTTCTGATTGTCTTAGAGCTTCCAAGTCTGGGAATGTGCGGGGCCAGTCCCTGCCCTCCAGGAG
GGGTGGTAGCCGTTCCACCTCGCAGCAGGACCCCAAGTGCAGAGGCTCACAGGTGGCACACAGGCGCTGTCTCT
CCAGAGCCATCCTTCAAGTGGACCTCAGTGCCAGTCTGCTCAGCATCTGGGTACAGTGGGCCAGGAGTAGGG
TGCAGGCCTCCAGCAGGTCTAATCTGTGTGCCAGGGCAGGAGTCCCCAGGGGCACCACGCCTGACTCTCCA
TACCCAGGCCTTGATGCCGAGCGGAGTAGAGTGTTCCTCTGCTCAAGGCAATTTCCAGAGCCCGGATGCCAG
TTTCTGGCCTGAATTTGGAGGGAAGAAGTAATGGCGCTAGTGTGGGACGAAGCACAGATCCAGCACTTTTCCCA
GCTTTCTCTCCAGCATCAGTCCCTGCAGCAGCTGGGGCCTCTGGTCAAGAACCTCAGGGACCCAGGAATCAGC
TTCCAAACATCTGCACCTTGACCGGACTCGCCATCCCGCGTGGGGTGCAGGTGATTGTAAACACGGGTGTGCA
TGTGGATGCACACGGGTGTGCGGTGAAGATCTGTGGAGATGGAGCTGGGAGCTGAGGCTCCTGTTGCCAGCCA
CCTTCCCCCATCTTGTGGCTGCTGAGGGGCAGGAAGCGGGGAGTGGGCTCGTCTCCTAAATTTAAGATCACCTC
CTCAGCTAGCTTAGAGTGCCTGGCACGGGCCCCCGCCCCGAGATCTGGAGCCCAGGGACTTTCTTCTGGCAG
ATCTGTGGCCTTCCCTGCTCAGCCTCTTGGTCCCCCACTCCCTCCACCGCTCACCTTCCCTGCTGGGTCTCTG
GGGCACAGTGTGAACCCGCACCCTAGCCAGGCCCCAGGGAGCCTCCGCTGGGCCCAGACAGCAGCGTTTGGTTT
TATCCACTTTTCTTGATAATCAGGAGGTGCCCAAGTGGTACAGTGTGGCATCCGAGTTGGGGCGGGTGGTCTG
GGTCAAGATAGCAGCAGCAGGTGTGAGGGCTCAAGACACCACCCCTCCAGCTTCTGGGGCCCAGGAGCCTCTCC
CTGCTACAGGGGGTGGGGTCTGCTCAGCAGGGTAGGTGGTGGTTTTAGGTCTTGTACCCCTCAGCTCAGTGAA
CTGCCCTCTGGGAGCTTTGGCGTCTGTGACTAAAGGGACGCTGGATTGCTCAGTCACTGCTGCTGGGCTCCCAGG
CTGGGTGTGCTTAGCCACAGGACGGGCTGTCAATAACCCCTTCTTACTGGCCACCACCTGACATCAGCACCA
GTGACAGGCTGGTCAAGGGCGGGGCTGGTGGGGTTTGTCTTAAGAGGACCACCGCATCTCTGGGTCTCCAGG
GGGAGAGCCTGGCCCTGTCTTTGCTACCCAGGGCTGCCCCAGGCCCATGAAGCCAATAGGAGAGCGTGTGGCA
CTGGCCCAAACTGTCCCTGTCTTCTTCTCCGAGCCATGGCCTCTGCTAGCTCCACCTTGAAGGAGCCCC
CCACATCTCCCTACATCCAGAGATGCCACCCTTGTGTCTCCACAATGTGCTCTGCCACCCGGGTTCCGC

4238/5332

FIGURE 3686B

ACTGTCCGACCCCTGCACACCACTCATGTCACCACGGCGTGCATCATGTTTCATCCCCATCTATTTATTTAAGCCT
TTCTTTGCTTGTAGGGCATTGTGTATGTAGAGCAGTTGAAAACAGAACCTCAGAACTTAACATCTGTCCTGATGT
TAAAGTGCTTTTCATGACCACCCTGTTATCTATGTATATGTAAAGTTAAGGATGAGATCTTAAGTTTACAATTAA
AAACTCAGTACTCAATATTTAATATTCTACTCGAGCTTTATGGAAGCCAAATCATGTGCATGTGTGTGTGTGCGT
GTGTGCAAGCTTTGAACCTCCTTCCACAGCCGCATCTTCTCATGACACAAAGCTTTTGATAAGTACTTTCCTGTG
GGTCGCTCAGCGCCTCATAGCATCTCATTCAATTGCAAGAATAGAGGCCAGACACGGTGGCGCATGCCTGTAGTC
CCAGCTAACTGGGAGGCTGAGGCAGGAGGATCACTTGAGCCCAGGAGATTGAGGCTGCAGTGAGCATGATCGCGA
CACTGCACTCCAGCCTGGGTGACGGTGAGACTTTGTCTC

4239/5332
FIGURE 3687

GGAGATTGTTGCCAGGGCTCTGGTGAGTTTCAAGATGACCGAAGAAGCATGCCGAACACGGAGTCAGAAACGAGCG
CTTGAACGGGACCCAACAGAGGACGATGTGGAGAGCAAGAAAATAAAAATGGAGAGAGGATTGTTGGCTTCAGAT
TTAAACACTGACGGAGACATGAGGGTGACACCTGAGCCGGGAGCAGGTCCAACCCAAGGATTGCTGAGGGCAACA
GAGGCCACGGCCATGGCCATGGGCAGAGGCGAAGGGCTGGTGGGCGATGGGCCCCGTGGACATGCGCACCTCACAC
AGTGACATGAAGTCCGAGAGGAGACCCCCCTCACCTGACGTGATTGTGCTCTCCGACAACGAGCAGCCCTCGAGC
CCGAGAGTGAATGGGCTGACCACGGTGGCCTTGAAGGAGACTAGCACCGAGGCCCTCATGAAAAGCAGTCCTGAA
GAACGAGAAAGGATGATCAAGCAGCTGAAGGAAGAATTGAGGTTAGAAGAAGCAAACTCGTGTGTTGAAAAAG
TTGCGGCAGAGTCAAATACAAAAGGAAGCCACCGCCAGAACCCACAGGTTCTGTTGGGAGCACCGTGACCACC
CCTCCCCCGCTTGTTCGGGGCACTCAGAACATTCTGCTGGCAAGCCATCACTCCAGACCTCTTCAGCTCGGATG
CCCGGCAGTGTATACCCCCGCCCCCTGGTCCGAGGTGGGCAGCAGGCGTCTCGAAGCTGGGGCCACAGGCGAGC
TCACAGGTCGTATGCCCCCACTCGTCAGGGGGGCTCAGCAAAATCCACAGCATTAGGCAACATTCCAGCACAGGG
CCACCGCCCCCTCTCTTCGGCCCCCGGGCGTGGTGCCAGTGTGCAGATTGAGGGACAGAGGATCATCCAGCAG
GGCCTCATCCGCTCGCCAATGTTCCCAACACCAGCCTGCTCGTCAACATCCCACAGCCCACCCACAGCATCACTG
AAGGGGACAACAGCCACCTCCGCTCAGGCCAACTCCACCCCCACTAGTGTGGCCTCTGTGGTCACCTTGCCGAG
TCTCCAGCAAGCCGACAGGCGGGCCGCAAGCTGGCGCTGCGCAAAACAGCTGGAGAAGACGCTACTCGAGATCCCC
CCACCCAAGCCCCAGCCCCAGAGATGAACCTTCTGCCCAGCGCCGCAACAACGAGTTCATCTACCTGGTCGGC
CTGGAGGAGGTGGTGCAGAACCTACTGGAGACACAAGCAGGCAGGATGTGCGCCGCACTGTGCTGTCCCGGGAG
CCCTACATGTGTGCACAGTGCAAGACGGACTTCACGTGCCGTGGCGGGAGGAGAAGAGCGGCGCCATCATGTGT
GAGAACTGCATGACAACCAACCAGAAGAAGGCGCTCAAGGTGGAGCACACCAGCCGGCTGAAGGCCGCTTTGTG
AAGGCGCTGCAGCAGGAACAGGAGATTGAGCAGCGGCTCCTGCAGCAGGGCACGGCCCCCTGCACAGGCCAAGGCC
GAGCCCACCGCTGCCCCACACCCCGTGTGAAGCAGGTCTATAAAACCCCGGCGTAAGTTGGCGTTCGGCTCAGGA
GAGGCCCGCGACTGGAGTAACGGGGCTGTGCTACAGGCCTCCAGCCAGCTGTCCCGGGGTTTCGGCCACGACGCCC
CGAGGTGTCTGCACACGTTCACTCCGTACCCAACTGCAGAACTCAGCCTCGGCCACAGCCCTGGTCAGCAGG
ACCGGCAGACATTCTGAGAGAACCGTGAGCGCCGGCAAGGGCAGCGCCACCTCCAAGTGAAGAAGACGCCCCCTC
AGCACAGGCGGGACCTTGCCTTTGTGAGCCCAAGCCTGGCGGTGCACAAGAGCTCCTCGGCCGTGGACCGCCAG
CGAGAGTACCTCCTGGACATGATCCCACCCCGCTCCATCCCCAGTCAGCCACGTGGAATAGTGCAGCCAGGC
CCCGTGGAAGACGGGCTCCCTCCTCCCCACCTGGCCCCCTGGTCTAGAAGGACCCACTGCACCACCTCCGCTGG
CTCGGGAAGACACCGTGCCCGCCCCAAGAGCAAGCACCGGCCATGCTGCAGAGGCAAGACCTCAATTCTTGGCTG
CAAAGTTTCATAGGGCTAGGGGGCTGGTGCCGCCTCATAGGCAGACGAGGATCATCGCTGGGGGACCTTTCCCG
TGGGCTTTCTTCTTCTCTTTGCTTTAGTTTGCCGACACCAGCAGAAAAGTGGACCTTGGGGGCTGGTTC
TGCTCCTGGCCCCCTTGTTCAGCCCCCTGCCGGCACACGGGCGGCTCACCTGGACACTGTGATGCGCATGGGCAA
GGCCAGCGCCCCGGGGCTTCTGAACCGAGCGGGGTGTTTCAATTTTTTTGCTTTTCCCTGTCTTAGGCTCCAGTCT
TTGACTGCCTTCCCATGGCGATCTATAAGTTGAAAGATTTTTTTTTTTTAAATCACCTCATGATGATGGAGTTA
AAAGTAAACCGTGACAGCCCTGGGGTCCCTGTTGTACGCTGCATCATCCCGCTGGCCCTGTGCCCTGGAGGGTGG
GCGGCTCATGGTGCCACAGCCCCTGGCAGGGACGGCCGGCCCGCCCCGTGACTGACTGACAGATGCAGGGATGG
CCGAGGCAGCCCTCGCTCCAGCTGAACGCCTCCATTGCTGCTTGTCTGGAGACCCCCGCCCCGCACCTTCCAG
ACTTAGCAGAAGAACAACCTGAAGAACAGACCCAGCCAGAGAAGCAGGGATTCCAGAAGCTGCCATTAAAGGGAG
AAGGAGAGGATCCGGTCGGCAGCAGCCCTGAGCAGAAAGCTGGAGGGGGGACTGTGCGGGGGTTTTCTGTTGTG
GTTTATTTTATTAAATTTTTTCTTTTCTATTTCATTTTCATGGACGCAATCTTAAGCCACCCTGGCCTTGCTC
CTGGGAGGTGAGCGTGCACAGGTGTGTGAGGTGAGGAGGTGCCGTCCAGGTGTGCGGCGAGCCGCTGCGCACAG
ATGTGAGGATTTCCGTTTGGGTCTAGTTTAGAACCTGTCTTAAACCTAGGGGTGCTGTGAGGATTTGCTTTTCA
GACTTTTTTTTTTTTGTAAATCCCTTTAGAGTCTACAAAATGTTTTTAAAGGATCAGGTCTGCTTTTAGTTT
CATTTTTGTTTCTTCCCGTCCCACTCTTAAAACTGGTTCCGTGAGGAAAGGCAGAAGCCGTTCCGTGTCTCT
TGCAGGCTGGGCCGGCTTCATGCCAGTGCGAGGGCGTCCCGTGCCACGTACATACGTATGTCTCCATGATCTCT
GGGCTCCACTGGTTCCAATTGAGCTCCAGCCCTGGTTTTCTACCCATGCAGTTAGGGACTTTAATTTAATTTTT
TTTTTGTAGGGCCACCGCCTTCAAACACAACCTGCTACAACATTCTAATAAAGGCTCATTTAACCCCC

4240/5332
FIGURE 3688

TGCGAGTATGGCGGCGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGGCTATGGGCCCATCGACTACAAACG
GAACTTGCCGCGTCGAGGACTGTCGGGCTACAGCATGCTGGCCATAGGGATTGGAACCCTGATCTACGGGCACTG
GAGCATAATGAAGTGGAACCGTGAGCGCAGGCGCCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTTGCC
ACTGTTACAGGCAGAAACCGACCGGAGGACCTTGCAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCATCAT
GAAGGACGTGCCCCGACTGGAAGGTGGGGGAGTCTGTGTTCCACACAACCCGCTGGGTGCCCCCCTTGATCGGGGA
GCTGTACGGGCTGCGCACCACAGAGGAGGCTCTCCATGCCAGCCACGGCTTCATGTGGTACACGTAGGCCCTGTG
CCCTCCGGCCACCTGGATCCCTGCCCCCTCCCCACTGGGACGGAATAAATGCTCTGCAGACCTGG

4241/5332
FIGURE 3689

AGGAAATCGGGGCTCGGCCCCGCGGCGCGACCCCCATCCCCATCCCGGTCCCTGCAGAGCGATCCCCGGGCC
AGATATGGACGCGAGCAGAGCCGGGACTCCCCCAGGTCTTGAGGGCAGGAAGAGGTACAGTGACATCTTCCGGAG
CCTGGACAACCTCGAAATCTCACTGGGGAACGTGACCTTGAGATGCTGGCTGGAGACCCTCTACTCTCAGAAGA
CCCAGAACCTGACAAGACCCCTACAGCCACTGTTACCAACGAAGCCAGCTGTTGGAGCGGCCCTCCCCAGAGGG
TCCTGTACCCCTCACAGGGGAGGAACCTGGACTTGCGGCTCATTTCGGACAAAGGGGGGTGTGGACGCAGCCCTGGA
ATATGCCAAGACCTGGAGCCGCTATGCCAAGGAACCTGCTTGCCCTGGACTGAAAAGAGAGCCAGCTATGAGCTGGA
GTTTGCTAAGAGCACCATGAAGATCGCTGAAGCTGGCAAGGTGTCCATTCAACAGCAGAGCCACATGCCTCTGCA
GTACATCTACACCCTGTTTCTGGAGCACGATCTCAGCCTGGGAACCCTGGCCATGGAGACAGTGGCCAGCAGAA
AAGAGACTACTACCAGCCCTCGCCGCCAAACGGACTGAGATTGAGAAGTGGCGGAAGGAGTTCAAGGAGCAGTG
GATGAAGGAGCAGAAGCGGATGAATGAGGCGGTGCAGGCACTGCGGCGCGCCAGCTGCAGTATGTGCAACGCAG
CGAGGACCTGCGGGCAGCTCCCAGGGTCCCCGTGAGGACTCGGCCCCCAGGCCCTCGCCGGGACCTAGCAAGCA
GCAGGAGCGGCGGCGGCTCGCGAGAGGAGGCCAGGCCAAGGCGCAGGAGGCCGAGGCGCTGTACCAGGCCTG
TGTCCGCGAGGCCAACGCGCGGCAGCAGGACCTGGAGATCGCCAAGCAGCGAATCGTGTGCACGTGCGCAAGCT
GGTGTTCAGGGGATGAAGTGTGAGGCGGGTGACGTGAGTCTCTTCGGGCTGCGGGGGCGCAGGCAGAGCG
TGGCCCCCGCGCTTCGCGCCCTGGCCGAGTGTGTGCGCCCTTTGAGCCGGGCCAGCGCTACCAGGAGTTTGT
ACGGGCGCTGCGGCCGAGGCCCGCGCCCGCCCGCCCGCCTTCTCCTTCCAGGAGTTCCTTCCCTCCTTGAA
CAGCTCCCCCTGGACATCAGAAAGAAGCTCTCTGGGCTCTTCTCCAAGGCTGGATGAGAATTCAGCTGAGCC
AGGCCCTTGGGAGGATCCGGGCACAGGCTGGCGCTGGCAAGGGACTCCAGGCCCACTCCGGGCAGCGATGTGGA
CAGCGTGGGTGGCGGCAGCGAGTCTCGGTCCCTGGACTCACCCACTTCCAGCCCAGGCGCTGGCACGAGGCAGCT
GGTGAAGGCTTCGTCCACAGGCACTGAGTCCCTCAGATGACTTTGAGGAGCGAGACCCTGACCTGGGAGACGGGCT
GGAGAATGGGCTGGGCAGCCCCCTTCGGGAAGTGGACACTGTCCAGCGCGGCTCAGACCCACCAGCTGCGGCGACT
GCGGGGGCCAGCCAAGTGCCGCGAGTGCGAAGCCTTCATGGTCAGCGGGACGGAGTGTGAGGAGTGCTTTCTGAC
CTGCCACAAGCGCTGCCTGGAGACTCTCCTGATCCTCTGTGGACACAGGCGGCTCCCAGCCCCGACACCCCTTTT
TGGGGTTGACTTCCTGCAGCTACCCAGGGACTTCCCGGAGGAGGTACCCCTTTGTGGTCACGAAGTGCACGGCTGA
GATAGAACACCGTGCCCTGGATGTGCAGGGCATTACCGGGTCAGCGGGTCCCGGGTCCGTGTGGAGCGGCTGTG
CCAGGCTTTCGAGAATGGCCGAGCGTTGGTGGAGCTGTGCGGGAACCTCGCCTCATGACGTCTCGAGTGTCTCAA
GCGATTTCTTCAGGAGCTACCGAGCCCGTGATCCCCCTTCCACCTCTACGACGCCCTCATCTCTCTGGCTAAGAC
CTTGCAATGCAGACCCTGGGGACGACCCTGGGACCCCCAGCCCCAGCCCTGAGGTTATCCGCTCGCTGAAGACCCT
CTTGGTACAGCTGCCTGACTCTAACTACAACACCCTGCGGCACCTGGTGGCCCATCTGTTTCAAGGTGGCTGCACG
ATTTATGGAACAAGATGTCTGCCAACCACTGGGCATTGTGTTTGGGCCGACACTGTGCGGCCGCGGACGG
CCCGCGGGCAGCCAGCGCCATCCCTGTACCTGCCTGTGACTCTGGGCATCAGGCCAGCTTGTGGAGTTTCT
CATCGTGCACTACGAGCAGATCTTTGGGATGGATGAGCTCCCCCAGGCCACTGAGCCCCGCCCCAAGACTCCAG
CCCAGCCCCCTGGGCCCCCTCACAACCAGCTCCCAACCGCCACCCCCGCACCTTGACCCAGACTCCCAGCCCCAGT
CCTAGCCTCAGACCCCGGCCAGACCCCAAGCAGTACCCTGGAGCAGCATCCACGGCCACACCTACCGA
GATTCCAATCCACAGAGTGACCAGAGAGGACGTGGCTGAAGACACCAAGATGGGGGAGGGGAAGTGTCCAG
CCAAGGCCCAGAGGACTCACTCCTGGGGACACAGTCTCGTGGCCACTTCAGCCGCCAGCCAGTGAAGTATCCCCG
GGGCGGTGTGAGGCCTGTAACCCACCAGTGTCCAGTCTGGCCCTGGTGGCTTCCAAGCTGTGCGAGGAGACCCC
CATCACATCAGTGCCAGAGGGAGTTTTCGGGGGCGGGGGCCAGCCCTGCAGCTGCCTCCCCCTGAGGGCAGCCC
CCTGCGCCGACCCCCGCTGCCCAAGCATTTTGTAGATTACCCAGGAGACAGCCCGGCTACTCTCGAAATTGGACAG
CGAGGCTGTGCCAGGGCCACCTGCTGCCCGGACGTCCAGCCTGAGGAAGCCGAGGACCATCTCTGACCACCCTG
GCACCTTAAATAAGGAAGAGGCCAGATTGTGAAGACGGACCCATATATCCCTACCTCCACCACTAGTGGCCA
AACACCCCGCCAGGAGTTCAATGCTGGGAGAGGTCCAGAGGGTTCTATAAGGAAAAACTATTTAATACATGACC
TAGGGGAGGCTAAAACCTTTTGGGGATAATGTCCAGAGTCCCCCACTAGACACAGGTCACTGCCAAGCATC
AGGGCCACTCGGGCTCAGAGGTCACTCAGGGTCAATACTCAGGGTCAGTGCAGGTTATGAGATCCTTGGGGTCCA
CCTAGTCTCTGACACCTGGGACAGGGGTGCTTTTGCTACTTTGGTTGTGGTCACTCCCCACACCTGCCTGCCT
CCTTACGGAAGTACCTTCTGGAGGAGGTGGGCAGCTCAGACTCCACATGCTGGTGGTGCCTGAGGT
TGATGGCCTCTAATAAACTGTGTCCTATA

4242/5332
FIGURE 3690

ATGGAGAAGTGGGAGGAGCTGAACAGCCATCAGCCAGGAGAGGAGTACGACCCAGCAAAGCGACCTTTGTGAAG
GTGGTGCCAACCCCAACAATGGCTCCACGGAGCTCGTGGCCCTGCACCGCAATGAGGGCGAAGACGGGCTTGAG
GTGCTGTCTTTCGAATTCAGAAGATCAAGTATTCTACGATGCCCTGGAGAAGAAGCAGTTTCTCCCGTGGCC
TTTCTGTGGGAAACGCCTTCTCATACTATCAGAGCAACAGAGGCTTCCAGGAAGACTCAGAGATCCGAGCAGCT
GAGAAGAAATTTGGGAGCAACAAGGCCGAGATGGTGGTGCCTGACTTCTCGGAGCTTTTCAAGGAGAGAGCCACA
GCCCCCTTCTTTGTATTTTCAGGTGTTCTGTGTGGGGCTCTGGTGCCTGGATGAGTACTGGTACTACAGCGTCTTT
ACGCTATCCATGCTGGTGGCGTTTCGAGGCCTCGCTGGTGCAGCAGCAGATGCGGAACATGTGCGAGATCCGGAAG
ATGGGCAACAAGCCCCACATGATCCAGGTCTACCGAAGCCGCAAGTGGAGGCCATTGCCAGTGATGAGATCGTA
CCAGGGGACATCGTCTCCATCGGCCGCTCCCCACAGGAGAACCTGGTGCCATGTGA~~CTGCTTCTGCTGCGAGGC~~
CGCTGCATCGTAGACGAGGCCATGCTCACGGGGGAGTCCGTGCCACAGATGAAGGAGCCCATCGAAGACCTCAGC
CCAGACCGGGTGCTGGACCTCCAGGCTGATTCCCGGCTGCACGTCTCTCGGGGGCACCAAGGTGGTGCAGCAC
ATCCCCCACAGAAAGCCACCACGGGCCTGAAGCCGGTTGACAGCGGGTGCCTGGCCTACGTCCTGCGGACCGGA
TTCAACACATCCCAGGGCAAGCTGCTGCGCACCATCTCTTCGGGGTCAAGAGGGTGACTGCGAACAACCTGGAG
ACCTTCATCTTCATCTCTTCCCTCCTGGTGTGGTTCGTCATCGCTGCAGCTGCCTATGTATGGATTGAAGGTACCAAG
GACCCAGCCGGAACCGCTACAAGCTGTTTCTGGAGTGCACCTGATCCTCACCTCGGTCTGCTCCTCTGAGCTG
CCCATCGAGCTGTCCCTGGCCGTCAACACCTCCCTCATCGCCCTGGCCAAGCTCTACATGTACTGCACAGAGCCC
TTCCGGATCCCTTTGCTGGCAAGGTGAGGTGTGCTGCTTTGACAAGACGGGGACGTTGACCAGTGACAGCCTG
GTGGTGC CGGTGTGGCCGGGCTGAGAGACGGGAAGGAGGTGACCCAGTGTCCAGCATCCCTGTAGAAACACAC
CGGGCCCTGGCCTCGTGCCACTCGCTCATGCAGCTGGACGACGGCACCCCTCGTGGGTGACCCTCTAGAGAAGGCC
ATGCTGACGGCCGTGGACTGGACGCTGACCAAGATGAGAAAGTATTCCCCCGAAGTATTA~~AACTCAGGGGCTG~~
AAAATTACACAGCGCTTTCATTTTGCCAGTGCCCTGAAGCGAATGTCCGTGCTTGCCTCGTATGAGAAGCTGGGC
TCCACCGACCTCTGTACATCGCGGCCGTGAAGGGGGCCCCGAAACTCTGCACTCCATGTCTCCAGTGCCCG
CCCGACTACCACCATCCACACCGAGATCTCCCGGAAGGAGCCCGCGTCTCGGCGTGGGGTACAAGGAGCTG
GGACACCTCACTACACAGCAGGCCCGGGAGGTCAAGCGGGAGGCCCTGGAGTGCAGCCTCAAGTTCGTGCGCTTC
ATTGTGCTCTCCTGCCCCGTCAAGGCTGACTCCAAGGCCGTGATCCGGGAGATCCAGAATGCGTCCCACCGGGTG
GTATGATCAGGGAGACAACCCGCTCACTGCATGCCACGTGGCCCAGGAGCTGCACTTCATTGAAAAGGCCAC
ACGCTGATCCTGCAGCCTCCCTCCGAGAAAGGCCGGCAGTGCGAGTGGCGCTCCATTGACGGCAGCATCGTGCTG
CCCCTGGCCCCGGGCTCCCCAAAGGCACTGGCCCTGGAGTACGCACTGTGCCTCACAGGCGACGGCTTGGCCCAC
CTGCAGGCCACCGACCCCCAGCAGCTGCTCCGCTCATCCCCATGTGCAGGTGTTGCCCCGTGTGGCTCCCAAG
CAGAAGGAGTTTGTATCACCAGCCTGAAGGAGCTGGGCTACGTGACCCTCATGTGTGGGGATGGCACCACGAC
GTGGGCGCCCTGAAGCATGCTGACGTGGGTGTGGCGCTCTTGCCCAATGCCCTGAGCGGGTGTGCGAGCGGCGA
CGGCGGCCCCGGGACAGCCCAACCTGAGCAACAGTGCCATCAGAGCCACCTCCAGGACAGCCAAGCAGCGGTG
GGGCTCCCTCCCTCCGAGGAGCAGCCAACCTCCAGAGGGACCGCCTGAGCCAGGTGCTGCGAGACCTCGAGGAC
GAGAGTACGCCCATTTGTGAAACTGGGGGATGCCAGCATCGCAGCACCTTCACCTCCAAGCTCTCATCCATCCAG
TGCAGTCTGCCACGTGATCAAGCAGGGCCGCTGCACGCTGGTGACCACGCTACAGATGTTCAAGATCCTGGCGCT
CAATGCCCTCATCCTGGCCTACAGCCAGAGCGTCTCTACCTGGAGGGAGTCAAGTTCAGT~~GACTTCCAGGGCAC~~
CCTACAGGGGCTGCTGCTGGCCGGCTGCTTCTCTTCATCTCCCGTTCCAAGCCCCTCAAGACCTCTCCCGAGA
ACGGCCCCCTGCCCAACATCTTCAACCTGTACACCATCTCACCCTCATGCTCCAGTCTTTGTGCACTTCTTGAG
CCTGTGTACCTGTACCGTGAGGCCCAGGCCCGGAGCCCCGAGAAGCAGGAGCAGTTCGTGGACTTGTACAAGGA
GTTTGAGCCAAGCCTGGTCAACAGCACCGTCTACATCATGGCCATGGCCATGCAGATGGCCACCTTCGCCATCAA
TTACAAAGGCCCCGCCCTTCATGGAGAGCCTGCCCCGAGAACAAGCCCCCTGGTGTGGAGTCTGGCAGTTTCACTCCT
GGCCATCATTGGCCTGCTCCTCGGCTCCTCGCCGACTTCAACAGCCAGTTTGGCCTCGTGGACATCCCTGTGGA
GTTCAAGCTGGTCAATTGCCAGGTCTGCTCCTGGACTTCTGCCTGGCGCTCCTGGCCGACCGCGTCTGCAGTT
CTTCTGGGGACCCCCGAAGCTGAAAGTGCCCTTCTGAGATGGCAGTGTGGTACCCACTGCCACCTGGCTGCC
GCTGGGGCGGAACCCCAACAGGGCCCCGGGAGGGAACCTGCCCCCAACCCCCACAGCAAGGCTGTACAGTCTC
GCCCTTGAAGACTGAGCTGGGACCCCCACAGCCATCCGCTGGCTTGGCCAGCAGAACCAGCCCCAAGCCAGCAC
CTTTGGTAAATAAAGCAGCATCTGAGATTTTAA

4243/5332
FIGURE 3691

CCCCCTCTAGCCTAGGCGAGGACTTCTACCGCGAGGCCATCGAGCACTGCCGCGAGTTACAACGCGCGCCTGTGCGC
CGAGCGCAGCCTGCGACTGCCCTTCCTCGACTCGCAGACCGGCGTGGCCCAGAACAACTGCTACATCTGGATGGA
GAAGACCCACCGCGGGCCGGGTTTGGCCCCGGGACAGATTTACACGTACCCCGCCCGCTGTTGGAGGAAGAAACG
GAGACTCAACATCCTGGAGGACCCCAGACTCAGGCCCTGCGAGTACAAGATCGACTGTGAAGCACCCCTGAAGAA
GGAGGGTGGCCTCCCGGAAGGGCCGGTCCTCGAGGCTCTACTGTGTGCAGAGACGGGGGAGAAGAAGATTGAGCT
GAAGGAGGAGGAGACCATTATGGAAGTGTGAGAAACAGCAGTTGCTGGAGTTTCCGCATGACCTCGAGGTGGAAGA
CTTGGAGGATGACATTCCCAGGAGGAAGAACAGGGCCAAAGGAAAGGCATATGGCATCGGGGGTCTCCGAAACG
CCAGGACACCGCTTCCCTGGAGGACCGAGACAAGCCGTATGTCTGTGATAAGTTTACAAAGAATTGGCCTGGGT
CCCTGAGGCACAAAGGAAACACACAGCCAAGAAGCGCCCGACGGCACTGTCATCCCCAACGGCTACTGTGACTT
CTGCCTGGGGGGCTCCAAGAAGACGGGGTGTCCCGAGGACCTCATCTCCTGTGCGGACTGTGGGCGATCAGGACA
CCCCTCGTGTTTACAATTACGGTGAACATGACGGCAGCCGTGCGGACCTACCGCTGGCAGTGCATCGAGTGCAA
ATCCTGCAGCCTGTGCGGAACCTCCGAGAACGACGGTGCCAGCTGGGCGGGTCTCACCCCCAGGACCAGCTGCT
GTTTTGTGATGACTGCGATCGGGGTACACATGTACTGCCTGAGTCCCCCATGGCGGAGCCCCCGGAAGGGAG
CTGGAGCTGTACCTCTGTCTCCGGCACCCTGAAGGAAAAGGCTTCTGCTTACATCACCTCACCTAGGCCGGCTC
GGCTCGCCGCGACTCTGGGGTGGTGTCTGCCTACCTGCCTCTCCGAGCTCCTCAATTCTCCCCACCCTGAACAT
CCCGCAGGGGGAGGGGAGAGGGGGAAGCCGAGAGGGGGCTGGGCCACCCCTCCCTCTGTGCAAGTGGAATGT
CTGCCCTGTGGGTGGGTGGGCCCGGCCAGGGCCTCTCCCTCCCTCCCTCCCTCTGTCCCTTGGCAAATGGACA
CCAGGGGCTTCTCCCTCAAAGCCATACCCCGCTCTGGGCGGGCATGGGGGGTGGTGGGTGCCAGCCAGGGGCA
TGGACAGAGCCTTTTTCTAAAGAAAAAGACAAAAAGTT

4244/5332
FIGURE 3692

GCCTCAAGCCGACGCAGCGGCCTACTCTCGCACTGCAGACGGGGAAACTGAGGCCTGAGGCGGCCGGGGTGGGGC
AGACCTCCCGGCGAGCCCGAGCCCCGCCCCGGCTAGCCCCGCCCTGGCCCCGTAAGAAGCACCCGGGGCGCGAG
GCGAAGGCGCACAGCGCGGGGCCAGGCTGGGTCCAGCAGCGCGATCGCAGCTCAGCGGCTGGGCAAGCGCGTGCT
GAGCAAGCTGCAGTCTCCATCGCGGGCCCCGCGGGCCAGGGGGCAGTCCCGGGGGGCTGCAGAAGCGGCACGCGCG
CGTCACCGTCAAGTATGACCGGCGGGAGCTGCAGCGGCGGCTGGACGTGGAGAAGTGGATCGACGGGCGCCTGGA
GGAGCTGTACCGCGGCATGGAGGCAGACATGCCCCGATGAGATCAACATTGATGAATTGTTGGAGTTAGAGAGTGA
AGAGGAGAGAAGCCGGAATCCAGGGACTCCTGAAGTCATGTGGGAAACCTGTCGAGGACTTCATCCAGGAGCT
GCTGGCAAAGCTTCAAGGCCTCCACAGGCAGCCCGGCCTCCGCCAGCCAAGCCCCCTCCACGACGGCAGCCTCAG
CCCCCTCCAGGACCGGGCCCGACTGCTCACCCTGACCTCTTGCACTCTCCCTGCCCCCGGACGCCGCCAG
CTTGCTTGTTGTATAAGTTGTATTTAATGGTTCTGTAAACAATAA

4245/5332
FIGURE 3693

GTGGGAGGTGTAGCGCGGCTCTGAACGCGCTGAGGGCCGTTGAGTGTGCGCAGGCGGCGAGGGCGCGAGTGAGGA
GCAGACCCAGGCATCGCGCGCCGAGAAGGCCGGGCGTCCCCACACTGAAGGTCCGGAAAGGCGACTTCCGGGGGC
TTTGGCACCTGGCGGACCCTCCCGGAGCGTGGGCACCTGAACGCGAGGCGCTCCATTGCGCGTGGCGGTTGAGGG
GCTTCCCGCACCTGATCGCGAGACCCCAACGGCTGGTGGCGTGGCTGCGCGTCTCGGCTGAGCTGGCCATGGCG
CAGCTGTGCGGGCTGAGGCGGAGCCGGGCGTTTCTCGCCCTGCTGGGATCGCTGCTCCTCTCTGGGGTCTTGCG
GCCGACCGAGAACGCAGCATCCACGACTTCTGCTTGGTGTGGAAGGTGGTGGGCAGATGCCGGGCCTCCATGCCT
AGGTGGTGGTACAATGTCACTGACGGATCCTGCCAGCTGTTTGTGTATGGGGGCTGTGACGGAAACAGCAATAAT
TACCTGACCAAGGAGGAGTGCCCTCAAGAAATGTGCCACTGTACAGAGAATGCCACGGGTGACCTGGCCACCAGC
AGGAATGCAGCGGATTCTCTGTCCCAAGTGCTCCCAGAAGGCAGGATTCTGAAGACCACTCCAGCGATATGTTT
AACTATGAAGAATACTGCACCGCCAACGCAGTCACTGGGCCTTGCCGTGCATCCTTCCCACGCTGGTACTTTGAC
GTGGAGAGGAACTCTGCAATAACTTCATCTATGGAGGCTGCCGGGGCAATAAGAACAGCTACCGCTCTGAGGAG
GCCTGCATGCTCCGCTGCTTCCGCCAGCAGGAGAATCTCCCTGCCCTTGGCTCAAAGGTGGTGGTCTTGCGG
GGGCTGTTCTGTATGGTGTGATCCTCTTCTGGGAGCCTCCATGGTCTACCTGATCCGGGTGGCACGGAGGAAC
CAGGAGCGTGCCCTGCGCACCGTCTGGAGCTCCGGAGATGACAAGGAGCAGCTGGTGAAGAACACATATGTCTG
TGACCGCCCTGTGCGCAAGAGGACTGGGGAAGGGAGGGGAGACTATGTGTGAGCTTTTTTTAAATAGAGGGATTG
ACTCGGATTTGAGTGATCATTAGGGCTGAGGTCTGTTTCTCTGGGAGGTAGGACGGCTGCTTCCTGGTCTGGCAG
GGATGGGTTTGCTTTGGAAATCCTCTAGGAGGCTCCTCCTCGCATGGCTGCAGTCTGGCAGCAGCCCCGAGTTG
TTTCTCGCTGATCGATTTCTTTCTCCAGGTAGAGTTTTCTTTGCTTATGTTGAATTCCATTGCCTCTTTCTC
ATCACAGAAGTGATGTTGGAATCGTTTCTTTGTTTGTCTGATTATGGTTTTTTAAGTATAAACAAAAGTTTT
TTATTAGCATTCTGAAAGAAGGAAAGTAAAATGTACAAGTTTAATAAAAAGGGGCCTTCCCCTTTAGAATAAATT
TCAGCATGTGCTTTC

4246/5332

FIGURE 3694

ATTCCTCCAACGGGCAGGTCTCAGCGCTCCTCCCCCTGCTCCGCTCCTCTGCAGGGCCCAGGCGCCCTTGGCCTT
AGGACCCAACTTCTCTTACCGCCATGGAGTTCGACCTGGGAGCAGCCCTGGAGCCCACCTCCCAGAAGCCCCGGTG
TGGGGGCGGGCCACGGGGGAGATCCCAAGCTCAGTCCCCACAAAGTTCAGGGCCGGTCGGAGGCAGGGGCAGGTC
CGGGTCCAAAGCAAGGACACCACAGCTCTTCCGACTCCAGCAGCAGCTCCAGCGATTCTGGACACGGATGTGAAGT
CCCACGCTGCTGGCTCCAAGCAGCACGAGAGCATCCCGGGCAAGGCCAAGAAGCCCAAAGTGAAGAAGAAGGAGA
AGGGCAAGAAGGAGAAGGGCAAGAAGAAGGAGGCTCCCCACTTGAAGGGCCCTGGACAGGGCTCATTAAACCTTCC
TCTCTGCCTTC

4247/5332
FIGURE 3695

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTCCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCCACGCCCCATG
CAGCCTTCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTCTTCCCTTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTTCATCACCTACGTTTGG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCTTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGGGCTGGTGTGCGTAGCCATCTTTGTGTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCGGTGAAGCGCGCCCGCTGA
ACCTCCCGCTGCTGCTGCTGTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCCAGCCCCGCCCCAACCACAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

4248/5332
FIGURE 3696

TGCCGCGCCTGTAGCACTCCCGGAACTGGAAGTGGTGGCAGACGGTCCGGAGGCGGGGGCCACGTCAGCGGGGC
CACCCAGGGGCTCGCGGGGTCCCGGTGGGTGCCATCGGGAGGGGCGCGCTTCTGGCGGGCGCCTTGGCCGCGTACG
CCGCGTACCTGGTGTCTGGGCGCGCTGTTGGTGGCGCGGCTGGAGGGGCGCACGAAGCCAGGCTCCGAGCCGAGC
TGGAGACGCTGCGGGGCGCAGCTGCTTCAGCGCAGCCCGTGTGTGGCTGCCCCCGCCCTGGACGCGCTTCGTGGAGC
GAGTGTCTGGCGGGCGGACGGCTGGGGCGGGTCTGTCTTGTAAACGCTTCGGGGTCCGCCAACGCTTCGGACCCCG
CCTGGGACTTCGCCTCTGCTCTCTTCTTCGCCAGCAGCTGATCACCACCGTGGGCTATGGGTACACAACGCCAC
TGACTGATGCGGGCAAGGCCCTTCTCCATCGCCTTTGCGCTCCTGGGCGTGCCGACCACCATGCTGCTGCTGACCG
CCTCAGCCCAGCGCCTGTCACTGCTGCTGACTCAGTGCCCGTGTCTTGGCTGAGCATGCGTTGGGGCTGGGACC
CCCGGCGGGCGGCCTGCTGGCACTTGGTGGCCCTGTTGGGGGTCGTAAGTACCGTCTGCTTTCTGGTGCCGGCTG
TGATCTTTGCCACCTCGAGGAGGCTGGAGCTTCTTGGATGCCTTCTACTTCTGCTTTATCTCTCTGTCCACCA
TCGGCCTGGGCGACTACGTGCCCGGGAGGCCCCCTGGCCAGCCCTACCGGGCCCTCTACAAGGTGCTGGTCACAG
TCTACCTCTTCTGGGCTGGTGGCCATGGTGTGGTGTGCTGCAGACCTTCCGCCACGTGTCCGACCTCCACGGCC
TCACGGAGCTCATCTGTGCCCCCTCCGTGCCCTGCCAGTTCAATGCGGATGAGGACGATCGGGTGGACATCC
TGGGCCCCCAGCCGAGTGCACACAGCAACTCTCTGCCAGTCCCACACCGACTACGCTTCCATCCCCAGGTAGC
TGGGGCAGCCTCTGCCAGGCTTGGGTGTGCCTGGCCTGGGACTGAGGGGTCCAGGCGACCAGAGCTGGCTGTACA
GGAATGTCCACGAGCACAGCAGGTGATCTTGAGGCCCTGCCGTCCACCGTCTCTCCTTTGTTTCCAGCATCTGG
CTGGGATGTGAAGGCGAGCACTCCCTGTCCCCATGTCCCGGCTCCACTGGGCACCAACATAACCTTGTCTCTG
TCCTTTCTCTCATCTCTTTACACTGTGTCTCTCTGGCTCTCTGGCATTCTCGCTGCCTCTGTCTTTCCCTCTTG
CTGTCTCTGTTTCTCATCTCTTTTATGTTCCGTCTGTGTCTCTCAATTAACCACTCGTCAACTGCTGATTCTAC
TGGGCTGTGGGCTCAGACCTCATTTACAGGACACAGATTGGTTCGCTACACCCTGGACAAGTGAAGTGCCTCTCTG
AGCCTTGATTTCCTCAGCTGCCAAATGGGAAGAATAGAAGAATTTGCCCCCTAAACCCCTCCTGTGTGCTGGCCCT
GTGCTAGACAGTGTGGAGACATAGTTGGGGGTGGAGAAGTGCCTTATGGAGCTTGAGTCCAGTGAGGTGTTGAAAGCACAGG
AGACCTGTCCCCAGACAGTGATGGCCCAAAATGGTCAGGACTTTAATGGAGGAGGTGAGGTGTTGAAAGCACAGG
CAGAGTGGTCAGGGCTGAAGTCGGAGAAGCATAGGGACTAGGCCCAATCCAGCCTGGAAAGTCAGGGAGGACTTC
CTAGAGGAAGGGACATCGAACTAAGACCTGAACTATGAGAAATAGGCAGGAAGAAGTTGTACCTGACTCATTTTT
CTCAGGTGTCTCCAGGGAGCAGGACCCATGGAGGGACCCCTGGTGTAGGCCTGGGCGATAGACTCTTCCTCAGCA
GCCTGGCAGGCAGGAAACAGACATAGGACCCAGCCAGATCTGAATGGCATGGGAGGTGCTGCCCTTAACCATG
ACACCATTGTAAGAGCTGTCCACATTTGTATGTTGTGCCCTGGAATCAGCCTGGTTGAGCTCAAATCCCACTTA
GCCACGTCTGGCCTGTGTCTTGGGCAGTCACACTACCTCTCTGATTTTGTTCCTTATCTGTAAAATGGTGATC
ATCATAATACAACTTCAAAAGGATTTAGGCTGAGTGTGGTGGCTCAGCCTATACACCCAGCACTTTGGAAGGC
TGAGGAAGGAGGATCGCTTGAGGCCAGGAGTTTGAGACTAGCCTAGGCAACACAGTGAGGCCTTATCTCAACAAC
AACCACAAAATCTAAAAATTAGCTGGGTGTGGTGGTGCATGCCTGTGATCCTGGCTACTTCAGAGGCTGAGGTGG
AAGGATCACTTGAGGCCAGGAGTTTGAGGCTGCAGTGAGTTATGATGGCACTGCTGCACCTCCAGCCTGCGGGACA
GAGTGAGACCTGTCTGAAAGAAAGAGAGAAAGAAAGAAAGAGAGAGAGAAAGAAAGAAAGAAAGAAAGGGAA
AGATGGAAGGAAGGAAGGAAAAAGAGAAAGAGAGAGAGAGAGAGAGAAAGAAAAAGAAAGAAAGTAAGAAAGAA
AAAAGAAAAAGAAAGAAAGTAAGAAAG

4249/5332
FIGURE 3697

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGCGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

4250/5332
FIGURE 3698

CCTGCAGGTACATGGTGCGGGTCCGAGCTGTGGTGATGGCCCGAGATGACTCCAGTGGGGGCTGGCTGCCTGTGG
GGGGCGGGGGCCTCAGCCAGACAACCTTGGAGTGTACACTGAAGCCAGGCTTGGTTTACAACAAGGTGAATCCCA
TCTTTCACCACTGGAGCCTGGGTGACTGCAAGTTTGGACTGACGTTTCAGAGCCCTGCAGAGGCTGATGAGTTCC
AGAAGAGCCTGCTGGCTGCGCTGGCCGCACTGGGTGAGGCTCACTCACCCCTCCTCCTCCTCCTCCTCCTCCT
CTCCTTCCCAGGATACTGCAGAGACCCCTGCCCTCTGACGCTCTCCAGTACTTCAGGCATATGCTGTGCCCTT
GACAGTGGCCCTAACCGCATCCTTATGAATAGGTACTCTTAGGATCCCCGTTTTACAGAGGAGGAACTGAGGCT
CAAAGAGTCCCACGTGGACAGCGACTCCTCCTCCAGTCACAGCCGCCAGGAGACTCCTCCCAGCGCCGCTGCGGC
CCCCATCATCACGATGGAGTCAGCTTCAGGCTTCGGGCCGACCACGCCCCCAGCGCCGCCGCTCCTCCGCTCA
G

4251/5332
FIGURE 3699

GGAAGCGTGGGAGGGGGCCGCGGTGGCCAGGACCTGCTGGCTCTGGGGTATGGAGGTGTCCCGGGGGCGGCGTC
GCGGGGCGCCTCATGCCAGACTTCAGGGGGCTGTGCGTGGCGCTGGCGGCGGAGCTGGCGACGCTGGGCGCCCT
CGAGCAGCAGCGAGAGGGCGGGCGCGGAGGTGCTGAGCGCCGGCGACGGCCCTGGCGCGGAGGAGGACTTTCTGCG
GCAGCTCGGCAGCCTGCTGCGGGAGCTGCACTGCCCCGATCGCGCGCTCTGCGGCGGGGATGGCGCGGCTGCGCT
TCGGGAACCCGGTGCCGGACTGCGCCTGCTGCTAGAGACACAGTTTACCATGTTGGCCAGGCTGGTCTCCATCT
CCTGACCTCGTGATCCGCCCCCCTCTGCCTCCCAAAGTGCTGGGATTACAGGCTTTCTCTGCTCAGAGCTCCAAG
CCACCCGCCCTCCTGTGCCTCCGCTCTCTGCTGGATCCGAGTCCTAGGCCACCCCTTGGTGAAGGGGTAGTGGAGG
GAGCCGGCATGGTCCAAGAACTGGACCTTACCCTCCAAGCCCTGGGGCTGCCAGACCTGCACCAGGGACCCCG
CCAGCCAGCTGCTGCAGGAGTTGCATGCTAAGATCTCAGAGCTGCAGCCTTCTCTGCCCCAGGGTCCCTGCAGC
CCCTCCTCAGCTGCTCGCTAGATGCACCCAGATGGGAAGCGTTGGAGTCTCTGTCCCAAAGCCTCAGAGATCAGT
ACCGCTGCCGCCGCTGCCTCCTCCTCAAGCGCCTTGACCTCACTACATCTGCTTTCCACTGGAGTGACCGGGCAG
AGGCCCAGGAGAGGCCATGAGGGCAGTGCTGATCCCAATTCGAGAGGTTCTGACCCAGAAATCGGACATCTCCA
TTGCACACGTTCTGGCTGCCGAGCCGACCTGTCTTGTCTCGTCCCAGCCACCAGCGTGGCTGTCCGCAGAGGGA
CCTGCTGTGCCATCAACAAGGTGCTTATGGGCAACGTTCCAGACCGGGGGGGCGCCCAAATGAGCTGGAGCCTC
CCATGCCACCTGGAGGAGCCGAAGAGAGGATGGAGGCCCCAGTGTTGGGGTCGCAAGAAGAAGAAGAAGT
AAAGGGGGACTGGTGGTGGGGGGCGGGGGTCTCCATGAGATGCTAATGCTATCGGTAATCTCTGGGGAGTCCG
TTTAAGGCTTTCCTTGGTATTTGGCACCCAAGCCCCCATCTCCTATTCTGAGTCCCCAAATGCCCTGCTCCCA
TTCACGTCAATACCAAGAACCATGTTCTCCAGAGAATAAAATTTAATTTATGAC

4252/5332
FIGURE 3700A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA
AGACGAGGTCCAGTTCTTCCGACGGACGATGAGGTGGTCTTGCAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCCTGTGCTTCTTGGAGCCCACTAGCAACGCCGAGAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGGTGGAGGCTGGCGTGGAGTCATCCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTC
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCCTTGTGAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCTTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCCCTCTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCTGCTGACAGTGTGACACGCGCAGACTTGTCTACTATGAGGGGGGAGCTGTGTGCACTCATGCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGACCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCCGATCTCCAAGGAGAAGCTGGATGTGGCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGACGATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCCAGGCCGCCCGCATGATCCACAGCACAA
TGGCCTATACAACCAAGTTTCATCAAGAGCCTGGACAGCTTCAGCGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACAGGAGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTCTGAATTGCATAGACCGCCTAAATGTCTACACCCTGCTGCCCACTTTGCTGAGTTTGACAGG
GGAGGAGGCAGCCGAGTCTCGAAAGAGATTGTGAATCTTCTCTATGAACCTCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTGCAGCAAGCTGGATCGGCTGGAGGCCTCGTC
TGGCATCCTGGAGGTCTGTACTGTCTCCTCATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACCTTGTGCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTCAACAGCATCCGCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGCCCCACCGAGGGGTACACCCCTACCTTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTCCG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACAGTGGCACGCCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCGTGAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCCTTCAACCTGGACGGGCTCTCTTCCCTGTTGTGAGCTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCCGCCATGGTGAATTCAAGTCTCTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTGCCTGCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCAGATTGTCTGCGGCCCATCTGGAGCGCATTGCGGAGAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCCGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAACATAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCAGCGCGCCGAAACCTCGGCTGGTGGCTACCGCCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCATCTTCCGGGCAGAGAAATCCTATACAGT
GCAGAGCGGCCGTGGTACTTCGAGTTTGAAGCAGTCAACACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCCGA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACCATTTGGGCGCCCCCTGGCAGCCGGGCGATGTGCTGGCTGTATGATCGACCTCACAGAGAA

4253/5332
FIGURE 3700B

CACCATTATCTTCACCCCTCAATGGCGAGGTCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCTGCCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTCTATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTGTCATCAACATGCAGCGCCC
AGTCACCACCTGGTTTCAGCAAAGGCCTGCCCCAGTTTGAAGCAGTGGCCCTTGAACACCCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCAGAACAGCCT
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCCGTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGCGGAACCCGACCCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCCGCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTCGCCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCAGACGTGGTGCCTGCAGACAACCGCGATGACCCCGAGATCATCTCAACACCACCACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCAGACATGAGCTTCGACCTCAGCAAGGTCCGGTCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGCGGAGACTTTGTGAGTCCCGGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCAATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCGCTTTCGTCTGCCCACCCA
CCAGAAGCTCATCCAGTTTGAAGTGGGAAGCAGAAGAATCATGCCGTTGTGAGCCGCGATGTTCCAAAGCGA
GCGCAAGAACCCGCGCCCGCAGTGCCACCGCGGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGCGAGGTGGAGACGAGGCGTGCCGCGCAGCGGCTGGGCTGGGCGGTGCGAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCGAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCGAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCTGCGCAGCCGCGCTCCATGCTCTCTGA
ATACATCGTGCCCCTCAGCCTGAGACCCGCGCCATCAGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCGGCATGGCTGCGGGGAGTTGGAGTCACCACTTCGCTGAGGCCCCCGCATCATTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCCGCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGGGCAGCACGCTCGCGACCCCGTGGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGCTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AAGAGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAACAGCACAGGAAAAGGAAGATGAGGA
AAGAGGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTGACAGGATTGTCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTACGCTAGATGGAGAGGAGGAGGAACAGAGGAAGAGAC
CACCCTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGCAGGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGGCTGGGCCCA
AGAGGACTTCGTGAGAGCCCCGAGCTGGTGGGGCCATGTTACAGCCTCCTGCACCGGAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCGCGGGCGTACACCATCTCACCCTCCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGAGATGGGCCCCCAGGAGGAGAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGCTCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACAGCGCTCCATGTTTGACCACCTGAGTACCT
GCTGGAGAACAGTGGCATCGGCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCCTCCGTCATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGTTGTGTCTTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCAAAGGGTACCCAGACATTGGTGTGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGGCGCTGCT

4254/5332
FIGURE 3700C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGGCGGCGGAGCACTTTGG
TGAGGAACCCCTGAAGAAAACCGGGTGACCTGGGACACGCCATCATGTCCTTCTATGCCGCCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCCCACCCTGGGCAAAGA
TGGGGCTCTGGTGCAGCCAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTCCTGCCCCGACATGAGGGC
AGCCGCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATCAACAAGTGTGCGCCGCTCTTTCGGGACACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCTGTCTCGGGTCTGTCGCTACCAAGGCGCAGCGTGACGTGCATCGAGGACTGCCT
CATGTCGCTCTGCAGGTACATCCGCCCCGTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTCGACGTGCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAACTTCGGGGTCACTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCATAAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAGGCCACAGTGGATGCTGA
AGGCAACTTTGATCCCCGGCCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTTCGGAGTACACACAGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAAAGAAAAAACGCGGAAGATATCACAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCCTGTCCCGGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGGTTACAAGAGGCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCCACCTGGAGGCTGTGGTCAG
CAGTGGGCGAGTGGAAAAGTCCCCACATGAACAGGAGATTAAATTCCTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCACTGCCTCTATTTCTTGCTCACTCCGGCTAAAGTGTCTGGGCAGCGGTGGCCACGCCT
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAACTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCTGCCCCGCTCCCTGGATGCCAGGACAGTATGAA
GTCAGGCCCTGAGATCGTGAAGGCTGGCCTCCGCTCCTTCTCGAGAGTGCCTCGGAGGACATCGAAGATGGT
GGAGAACCTGCGGTGGGCAAGGTGTGCGAGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGTCTCACCACCCCTCTCCAGCAGATCGCCAGCACCAGTTCGGAGATGACGTGCAT
CCTGGACGAGCTCCAGTCTCTTGCTACCGAAGCTGTGTCAGTATCTACTCCCTGGGAACCACCAAGAACACTTA
TGTGGAAAAGCTTCGGCCAGCCCTCGGGGAGTGCCCTGGCCGCTCTGGCAGCAGCCATGCCGGTGGCGTTCTGGGA
GCCGCACTGAACGAGTACAACGCCTGCTCCGTGTACACCACCAAGTCTCCGCGGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCATGTGCATCGAGATCACGCTGCCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCCGAGGCACCCCCCTTCGCCCCTGCCGCGCGCCCCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCATTGTGAGCCGTGCACGGCCGAGCTCCTGCAGTCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCCAGCGCGGA
GGAGCTGTTAGGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACAACCTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCACACTGAAGAAGATGTGCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

4255/5332
FIGURE 3700D

TCACCTTCAGGGAAAGGTCTGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCTG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTCCGTATGACGCCCTGTACAACCTGCCACGCACCGGGCATGTAACATGTTCTGGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGCCGAGATGGTCTGCAGATGAT
CAGTGCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTGGATCTCAATGCCTTTGAGAGACAGAACAAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCTCAATCGCCAGAACGGAGAGAAGGTCATGGCGGATGATGAATTCACACAAGA
CCTGTTCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAACATCATCATTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATGAAGAGCAGGGCAAGAGGAACCTCTCCAAAGCCATGTCCGTGGC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGGAACAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGCAGTGGTGGGATTCTGCACGTGTTCCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGAATGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGAGATGGTGGACATGCTCGTGGAAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCCTTCGACATGTTCTTGAACCTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTTACGCGGTCCAGAAAT
CCAGTTCTGCTTTTCGTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCCGCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTGCGAGCATGTGCCGATGACCC
TCGCCTGCACAACTTCTTGGAGCTGGCCGAGAGCATCCTTGAGTACTTCCGCCCTACCTGGGCCGCATCGAGAT
CATGGGCGCGTCACGCCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTTCACTTTCGACGTGGTGAACGAGGGCGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGAGCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGAGGCGGGCGCGAAGGCGCGGAGGAGGGCGCGGGGGCT
CGAGGGCACGGCGGCCACGGCGGGCGGGGGCGACGGCGCGGGTTGTGGCGGCCGAGGCCGGCCCTGCGAGG
CCTCAGTACCGCAGCCTGCGGCGGGCGGTGCGGCGGCTGCGGCGGCTTACGGCCCGGAGGCGGGCCACCGCAGT
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCTGGGGCCCTGCGCGGGGGCGCGCGCGGCTGGGCCT
GCTCTGGGGCTCGCTGTTTCGGCGGGCGGCTGTTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCGACCCACACGACGAGGTGCACGGCGAGCAGCGCGGGCGGGCGGGCGGAGACGACGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCCGGGCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCTTCCGGCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACAGAGCTGGAGCCGGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACCAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGAGAGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTACACCTGCGGTTCTTGGCCCTCTTCTTGGCATTGTCATCAACTTCATCTTGCTGTTTTATAA
GGTCTCAGACTCTCCACGAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCGGAGAGGAGGCGAGGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTCT
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT
GGAGTTTGTATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGAGTGGGACCGACTGGTGCT
CAACACGCCGTCTTCCCTAGCAACTACTGGGACAAGTTGTCAAGCGCAAGGTCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

4256/5332
FIGURE 3700E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTCATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

4257/5332
FIGURE 3701

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTTCCACCACCTCTTCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAGTGTTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTCAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGCATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCTGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

4258/5332
FIGURE 3702

AGAGGGGCGGGAGCTGAGGCGGGAGCGGACAGGCTGGTGGGCGAGCGAGAGGCGGCGGAATGTGGACTACCACG
CGGCGAACCAGTCGTACCAGTACGGCCCCAGCAGCGCGGGCAATGGCGCTGGCGGCGGGGCGAGCATGGGCGACT
ACATGGCCCCAGGAGGACGACTGGGACCGGGACCTGCTGCTGGACCCGGCCTGGGAGAAGCAGCAGCGCAAGACCT
TCACGGCATGGTGCAACTCCCACCTGCGGAAGGCAGGCACACAGATCGAGAACATTGATGAGGACTTCCGAGACG
GGCTCAAGCTCATGTGCTCCTGGAGGTCATATCAGGGGAGCGGTTACCTAAGCCGGAGCGGGGGAAGATGAGAG
TGCACAAAATCAACAATGTGAACAAAGCGCTGGACTTTATTGCCAGCAAAGGCGTCAAGCTGGTCTCCATCGGGG
CAGAAGAGATTGTGGACGGCAACGCAAGATGACCCTGGGAATGATCTGGACCATCATCCTTAGGTTCCGCATCC
AGGACATCTCCGTGGAAGAGACCTCGGCCAAGGAAGGGCTCCTTCTCTGGTGCCAGAGAAAGACAGCCCCGTATA
AGAACGTCAATGTGCAGAACTTCCACATCAGCTGGAAGGATGGTCTTGCCCTTCAATGCCCTGATCCACGGGCACA
GACCAGAGCTGATTGAGTATGACAAGCTGAGGAAGGACGACCCTGTCAACCAACCTGAACAATGCCCTTCGAAGTGG
CTGAGAAATACCTCGACATCCCCAAGATGCTGGATGCAGAGGACATCGTGAACACGGCCCCGGCCCCGACGAGAAGG
CCATAATGACCTATGTGTCCAGCTTCTACCATGCCTTTTTCAGGAGCGCAGAAGGCTGAAACTGCCGCCAACC GGA
TCTGTAAGGTGCTGGCTGTCAACCAAGAGAACGAGCACCTGATGGAGGACTACGAGAAGCTGGCCAGCGACCTCC
TGGAGTGGATCCGGCGCACCATCCCCTGGCTGGAGGACCGTGTGCCCCAAAAGACTATCCAGGAGATGCAGCAGA
AGCTGGAGGACTTCCGCGACTACCGGCGTGTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCA
ACTTCAACACGCTGCAGACCAAGCTGCGCCTCAGCAACCGGCCCGCCTTCATGCCCTCCGAGGGCAAGATGGTCT
CGGACATCAACAATGGCTGGCAGCACTTGGAGCAGGCTGAGAAGGGCTACGAGGAGTGGCTGCTGAATGAGATCC
GCAGGCTGGAGCGGCTCGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACG
GGAAGGAAGCCATGCTGAAGCACC GGGACTACGAGACGGCCACACTATCGGACATCAAAGCCCTCATTGCGAAGC
ACGAGGCCTTCGAGAGCGACCTGGCTGCGCACCAGGACCGCTGGAGCAGATCGCCGCCATTGCCAGGAGCTCA
ACGAGCTGGATTACTACGACTCCCACAATGTCAACACCCGGTGCCAGAAGATCTGTGACCAGTGGGACGCCCTCG
GCTCTCTGACACATAGTCGCAGGGAAGCCCTGGAGAAAACAGAGAAGCAGCTGGAGGCCATCGACCAGCTGCACC
TGGAATACGCCAAGCGCGCGGCCCTTCAACAACCTGGATGGAGAGCGCCATGGAGGACCTCCAGGACATGTTCA
TCGTCCATACCATCGAGGAGATTGAGGGCCTGATCTCAGCCCATGACCAGTTCAGTCCACCCTGCCGGACGCCG
ATAGGGAGCGCGAGGCCATCCTGGCCATCCACAAGGAGGCCAGAGGATCGCTGAGAGCAACCACATCAAGCTGT
CGGGCAGCAACCCCTACACCACCGTCACCCCGCAAATCATCAACTCCAAGTGGGAGAAGGTGCAGCAGCTGGTGC
CAAAACGGGACCATGCCCTCCTGGAGGAGCAGAGCAAGCAGCAGTCCAACGAGCACCTGCGCCGCCAGTTCGCCA
GCCAGGCCAATGTTGTGGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGCGCATCTCCATTGAGATGAACG
GGACCCTGGAGGACCAGCTGAGCCACCTGAAGCAGTATGAACGCAGCATCGTGGACTACAAGCCCCAACCTGGACC
TGCTGGAGCAGCAGCACCAGCTCATCCAGGAGGCCCTCATCTTCGACAACAAGCACACCAACTATACCATGGAGC
ACATCCGCGTGGGCTGGGAGCAGCTGCTCACCACCATTGCCCGCACCATCAACGAGGTGGAGAACCAGATCCTCA
CCC GCGACGCCAAGGGCATCAGCCAGGAGCAGATGCAGGAGTTCCGGGCGTCTTCAACCACTTCGACAAGGATC
ATGGCGGGGCGCTGGGGCCCGAGGAGTTCAAGGCCTGCCTCATCAGCCTGGGCTACGACGTGGAGAACGACCGGC
AGGGTGAGGCCGAGTTCAACCGCATCATGAGCCTGGTGCACCCCAACCATAGCGGCCTTGTGACCTTCCAAGCCT
TCATCGACTTCATGTGCGGGAGACCACCGACACGGACACGGCTGACCAGGTATCGCTTCCTTCAAGGTCTTAG
CAGGGGACAAGAACTTCATCAGCTGAGGAGCTGCGGAGAGAGCTGCCCCCGACCAGGCCGAGTACTGCATCG
CCCGCATGGCGCCATACCAGGGCCCTGACGCCGTGCCCGGTGCCCTCGACTACAAGTCCTTCTCCACGGCCCTTGT
ATGGCGAGAGCGACCTGTGAGGGCCCCAGAGACCTGACCCAACACCCCGACGGCCTCCAGGAGGGGCTGGGCAG
CCCCACAGTCCCATTCTCCACTCTGTATCTATGCAAAGCACTCTCTGCAGTCCTCCGGGGTGGGTGGGTGGGCA

4259/5332
FIGURE 3703

GCCCCGCGAGGATGAGCCCAGGGCTCCACGGTCCCTACCTAGACCCACGCGATTCCCTCACCTGAGACCCGTC
CACACAGCCCCAGCTGGGGCAAACAGCCCCCTCCCCACTTCCCATCTGTAATTTGCAGGGAGATCGACGACGTGA
TCAGCGCAGACCTGCAGTCTCTCCAGGTGGGGACTGTTCTGGAGGGGCGGCATGGGGCGGGGATCTTGGCCAGC
GCTAAACTTCCGCCATGCGGCAGGGCCCCCTACCTGCCCCCTGGAGCTGGGGTTGGAGCAGCTGTTTCAGGAGCTGG
CTGGAGAGCCAGGGCCCATACCTCCACCCCCAGAGAGATCGGGCTCAGGACCTGTGAGCAGCTGCTGCAGTGTTT
CGGGCATGGGCAAAGCCTGGCCTTACACCACTTCCAGCAGCTCTGGGGCTACCTCCTGGAGTGGCAGGCCATATT
TAACAAGTTCGATGAGGACACCTCTGGAACCATGAATCCTACGAGCTGAGGCTGGCACTGAATGCAGCAGGCTT
CCACCTGAACAACCAGCTGACCCAGACCCTCACCAGCCGCTACCGGGATAGCCGTCTGCGTGTGGACTTCGAGCG
GTTCTGTCTCTGTGTGGCCACCTCACCTGCATCTTCTGCCACTGCAGCCAGCACCTGGATGGGGGTGAGGGGT
CATCTGCCCTGACCCACAGACAGTGGATGGAGGTGGCCACCTTCTCCTAGGATCTCCGGATGGGCGCACCTGCTGC
TCAGGGCAGGGTTGCTGAGCAAGACCACCTCCCTAGGCCTTGCTGGCATGGGTGCCACTCTCTCTGGCATCCAC
CTGTCTGGGGCTAGTCTCTGGCCCTCACTGCTCACGGCCGGGTGACCACTCTGGCCTGCGTACTCCTCACTCAGA
AACAAGAACAGCGACAGCCCTTCTCGAGCAGATGACACGAGCTAGTCCACGTTGACAGCTTAAGACAGTGCTAGC
TCTGCCCTGGCTCTCCTAGAAGGTGGAGGACAGACACAGGAGAAATAAAAAAGATGATGCTGCAGGAATCCTTC
TTAAAAATATTACATGTTTTATTATCCTGTCCCCAGAGGGTGGTTTATCCAGAAACCAAGAAAAAAATCAATCA
GAATAAACTCAAAAAAAAAGGTAGGGGGAGCAAAACCATCAACCACCAGGCAGCCAGGCCATCAGCCACCTCC
ACCTCTGGAGGGTCCCCAGAGACCCACGCCCCGACGCAGACCCGGAGGAGCATCAGCAAGGGGGCCCGGCAGAGAA
TCGGCTATGTCTTCATTATGAGAGCAGGAGAGACGGCAGAGATATGTTGCTAGGTGAATATATATTTATATAATA
AATCCGTAAGTTAATAAAGTAATAGTAATTCTCTGAAA

4260/5332
FIGURE 3704

ATGGCTCTGTACCTCTCCTGTGCTGGGAGCCATCTGGTGACCATGATGCCCTGCCCTGGCCCACGCCACTCAGAG
TCTGGATGGAGCAGTATTTCCCCCAAAGGACTCTGGAGCCATTGGAGGAAATGGGAGAAACAGAACTACCTGTCC
CGGAACTTTTATCCACTGCGGTTCTTGCCCTCTTCTATGCATTTGCCATCAACTTCATCTTGCTATTTTATAAG
GTCTCAGACTCTCCACCAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTCAGGTGCAGGCTCTGGT
GGCAGCTCTGGCTGGGGCTTGGGGGCCGGAGAGGAGGCAGAGGGCGATGAGGATGAGAACATGGTGTACTACTTC
CTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCTC
TGCATCATTGGCTATAATTGTCTCAAGGTGCCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCCGGAAGCTG
GAGTTTGATGGCCTGTACATCACGGAGCAGCTGAGGACGATGACGTGAAGGGGCAGTGGGACCGACTGGTGCTC
AACACGCCGTAA

4261/5332
FIGURE 3705

ATCTCCCACTCCTGCAGCTCTTCTCACAGGACCAGCCACTAGCGCAGCCTCGAGCGATGGCCTATGTCCCCGCAC
CGGGCTACCAGCCCACCTACAACCCGACGCTGCCTTACTACCAGCCCATCCCGGGCGGGCTCAACGTGGGAATGT
CTGTTTACATCCAAGGAGTGGCCAGCGAGCACATGAAGCGGTTCTTCGTGAACTTTGTGGTTGGGCAGGATCCGG
GCTCAGACGTCGCCTTCCACTTCAATCCGCGGTTTGACGGCTGGGACAAGGTGGTCTTCAACACGTTGCAGGGCG
GGAAGTGGGGCAGCGAGGAGAGGAAGAGGAGCATGCCCTTCAAAAAGGGTGCCGCCTTTGAGCTGGTCTTCATAG
TCCTGGCTGAGCACTACAAGGTGGTGGTAAATGGAATCCCTTCTATGAGTACGGGCACCGGCTTCCCCTACAGA
TGGTCACCCACCTGCAAGTGGATGGGGATCTGCAACTTCAATCAATCAACTTCATCGGAGGCCAGCCCCTCCGGC
CCCAGGGACCCCCGATGATGCCACCTTACCCTGGTCCCGGACATTGCCATCAACAGCTGAACAGCCTGCCACCA
TGGAAGGACCCCCAACCTTCAACCCGCCTGTGCCATATTCGGGAGGCTGCAAGGAGGGCTCACAGCTCGAAGAA
CCATCATCATCAAGGGCTATGTGCCTCCACAGGCAAGAGCTTTGCTATCAACTTCAAGGTGGGCTCCTCAGGGG
ACATAGCTCTGCACATTAATCCCCGCATGGGCAACGGTACCGTGGTCCGGAACAGCCTTCTGAATGGCTCGTGGG
GATCCGAGGAGAAGAAGATCACCCACAACCCATTTGGTCCCGGACAGTTCTTTGATCTGTCCATTGCTGTGGCT
TGGATCGCTTCAAGGTTTACGCCAATGGCCAGCACCTCTTTGACTTTGCCCATCGCCTCTCGGCCTTCCAGAGGG
TGGACACATTGGAATCCAGGGTGATGTCACCTTGTCTATGTCCAGATCTAATCTATTCTTGGGGCCATAACTC
ATGGGAAAACAGAATTATCCCTAGGACTCCTTTCTAAGCCCTAATAAAATGTCTGAGGGTGTCTC

4262/5332
FIGURE 3706

3AACGCAGTAGACGAAGGCGGCGGCGATGGCGGCGGGGATAGTGGCTTCTCGCAGACTCCGCGACCTACTGACCC
3GCGACTGACAGGCTCCAACCTACCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAGAGGAGG
3TTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTGTGACGTCTGCGCAGAAACATG
TTCTGCATGTCCAGCTCAACCGGCCCAACAAGAGGAATGCCATGAACAAGGTCTTCTGGAGAGAGATGGTAGAGT
3CTTCAACAAGATTTCGAGAGACGCTGACTGTGCGGCGGTGGTGATCTCTGGTGCAGGAAAAATGTTCACTGCAG
3TATTGACCTGATGGACATGGCTTCGGACATCCTGCAGCCCAAAGGAGATGATGTGGCCCGGATCAGCTGGTACC
TCCGTGACATCATCACTCGATAACAGGAGACCTTCAACGTCATCGAGAGGTGCCCCAAGCCCGTGATTGCTGCCG
TCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGTCAACCGCCTGTGACATCCGGTACTGTGCCCAGGATGCTT
TCTTCCAGGTGAAGGAGGTGGACGTGGGTTTGGCTGCCGATGTAGGAACACTGCAGCGCCTGCCCCAAGGTCATCG
3GAACCAGAGCCTGGTCAACGAGCTGGCCTTACCGCCCCGAAGATGATGGCTGACGAGGCCCTGGGCAGTGGGC
TGGTCAGCCGGGTGTTCCCAGACAAAGAGGTTCATGCTGGATGCTGCCTTAGCGCTGGCGGCCGAGATTTCAGCA
AGAGCCCCGTGGCGGTGCAGAGCACCAAGGTCAACCTGCTGTATTCCCGCGACCATTCCGTGGCCGAGAGCCTCA
ACTACGTGGCGTCTTGAACATGAGCATGCTGCAGACCCAAGACCTCGTGAAGTCGGTCCAGGCCACGACTGAGA
ACAAGGAAGTGAACCCGTACCTTCTCCAAGCTCTGAGAGCCCTCGCGTCCCAGGCCCCAGCCAGGGGGCCGGC
3TTGTCCCGCCTCATCCACAGAAAGGGAGGATGGGCGATGACAGTTGTTTCTATGCCTTCTGACCCAGTTTCCCA
3TTTATAACTTTATGACAATGAGTTTCTCAAGCCCAAGGCCTTATCTTACCCCAACAATAAAGCAA

4263/5332
FIGURE 3707

GGACGAGCAGCGGAGGCGGTTCGGGAGCGATGGTGAAGATGGCGGCGGCGGGCGGCGGAGGCGGCGGTGGCCGCTA
CTACGGCGGCGGCAGTGAGGGCGGCCGGGCCCTAAGCGGCTCAAGACTGACAACGCCGCGGACCAGCACGGAGG
CGGCGGCGGTGGCGGTGGAGGAGCCGGGGCGGCGGCGGCGGCGGCGGTGGGGAGAACTACGATGACCCGCACAA
AACCCCTGCCTCCCCAGTTGTCCACATCAGGGGCTGATTGACGGTGTGGTGGAAAGCAGACCTTGTGGAGGCCTT
GCAGGAGTTTGGACCCATCAGCTATGTGGTGGTAATGCCTAAAAAGAGACAAGCACTGGTGGAGTTTGAAGATGT
GTTGGGGGCTTGCAACGCAGTGAACACGCAGCCGACAACCAATATACATTGCTGGTCACCCAGCTTTTGTCAA
CTACTCTACCAGCCAGAAGATCTCCCGCCCTGGGGACTCGGATGACTCCCGGAGCGTGAACAGTGTGCTTCTCTT
TACCATCCTGAACCCCATTTATTCGATCACCACGGATGTTCTTTACACTATCTGTAATCCTTGTGGCCCTGTCCA
GAGAATTGTCATTTTCAGGAAGAATGGAGTTCAGGCGATGGTGGAAATTTGACTCAGTTCAAAGTGCCAGCGGGC
CAAGGCCTCTCTCAATGGGGCTGATATCTATTCTGGCTGTTGCACTCTGAAGATCGAATACGCAAAGCCTACACG
CTTGAATGTGTTCAAGAATGATCAGGATACTTGGGACTACACAAACCCCAATCTCAGTGGACAAGGTGACCCTGG
CAGCAACCCCAACAAACGCCAGAGGCAGCCCCCTCTCCTGGGAGATCACCCCGCAGAATATGGAGGGCCCCACGG
TGGGTACCACAGCCATTACCATGATGAGGGCTACGGGCCCCCCCCACCTCACTACGAAGGGAGAAGGATGGGTCC
ACCAAGTGGGGGGTCAACGTCGGGGCCCAAGTCGCTACGGCCCCCAGTATGGGCACCCCCACCCCTCCCCACC
ACCCGAGTATGGCCCTCACGCCGACAGCCCTGTGCTCATGGTCTATGGCTTGATCAATCTAAGATGAACTGTGA
CCGAGTCTTCAATGTCTTCTGCTTATATGGCAATGTGGAGAAGGTGAAATTCATGAAAAGCAAGCCGGGGGGCCGC
CATGGTGGAGATGGCTGATGGCTACGCTGTAGACCGGGCCATTACCCACCTCAACAACAACCTTCATGTTTGGGCA
GAAGCTGAATGTCTGTGTCTCCAAGCAGCCAGCCATCATGCCTGGTCAGTCATACGGGTGGGAAGACGGGTCTTG
CAGTTACAAAGACTTCAGTGAATCCCGGAACAATCGGTTCTCCACCCAGAGCAGGCAGCCAAGAACCGCATCCA
GCACCCAGCAACGTGCTGCACTTCTTCAACGCCCGCTGGAGGTGACCGAGGAGAACTTCTTTGAGATCTGCGA
TGAGCTGGGAGTGAAGCGGCCATCTTCTGTGAAAGTATTCTCAGGCAAAAGTGAGCGCAGCTCCTCTGGACTGCT
GGAGTGGGAATCCAAGAGCGATGCCCTGGAGACTCTGGGCTTCTGTAACCATTAACAGATGAAAAACCCAAATGG
TCCATACCCCTTACACTCTGAAGTTGTGTTTCTCCACTGCTCAGCACGCCTCCTAATTAGGTGCCTAGGAAGAGTC
CCATCTGAGCAGGAAGACATTTCTCTTTCCCTTTATGCCATTTTTTGTGTTTGTATTGCAAAAGATCTTGATT
CCTTTTTTTTTTTTTTTTTTTTTTTTTTAAATGCTAGGTTGTAGAGGCTTACTTAACCTTAATGGAAACGCTGG
AAATCTGCAGGGGGAGGGAGAGGGGAAGTGTATCTCCAAGATTAACTTCACTTTAAAAAATTATTGTACAT
GTGATTTTTTTTTTCTGTTTATACATTTGTGCTGCCCATGTACTCTTGGCACATTTCAATAAAATTGTTTGGA
AAATAAACACAGC

4264/5332
FIGURE 3708

AGAGCCCCGCCCCGCCTTGCGGAGCCGCATCCACGAGCGCCTTGCGCACCTCCACGCTGCCTGCGCCCCGCGCC
GCAAGGTGGCGCTCCTCTTGAGGTGTGCAGAGATGTCTATGCGGGCCTGGCTCGAGGCGAGAACCAAGATCCCC
TGGGGGCGGACGCCTTCCTGCCGGCGCTGACCGAGGAACATCATCTGGAGCCCGACATTGGGGACACGCAGCTGG
ACGTAGAGTTTCTTATGAGCTCTTAGATCCAGATGAGCTGCGGGGAGAGGCTGGGTACTACCTGACCACGTGGT
TTGGGGCGCTGCACCACATTGCCCACTACCAGCCCGAAACAGACCGCGCTCCCCGGGGGCTCAGCTCCGAGGCCC
GCGCCTCCCTGCACCAGTGGCACCAGCGGACGCTGCACAGAAAGGATCATCCAGAGCCCAGGTGACTGCCC
ATCTGGCTGCAAGTAGAAGGGAGGGTGAGACCTGGTGCCCTTCTGACCCAGCTCCCACCTCTCCCCACAGGCCAA
CCTGCCCTTTAAGGAGCCATGGGCAGAAGAGACTGTGACAGGGACCAGTGACAACCTAGGGGTTTACACCCCTCC
GTTTCATGCCTGTAATCCCAACATTTTGGGAGGCCAAGGTGGGAGGATTGCTTGAGCCCAGGAGTTTGAGACCAGC
CTGGGCAAAACAGTGGGACCCCATCTACCAAAAAAAAAAAAAAAC

4265/5332
FIGURE 3709

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCCATGCGCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAACCTTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCGAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCCAGCGCTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCTTTCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCCAGTGAACAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCCAATCTCTTACAGCTCCCT
CCCCAAAATGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCACTCTGTCTC
CTGCCCCCGGGGCTGTGGCTAAGTAAACCATAACCTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTCACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAATAAC

4266/5332
FIGURE 3710

ATGGCTGGGGTCGCGTGCTTGGGAAAAGCTGCCGACGCAGATGAATGGTGCGACAGCGGCCTGGGCTCCCTGGGT
CCGGACGCAGCGGCCCCCGGAGGACCTGGGTTGGGCGCGGAGTTGGGCCCGGGGCTGTCGTGGGCTCCCCTCGTC
TTCGGCTACGTCACTGAGGATGGGGACACGGCACTGCACCTGGCTGTGATTCAATCAGCATGAACCCCTCCTGGAT
TTTCTTCTAGGCTTCTCGGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTG
GCAGCCATCCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGGCGCCGGGCTGTGTGTGGCGGAGCGT
AGGGGCCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGGCACACGCCTGTGCCCGTGCCCTGCTTCAGCCCCGC
CCCCGGCGCCCCAGGGAAGCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCCGACACCAACCATAACC
CCTGTCGCCTTGTACCCCGATTCCGACTTGGAGAAGGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTG
GAGGCTGAAAACACTACGAGGGCCACACCCCACTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTG
CTCCGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCACGTGCGGCCGGAGCCCCCTTCATTTGGCAGTGGAG
GCCAGGCAGCCGATGTGCTGGAGCTTCTCCTGAGGGCAGGCGCGAACCCTGCTGCCCGCATGTACGGTGGCCGC
ACCCCACTCGGCAGTGCCATGCTCCGGCCCCAACCCATCCTCGCCCGCCTCCTCCGTGCACACGGAGCCCCTGAG
CCCGAGGGCGAGGACGAGAAATCCGGCCCCCTGCAGCAGCAGTAGCGACAGCGACAGCGGAGACGAGGGCGTGAGT
CAGGAGGAGAGACAGGGCAGCCCAGCTGGGGGGTCAGGATAG

4267/5332
FIGURE 3711

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTTT
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTTACCTGTACCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGAGCTGCCCGTCGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTGAGAAGCGCCTGTCCCA
CGTGCTGGCCACCGTCTTATTACCTGCGCGGGGCTTGAGGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTACCCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCCATCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGACAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTCACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCTT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTTGATATGCCACCCAAGAAGTGGG
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCCAGTGC
TTCCAAGTGCACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTACCTCGGCACTGATCGGATCACAGCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGTGTCACTGCTTCTGGAGTTTCAAGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCCGCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGAC,

4268/5332
FIGURE 3712

AGCTGGATTGAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCAGGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTTCGCGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCTACCCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTCGAGTGGGCTCAGCA
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGACGGCTGGGGGCACAGTGGGCTGGGCGCCCCGTCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCCTCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGT

4269/5332
FIGURE 3713

AGCCGCCACGCCCCGGGAGAGGACCGACCGCCAGACCGCGGTCCCGGGGCCCCCTGGGCCACGCCGATCACGG
GGAGCCCCCTCGACTGCCTCCCAGAACAAGTGGGAAAGGGAAGCTTAGCCCGCCGCTGCCGCCTCCGAGCAGCCC
GCCAGGACTCTGGCTACTGGAGATGGGCGCCCGGCTATCGCGGCGACGGCTGCCGGCGGACCCATCCCTGGCCCT
GGACGCGCTGCCCCGGAGCTGCTGGTGCAGGTGCTGAGCCACGTGCCGCCACGCTCCTTGGTCACGCGATGCCG
CCCAGTGTGCCGCGCCTGGCGCGACATAGTGGACGGGCCCCACTGTGTGGCTGCTGCAGCTGGCCCCGCGACCGCAG
CGCCGAGGGCCGCGCACTCTACGCAGTGGCTCAACGCTGCCTGCCAGCAACGAAGACAAGGAGGAGTTCCCGCT
GTGCGCCCTGGCGCGCTACTGTCTGCGCGCGCCCTTCGGCCGCAATCTCATCTTCAACTCCTGCGGAGAGCAGGG
CTTCAGAGGCTGGGAGGTGGAGCATGGCGGGAACGGCTGGGCCATAGAAAAGAACCTAACACCGGTGCCTGGGGC
TCCTTCGCAGACCTGCTTCGTGACCTCTTTCGAATGGTGTCCAAGAGGCAGCTTGTGGACCTGGTGATGGAAGG
GGTGTGGCAGGAGCTGCTGGACAGCGCCCAGATTGAGATCTGTGTGGCTGACTGGTGGGGCGCTCGAGAGAACTG
CGGCTGCGTCTACCAGCTCCGGGTCCGCCCTTCTGGATGTGTATGAAAAGGAAGTGGTCAAGTTCTCAGCCTCACC
TGACCCGGTCTTTCAGTGGACTGAGAGGGGCTGCCGACAGGTCTCCACGTCTTCACCACTTTGGCAAGGGCAT
CCGCTACGTATCTTTTGAGCAGTACGGGAGAGACGTGAGTTCTTGGGTGGGGCACTATGGCGCCCTTGTGACCCA
CTCCAGTGTGAGGGTCAGGATCCGTCTGTCCTAGCGACTGGACTACTGCCTGACGTTGTGAGTCAAGACCAGCCT
TGCAGCCAGGTGCAGTGGCTCACACCTGTGGAATCCAGCACTTCAGGAGGCCGAGGTGGGAGGATCACTGGAGC
TCGGGAGTTCAAGACCAGCCTGGGCAACATAGTGAAACCGTCTCCACAAATAATTTTAAAAAATTAGCCAGGCA
TGGTGGTGCCGCTGTAGTCCCAGCTACTCAGGAGGCTTGGGTGGGAGGATTGCCTGAGACCAGGAGGTTGAGGC
TGCAGTGAGCCGTGATTTACCACTCCAGCCTGGGTGAGAAAGCAAGACCCTATATCAATGAAAAAAAAAAAA
AAAAAGACCAGCTTTGCAGCCAGAAGCCAGAGGATACCCAGGGACAGTAGGGCTCCCAGGTGGCTGGTTCTCAG
CACACCTTCCATGAATCTGCTTGCTGCTTTCAGTGTGGTGGCCATCATGCTGTGTGACAAACCAGGCTGTTCA
CAGCTTCCTCAGCCCCCAGAAGGGGAGTGTGAGGAAGAGACATTTAGTTCAATTTGCCTGCAAATTTTCTTCTCC
TGCAAGGATCTCGGTGGACTCAGTCACAAAACAAAGGCTAAACCAGGATTTATAAGAGAGGGCTTATAAATCCCT
CTGCCGACGCAGGGAGCAGAGACTTGCCGGCATGTTTGGGGGTAATGATCGTGGGCAGGGAGCAGAGGTCCGCT
GAGGCAGTCTGTCTTGAGACTAACAAAGTCATCTGCTGTTTGGGGAAATCTCTGGTGTGGGAACAGGCCCCCA
AATCTGGCCATAAACTGGCCCCAAAACCTGGCCATAAAACAAATATCTGCAGCACTGTGACATGTTTGTGATGGCC
ATGACCCCCACCCTGAAGGTTGTGGGTTTACTGGAACGAGGGCGAGGAACACCTGGCCCCACCCAGGGCGGAAAAC
CGCTTAAAGGGGTTCTGAACCACAAACCATAGCATAAGTGATCTGTGCCTTAACGACATGTTCTGTGTCAGAT
AACTAGCCAGACCCATCCCTTTATTTTCAGCCCATCCCTTTATTTCTGTAAGAAATGTTTTAGTTAATCTATAA
TCTATAGAAATAATGCTTATCACTGGCTTGCTGTCAATAAATATGTGGGTAAATCTCTGTTCAAGGCTCTCAGCT
CTGAAGGCCGTGAGACCCCTGATTTCCCACTCCACACC

GGGGAGCTTTCGGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCCCGGGCCACAGCCGGGCTGGCGG
GGGGACCATGGGCGCCTCGGTCTCCAGGGGCGGGGCGCCCGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACCTACCCCCAGAGCTGCTTCTGGTGGTGTCTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGCCGCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTGCAACCCCTGCGGCCAAGAAG
CCTCCGAAAGTGGATGGTGAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAACAGGACAACCGTGCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTACAGCTGGTGTGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAAGTGTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTCTAGACGCCAACCCAGACTGTCTAGATAAAATTCTCTGCTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTCACGTACCCACGTGTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTGCAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCCTGTGACCAA
CTCCAGTGTGATCGTGCAGTCCGTCTGTCTTAGTCCAGCACTACCCCTTCTTGCAAGACAGCCTGACTGTGCCTT
CCAGGGCCTGGGACCATTGGCTGGGACCCCTCATTAAACCAACCAAGCACTTGTAACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCCCTGTCTTCAGGTTCTAGAAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCCTCTCTTCTCCTCCCAACCAAAACCCCTCCGATCCAGCCC
CAGGCCCTCTGTACCATCCCCCTCCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCCTTCAGGGAAAGCCCTCAACTCATCTCTGAACCTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTGATGCAGCTGAAAGTCT
ACGTTAAAAAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCGTGTAATCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTGAGGATTCAGAGCTCAAGACCAGCCTGGCCAAACATGGTGAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCAGCTACTCGGGAGGCTGAGGCAGGAGAAATTGCTTGA
GCCCCGGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACCTCCAGCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGATCAGGCAGGGTGCCCTACACCTGTAATCCCTCGACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAGAACACAGCCTGGGCCAATGTAGTAAGACCCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTGTG
CCAGGTTGAGGCTATAGTGAGCCATGATCATACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC
AAAAAAAAAAAAAGAAATTGAGATGGTTCTGCCACTCTGGTTTCTCTGAAAAAACGAGGTAATTCCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTTATTTTACTTTTTT
TCAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGGC

[illegible]

4272/5332
FIGURE 3715B

TGTGTGTGTGGCAGGGCCTATGCCAAGTGCAAACACAGCCTAGATGGATCATCACAGAGTGAAACCCAGCGGTGC
AAGCAGCTGTGCTCTCTGCGATGTATTGGAGGCTTAGGTGAGGTGGATGCCTTTCTGGAAAAAAAAAATGCTA
ACATTGGCAAAGAAGAAATAGAAAAACAAGACCAAATAACTGTCTCCTCACTGCACACACACTCCAGAATAAAT
AAAAGGTTTTCAGGCTTGAATGCACCTTCAAATGAGATTTTTTTTTTTTTTTTTTTGAGACGGAGTATCGCTCTGTGCGC
CCAGGCTGGAGTGCAGTGGCAGCATCTTGGCTCACTGCAACTTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCT
CAGCCTCCCAAGTAGCTGGGATTACAGGCGCTTGCCACCACGCCAGGCTAATTTTTTGTATTTTGTAGTAGAGACT
GGATTTTCGCCATCTTGGCCAGACTGGTCTTGAACCTCCTGACCTCGTGATCCACCCACCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCATGAGCCACCATGCCTGGCCTCAAATGAGGTTTACCAGACTTTGAAGGAGCAGGTAATTCTCT
TCTACCTTGTGAACAAGTTGTTCCAGAAAGATAGCAGCTCAGGAGGCCTCTGTGACCATGGTTCCAGACCCAGAT
AAGGACGGCAAAGAACAGAGCATCTCAGAAACGCAAGGCTCACAGCCAGGGTGCCCGGCAGCCCCACGGGCACTG
AGAACAGCTAGCTCTAGGAGCTCCACTCTCCTGCTGAAGAAACCACGGGCTCAGAGACGGGGAGCTCCCTCGCCC
AGCCACATCTGTGACCCACGGTAACTCTGCTGGTTTTGGTGCCTTCAGTCACTCACTGCAGGTTTGTTTTGT
TGTTTTGTGTTTGTGTTTTTTGTGTTTTTGTGTTTTTAGAGACAAGATGTTGCTATGTTGCCTAGGCTGGT
TTGAACTCCTGGCCTCAAGGGATCCTCCCTCCTTGGCCCCGCAAAGTGCTGGGATTACAGGCGTGAGCCACCGT
GCCCAGCCCGCTCACTGCAGTTTGAAGGCATGGCTTTGGGTGGCGTGGGGTGAAAGCTGCCCGAGGCCCGTTCC
TCCCCACGTGGCTGCCTCCTGCCAGAGCCAGTCAGGAAAACAGACCCCACTAGAGTTGTTTCAAATGGCAGGGA
TTTGGTACCGGTGGTTGGATCATGACAAAGCTCTGAGAAGGCTGGAGGAGCCACAGAGTGCCAAGTGCCAGCAA
TCATTAGAGGAAGGAGGCTGCTGCCACCTGTGTGGCTAGAGGAACAGAGGGGCCAATGGCATTCCCCAAACCCA
CTCTCGCCTCTGTCTGGCCAGAGCAGAATGGCTTCTTCCAGCTTCCACCCCTGGACTCCACCCAGGAGCCTCCT
CCTGGCAGACCCTTCTGACCCACCGGCCCGGGGGTCTACAGATCCATGTTTCAGGCGTCCGCCTGGAGCGGA
ACAGGGGAGTGCTTAGGACAAGGGTGGTGCCAGAGGATCCACTCTGCCCACATTTAGTTGACCAGCTGAGGCACT
CCACGGGAATGAATGACTCTCGACAGGTGCCGGAGGTGAGGAGGGGCCCGGAGGCCAGGAGGGGCACAGGGATG
GATTTCGTCCGCCTGGGGGCTGGAGGTGTGTTTACAGAGCCCCAAAATAAACAATGCAACCAGGTGAGACCAGCGG
TTCTCACAGTGTGGTTCCAGACCAGCAGCATCACTGGGAGCTTACTGGACACGCAAATAAATCCCTGTGTGCCA
CCCCAGCTGCATCAGATGCTGGTGGGGCCAGTGATCTGTATTTAACACACCCTCCGGGGGATGCCGGTGCCAC
TCACGTTTGAGAACCCTTGCATCCACGACTGCCCTCCCGTGTAAAAGGCCACCTCTGTGGGACTCCAAGTCAT
CAGCACCTAGGGTCTTCCCGTCTTTTTCTTCTCCTGGGACACCTGCCTCTCCCATGTGCTATTAGAGAATTC
CTTATGCTCCCAAGTGGGCACGGGGAGAGGAAGGCACTCCTCTTTAAGGACCGACCCAGAGGTTTTGCCATTGCT
TCACTGGCCAGAGCTTAGTCACGCAGCCTCACCCAGAGGCAAGGGAGGTTGGAAAATGTAGTGTGTTGTGTGTC
TAACACAAATTCATTACCATGCAGTCAGGATTCTCCACTCTTGCTCTTTCATTAGATTTGCTGGGCTTACCCCT
GGACTTTCTGATTTAGTGACAGAACAGAGAACCCAGAGGCAGACCCAGATGTGTACAAGGGCTTCATATACAATC
AGGAGATTTAATAATCATGCTAGGGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAAGCACTTTGGGGAGCCGA
GGCAGGCAGATCACTTGAGGTGAGGATTTGAGACCAGCTGGGCAACAAAGTGAGACCCTGTCTCTACTAAAAA
TAACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCCAGCTCCTCGGGTGGCTGAGGCATGAGAATCAC
TTGAACCCAGGAGGCAGAGGTTTCACTGAGCTGAGATCACATCACTGCACTCCAGCCTGGGTGACAGAGTGAGAT
TCTGTC

4273/5332
FIGURE 3716

ATGTCCCCGCTGCGCCCGCTGCTGCTGGCCCTGGCCCTTGCCTCCGTGCCTTGCGCCCAGGGCGCCTGCCCCGCC
TCCGCCGACCTCAAGCACTCGGACGGGACGCGCACTTGCGCCAAGCTCTATGACAAGAGCGACCCCTACTATGAG
AACTGCTGCGGGGGCGCCGAGCTGTCGCTGGAGTCGGGCGCAGACCTGCCCTACCTGCCCTCCAAGTGGGCCAAC
ACCGCCTCCTCACTTGTGGTGGCCCCGCGCTGCGAGCTCACCGTGTGGTCCCGGCAAGGCAAGGCGGGCAAGACG
CACAAGTTCTCTGCCGGCACCTACCGCGCCTGGAGGAGTACCGCCGGGGCATCTTAGGAGACTGGTCCAACGCT
ATCTCCGCGCTCTACTGCAGGTGCCCGGCCGCCCAAAGCTCCGAGCCCAACCCAGGCCCAGGCCCCAGCTCCGCA
TAA

4274/5332
FIGURE 3717

GTTGGATGAAACCTTCCTCCTACTGCACAGCCCGCCCCCTACAGCCCCGGTCCCCACGCCTAGAAGACAGCGGA
ACTAAGAAAAGAAGAGGCCTGTGGACAGACAATCATGCTGACTCCCTGGTGGTGTGCGAGGTAGACCCAGAGC
TAACAGAAAAGCTGAGGAAATTCCGCTTCCGAAAAGAGACAGACAATGCAGCCATCATAATGAAGGTGGACAAAG
ACCGGCAGATGGTGGTGTGCTGGAGGAAGAATTTCAGAACATTTCCCCAGAGGAGCTCAAAATGGAGTTGCCGGAGA
GACAGCCCAGGTTCTGTGGTTTACAGCTACAAGTACGTGCATGACGATGGCCGAGTGTCTACCCCTTTGTGTTTCA
TCTTCTCCAGCCCTGTGGGCTGCAAGCCGGAACAACAGATGATGTATGCAGGGAGTAAAAACAGGCTGGTGCAGA
CAGCAGAGCTCACAAAGGTGTTTCGAAATCCGCACCACTGATGACCTCACTGAGGCCTGGCTCCAAGAAAAGTTGT
CTTTCTTTCGTGATCTCTGGGCTGGGGACTGAATTCCTGATGTCTGAGTCCTCAAGGTGACTGGGGACTTGGAA
CCCCTAGGACCTGAACAACCAAGACTTTAAATAAATTTTAAATGCAAAAACCTCGG

4275/5332
FIGURE 3718

GGCGGCGGTGGTCGGTGCGGGAGGAGGGAGGGGAGCTTGCGGGCCCCGAGAGGGGGCGACGGCGGCGGCGGTGGCC
TGAGGAGGCCCCGAGCGGCGGCGGTGGCGGCGAAGGCCGAGGCGTCTAGGTGTTTTTGGGAAGAGCTGAGGCCAGAG
CCGGGACCATGTGACGGCGCTGGCCCTCGCCACCGCCGTCCCCGACCCTGGCCCCAGGCCCGGCACCATGATGT
TCCGAGACCAGGTGGGCATCCTCGCTGGCTGGTTCAAAGGCTGGAATGAGTGTGAGCAGACAGTGGCCCTCCTGT
CACTTCTGAAACGGGTCACCCGTACCCAGGCCCGCTTCCTGCAGCTCTGCCTGGAGCACTCACTGGCGGACTGCA
ATGACATCCACCTGCTGGAGTCGGAGGCCAACAGTGCTGCCATCGTCAGCCAGTGGCAGCAGGAGTCCAAAGAGA
AGGTGGTGTCCCTCCTGCTGTCCACCTTCCCCTGCTTCAGCCAGGCAACACAGAGGCCAAGTCGGAGTACATGA
GGCTACTGCAGAAAGTGCTGGCCTACTCAATCGAGAGCAATGCTTTCATCGAGGAGAGTCGCCAGCTGCTTTCCT
ATGCCCTCATCCACCCAGCCACCACACTGGAGGACCGCAACGCACTGGCCCTCTGGCTGAGCCACCTGGAAGAGC
GGTTGGCTAGTGGCTTCCGCTCCCGGCCAGAGCCCTCCTACCATTACGTCAAGGCTCAGATGAGTGGGGGGGCC
CTGCAGAGCTAGGCCCTGGGGAGGCAGGGCCAGGCTGGCAGGACAAGCCACCCCGGAAAATGGACACGTGCCCT
TCCACCCATCCAGCTCAGTGGCGCCAGCCATCAACAGTATTGGGAGCAATGCAAAACAGGTCTCCCCTGCCAAA
TCCACCTAGCCCACTGAAGCGCTCCATGTCACTCATCCCTACAAGCCCCAGGTCCCTGGTGAGTGGCCGAGTC
CAGAGGAGCTTGGGGCCCGGCTGCTTTTACCACGCCCGATCACGCACCTCTCTCGCCCCAGAGCAGCGTGGCCT
CCTCTGGCAGTGAGCAGACAGAGGAGCAGGGCTCCAGCCGGAACACCTTCCAGGAGGATGGCAGTGGCATGAAAG
ATGTGCCCTCATGGCTCAAGAGCCTCCGTTTGCACAAGTATGCAGCCCTCTTCTCACAGAATCAGCTTTGAGTAA
CTGTACAGTTTTTCTCGCTGTGGAGAAGACTTATTTGTTGGAGTTTCACTTGTTTAAATGGTCTGGGCTTATTTT
GGAAAAAAAAAAAAACAAACAAAAAAAAACGAATTCTGACCTT

4276/5332
FIGURE 3719

AGTTGGTGGAAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCAGCCCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCGCTCGCTCGTC
GCTATGGCGCCCAACCATCCAGACCCAGGCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCTTCGACCCCAAGTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAACAGCACAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGAAGAGGAGATTACAGGCCCCCACCAGCTCCAAGAGATCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCGAGTC
ACACCGGTGGAGGTTCATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGACGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAGCTAGCAAGGGCTATGAGGAAAATACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACCAAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAACTGGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTGAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTACAGGGCTGGTTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACCTTGTTTGTTCACCCACCCCAAACCTTGTCTGTTAATAAAGT
CAACTTCTCTTA

4277/5332
FIGURE 3720

GGGGTTTACTACAATGAGTTGGAAACCAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGC
ACCAACGCCCTGCTTGTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCC
CAGCTAGAAAACCAACGAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCA
GATGAGGAGCAGGAGAAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAA
CGGGAGGAAGGTGACAGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCC
CGGGCTGCCCCGTGACAAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAG
GACAGAGGACAGGCCCCAAGGTGGCAGTGACAATGATTGAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGG
AGCCACAGCCGCAGCGCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCA
GCTTCTGATTCCAGTGAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTGAGGGCTGGTTCAGACACCATTA
TTGTGAGCAGCAAAGCACTTTTCTAGTGGTCTGTTTGTGAGCCTTCACTTGTTTGTTCACCCCAACCTT
TGCTGTTAATAAAGTCAACTTCTCTTT

4278/5332
FIGURE 3721

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTGAGGCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTGATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAATTTGCTC
GGGAGTACAACGTGAAGAACAAGCTAGCAAGGGCTATGAGGAAAACTAATAATCTTCATCTTC

STCGCTAACGCACTTCCGGCGGTCTACGCGAGGAAGATGGCTGCATCCACAGCAGCAAGCTTCAGCGGCTTCTCTCAG
 CTGCTGGTGTATCGGGTCTAGTTTCGGCTGGCGGCCCGGGTCCCCAGCAGCAGCCGCAACCGCCAGCACAACTGG
 TGGGCCCTGCCAGAGCGGCTCTCTGCAGCAACAGCAACAGGACTTCGATCCTGTGCAGCGTTATAAGATGCTCA
 TCCCGCAGCTGAAGGAGAGTCTACAGACCTTGATGAAGTTGCGGCCAAAACCTTGATTCAGAACTAACAATCG
 ACAATGGACAAAAGAGCAGTGATGGACCCATACAGCGCTTTGACAAGTGCTTGAAGAGTTCTATGCACTCTGTG
 ACCAGCTGGAGCTGTGCCTGCGCTGGCGCATGAGTGCCTGTCACAGAGTTGTGACAGTGCCAAGCACTCTCCAA
 CGTTGGTGCCACAGCCACCAAGCCCCGACGCAGTGCAGCCTGACAGCTCCCCATCCACAGTACCTGGCGGTCA
 TCAAAGCCCAGATTTCTGTGCCAAGGACATTACACCGCCCTGCTGGACTGTGCCAACAAGGTCACGGGCAAGA
 CACCCGCACCACTGCTGGCCCTGGGGGCACTCTGTGAAGTGGGGGACAGGGAGTGGGGCAGGCAGTGGTTGGT
 GGTGGTGTGCAAAGGAATGAAGAGCGTCTTGGGCCATAACACAGCAGCCTCCTCTCTTCTGCTGAGCACCGC
 AGCGGGAGCCAGCAGGGGGCAGCAGAGGCCAACAGGGAGCTCGCAGGCCGGGCCCTGCGTCCCTGCCCTTCTT
 CCTGCTCCCCCTCTAGCCTAGGGTAGACTTTGAAGTGTGTGTGTGATGACTTCTCTGTTCCACAGGCCCTCCC
 CCATTCTTGCTGGGTGTGGAGCCCTGGCTGTCCCTCTCCCTCAGTCTTCTGACTGTCTCCAGCTGGGAGGT
 GGTCTCTGTGTGCCACTCCTCTGTGTCTCTATTACAGTTGTGTCTCTCATCCTGTCTCTTTTTCCCTTGTTTC
 TCTGTTCTGTTAATGTGTTTCTCCCCATGGTCTATTTCTCTCACTCTGACCTCTCTCTTCTTAGTCCCCCTTAG
 CTGTCTTCTATCCCCAGCTCCTAACTGGGACTCTGTGTCTATGCAGGGGGCCAGCACCCCTGGGTTATCTGGGGC
 TAAGGGAAGGGACTTCATTTCCAGGGGCCACAGCCAAGCCCAGAGTCCCCCAGCGGCTCGCATGTGAGCCCAGAC
 CCCAGGGTCTTTGGCCTAGGAGAGGAGCAGTGGAGGGGGCCAGGCTCTGAGCTCCACAGGTCTGAGCTGGGAGCA
 ACTCAGGCCCCCACCAAGCCTGCGTCAGCGGAACCTTGAGTGAGGGGCGTTGTGCAATTTGTGGCAAGGCTGGCC
 CAGCTGGATGCTTGGGTCCCAGTATTTTTAGCCCCAAAGGAGAAGTGAAAAGGCCCCAGCCGGGGTGAATCATCA
 GTCTGGGGAAGAACCAGGCGCTGAGCCCCAGCTCCGGGAAGCAGGCACTGGGGAGGGGGCTTCAAGGAGGGA
 GTGCCCCCTCAGACTCCCTGCTTCCCTGGAAGCTTCAGGAAGCTCAGCCTCAGCCTTCAGGCCTGAGCAAGTGCA
 GGGCGGAGCTACCAGCCCAGGCTCAGATGTTGGGGTGTGAAAGCCTCAAGTGACTCAGCCTGGTTGGAGAAGTGC
 CCCACCCAGTATCTTCTGTGCCATGGTTCCACATTGCACTCCATGGCCTCCTGTCTTGACCCACGCTGTGCA
 AGGAAACCCTAGGACCATGGATACCTCTGTGATTACGCTGAGCCCAAGTCCCCACACTGGAAGAACTGGGAAATG
 GCCAGCTGTGTGTCCCAGGAAATTCCTCCCCTTATTCTTCTTGAAGTGCCCGAGCATGTAGGGCAAGAAGGAAG
 GCTGAAGCGCTGTCCCTAGGAGGAATTTCTCCTTCAGGGAAGCCTCAGTTTTGCCATTTATCTAATTGAATCAG
 TTTTTTACCCAATCCCCGATTTTGTAGGATAATCTCCCTTATCTAAAGTCAACTGATTATGGACTTTAATCACA
 TCTACAAAACACTTCCATGGCGACAGCTAGATGAGTGTTTGAATAACTGGGACTGTAGCCCGTCCAAGTTGACAC
 ATAAAACTGACCATCGGGCCGGGGGCGGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGCCCGAGGCGGGCGG
 ATCACAAGGTCAGGAGTTCGAGACCAGCCTGGCCAACACGGTGAAACCCGACTCTACTAAAAATACAAAAATT
 AGCTGGGTGTGGTGGCACACACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCTGGG
 AGGCAGAGGTTGCAGTGAGCCAAGATCACACTATTGCACTCCAGCCTGGGCGACAGGGCAAGACTCTGTCTCAA
 AAAAAATAAAAACTGACCATCTAGTCTTGTATCTGGGCACCCTCACACATCTCCTTAACCACACTTAATCTCC
 AAATAAGTACGATAACATAGTATAGTCCCACCCAACATGATGCAGTTATCTTGCATACAACTGAAGACAATAA
 CCCTTTCCCCAACAGAGCCCACCAGCAGTGGTGGAGATGTCGGTCCATGAGCGCACACACAAGACTGAGGGACTG
 TCGGCCCTCCCAGGTGGTGTCAACACAACATCACACACAGGTGGGGGGGCGCTGATAGCCAGCACCCATGATACA
 GGGCCTACCAATGCTTAAAAACACACCCAGGGAGCCACAGAGGCACTCAGTGGGTGGTGGGGTGTATGGATACAC
 ATCTATCAGGCACAGGGCGGAGGTGGGCACCACCTGAGTTGCACTCAGCAAACACATTGGGTATCTTGTGCCCAAG
 CCCTGTATTTGTGGAGCTGATGTTCTAGTGAGAGACAGTAAATGTGACAAAAGTAAAAATATATCAGATGGTGAGA
 GAACGAAAAAATGAGATCAGAAGTGGAGATGTTGGGGCCAGGCACAGTGGCCAGGCCTGTAATCCCATCACTTT
 GGGAGGTGCAGGCAGGCAGATGGCTTGAGCCCAGGAATCAAGACCAGTCCCGAGCAACATGACAAAAGCCCTTAT
 CTGCAAAAAAATTCAAAAAATTAGCCAGGTGTGGTGGTGCCTGCCAGTTCCAGGTACTCGGAGGCTGAGAGGTG
 GGAGGATGCCCTTGAGCTTGAGAGGTTGAAGCTGCAGTGAGCTGTGATCGCACCAGTGCAGTCCAGCTTGGTTTAT
 GGAGACCCCTGTTTTTTTTTAAAAAAGAAGTGGAGGTGTTTACACCAGCAAAATACTCATTTTTTAAAGTGAATTAA
 GTTGAAGATCAAAAAATGGAAATGTATAATTAAATCATACTTAGCAAATCTAACACATGAAATGTAACATCTGCA
 TATGGAGAATCGTGTACTTTATTGAAAAACATTAAAGTTTGAGAAGTT

4280/5332
FIGURE 3723

AGCCTGACTTCAGCGCTCCCACTCTCGGCCGACACCCCTCATGGCCAACCGTTACACCATGGATCTGACTGCCAT
CTACGAGAGCCTCCTGTCGCTGAGCCCTGACGTGCCCGTGCCATCCGACCATGGAGGGACTGAGTCCAGCCCAGG
CTGGGGCTCCTCGGGACCCCTGGAGCCTGAGCCCTCCGACTCCAGCCCGTCTGGGGTCACCTCCCGCCTGCCTGG
CCGCTCCACCAGCCTAGTGGAGGGCCGAGCTGTGGCTGGGTGCCCCACCCCTGGCTTCGCACCGCTGGCTCC
CCGCTGGGCCCTGAGCTGTACCCCTACCCACTTCGCCCACTGCAACCTCCACCACCCCTCGCGCTACAAGAC
TGAGCTATGTCGGACCTTCTCAGAGAGTGGGCGCTGCCGCTACGGGGCCAAGTGCCAGTTTGCCCATGGCCTGGG
CGAGCTGCGCCAGGCCAATCGCCACCCCAAATAACAAGACGGAACCTGTGCACAAGTTCTACCTCCAGGGCCGCTG
CCCCTACGGCTCTCGCTGCCACTTCATCCACAACCCTAGCGAAGACCTGGCGGCCCGGGCCACCCCTCCTGTGCT
TCGCCAGAGCATCAGCTTCTCCGGCCTGCCCTCTGGCCGCCGGACCTCACCACCACCAGGCCTGGCCGGGCC
TTCCCTGTCTCCAGCTCCTTCTCGCCCTCCAGCTCCCCACCACCACCTGGGGACCTTCCACTGTACCCCTCTGC
CTTCTCTGCTGCCCCCTGGCACCCCTGGCTCGAAGAGACCCACCCAGTCTGTTGCCCTCCTGCCGAAGGGC
CACTCCTATCAGCGTCTGGGGGCCCTTGGGTGGCCTGGTTTCGACCCCTCTGTACAGTCCCTGGGATCCGACCC
TGATGAATATGCCAGCAGCGGCAGCAGCCTGGGGGGCTCTGACTCTCCCGTCTTCGAGGCGGGAGTTTTTGACCC
ACCCAGCCCGTGGCAGCCCCCGGCGACTCCCATCTTCAATCGCATCTCTGTTTCTGAGTGACAAAGTGACTG
CCCGGTGAGATCAGCTGGATCTCAGCGGGGAGCCACGTCTCTTGCACTGTGGTCTCTGCATGGACCCAGGGCTG
TGGGGACTTGGGGGACAGTAATCAAGTAATCCCTTTTCCAGAATGCATTAAACCACTCCCCTGACCTCACGCTG
GGGCAGGTCCCAAGTGTGCAAGCTCAGTATTCATGATGGTGGGGGATGGAGTGTCTTCGAGGTTCTTGGGGGA
AAAAAATTGTAGCATATTTAAGGGAGGCAATGAACCTCTCCCCACCTCTTCCCTGCCCAAATCTGTCTCCTA
GAATCTTATGTGCTGTGAATAATAGGCCTTCACTGCCCTCCAGTTTTTATAGACCTGAGGTTCCAGTGTCTCCT
GGTAACCTGGAACCTCTCCTGAGGGGGAATCCTGGTGCTCAATTACCCTCCAAAAGCAAGTAGCCAAAGCCGTTG
CCAAACCCACCCATAAATCAATGGGCCCTTTATTTATGACGACTTTATTTATCTAATATGATTTTATAGTATT
TATATATATTGGGTGCTGCTGCCCTTGTATTTTTCTTCTTTTTTTGTAATATTGAAAACGACGATATAATTA
TTATAAGTAGACTATAATATATTTAGTAATATATATTATTACCTTAAAAGTCTATTTTTGTGTTTTGGGCATTTT
TAAATAAACAATCTGAGTGT

4281/5332
FIGURE 3724

GAATTAGGGGAACCTCAGAAATCCATCCCCACCCACGGCCCTACCTAGAAGACTTAGGAATGTGGGTCCCCAGC
GCCGCCATCTGAGACTCCAGAGTCGAGGCTCCTAGCATCCCCTACGTAGAACACTGAGAAATTCGACTGCGGGA
CCCCAGTCTCCGAGAGACCCAGATTCTATTCTGGAGCCTGAGAGCCCGAAGTTCACGCCCCTGAGTCTGGGCT
CCGCACCTCCCTGGGGACCGCGTCGGGGTCGCGCAGGAGCCGGGCTGCCTCGAGCCGGGGCTGGAGGCTCCCCGG
GAGGACTCTGCTGGGCCGCTCAGCCATGCCTGAGGGAGCCCAAGGACTGAGCCTCTCCAAACCTAGCCCAAGCCT
CGGGTGTGGCCGAAGAGGTGAAGTGTGTGACTGTGGCACCCTGTGTGAGACTCGGACAGCTCCTGCAGCCCCAC
CATGGCCTCCCCCGAGGTTCTGGGAGCTCCACATCCCTGAGCACAGTGGGCTCTGAGGGGGATCCAGCCCCCTGG
GCCCCACTCCAGCCTGCTCAGCCTCCAGGCCAGAGCCCCTTCCAGGGCCTCCCATCCGCTACATCTCTCTCCGGT
GGGGATCCCAGGTTTCCAGCCAGACCCCTCAAGGCTGGAGCGTGTGGCCCGGAGATCGTGGAGACAGAACGGGCCCTA
TGTCAGGGACCTCCGCAGCATCGTGGAGGACTACCTGGGCCCTCTGCTGGACGGCGGGGCTCTGGGGCTGAGCGT
GGAGCAGGTGGGCACGCTGTTTGCCAACATTGAGGACATCTACGAGTTCAGCAGCGAGCTCCTGGAGGACTTGGA
GAACAGCAGCAGCGCCGGGGGTATTGCCGAGTGCTTCGTGCAGAGGAGCGAGGATTTGACATCTACACATTGTA
CTGCATGAACTACCCGAGCTCCCTGGCCCTGCTCCGGGAGCTGTCGTTGTCTCCGCCAGCAGCCCTGTGGCTGCA
GGAGCGCCAGGCCAGCTTCGCCACTCGCTGCCCCCTGCAGAGCTTCCTGCTGAAACCTGTCCAGCGCATTCTCAA
GTACCATCTGCTGCTGCAGGAAGTGGGAAGCACTGGGCGGAGGGCCCAGGCACTGGGGGTGCGGAGATGGTGGGA
GGAAGCTATTGTGTCCATGACAGCGGTTGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCG
CCTCCAGGAAGTGCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGGAAGTGGTGTGGGA
GGGCGCGTTCCGAGGAGGCGGAGGGGGTGGCCCCCGGCTACGAGGGGGTGAGCGGCTGCTCTTCTGTTCTCTCG
GATGCTGCTGGTGGCCAAGCGCAGGGGGCTGGAGTACACCTACAAAGGCCACATCTTCTGCTGCAACCTGAGCGT
GAGCGAGAGTCCCCGAGACCCTCTAGGGTTCAAGGTGTCTGATCTGACCATTCCCAAGCACAGACACCTGCTCCA
GGCCAAGAACCAAGAAGAGAAGAGGCTGTGGATTCACTGTCTCCAGCGCCTCTTCTTTGAGAACCACCCTGCCTC
CATCCCTGCCAAGGCAAAGCAAGTTCTCCTTGAAAACAGCCTGCATTGTGCCCCCAAAGTAAGCCTGTCTCTAGA
GCCCCTGACACCCCCACTTGGGTCTCCTCGACCTCGAGATGCTAGAAGTTTACCCCTGGGCGAAGGAACACAGC
TCCATCTCCTGGGCCCTCTGTGATTGCGCGAGGCCGAGGCAGTCTGAGCCGGTGAAGGACCCTTATGTCATGTT
CCCACAGAACGCTAAGCCTGGATTCAAGCACGCTGGCAGCGAAGGGGAACCTTACCCTCCAGAATCTCAGCCACC
AGTTTCAGGCTCTGCACCCCTGAGGACCTGGAGGATGCTGGACCCCAACACTGGACCCCTCTGGGACCTCAAT
CACTGAAGAAATCCTGGAATGCTGAATCAGCGAGGCCTTCGAGATCCAGGGGAATCTATGGGCCTTCACAGGGC
CCAGGGGGCTCCTGATGCCCCCTTCCACATGTGAGCCAGGACATGAGGCTTCCCTGAAGCAAGGATTTACGCCAG
ATGCCATAGACCCTCAGAACTTGACCTGGAAGTCCAGACACTGAACGCAGGCCTCAAACTGCTGCGGCCTTCCA
ACTCCTGGTATCTGCATCGGCGAATGGCCCTTCTTGCTTGATCCACAGGGATGGGGAAGGGAGGAATGTCATTA
ATGTTTTGTTAATACTGATTCTTTCATGC

4282/5332
FIGURE 3725

GGTGGCCCCTAGCTTTCCTTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCC
GTCCAAGGGCCCGCTGCAGTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAAACG
CGGCAATGGTCTCATCAAGGTGAACGGGCGGCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCT
GGAGCCAGTTCTGCTTCTCGGCAAGGAGCGATTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCA
CGTGGCCCAGATTTATGCTATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGA
GGCTTCCAAGAAGGAGATCAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTG
CGAGTCCAAAAAGTTTGGAGGCCCTGGTGCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCCATCGTGACTC
AAAAC TCACTTGTATAATAAACAGTTTTT GAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAAAAAA

4283/5332
FIGURE 3726A

AGAGAACAGATTTCGGAACTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGGCTGCTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATACGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCCGCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTCTTGATGCGCAAGTTCATTGCCTACCAGTTTACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACTGAAACCAAAGTCTGGGTCCGCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCCTCCACAGAGGCTGTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGTATGTTGCCTCTGATGGT
GACTTCCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCAGCGAGGGTGTGAAGCCAACTCTCTGAGCTGGAAAAGTTTGAAGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGAAGTGAAGACACAGGGAAGGAGCGGGAGCACAACTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGCCCCAGGAACCTAGAAAATACCTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTCTGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCTCGTGCAGTGAACCGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGAAGTGTGACACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACAACTCCATGTGAAAGACATCGTTAAGGTTCATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTTCCGAAGCTTCGCCTTCCTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCCAAGTGTGGAGGTCAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCGGGGGCCGAGGGACAACGAATCATC
GGCCAGACCGTGCATCTCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG
CGCCCCGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCCTGCCCAGATGGGGCCTGGGACCCCAACAACCCCAACACGCCGTCACGG
GCTGAGGAAGAATATAGTATGCTTTTCGATGATGAGCCACCCCGTCCCCGAGGCCTATGGGGGAACCCCCAAT
CCCCAACACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCACTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCCAGAGCTACCACAGGTGGCGCCAAGCCCAGCAGGCTACCAGAATAACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTGCCTCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTGGCTACAGTCTATGACACCTGGA
GCTCCCTCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC
ACTGACATTGAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTATCCGCGAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCTTG
GGGAAGCTCCTGGAAGCTGAGCAGGACAGGGCCGGTGGACTTCGTGGATGAAGAGTGATCCTCCTTCTTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTCTTCTTCTT

4284/5332

FIGURE 3726B

TAGTTTCCATCTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTGTTGTACCGTCTTTCAATAAAAAGAAGCTGTTTGGTCT

4285/5332
FIGURE 3727

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTCGCTGCGTCCCTTTGACAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTGCGCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCCCTCCCCGCGTTTCCATTGGCTGTAGCTCCGGCCCCGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCGCGTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCGGGCCCCA
GATCAGGCCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGGTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGTAGTTCGACAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCTT
CTCCCAGACCTCTGCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCCTGAGTGGTCTGCTGGCCACTGGCTGGAGGTTTAAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTTGTTGGATCAGAGCAGATTTTTCACCC
TGGTCTCGGAATCTAAAAACCCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

4286/5332
FIGURE 3728

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTTCCTCCCCCA
GACACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGT
CCCCTGCAGCGCCCGGTCCCCCTGCCGCCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC GCGCGGACCGGTCTACACCGAGCAGCCCGGAGCGCCCGC
GCCTGATCTCCCACTGCCCCGACGGCCTCTTGCAAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCCGGGACATTACGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTGCGGACCGCGTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCGTCTCTGCTACCACCGGATGCCTTGTCCC
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCCTTTGAATG
CACCTGCCCCGCTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCCACCCGGTTTCCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCGCTGCTACGCCCACTT
CTCCGGCCTCGTCTGCGCTTGCCTCCCGGCTACATGGGAGCGCGGTGTGAGTTCCCAGTGCACCCCGACGGCGC
AAGCGCCTTGCCCCGCGGCCCCGCGGGCCTCAGGCCCGGGGACCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCCGTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGCTGGCTGGGACCCCGGAGCCGTCACTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACTGCTTTTTCCCTACCCTTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGGTTTTAAGCCCATTTTCAGTTCTAACTTACTTTTCATCCTATTTTGATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTTT

4287/5332
FIGURE 3729

CGCATACAGCAGTGCAGTGCCGTTATTCCAGTCTCCGTAGAAACGCTGGGACTATCGCGGAGCCGACTGGGCTGT
TGGAGATGTCCGAGCTCCCCGGAGATAGCAGTGTCCACAGGTGGGCACCGCGAGTGGCGTCAGCGACGTACTGC
GGGGGGCAGTCCGGCGGCGGGGTTCCGGGTGCAGGAGGCTCGGGAAGGCCAGTGGCCGAAGCTGCGCGGTCCATGG
CGCGGATGCCGGGCCCTGTGCCCCGGGCCCATCCCCAGCAGCGTCCCGGGCCTGGCCTCCGCGCCAGACCCCATC
AGCAGCTCGCTTTCTTAGAAATTAACCGGCAGCTGTTGTTCCGCGAGTATCTGGATGGTAGCTCCATGATTCCGG
TCAGATTACTACGGGATTTTCGAGGAACGCCGAGGCTGTTTGTGGAAGGCTGCAAGGCGAGGGAAGCAGCCTTTG
ACGCGGATCCCCCGCAGATGGACTTCGCTGCTGTGCGGTTTACGGTAGCGCTGACTGCCTCCGAGGCCCTCAGTC
CTCTGGCCGACTGAGTTCGGCTGTGATGATGACATTGGTGGCAAGGAATAGCCAAGTGACCCTTTTGGGATCAAAA
GAACAGGCAGGCTGTGCCAGTTTAGTTAACTCAGTCATTAGGGGGAATGCAAACCTGGAAGGGAATACGGCAATGT
GCAATTGAAGGAGGAAGCACACTCCGAAATGGAAACAGACAAGACTGTTGAATCTTGTTTTCTTTCTTTCTTTTTT
AGTATTATTTAAATAGAGAAGGGAGTCTCGCATCCCTAGGCTGGTCCCGAACGCTTGGACCCGAGCGATCCTCCC
GCTTCGGCCTCCCAAAGTGCTGGGATTACTTTACAGGCGTGAGCCACCGCGCCCGGCCGAATCTTGTTTTCAAAC
AGGTCCCAAGACACTTCTGACTTAGCACTTTGTTAGCAATGCATTTTCTGCATTTGTGAAGAATCCTTCATGAC
TTTCACCATAAAGGATGGTTTTTGCAAAGATATGAGAAAAAATGCCAATAACAGAACCCATAGAAATGAACC
TAAGTGATGAAAGAAAACAAAGAAATAGAGTTGTGAGGAATCCAGGTGTACCTGAGTTACTAGGATTGGAAGGCT
ATTGAGAGGACTTTGAAATTTTACAATTTGTGGTCATGTCAACAAATCCTAGTGTAAAGATTCATATTTGTGTTTT
CTGAGGTACTTTAGATGAACAGTAAATATTCAATAGAAAAAACACGTATTATATGATCAGTGTTCAGTCTA
TGIGAAATTGGGTAGGTGTGGAATAAACTTGTTTTTTGTAA

4288/5332
FIGURE 3730

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCCGGTTTGTGTGGTGCCTATTTGCTGGTTGCATTACTGGGT
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGATACCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGTAGTCCCCTTGCCGCTCCTTCAGGTCTCAGCGGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGCGGCC
CCCCGGCCGGGCTCCCGCTCCAGGCTCTCGCTCCCCTGCGGCCCTCTGAGCCCACCATGGCCGTCCCACCGGGCCA
TGGTCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGGGCCAGCAGGCGCCACCCAGGATTTCGAGCAACAA
GAAGGAGAAGAAGTCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAGGCTTTCTGAACCAGGCCAGATTGAGCTGCG
GGTGTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACCTTCATGTT
CCGGAACCACTGTGCTGGTATTGAGCTGCTGTCCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCTGA
GCTCAGCATCATTACTGCGACCTCAAGCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCCTCACC
TGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCCTCTTCAGTGGCTCCAATGAGGTGACAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGCGGGCGGGGAGCCGGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCCGCCGCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCCGGCAGGACAGTGCCTCCACCTCGCCCGCGCCCTCGACAC
CTGCCCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTTCGTCCTCCATCACCAACCTC
ACCACCACCCCCGGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCCGCTCCTGA
TGACCCTGCCACTCTGGGGCCTCACCTGGGCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGACCCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATAACCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCTGGGGCAGGGGGGTCA
AGGAGAGGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGCCCCCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCACCCAGGACCCTAGGAGGGGGTGGGGG
AGGTAGGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTCTCACA

4289/5332
FIGURE 3731

CGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTTCAGTCCCCGTGGGGGTGGCTTTGGCGGC
CGAGGGGGCTTTGGTGACCGTGGTGGTTCGTGGAGGCCGAGGGGGCTTTGGCGGGGGCCGAGGTCGAGGCCGAGGC
TTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCCGCGCGCGGTGGAGGAGGAGGAAGAGGTGGTGGAGGCTTC
CATTCTGGTGGCAACCGGGGTCGTGGTCGGGGAGGAAAAAGAGGAAACCAGTCGGGGAAGAATGTGATGGTGGAG
CCGCATCGGCATGAGGGTGTCTTCATTTGTGAGGAAAGGAAGATGCACTGGTCACCAAGAACCTGGTCCCTGGG
GAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTGGAAGGAGATGACAAAATTGAGTACCGAGCCTGGAACCCC
TTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCCACATCAAACCGGGGGCTAAGGTTCTC
TACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCGTTGGTCCGGATGGTCTAGTCTATGCA
GTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGGCCAAGAAGAGGACCAACATCATTCTGTGATC
GAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGGATGTGATCTTTGCTGATGTGGCCCAG
CCAGACCAGACCCGATTGTGGCCCTGAATGCCCACACCTTCCTGCGTAATGGAGGACACTTTGTGATTTCCATT
AAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCTCCGAAGTGAAAAAGATGCAACAGGAG
AACATGAAGCCGCAGGAGCAGTTGACCCCTTGAGCCATATGAAAGAGACCATGCCGTGGTTCGTGGGAGTGTACAGG
CCACCCCCCAAGGTGAAGAACTGAAGTTTCAGCGCTGTCAGGATTGCGAGAGATGTGTGTTGATACTGTTGCACGT
GTGTTTTTCTATTAAAAGACTCATCCGTC

4290/5332
FIGURE 3732

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCACCTCCTCATGTCCATCCCCAGCCCTTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCTATGAGAGCAACGAGGCCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGAGCCTGGCAGCCTACACGGCGGCTGTGAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTGTCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCGGAAGTGTGGGCCACCCGTGG
TCTCTGTGTCCTGTCTGTGGGTGCCAACCTCACCACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCAGGACTACAGAATACCATCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAAACTGTGTGGGGCCTGTGGAAACTTTGACGGGGACCAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
T

4291/5332

FIGURE 3733

GTCAACTTAGTGTAACAATGCTGTGCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTTGGTTCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTTTAATTTTTAAACCATGCT
TGTTTTAACCTGCTGGTAAAAATTCACGTCTTTACAGACTGTAATGCTTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGAACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACC AAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCCTCCTCTTCTCCTCCTCCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGGAGAGATCATATAGCTATGTAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACATAAATGTGGAAGACAAGTTTGAGATCTGTAAATGTGATTTTT
TACTTCCACTATAACTTGTGATTGGGAGGTTTGTGGAAATTC AATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGTCATACTTGGGGGATTTAGTGGCAAAATACATATCCCCCAGCAGGCCTTTTGTGGTTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTTGGAACTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCTTATTC AATAAAGTTATTCTCCTGGTCT

4292/5332
FIGURE 3734

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCTGTCTTCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCTTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAATATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATC
GATCCCCCGAGGCGTCCATCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTCATCCGGGTCGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTGAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAAGACTATGTGGCCCGGCCAGATAAGATTTCA
GGAGCTGATATTAATCCATCTGTGAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATACAAGACTGTGATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCC

4293/5332
FIGURE 3735

GTTTTTTTTCTTGCTCCTGCGGAGGGCGCCCCAGCCATGGCCCTCAGGAGCTCCCTAGACCCCGCAGGGACTGCC
CTCCATCCCGGGCGCCGGGGCCCGCCCTCTGCATCCCGCGGGCAGCCTGTGTGAAGCGGCCTCCCGCAGCCCCCG
GCCCCCTCCCCCATGAGGAGGAGGAGGGGGCGGTGGCCAAGGAGTGGGGCACGACCCCGCGGGGCCGTCTGGA
CCGCGGTGTTTCTGACTACGAGGCGCGGGCGACGAGGAGCTGACCCTGCGGAGGGGCGATCGCGTCCAGGTGCTTT
CCCAAGACTGTGCGGTGTCCGGCGACGAGGGCTGGTGGACCGGGCAGCTCCCCAGCGGGCGCGTGGGCGTCTTCC
CCAGCAACTACGTGGCCCCCGGGCGCCCCGCTGCACCCCGGGCCTCCAGCTGCCCCAGGAGATCCCCCTCCACG
AGCTGCAGCTAGAGGAGATCATCGGTGTGGGGGGCTTTGGCAAGGTCTATCGGGCCCTGTGGCGTGGCGAGGAGG
TGGCAGTCAAGGCCGCCCGGCTGGACCCTGAGAAGGACCCGGCAGTGACAGCGGAGCAGGTGTGCCAGGAAGCCC
GGCTCTTTGGAGCCCTGCAGCACCCCAACATAATTGCCCTTAGGGGGCGCTGCCTCAACCCCCACACCTCTGCC
TAGTGATGGAGTATGCCCGGGTGGTGCCTGAGCAGGGTGTGGCAGGTGCGCGGGTGCCACCTCACGTGCTGG
TCAACTGGGCTGTGCAGGTGGCCCGGGGCATGAACCTACCTACACAATGATGCCCTGTGCCCATCATCCACCGGG
ACCTCAAGTCCATCAACATCCTGATCCTGGAGGCCATCGAGAACCACAACCTCGCAGACACGGTGTCTAAGATCA
CGGACTTCGGCCTCGCCCGGAGTGGCACAAGACCACCAAGATGAGCGCTGCGGGGACCTACGCTGGATGGCGC
CGGAGGTTATCCGTCTCTCCCTCTTCTCCAAAAGCAGTGATGTCTGGAGCTTCGGGGTGTGCTGTGGGAGCTGC
TGACGGGGGAGGTCCCTACCGTGAGATCGACGCCTTGGCGTGGCGTATGGCGTGGCTATGAATAAGCTGACGC
TGCCCATTTCCCTCCACGTGCCCGAGCCCTTTGCCCGCCTCTGGAGGAATGTGGGACCCAGACCCCCACGGGC
GGCCAGATTTCCGTAGCATCTTGAAGCGGCTTGAAGTCATCGAACAGTCAGCCCTGTTCCAGATGCCACTGGAGT
CCTTCCACTCGCTGCAGGAAGACTGGAAGCTGGAGATTGAGCACATGTTTGATGACCTTCGGACCAAGGAGAAGG
AGCTTCGGAGCCGTGAGGAGGAGCTGCTGCGGGCGGCACAGGAGCAGCGCTTCAGGAGGAGCAGCTGCGGCGGC
GGGAGCAGGAGCTGGCAGAACGTGAGATGGACATCGTGAACGGGAGCTGCACCTGCTCATGTGCCAGCTGAGCC
AGGAGAAGCCCCGGGTCCGCAAGCGCAAGGGCAACTTCAAGCGCAGCCGCTGCTCAAGCTGCGGGAAGGCGGCA
GCCACATCAGCCTGCCCTCTGGCTTTGAGCATAAGATCACAGTCCAGGCCTCTCCAACCTCTGGATAAGCGGAAAG
GATCCGATGGGGCCAGCCCCCTGCAAGCCCCAGCATCATCCCCGGCTGAGGGCCATTGCGCTGACTCCCGTGG
ACTGTGGTGGCAGCAGCAGTGGCAGCAGCAGTGGAGGAAGTGGGACATGGAGCCGCGGTGGGCCCCCAAAGAAGG
AAGAAGTGGTGGGGGCAAGAAGAAGGGACGAACGTGGGGGCCAGCTCCACCCTGCAGAAGGAGCGGTGGGAG
GAGAGGAGAGGCTGAAGGGGTGGGGGAAGGAAGCAACAGTGGTCAAGTGCCCCCAACCTGGGCAAGTCCC
CCAAACACACACCCAGTCGCCGCTGGCTTCGCCAGCCTCAATGAGATGGAGGAGTTTCGCGGAGGCAGAGGATGGA
GGCAGCAGCGTGCCCCCTTCCCCCTACTCGACCCCGTCTACCTCTCAGTGCCACTGCCTGCCGAGCCCTCCCCG
GGGGCGCGGGCGCCGTGGGAGCCGACGCCGTCCGCGCCCCCGCTCGGTGGGGACACGGCGCCCGGCGGCGCTGC
GACCTGGCGCTGCTAGGCTGCGCCACGCTGCTGGGGGTGTGGGCCTGGGCGCCGACGTGGCCGAGGCGCGCGC
GCCGACGGTGAGGAGCAGCGGCGCTGGCTCGACGGCCTCTTCTTTCCCCGCGCCGGCCGCTTCCCGCGGGGCCCTC
AGCCCACCCGCGCGTCCACGGCCGCCGGAAGACGTGGGCCCGGCCCTGGGCTGGCGCCCTCGGCCACCCCTC
GTGTGCTGTGCTCGTGTCCGACTGCAACTCCACGCGTTCACTGCTGCGCTCTGACAGTGACGAGGCCGCACCG
GCCGCGCCCTCCCCACCACCTCCCCGCCCGCGCCACACCCACGCCCTCGCCCAGCACCAACCCCTGGTGGAC
CTGGAGCTGGAGAGCTTCAAGAAGGACCCCCGCCAGTCGCTCACGCCACCCACGTACAGGCTGCATGCGCTGTG
AGCCGCGGGCACCGGCGGACGCCATCGGATGGGGCGCTGGGGCAGCGGGGGCCCGCCGAGCCCGCGGGCCATGGC
CCTGGCCCTCGTGACCTTCTGGACTTCCCCCGCTGCCCCAGCCCCAGGCCCTGTTCAGCCCGCGCGCGGCC
CCTGAGTTCCCAGGCGCCCCACCACCTGACCTTTGCCCCGAGACCTCGGCCGGCTGCCAGTCGCCCCGCTTG
GACCCCTGGAACTGGTCTCCTTCGGCCGGACACTACCATCTCGCCTCCAGCAGGCCAGACACTCCGGAGAGC
CCTGGGCCCCCAGCGTGCAGCCCACTGCTGGACATGGACATGGAGGGGAGAACCAAGACAGCAGTGGCC
CTGTGCGGGGCCCCACGGCTCCCACTAAGGCCTGCCCCACCACCGCCGCTGGGCGAGCCATGAATGTAGCGCCCCA
GGCCCTGCCCCAGCCCGCATGCCACAAGGTGGGGGAGGCCCTGGGCAGGATGTTCACTCTATTTATT

4294/5332
FIGURE 3736

AACACCCTCCTGGAGGATGCTGGTGAGAGGCAGGGACCAGGGGTCCGGCTCCCGGCTCGGGCCTATCGTTAGGCG
CTGGGCCCCCAGGCCCTCTCCTTTGCAGAGTCTCGCTGCCTCCCTCGACGCAGAGCCTTCAAGCGCCGCAGTCCC
CGACGGCTTCCCCGCGGGCCCCACTGTCTCCCAAGACGCCTGGCGAGGCCCGGGGCTGGAGGAGGCGCTGAG
CGCGCTGGGGCTGCAGGGAGAACGCGAGTACGCCGGGGACATCTTCGCCGAAGTCATGGAGTACCTGGGTCTGGC
TGGTGACACACTTTATCTGGCGGTTACCTGCTTGATTCTACCTGAGCGCTGGCCGCGTGCCTCTACATCGCCT
GCAGCTGCTGGGCGTGGCTTGCTGTTTGTGGCGTGCAAAATGGAAGAGTGCCTGCTTCCCGAGGAACTGAGGT
CCGGAACCTGGGGCCTTTCCAGGGCAGGGAGTAAAGAGCCCGGATCCAAGACTCCTTACCTCCCCCGCATCCC
CCATCTGCAGCCCGCCTTCTCTGCCTCCTGAGCGCGGACTCCTTCTCACGGGCGGAGCTGCTGCGCGCCGAGCG
TCGCATCCTGAGCCGCTGGATTTCGGGCTGCACCACCCCGGCCCGCTGCTGTGCCTCGGGCTGCTGGCCGCGCT
GGCAGGGAGCAGCCCCCAGGTGATGTTACTTGCCACCTACTTCTGGAGCTGTCTTTGCTGGAGGCCGAGGCGGC
GGGATGGGAGCCGGGTGCTGCTGCGGCTGCGGCTCTGAGCCTGGCGCACCCTGCTCGACGGGGCGGGCTCCAG
GCTCCAGCCAGAACTTTACAGGTGTAGTCTTGGCGGAGGAAGTGTATGGGGTCACCGCAGCTTCAGGGACTTACC
TTCCTGGTCATTTTTACGGTCTCGGAGAATGAGAGACAATTATTGAGGAGGAGGTGGCACCTAGACTTGCTTTTT
CTGGGTGTGGGAGAGAATGGGGTGGGAGGACCCCATAGTCCAGATCTGGGGTCTCTTAACCTTGCCCCAGAGTG
GAAGATAGTCTCCAGGCCCAGAAGATGCTCCTATTGCCTTCAGGGCTGAGAACGAAGGATCACCCAGGCCTCG
AGTCTCCATCTCTGTATCTGGTGGTGGATGGGGTGTTCTTTAGCTGCTAGGGCCGCTAACCATGCTACCAGGT
GGCAGGGCGAACCATGGTTTCCCTCAGCCTGTGCACCCAGCATAGAGAGGATGGCTGCCCATCCTCAGCTCCCCT
CCTTGCTTCTCGAGTGTCTGACTCCGCACTAGCCGCGCCCTGTAGGAAGAATAGGGTGTCCACCTCTCCCCGG
TGCTCGCCTAGTCACTCCAGTTGAAGACGGGACGCGTGCCGATCTCAAGAGAGCCCCCGACCCGTCCGTGGGGA
ACCACATCGACGCTTCTTCTCAGCCTCCAGTCTCCAGTTCCAAGGATGGGTCATCTCCAACCCCTTGCCCTGCCT
CAGTTTCTCCATCTCCCTGCTGCAGCCCCGAGGAACTGGGCACCCCTCGAGCCGTGCATGGCCCCGCGCTGCGCTCC
GAGGTCCCGCGCCGGGTGCGCGCCGAGTCTTCCCTCAAGTATGCGCGGCCCCAGCGCCAGGGGACCAGCCTTGCCG
CCGCTGCTGCTCCGCCGCTCCAGTCTGAGCCTCCCTGAGTACTGGGACTCAGTCACAAAAAATCAACAACA
AAAAACAAAACCCTCCAGTGTGTGCTCTCTCATCTCAATAAAAGAATTTATTTT

4295/5332
FIGURE 3737

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTCAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTCTCCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCTTCAAACCTCAGGTACGTCAGGTCGACACAAGGTACTTCGATGATGAATTTACCGCCCAGTCC
ATCACAATCACACCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCGCT
GGGTGGTTTTTTCCCCCT

4296/5332
FIGURE 3738

CTCTTTATAAATTAGTTTCCATAGAAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGACTGGGGCAGCAGCTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCTCCACCCTCGTTCAGCCTGTCCAGACAGAAGCTGGGGCCAGCGGAG
GTAGCAGCAGACGCCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCGAG
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC
TGCTGGTCTCTATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCAACCAGCGCCCAGCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATT
CTGAGGGCTTGACTTCCCCAATGCCTCCACGGGGAAACCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGGAGGTTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCCAGGTCCGCATGG
TGGACATGCAAGAGCTGACCCATGGCGTCTGCTATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTCACTGTACAACCTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCCACCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCCGAGTTTCATCTACGTGCTGTCTGAATACCTGCCACTCTGGAGTTCTCCACCCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTCTGCTCTCTTGCTGCCCTGCGTGCATAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAACCTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACTCTGCTGTGTGACGCGAGAATGGGAGGGGCGGCCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGAGCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCGCTTCTGTCTGCCCATTTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCACTTTCCAGGGCAAAAAGGGCCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

4297/5332
FIGURE 3739

AGAACTGCGTCTCGCGACCCAGGCGCGGGTTTCCAGAGGACAGCCAACAAGCGATGCTGCCGCCGCCGTTTCCTG
ATTGGTTGTGGGTGGCTACCTCTTCGTTCTGATTGGCCGCTAGTGAGCAAGATGCTGAGCAAGGGTCTGAAGCGG
AAACGGGAGGAGGAGGAGGAGAAGGAACCTCTGGCAGTCGACTCCTGGTGGCTAGATCCTGGCCACACAGCGGTG
GCACAGGCACCCCCGGCCGTGGCCTCTAGCTCCCTCTTTGACCTCTCAGTGCTCAAGCTCCACCACAGCCTGCAG
CAGAGTGAGCCGGACCTGCGGCACCTGGTGCTGGTTCGTGAACACTCTGCGGCGCATCCAGGCGTCCATGGCACCC
GCGGCTGCCCTGCCACCTGTGCCTAGCCACCTGCAGCCCCCAGTGTGGCTGACAACTTACTGGCAAGCTCGGAC
GCTGCCCTTTTCAGCCTCCATGGCCAGCCTCCTGGAGGACCTCAGCCACATTGAGGGCCTGAGTCAGGCTCCCCAA
CCCTTGGCAGACGAGGGGCCACCAGGCCGTAGCATCGGGGGAGCAGCGCCAGCCTGGGTGCCTTGGACCTGCTG
GGCCCAGCCACTGGCTGTCTACTGGACGATGGGCTTGAGGGCCTGTTTGAGGATATTGACACCTCTATGTATGAC
AATGAACCTTTGGGCACCAGCCTCTGAGGGCCTCAAACCAGGCCCTGAGGATGGGCCGGGCAAGGAGGAAGCTCCG
GAGCTGGACGAGGCCGAATTGGACTACCTCATGGATGTGCTGGTGGGCACACAGGCACTGGAGCGACCGCCGGGG
CCAGGGCGCTGAGCCCTCGTGCTGGAATGGTTGTCTGGTATCTGAACTGAGCCTGCTGGCTGGACCAACTGTCCT
CGAAAAGACACAGCTGGCTTCCCTAGTACAGAGAACAGGGCTTGGGCCACTTTGGAGAGACAGAATCTAGTCCTG
GGCAACTTCACATCCGTCCTCCTGTCTCAGGGCTGGCAGGGGGAGCCTGGAATTACCCCTAGTGATGGAATGAC
AGGGTCTGGTGGGGACTGAATTCCCTGGCCCTGGGGTCATAGCTGGGCTGTTCCCTTCTCTGATACGGGAAGAGA
CCCCAATCAGATTTTTCAAATTAAAGCCAGTCCTGGG

4298/5332
FIGURE 3740

GGGCAGAGAGCACCGCCAGCAGCCAGTGGGTTCCCGCGCGTGCCGAGACTCTGAGGCCTTGCACCCCCACGATC
CCGTACGATGGCCGTCAAGAAGATCGCGATCTTCGGCGCCACTGGCCAGACCGGGCTCACCACCCTGGCGCAGGC
GGTGCAAGCAGGTTACGAAGTGACAGTGCTGGTGCGGGACTCCTCCAGGCTGCCATCAGAGGGGCCCCGGCCGGC
CCACGTGGTAGTGGGAGATGTTCTGCAGGCAGCCGATGTGGACAAGACCGTGGCTGGGCAGGACGCTGTCATCGT
GCTGCTGGGCACCCGCAATGACCTCAGTCCCACGACAGTGATGTCCGAGGGCGCCCGGAACATTGTGGCAGCCAT
GAAGGCTCATGGTGTGGACAAGGTCGTGGCCTGCACCTCGGCTTTCCTGCTCTGGGACCCTACCAAGGTGCCCC
ACGACTGCAGGCTGTGACTGATGACCACATCCGGATGCACAAGGTGCTGCGGGAATCAGGCCTGAAGTACGTGGC
TGTGATGCCGCCACACATAGGAGACCAGCCACTAACTGGGGCGTACACAGTGACCCTGGATGGACGAGGGCCCTC
AAGGGTCATCTCCAAACATGACCTGGGCCATTTTCATGCTGCGCTGCCTCACCACCGATGAGTACGACGGACACAG
CACCTACCCCTCCCACCAGTACCAGTAGCACTCTGTCCCCATCTGGGAGGGTGGCATTCTGGGACATGAGGAGCA
AAGGAAGGGGGCAATAAATGTTGAGCCAAGAGCTTCAAATTACTCTAG

4299/5332
FIGURE 3741

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCTCCCGGGGAAGTCATTTCATCTGAATGTGGGAGGCAAGAGATTTCAGTACCTCTCGCCAG
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCACCCGTCACCTCTACGCTTTCGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCATGAAGCCAGTTCTATGGGCTCACTCCTCTGGTTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC
TCCCTCACCCCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCCGGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCCTGTGGAGGCTTGTCTTCGTCGGGAACAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTCACCAAGCCTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCCTCCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCTTTCGCGCAT
GAAAGACAACGACCTCCTTGTTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCACCGCCCTCAGTGTCTA
CCTCACCCCCAAGACCAGTGACAGTGGGAACTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCTCAGCTCTTCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTTCGGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACCACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCACTCGCTTCTTTAAGATCCTGGCTCTGGA
GTGGGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGGCCAGTGCCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGCAGGGGCTCCCGGCGGCTCGGCTC
TCGGCCCCGGGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCCAGCCATGGA
CGGCTTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCTCACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG
TGGTGGGGGCGAGCTTTGTGGAACGCTGCCAGGAAGTGGTGGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACCTCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGGAATAAATGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTCTG
GAAGCCAAAGTCACCCCTCCCCAATAAAGTCCTCACTGCC

4300/5332
FIGURE 3742A

CGTTGCTGTTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGCGCCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCGCTGGCAAGGCCCGGTCTGTGTCCCTTGATCTGTACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCCGGCCCCCGCCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCACGGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGAGGAGCGTGGTGGTGGTGACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCGAGGAGGTCTGCTGCCGAGGGGCGCGCTTGG
CCTGGGGCGTTACGACTGTGCTGCTCCGAGCGCCTGGGGAACCTCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTTCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCAGGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAACACGCGCGGGGTACACGTGTGTGTGCCCGACGGCTTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCGCGTGTCTCCGCGACGGCGGCT
GTTGCTGCCCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCGTAGGCAAGGCCTGGGGCCGGG
GCTGCCAGCTCTGCCACCCCTTCGGCTCAGAGGGTTTCGGGAGATCTGCCCGGCTGGTCTGTTTACCCTACT
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCTGGAGCCCCGGCCTGAACCCCGGC
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTACGCGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCCCGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTCGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAACTACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCCAAGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCGCCCGTGTGACCTCG
GGCGCTGCGAGAACACGCCAGGCAGCTTCTGTGCGTGTGCCCGCCGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCTGCAAGAACCTGCCTGGCT
CTTTCCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCCGGCCGCTGTGACAACACGGCAGGCTCCTTTCACTGTGCTGCTGCTGGCTTCCGCT
CCCGAGGGCCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCGAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACACTGCTGGCTCCGAGTGCG
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAACCTCGCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGCCCACACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCGGGTGCC
CTCCCTGTGTTCCACGGCCACTGCACCTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTGCGGTGCGGCCGGGCCCTGCGCAGACGTGAACGAGTGCCCTGGAGGGCGATTCTGCTTCCCTCACGGCG
AGTGCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGCTACCGACCCGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCATCTGTCTCCGGGACACCGCGCTGGCCCCGACCTCGCTCCTGCTCGACGTGGACGAATGTGCGGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCGGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG
GAGCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCGCCTGTGACCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAATG
TCGAAGGCTCCTTCTCTGTGTCTGCCCCAACAGCCGGAAGAGTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTTCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCCCGGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCTGGCTCGGAATGTGACATGGCAGGAGTGCTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGATCCAGCAGTGCCCGGGCACCAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTCAGCTCT
TCCGAGACCAGGTGTGAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

4301/5332
FIGURE 3742B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCGTCCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGCATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCGCCACTCGGGGCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCGCTGGA
CCTGGAGAAGGGACCTACGGACGCTTGAAGCTGCGACGCCCTGCACTGCTCCCGCTCCACCAGCGCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTCCATTAAAA
ACCACCTATTTCT

4302/5332
FIGURE 3743

GCTCGCGCGCTGCATCCCGCACCATCCCCGGCCCCGGGCCCTGGCCGGCGTCAGACCGAGCTGCCGCCGCCAC
CACCAGCAGCAGCAGCAGTCGGGGAGCCAGGCCAGGCCAGGGCCGCGGGAGGCGGGGGCGCCCGGGCCCTGGATGT
CCCGCAGCGCGGGCGGCCAGCGCGGACCCCGAGGCCCTGAGCGGCACCTGCCCCAGCCCCCTGTGGGGCCCCGG
GGCCCCCAGAAACCTGCAGGACGGAGCCAGACGGGGCGGGCACCATGAACAAGTTACGGCAGAGCCTGCCGCCGA
GGAAGCCAGCCTACGTGCCCCGAGGCGTCGCGCCCGCACCAGTGGCAGGCAGACGAGGACGCGGTGCGGAAGGGCA
CGTGCAGCTTCCCGGTACAGTACCTGGGTACGTGGAGGTAGAGGAGTCCCGGGGAATGCACGTGTGTGAAGATG
CGGTGAAGAAGCTGAAGGCGATGGGCCGAAAGTCCGTGAAGTCTGTCTGTGGGTGTACGCCGATGGGCTCCGAG
TGGTGGACGACAAAACCAAGGATCTTCTGGTCGACCAGACCATCGAAAAGGTCTCCTTTTGTGCTCCTGACCGCA
ACCTGGACAAGGCTTTCTCTATATCTGTGTCGACGGGACTACCCGCCGCTGGATCTGCCACTGTTTTCTGGCAC
TGAAGGACTCCGGCGAGAGGCTGAGCCACGCTGTGGGCTGTGCTTTTGCCGCTGCCTGGAGCGAAAACAGCGAC
GGGAGAAGGAATGTGGGGTCACGGCCGCCTTCGATGCCAGCCGACCAGCTTCGCCCCGAGGGCTCCTTCCGCC
TGTCTGGGGGTGGGGGCCCTGTGAGCGAGAGGCCCCGACAAGAAGAAAGCAGAGGCAGCAGCTGCCCCACTG
TGGCTCCTGGCCCTGCCCAGCCTGGGCACGTGTCCCGACACCAGCCACCACATCCCCTGGTGAGAAGGGTGAGG
CAGGCACCCCTGTGGCTGCAGGCACCACTGCGGCCGCCATCCCCGGCGCCATGCACCCCTGGAGCAGCTGGTTC
GCCAGGGCTCCTTCCGTGGGTTCACGACTCAGCCAGAAGAACTCGCCTTTCAAACGGCAGCTGAGCCTACGGC
TGAATGAGCTGCCATCCACGCTGCAGCGCCGCACTGACTTCCAGGTGAAGGGCACAGTGCCTGAGATGGAGCCTC
CTGGTGCCGGCGACAGTGACAGCATCAACGCTCTGTGCACACAGATCAGTTCATCTTTTGCCAGTGCTGGAGCGC
CAGCACCAGGGCCACCACCTGCCACAACAGGGACTTCTGCCTGGGGTGAGCCCTCCGTGCCCCCTGCAGCTGCC
TCCAGCCTGGGCACAAGCGGACACCTTCAGAGGCTGAGCGATGGCTGGAGGAGGTGTACAGGTGGCCAAAGGCC
AGCAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAACAGCAGCAAGCAGCCTCAGTGGCCC
CAGTGCCCAACCATGCCTCCTGCCCTGCAGCCTTTCCCCGCCCCCGTGGGGCCCTTTGACGCTGCACCTGCCCAAG
TGGCCGTGTTTCTGCCACCCCAACACATGCAGCCCCCTTTTGTGCCCGCTACCCGGGCTTGGGCTACCCACCGA
TGCCCCGGGTGCCCCGTGGTGGGCATCACACCTCACAGATGGTGGCAAACGCCTTCTGCTCAGCCGCCAGCTCC
AGCCTCAGCCTGCCACTCTGCTTGGGAAAGCTGGGGCCTTCCCGCCCCCTGCCATACCCAGTGCCCTGGGAGCC
AGGCCCCGCCCTCGCCCCAATGGGGCCCCCTGGCCCCCTGAGCCAGCGCCTGCCCCAGCTCCAGAGTTGGACCCCT
TTGAGGCCCAGTGGGCGGCATTAGAAGGCAAAGCCACTGTAGAGAAACCCTCCAACCCCTTTTCTGGCGACCTGC
AAAAGACATTGAGATTGAACTGTAG

4303/5332
FIGURE 3744

TCTGAGCATCCGAAGCGCGGCCAGGTATGCATCTAGGGCACCGGGGTCCTGGTGGCGCGCCAGTGGGCCCCCTCC
CTCCACCCCTGTGACTAAACCACCCTCCCTACACGGTTGAATGACAAGTTCAACCTTCCCTAAAACCCCCGGTGA
CGAGTCCAGCCGCGCGCCCCATTCTTCACGCAGGGGCGGGACGGACTTTCAAAGACTTGGAGTTCCACGGGTGTG
GGTTCGAGACCTTCCTCTGCCAGTTCCCAGCTCCGCTACCCTGAGCAAATGACTTACGCTCCATTGGATTTTCCG
CAATGTTGGCTGAAGGTGGGGGGCCTACTTCGGGGGACCGGTGGACAGCTGGGCCAGACTGTTGGTTGGCCTTGTG
GGGCCCTGGGGCCTGGGCCCCACCGCTGGGGACCATGTGGAGGTTCTTGGGCCCCAAAAGTTTTACCAGGATGGGC
CTGGGAGAGGCCTGGGTGAGGAGGACATTTCGAGGGCACGGGAGGGCCGTCCCAGGAAGACACCCGGCCCCAGC
TGAGTGACCGCTCTCGAGAACGCAAGGTGCCTGCCTCCCGCATCAGCCGCTTGGCCAACCTTGGGGGACTGGCTG
TGGGCTTGGGGCTAGGAGTACTGGCCGAGATGGCTAAGAAGTCCATGCCAGGAGGTGCTCTGCAGTCAGAGGGTG
GTTCTGGGCTGGACTCCAGCCCCCTTCCTGTGCGAGGCCAATGCCAGCGGATTGTGCAGACCTTATGTACAGTTC
GAGGGGCCGCCCTCAAGGTTGGCCAGATGCTCAGCATCCAGGGTACAGCATGACCCCTCGACTCCTGACCCCTGAC
CTCCCTTCTACCCAGCCCTACCCACCAACAGGCCCCAACTTCAGATACTCACACGGGGTCCCTCCTCACCTCTT
CGCTTACTTCCCCCTGGTTCCACTGTCTCCCAAGACAACAGCTTCATCAGCCCTCAGCTGCAGCACATCTTTGA
GCGGGTCCGCCAGAGCGCCGACTTCATGCCCCGCTGGCAGATGCTGGTGAGTGCCCACTGGGGGAGGGCGGTGAG
GGAGGCAGGCTCCATCTCCTCTGACCTGCCTGACCTTCCTGGCTTCACTGCCCCACTCCCTGCCTCTGAGCCTCA
CTTTCCCCATCTGTAAAATGGGAATCACCAGAGTACACACCTCCTAGCATTGCTGTGGTGATTAAACAGGGAAC
AGCAGCCTGACCTCTCTGTGCTTCAGTTCCCTTCCCTGGGAAATGGCGATAGTGACAGCCACACCCACATCATAG
GGTCACATAAATCAGTTTACACTGAGCACTGAGAACGGCCCCCTGATTCACTGTGAGCAACATGCAGGTGTTAGCT
GTGATTATTACTGTTTTTTTAATTAAAGGAGATCGTGTCTGTAATAGGTTGGCACGGCGCCTGGCACCAAGTAAG
TGCCAGGACATGAGCTGTTCTAATAACTGGGTAAGGCATGGAATCCAGGATTCCGCCACCCACCTGCTCTCCCA
TCCCTGTTCTGCTTATTGCGCATGCGGCCCCAGGCAGGTAAGTGCCTCTCTCTGGGCCACTCTGAATAGGACCTGG
CCCACAGGAAGCCCATTTGTAAATTTTAGCTCTTCTTGATEACAGTAAGTGTGAGTTAATAATAACATATAAGAGC
ATAATAAAGGATGGTTGGCCACGTGTAATGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGCGGTGGGAGG
ATCATTTGAGCTCAGGACTTCCAGACCACCTGGGCAACATAGTGAGACCTTGTCTCTACTAAACATAATAACAG
TAATAATTAGCTGGGCACAGTGGCACATATCTGTAGTCCCAGCTATTAGGAGGCAGGAGGATGGCTTGAGCTCG
GGAGGTTGATGCTGCAGTGAGCCGTGAGAGTGCCACTACACTCCAGCCTGGGCTACAGAACAAGACCCTGTCTC

4304/5332
FIGURE 3745

ATGAGGCGCTGCCCGTGCCGTGGGAGCCTGAACGAGGCGGAGGCCGGGGCGCTGCCCGCGGCGGCCCGCATGGGA
CTGGAGGCGCCGCGAGGAGGGCGGGCGGCAGCCGGGACAGCAGCGACCTGGGCCCCGGCGCAGGGGCCCCGGCG
GGGCGGCCGAGGGGGGCGGGCCCTGGGCCCCGACAGAGGGGTCCAGCCTCCACAGCGAGCCTGAGAGGGCCGGC
CTCGGGCCTGCGCCGGGGACAGAGAGTCCGACAGGCAGAATTCTGGACAGACGGACAGACTGAGCCCGCGGCAGCT
GGCCTTGAGTAGAGACCGAGAGGCCCAAGCAAAAGACGGAGCCAGACAGGTCCAGCCTCCGGACGCATCTAGAA
TGGAGCTGGTCAGAGCTGGAGACGACTTGTCTTTGGACGGAGACCGGGACAGATGGCCTTTGGACTGATCCGCAC
AGGTCCGACCTCCAGTTTTCAGCCCCGAGGAGGCCAGCCCCCTGGACACAGCCAGGGGTTTCATGGGCCCTGGACAGAG
CTGGAAACGCATGGGTACAGACTCAGCCAGAGAGGGTCAAGTCTGGGCTGATAACCTCTGGACCCACCAGAAC
AGTTCCAGCCTCCAGACTCAGCCAGAGGAGCCTGTCCCTCAAAGAGCCAAGTGCTGATGGCTCCTGGAAAGAA
TTGTATACTGATGGCTCCAGGACACAACAGGATATTGAAGGTCCCTGGACAGAGCCATATACTGATGGCTCCAG
AAAAACAGGATACTGAAGCAGCCAGGAAACAGCCTGGCACTGGTGGTTTCAAATACAACAGGATACTGATGGC
TCCTGGACACAACCTAGCACTGACGGTTCCAGACAGCACCTGGGACAGACTGCCTCTTGGGAGAGCCTGAGGAT
GGCCCATTAGAGGAACCAGAGCCTGGAGAATTGCTGACTCACCTGTACTCTCACCTGAAGTGAGCCCCCTGTGC
CCTGTGCCCCGCTCATCATTACCCCTGAGACCCCTGAGCCTGAGGCCAGCCAGTGGGACCCCCCTCCCGGTT
GAGGGGGGCAGCGGCGCTTCTCTCTGCCTCTTCTTTGACGAGTCTGAGGATGACGTGGTGGCCGGGGCGGA
GGTGCCAGCGATCCCGAGGACAGGTCTGGGAGCAAACCTGGAAGAAGCTGAAGACAGTTCTGAAGTATTACCC
TTTGTGGTCTCCTTCCGAAAACACTACCCTTGGGTCCAGCTTCTGGACATGCTGGGAACCTCCAGGCAGGAGAG
GATGGTGGATTCTGAAACGTTTCTGTGAGTGTGAGCAGCGCAGCCTGGAGCAGCTGATGAAAGACCCGCTGCGA
CCTTTCTGTGCCTGCCTACTATGGCATGGTGTGTCAGGATGGCCAGACCTTCAACCAGATGGAAGACCTCCTGGCT
GACTTTGAGGGCCCTCCATTATGGACTGCAAGATGGGCAGCAGGACCTATCTGGAAGAGGAGCTAGTGAAGGCA
CGGGAACGTCCCCGTCCCCGGAAGGACATGTATGAGAAGATGGTGGCTGTGGACCCTGGGGCCCTACCCCTGAG
GAGCATGCCCAGGTGTCAGTCAACAAGCCCCGCTACATGCAGTGGAGGGAAACCATGAGCTCCACCTCTACCCCTG
GGCTTCCGGATCGAGGGCATCAAGAAGGCAGATGGGACCTGTAACACCAACTTCAAGAAGACGCAGGCACTGGAG
CAGGTGACAAAAGTGCTGGAGGACTTCGTGGATGGAGACCACGTCATCCTGCAAAAGTACGTGGCATGCCTAGAA
GAACTTCGTGAAGCTCTGGAGATCTCCCCCTTCTTCAAGACCCACGAGGTGGTAGGCAGCTCCCTCCTCTTCGTG
CACGACCACACCGGCTGGCCAAGGTCTGGATGATAGACTTCGGCAAGACGGTGGCCTTGCCCGACCACCAGACG
CTCAGCCACAGGCTGCCCTGGGCTGAGGGCAACCGTGAGGACGGCTACCTCTGGGGCCTGGACAACATGATCTGC
CTCCTGCAGGGGCTGGCACAGAGCTGA

4305/5332
FIGURE 3746

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAAC TAGGCCATTTTCCCTGCCAGGTGTCCTTTTGGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAAC TCGGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAACCTCACTCATGAGTT
TCCACATCCAGCCCCAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAACCCAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCCAACCCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCTGCTCCCGTGGTTTTCAAATATTAGCCCTGGTCTTTTACACCCCACTGCTCAGTCCCCAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAAATGACTTCTCCATGCTCTCTCCCTAAAACCAATTTCTCC
TCCAAAAACCCCTGTACCCCAAGCCAGCAGCATTCCATCTCTCTCTACCCCAAGTCCCCTGGACTTTTTCAGC
TTTACCATCCCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCCTCCCACTGCTCTCTCCACCCGCTGCCAC
AGGGCCTGCTCCCCGTCATGCTCTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCTCTTCTGTGCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTA CTCTCTGTGCGCCCCCAGTGGCGTCCCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTGAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGCTGGGTGTTGCGGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCCTGTTCCACCCAGTGTGTTGGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACAGGTCCGG
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGCCCGTGGGT
GGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCTGTAAGGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTGCTCCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTGTATTTTGTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAATCCTGACCTTGAGTAATCCACCCGCCCTCGGCCTCCCAAAGTCTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTTCTAACCAGTGATCAGGGTAAGAGGATGCGTGTCCACC
ATCCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCCAGCCAGGGCTTGGAGCAGCCTTGCTCACCCTGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAACCTGCTCATTATCCTGTTACCCCAACCAGCCACGTGTCCAATACACTCCAGATG
CAAAATAAAAAGCTCTACGACA

4306/5332
FIGURE 3747

CCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAACCCAGGGCTAA
AGTCACGTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTAACCAC
ACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCTTCTCC
CAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTCATCTTCAAG
GAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTATCCAG
TATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGGAGAAG
AGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGGAGCCACCCCGTGGTGGGG
GCTGTCCAGGGGCCTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGGGCCAG
CCGCCCTACATGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGCACCTGGCCAGATCCCACCAGGGGCCATG
CCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACATCTTG
TTCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCTTCAAG
GAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGGCAGCT
CGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGCACCTT
TTCCCCCATGCCTGCCCCCTTCCCTGTTCCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGGTAAGT
CCCCCCTTGGGGGCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCTGTCCC
CAGACATTGCACCTGGCGCTGTTAGGCCGAATTAAAGTGGCTTTTTTGAGGTTTGGTTTTTCAC

4307/5332
FIGURE 3748A

GTGTGAGTCCCATGTGCTTGGTGGGAGGCGCTGTGTGAGAAATGTACAGGGCAGGAGGAAACATAGCAGGGCTGGG
GTGCAGAGGAGGCCAGAGCAGTGCCTCAGTCTGCAGGTACTGCCTGGGACTGGGGAGACCAACCTGGCCC
CAGGGGCTTCCCTGTGGCTGCCTTCCAGGGCAGTACTAGGTAAACAGGTGCCTGTGCTGATGCCATGTTGCTAGG
AGTGGAACGGACAATCAGCCGGAGTACTCAAGGTGACCCTTGGTCTCTGAATCCTGAATAACAAAGAGGGTCAGA
AGGAAGAGTGTCCAGGCCAGTGTGAGGCCCTTGTGGTGGCGATGAGCTCAGCCTGTTGAGGCATGGAGCAGAGT
GATGGGAGAGGCACATGAGGTTGGGGGCCTTTGAGGCTGTGGTTGGGAATTTGTATTTTCTCAGGATGGAGTGAA
GACCTGGAGAGGAGGGGCTCTGGCTGCTGTGTGGGATGAATTTGTGGGAAGAGGGTGCAGCACTGGACCCCTTCC
CTGCCACCCATCCACGTGCATCATCAGTGTAATCTCTGATTGGATTCTTAATTGGGGAGGTCTTGCCCATCTCTA
GTCAGTAACCTACTGTTTCTAAGCCTCCTGGACCATGGCCCAATTCTTCTCCAGTGAGGTGGTTGCTCAGAGTG
CCGACCCCTTCCATAGGGAGTGAGCAGTGCAAAGAAGGTGCCCCCTCCTGAACCTTGAAGTGTAGCCATTAGGGTT
TTCCCTGGGGGGCCTTCTCACTAATTGTACTCTGGTGTGCCAGAGAGAAGGTTGTGAGCTTCCCACTGCTAGGT
GGCAGTAGATGGTGGCAGCCCTCTCTTTCCAGGGCAAGGTCTGGTGGATGAGGTGCACATGGTTAATGCAGAGCA
GCTTAACATCCACCACAGAGGGTGAGCCCTGGGATAATGTGTTGGGAGGCGTCTGGGGAGGGTGAGGATTGAAG
CAGCCCAGTCTGCTGTGGCGTGCCTGCTGGCAAGCATCCTGTTGTGGCAGTGGCCACTGATGTTTGATCGTGAA
TGTTTATCTTGGGACTGTCTTGTCTGGGCCGGGCCCATAGGTGTAGCTGAGCATTCTGGGGAATGGACGCCAGCA
GAGTTGTACCAGGGCAGAGAGGTGAGGGCAGAGAGGTCAAGACAGATGGTCCGGGCTGGGGAGAAGTTGAAGGGT
CCTTGTGCCAGTCTCCCTTTTGTGTGCTACCTCATCTTGGCCACTGCAGTGACTTTGGGCAGAGGGTGGGACA
GGGACCTTTTAAATTTTAAATGGCATTTCAGCCTGTGCTCCAGTCTCCATGTGGCAGGCAGTGTGCTGGCTG
TCTTCCCAGACACTTGTATCTTGTTCACCTGTTCCACAACAACCTGTGAAATAGCTGTGAGCTCCATTGGATCC
ATGGATGAGGAACCTGAGACCAGGAAGTCACCTGCCTGATGCCACAGCTCATGTGGCAGCACTGAGACTTGAACC
AGGGAATTGTGTCTGCAGAAGTGGCTGGGCCATTTCTTTACCTCTCAGCCACCTTTCTGCCAGCTCCCTGATGA
CAAACATCCCGGGGCCCTGGCCACAGCATTGTAGGGCTGGGTGAGGGGAGTGGCAACTGTCAGGCAGAGGAAAGA
ACCCTGTAGACAGAGAAACCAAGCCCTGCAATGAGTCTGTAGATCTCCAGGAGTTGGGGCTCCAGAACCTCCC
AAGTTATGTTCTCAGAGAGATTAATTGCTACCGCTGTAAACAGCAGTGTATTATTACCCCTGCTGTACACATCAGG
CAGTTGAGGGCCATTGAGGTGTTGGAAGTGGCTAGGGTTACCCAGCAAATTATCCTTGGAGTTGGAATTAGGTCT
TTCTATTTCAGACTGTAGCTTTTGGCTCCTGTTCCGGAGGTCTATGGGACAGATAATTTAGTGGGGATTCTTTGTAG
TCCAGGGCAGCAGTTCCTTAACATTGCTGCATGGTAGAATTACCTGGGAAGCTTTACCAATTTAGGCCCTTCCCTT
AGGCCAGGTACTTCAGAACCTCAGAGCTCCCCAGGGGGCTCCACTCCACAGCCAAGGGTAAGAATTCCTGGTCTA
GGGCTGTGAGGCCACCTCCTTGACACCTGAAAATGTTTAAATTGGTATTATTCTACTGAAATGGCTGAGGTGGG
GTTTGGGGTATCTTGAACAAATCAAACCTCTGTTACTAATTGAGCCCTAGCTGGGTGCCAGGCCCCAGGTATGTG
TGTTGGGAGGGAGTGGGCTCTTGAGGGCCAGGAGCTGAGGTTTCTGATAGACTTGGGGATGGGATTTTGGCTGAA
AAAGAAAGTCTTTTGGGGCAGGAGCTTGAACCCCTTGACCAAGGAGTCATGGGGAAGATGGGGCAAGGAGGGGT
GGGAAATAGGTAATTATGGCTGCTTCTCTAAGATGTGCTGCCCTAGCCCCAGTAAACCTACCTCCCTCCATCC
CTGCCAGGCCATGGTGGCGTGTACCCAGGCAACGGGCTCGGGTACGTAAGGCACGTTGACAATCCCCACGGCGA
TGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAACTGGGACGTTAAGGTAGGGGTGAGGGTGAGGGTGAG
GGTGGCGCTGGGGCTAGGGCTGGGGCGGGGGTGGCGTGCCTCCACTCCATTTTCCACTCTCAGCCAGATTCTGG
CATTCTCCTGTTTCTTCTCAACACACAGCGGCAGTGCATCTGCCGGCTCTTCTGGGAAATGGCACCTCCT
CCTCTCTAGCGGACTGTGTGGTGGGAACTCCCTCTTTCCGGGAATGGTGTGCTGTGCTGCCAGCCCCACCGGCCT
TGTAATGAACACTTTCCCTTTTCCCTGTCTTTAGTAGCTTCTGCCCATCTCCATGGGTGATGCAGTCTCTGGGT
TGTCATTCACTTTGAGAGCCCCAGGGGTGGGAGGAGTGATGCAGGCAGACGCTGCGCCTCCTAGTGGGCTCCCG
GGCACCCTGGGAGGCAGCGGCTCCTGGCCGTACCAGCTAGCCTCATCTTTGGCCTGCCCCAGGTGCATGGCG
GCCTGCTGCAGATCTTCCCTGAGGGCCGGCCCGTGGTAGCCAACATCGAGCCACTCTTTGACCGGTTGCTCATT
TCTGGTCTGACCGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGTATT
TTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGCTAGCATCAGGACAGAAAGGTGTCCAAGTACCTG
TATCAGAGCCGCTACGCCCACCTAGTGGCCAGTCCAGAGCCGATGGCAGACAGCTTAAATGACTTCAGGAGA
GCCCTGGGCTGTGCTGGCTGCTCCTTCCCTGCCACCGCTGCTGCTTCTGACTTTGCCTCTGCTGCTGCTGGTGT
GGAGGGCTCTGTCTGTTGCTGAGGACCAAGGAGGAGAAGAGACCTTTGCTGCCCCATCATGGGGGCTGGGGTTGT
CACCTGGACAGGGGGCAGCCGTGGAGGCCACCGTTACCAACTGAAGCTGGGGGCTGGGTCTACCTGTCTGGT

4308/5332

FIGURE 3748B

CATGACCCCATAGGTATGGAGAGCTGGGAGGAGGCATTGTCACCTCCACCAGGATGCAGGACTTGGGGTTGAG
GTGAGTCATGGCCTCTTGCTGGCAATGGGGTGGGAGGAGTACCCCAAGTCCTCTCACTCCTCCAGCCTGGAATG
TGAAGTGA CTCCCAACCCCTTTGGCCATGGCAGGCACCTTTTGGACTGGGCTGCCACTGCTTGGGCAGAGTAAA
AGGTGCCAGGAGGAGCATGGGTGTGGAAGTCCTGTCAGCCAAGAAATAAAAGTTTACCTCAGAGCTGCA

4309/5332
FIGURE 3749A

GAGTGGAGTTCTGGAGGAATGTTTACCAGACACAGAGCCCAGAGGGACAGCGCCAGAGCCCGGATAGAGAGACA
CGGCCTCACTGGCTCAGGACAGGGGGCACAGCCACCAGGGTCCCCCTCCCCCTCCTCAGCTCCCTCCCTGGCCCC
TTTAAGAAAGAGCTGATCCTCTCCTCTCTTGAGTTAACCCTGATTGTCCAGGTGGCCCCCTGGGCTCTGGCCCTG
GTGGGCGGAGGCAAAGGGGGAGCCAGGGGCGGAGAAAGGGTTGCCCAAGTCTGGGAGTGAGGGAAGGAGGCAGGG
GTGCTGAGAAGGCGGCTGCTGGGCAGAGCCGGTGGCAAGGGCCTCCCTGCCGCTGTGCCAGGCAGGCAGTGCCA
AATCCGGGGAGCCTGGAGCTGGGGGGAGGGCCGGGGACAGCCCGGCCCTGCCCTCCCTCCCTGGGAGCCCAAC
AACTTCTGAGGAAAGTTTGGCACCCATGGCGTGGCGGTGCCCCAGGATGGGCAGGGTCCCGCTGGCCTGGTGCTT
GGCGCTGTGCGGCTGGGCGTGTCATGGCCCCAGGGGCACGCAGGCTGAAGAAAGTCCCTTCGTGGGCAACCCAGG
GAATATCACAGGTGCCCGGGGACTCACGGGCACCCCTTCGGTGTGAGCTCCAGGTTTCAGGGAGAGCCCCCGAGGT
ACATTGGCTTCGGGATGGACAGATCCTGGAGCTCGCGGACAGCACCCAGACCAGGTGCCCTGGGTGAGGATGA
ACAGGATGACTGGATAGTGGTCAGCCAGCTCAGAATCACCTCCCTGCAGCTTCCGACACGGGACAGTACCAGTG
TTTGGTGTCTTGGGACATCAGACCTTCGTGTCCAGCCTGGCTATGTTGGGCTGGAGGGCTTGCTTACTTCCT
GGAGGAGCCCGAAGACAGGACTGTGGCCGCCAACCCCCCTTCAACCTGAGCTGCCAAGCTCAGGGACCCCCAGA
GCCCGTGGACCTACTCTGGCTCCAGGATGCTGTCCCCCTGGCCACGGCTCCAGGTCACGGCCCCCAGCGCAGCCT
GCATGTTCCAGGGCTGAACAAGACATCCTCTTCTCCTGCGAAGCCCATACGCCAAGGGGGTACCACATCCCG
CACAGCCACCATCACAGTGCTCCCCAGCAGCCCCGTAACCTCCACCTGGTCTCCCGCCAACCCACGGAGCTGGA
GGTGGCTTGGACTCCAGGCCTGAGCGGCATCTACCCCTGACCCACTGCACCCTGCAGGCTGTGCTGTCAAACGA
TGGGATGGGCATCCAGGCGGGAGAACCAGACCCCCCAGAGGAGCCCCCTACCTGCAAGCATCCGTGCCCCCCCA
TCAGCTTCGGCTAGGCAGCCTCCATCCTCACACCCCTTATCACATCCGCGTGGCATGCACCAGCAGCCAGGGCCC
CTCATCCTGGACCCACTGGCTTCTGTGGAGACGCCGGAGGGAGTGCCCTGGGGCCCCCTGAGAACATTAGTGC
TACGCGGAATGGGAGCCAGGCCTTCGTGCATTGGCAAGAGCCCCGGGCGCCCCCTGCAGGGTACCCTGTTAGGGTA
CCGGCTGGCGTATCAAGGCCAGGACACCCCAGAGGTGCTAATGGACATAGGGCTAAGGCAAGAGGTGACCCTGGA
CCTGCAGGGGGACGGGTCTGTGTCCAATCTGACAGTGTGTGTGGCAGCCTACACTGCTGCTGGGGATGGACCCTG
GAGCCTCCCAGTACCCCTGGAGGCCTGGCGCCAGGGCAAGCACAGCCAGTCCACCAGCTGGTGAAGGAACCTTC
AACTCCTGCCTTCTCGTGGCCCTGGTGGTATGTACTGCTAGGAGCAGTCGTGGCCGCTGCCTGTGTCTCATCTT
GGCTCTCTTCTTGTCCACCGGCGAAAGAAGGAGACCCGTTATGGAGAAGTGTGTTGAACCAACAGTGGAAGAGG
TGAAGTGGTAGTCAGGTACCGCGTGCAGCAAGTCTACAGTCGTGGACCACTGAAGCTACCTTGAACAGCCTGGG
CATCAGTGAAGAGCTGAAGGAGAAGTGCAGGATGTGATGGTGGACCGGCACAAGGTGGCCCTGGGGAAGACTCT
GGGAGAGGGAGAGTTTGGAGCTGTGATGGAAGGCCAGCTCAACCAGGACGACTCCATCCTCAAGGTGGCTGTGAA
GACGATGAAGATTGCCATCTGCACGAGGTTCAGAGCTGGAGGATTTCTGAGTGAAGCGGTCTGCATGAAGGAAT
TGACCATCCCAACGTATGAGGCTCATCGGTGTCTGTTTCCAGGGTTCTGAACGAGAGAGCTTCCAGCACCTGT
GGTCATCTTACCTTTTATGAACATGGAGACCTACACAGCTTCTCTCTTATCCCGGCTCGGGGACCAGCCAGT
GTACCTGCCCCACTCAGATGCTAGTGAAGTTCATGGCAGACATCGCCAGTGGCATGGAGTATCTGAGTACCAAGAG
ATTATACACCGGGACCTGGCGGCCAGGAAGTGCATGCTGAATGAGAACATGTCCGTGTGTGTGGCGGACTTCGG
GCTCTCCAAGAAGACTACATAATGGGGACTACTACCGCCAGGGACGTATCGCCAAGATGCCAGTCAAGTGGATTGC
CATTGAGAGTCTAGCTGACCGTGTCTACACCAGCAAGAGCGATGTGTGGTCTTCGGGGTGACAATGTGGGAGAT
TGCCACAAGAGGCCAAACCCCATATCCGGGCGTGGAGAACAGCGAGATTTATGACTATCTGCGCCAGGGAAATCG
CCTGAAGCAGCCTGCGGACTGTCTGGATGGACTGTATGCCCTTGATGTGCGGCTGCTGGGAGCTAAATCCCCAGGA
CCGGCCAAGTTTTACAGAGCTGCGGGAAGATTTGGAGAACACACTGAAGGCCTTGCCCTGCCCAGGAGCCTGA
CGAAATCCTCTATGTCAACATGGATGAGGGTGGAGGTTATCCTGAACCCCTGGAGCTGCAGGAGGAGCTGACCC
CCCAACCCAGCCAGACCCCTAAGGATTCTGTAGCTGCCTCACTGCGGCTGAGGTCCATCCTGCTGGACGCTATGT
CCTCTGCCCTTCCACAACCCCTAGCCCCGCTCAGCCTGCTGATAGGGGCTCCCCAGCAGCCCCAGGGCAGGAGGA
TGGTGCCCTGAGACAACCCCTCCACCTGGTACTCCCTCTCAGGATCCAAGCTAAGCACTGCCACTGGGGAAAACCTCC
ACCTTCCCACTTTCCACCCACGCCTTATCCCCACTTGCAGCCCTGTCTTCTTACCTATCCCACTCCATCCCA
GACAGGTCCCTCCCTTCTCTGTGTCAGTAGCATCACCTGAAAGCAGTAGCATCACCATCTGTAAAGGAAGGGG
TTGGATTGCAATATCTGAAGCCCTCCCAGGTGTTAACAATCCAAGACTCTAGAGTCCAAGGTTTAAAGAGTCTAG
ATTCAAAGGTTCTAGGTTTCAAAGATGCTGTGAGTCTTTGGTTCTAAGGACCTGAAATCCAAGTCTCTAATTC
TATTAAAGTGCTAAGGTTCTAAGGCCTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATAGAGTCTCAC

4310/5332
FIGURE 3749B

TGTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCTCGCCTCACTGCAACCTTCACCTACCGAGTTCAAGTGATTT
TCCTGCCTTGGCCTCCCAAGTAGCTGGGATTACAGGTGTGTGCCACCACACCCGGCTAATTTTTATATTTTAGT
AGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTAAACTCCTGACCTCAAGTGATCTGCCACCTCAGCCTC
CCAAAGTGCTGAGATTACAGGCATGAGCCACTGCACTCAACCTTAAGACCTACTGTTCTAAAGCTCTGACATTAT
GTGGTTTTAGATTTTCTGGTTCTAACATTTTTGATAAAGCCTCAAGGTTTTAGGTTCTAAAGTTCTAAGATTCTG
ATTTTAGGAGCTAAGGCTCTATGAGTCTAGATGTTTATTCTTCTAGAGTTCAGAGTCCTTAAAATGTAAGATTAT
AGATTCTAAAGATTCTATAGTTCTAGACATGGAGGTTCTAAGGCCTAGGATTCTAAAATGTGATGTTCTAAGGCT
CTGAGAGTCTAGATTCTCTGGCTGTAAGGCTCTAGATCATAAGGCTTCAAAATGTTATCTTCTCAAGTTCTAAGA
TTCTAATGATGATCAATTATAGTTTCTGAGGCTTTATGATAATAGATTCTCTTGATAAGATCCTAGATCCTAAG
GGTCGAAAGCTCTAGAATCTGCAATTCAAAAGTTCCAAGAGTCTAAAGATGGAGTTTCTAAGGTCCGGTGTCTA
AGATGTGATATTCTAAGACTTACTCTAAGATCTTAGATTCTCTGTGTCTAAGATTCTAGATCAGATGCTCCAAGA
TTCTAGATGATTAAATAAGATTCTAACGGTCTGTTCTGTTTCAAGGCACTCTAGATTCCATTGGTCCAAGATTCC
GGATCCTAAGCATCTAAGTTATAAGACTCTCACACTCAGTTGTGACTAACTAGACACCAAAGTTCTAATAATTTT
TAATGTTGGACACCTTTAGGTTCTTTGCTGCATTCTGCCTCTCTAGGACCATGGTTAAGAGTCCAAGAATCCACA
TTTCTAAAATCTTATAGTTCTAGGCACTGTAGTTCTAAGACTCAAATGTTCTAAGTTTCTAAGATTCTAAAGGTC
CACAGGTCTAGACTATTAGGTGCAATTTCAAGGTTCTAACCCTATACTGTAGTATTCTTTGGGGTGCCCTCTCC
TTCTTAGCTATCATTGCTTCCTCCTCCCAACTGTGGGGGTGTGCCCCCTTCAAGCCTGTGCAATGCATTAGGGA
TGCCTCCTTTCCCGCAGGGGATGGACGATCTCCACCTTTCGGGCCATGTTGCCCCCGTGAGCCAATCCCTCACC
TTCTGAGTACAGAGTGTGGACTCTGGTGCCTCCAGAGGGGCTCAGGTCACATAAACTTTGTATATCAACGA

4311/5332
FIGURE 3750

CGGACGAGGCACGAGTGAGGGGGAGGCGGTGGCGGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGCTCGG
GGGCCACCCCGGGGGCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCGGGCACATCAACGAGGAGGTGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCGCCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAAATGGAGCAGCAGCAGGCCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCCTCCCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAGAGGCCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCTTGTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCGAAGAGCCTTTCTCTATGGCTATGGAGGCACTGGGAAGAAGTCCACCAATAGCCGGTTTGAAA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTGAATGTGGAATGACGTGGAAC
TGTCTTTTACCAAGAATGGAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTGCTGGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCCTCCCGGGGTTTACCTTCATCCAGCACCTTCCCTTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGGCAGCGGAACTATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCAGCAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTGAGCCAGAGACGAAAAA
TGAGACCATTTGAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCACTGACGAGGACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACCTTCACGTTGC
CAGATGTTGGGGACTTCTGGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCGCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCAACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCTACAACAGGAGGTTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACATATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCCAACCGCCACCCCACTGCACAGACCTACCCTCAGCCAGCTATAACAGTATCAGC
AGTATGCCCAGCAGTGAACACAGTACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGTTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCTCCACCAGCGCCTGCCTCGGCCCTCCTCTGCCCCGCCAGATCCCGTGGTGCTGGGGATGGGG
TCATCCAGGGCTGCCTCCCTCCAGCCCACTGCCTCCCCCTCTGAGGGGCTTCTTCCCTCCATAGGGCCAGGCA
TTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTTGACTAAATAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAATCCCCTCCTGTTCACTCTCCAACCTGCTCCAGCCCTCAGCTTCCAGACCTCATGCAGTT
GGTTGTAATTTCTCCAGGAGCTGTTTTACTGTCTACTTTTTCAGGATTAAAAAATACTAAAAAATAAAAAA
AAAAGTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTTAGAATTTGTCTTTTACTGTGGGTGGGCTGTTGATATTTTCATCAAGATAAGCATTCTTCTCCTGAGTTTCAG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

4312/5332
FIGURE 3751

GCCTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGGCGAAAGTGTCTCTTGCGTGCCTGGGCGGAGGT
TAGTGTGCGGGGCGCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGAGAGCCGTGGCGACGGCGACGGCGG
CGAAGGAACCCGATAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCACTCCCAT
CTAAACCCAGGACAAAGTGAAGCAGCTGAGGCAACACCACTGGCCCTGGACAGTGACACCTCCGGGGCTGAAA
ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCCTGTTTGCAGCCAGCAGCAGGGTGAAAC
CCGACTTGACAGAGCATGAGAAAGTGGCCATCCTGGCCCACTGTACCACGAGAAGCCACTGGTGTTCTGGAGC
GCTTCCGCACAGGCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCACCGTGCAGACTTCT
ACTGTGCTGAGGTGGCCCGGACGGGCACTGCCCGGCCCGCACCTGCGTACCGCCTGCGTAACCGGCGCTATG
CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT
ATGAGCAGTACATCGGGCAGTATCTCACCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACGACCCCCCAAGC
CCGGGTCCCCCGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCCCTACGAGGAGCGGGGACTACAGC
AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCGCTGCTTGGAGGAAGAGGAAGAGGAGGAGGACAGTGACAGG
AAGACCAGAGGTGACGGCAAGGACTCGGAGGCTGGGTTCCTGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT
TCACCAGCCGATGCACAGCGCTTCTTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
CGCCAGCCAGAGCTGGATGGGGACTGATGGCCGCCACCTTCCCACCGCTGCCCATCCCCATCCCCAACA
GGCAGCTGATTCCAGGCCTGCTCAGTGACCTTTCTCTAGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
ACCACCATCTACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCACTGTTTCTGGGGTTCCCTTTCTCATC
TCTCCCACCTGTCTCCTGCTCTGTCTTTCTGGTGTCTGTCTGGGCTTCTTCTGTCTCTTTCTGTCTTTCTG
TCTCTCTCCCTACCCCCGCTCCCTCTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTG
CCTTAGGCTCTGTCTCCACCGCAGGGCCCAAGGTGAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
CGTGGCTGGAAGTGGCCAGTTTGGTCCGCTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCGTGTCTGTCTG
CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCAGCTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
CTTCTGCTCAGCTCTGGGCCTCTTCTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTTCCCCCTT
CCTCAAACCTGGCTGCTATAGGCAGCAGAACCCTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
AGGCAGGGAGGATGGGGGAGCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
TGAGAGGGAGGGGGGACTCTACCTTCTCAGCCCCACAGCCCCCTCTGCCAACCACAATTTTCCCTTCCCTC
CGCCTTCCCTCTCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTATCATGGGTCTGAGTCATCCAC
ACACAGCCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGAGGGCCCCGCCCATGGAGCCCCCTGCCGCCCTGGGC
TAATGGGAGCCAGATGGCCGCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
CCCCACACCCGGCTCCTGCTCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC
AAGGGTACCAAGTCGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
CTGAAGGACCTCAAACTGCCTCCTGGAGTCCACGGTTCTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
ACCAGAATTAGAGCCAGACAGGGAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTGAGGCCGAGCGAAGTGCTGACACCGGGTTGGATCCT
CAGATGGCCCCATGAAGTAGTGAAGTGGGTCAAAGGAGGCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTAGAAACCACTTGGCTGTCTGGCCT
CTCAGGTGTGAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAGGGCTCCGTGCTAGCCACTGTCCGCGACACAGACAGGA
TCAGGTCACTTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCAGCAGTGCTATGCCCTAGGTACTACC
AATATCACTCCTCTATTTCCAGAGGAGGAGGAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTTACCTGCCGTGATTTGTGCCCATTTTTAAAGAGCAGAGGGC
CTGGGCCACAGGAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTCATTAAATTT
GTTTACAATATACTTTGCTAT

4313/5332
FIGURE 3752

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGACAGGGGGACGCCCCGTCCGGGGCACCCC
CCCCGGCTCTGAGCCGCCCGGGGGCCGGCCTCGGCCCGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCCGCCCCCGCCACTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGAAGCTTTTCCGTGCGGCTGGGAGCCGAGGCGCGGGACCTC
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCTCCCTTTGCCGCCGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCGCGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCGAGACCTCGGGGCGACCCCTGCACGCCGCTTCATCCCCGGCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCGAGCCCTGCAGGGGCGGGGCTCCCCACCACACAGCCCTGTTGCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTTGGCCGGCCGGCCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCG
GCCGCTGCCCCGAGGCCGCTGCTCGCCCTGTACAACAGCACCCGCGACCGGTGGCCGGGGAGAGTGCAGAACCGG
AGCCCCGAGCCTGAGGCCGACTACTACGCAAGGAGGTACCCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAGTGGAGCAGCACGTGGAGCTGT
ACCAGAAATACAGCAACAATTCCTGGCGATACCTCAGCAACCGGTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTACCGGAGTTGTGCGGCAGTGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTGCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCGCCGAGGTG
ACCTGGCCACCATTTCATGGCATGAACCGGCCTTTCTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAACTGCTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGCGAGGCGCTGGAGCCGCTGCCCATCGTGTACTACGTGG
GCCGCAAGCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCCCCCCGC
CCCCCCCCCGCCCGGCAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCTTGCCCATGGGGGCTGTATTTAAGG
ACACCCGTGCCCAAGGCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTATTGGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCCTGCCTG
TCTGCACTATTCTTTGCCCCGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCTTACATTAATGAATCATTGAGTCACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCCAGAGAGGTAAAGGGAGGAGTTCCTGCCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGTGGCTCAGC
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

4314/5332
FIGURE 3753

CCTCCACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGCAGGGGGGACGCCCCGTCCGGGG
CACCCCCCGGCTCTGAGCCGCCCGCGGGGCCGCCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCCAGACCGCCTCCCTTTGCCGCCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCATTCCGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCCTGCACGCCGCCTTCATCCCCGGCCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCCAGCCCTGCAGGATGTCCACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGG
AGGGGGGACGCCCCGTCCGGGGCACCCCCCGGCTCTGAGCCGCCCGCGGGGCCGGCCTCGGCCCGGAGCGGAGG
AAGGAGTCGCCGAGGAGGGACGAGCTGGTCGGGAGAAGAGGAAAAAACTTTTGAGACTTTTCCGTTGCCGCTGG
GAGCCGGAGGCGCGGGGACCTCTTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCT
CCCTTTGCCGCCGGGGACGCTTGCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCGGACCA
GCCCTCGGGAGTCGCCGACCCGGCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCCTGCACGCCGCC
TTCATCCCCGGCCTGTCTCCTGAGCCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGA
CCTGCCACAGATCCCCTATTCAAGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGG
ATACTGAGACACCCCGGTCCAAGCCTCCCTCCACCACTGCGCCCTTCTCCCTGAGGACCTCAGCTTTCCCTCG
AGGCCCTCCTACCTTTTGCCGGGAGACCCCAAGCCCTGCAGG

4315/5332
FIGURE 3754

CAGCCGCACGTGGGCTCGGCGCGATGGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGCTGCAGGTTGTGAGCGATGCCGGCTCTCTCTGGCCTGTTGTCTGAATGCCGCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCCGGCTCTCTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCTGGCTGCGGCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCCAGCCTTGCCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCTTGGCCTGTGACAGCCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTT

4316/5332
FIGURE 3755

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAATCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTCTGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCTGAAG
GAGCTCCAGTCCCTTGTGCTGCAGCGCTGCTGCCACGTGGACGACTGGTGTCTCAGCCGCCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCCTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTCT
ACCTGTCTCAGGCAGCCCTTTCCATGCCCTGTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTAGTAGCCGAG
AGAGCCCACTCACCTTGTCTCAGGAGACTCTTCTCAAACCTGTCTTATGTGAGTGCAGTGCCTTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTTCAGTTGGCTGTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGGTTGTGCTTCTGCC
TCTGGACGCCGAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACCAAGCGGTGAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCACTGTT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

4317/5332
FIGURE 3756

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCAATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG
ATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCTCCTTTTCGCCGCCCCCTCCTTCCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCCTACCCTGTCCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTTGAAATAAAGAACCAGTCC

4318/5332
FIGURE 3757

CCATGGGGTCCCTTTCAGCCTGTCCATACAGAGTGTGCATTCCCTGGCAGGGGCTCCTGCTCACAGCCTCGCTTT
TAACCTTCTGGAACCTGCCAAACAGTGCCAGACCAATATTGATGTCGTGCCGTTCAATGTGCGAGAAGGGAAGG
AGGTCCCTTCTAGTAGTCCATAATGAGTCCCAGAATCTTTATGGCTACAACCTGGTACAAAGGGGAAAGGGTGCATG
CCAACCTATCGAATTATAGGATATGTAAAAAATATAAGTCAAGAAAATGCCCCAGGGCCCGCACACAACGGTCGAG
AGACAATATAACCCCAATGGAACCCCTGCTGATCCAGAACGTCAACCCACAATGACGCAGGATTCTATACCCTACACG
TTATAAAAGAAAATCTTGTGAATGAAGAAGTAACCAGACAATTCTACGTATTCTCGGAGCCACCCAAGCCCTCCA
TCACCAGCAACAACCTTCAATCCGGTGGAGAACAAAGATATTGTGGTTTTAACCTGTCAACCTGAGACTCAGAACA
CAACCTACCTGTGGTGGGTAAACAATCAGAGCCTCCTGGTCAGTCCCAGGCTGCTGCTCTCCACTGACAACAGGA
CCCTCGTTCTACTCAGCGCCACAAAGAATGACATAGGAECCTATGAATGTGAAATACAGAACCCAGTGGGTGCCA
GCCGCAGTGACCCAGTCACCCCTGAATGTCCGCTATGAGTCAGTACAAGCAAGTTCACCTGACCTCTCAGCTGGGA
CCGCTGTGAGCATCATGATTGGAGTACTGGCTGGGATGGCTCTGATATAGCAGCCTTGGTGTAGTTTTCTGCATTT
CGGGAAGAGTGTTTTTATTATCCACCTGCAGACTGGACTGGATTCTTCTAGCTCCTTCAATCCATTTTTCTCCTG
TGGCATCACTAAGTATAAGACCTGCTCTCTCCTGAAGACCTATAAGCTGGAGGTGGACAACTCAATGTAAATTT
CAAGGAAAAACCTCATGCCTGAGATGTGGGCCACTCAGAGCTAACCAAAATGTTCAACACCATAACTAGAGACA
CTCAAATTGCCAACAGGACAAGAAGTTGATGACTTCATGCTGTGGACAGTTTTTCCCAAGATGTCCCAAGCCTC
ATCGTGACGAGGCTCTTATCCCACTCCATTTTTCCCTGCTCATGCCTGCCTCTTAATTTGGTAAGATAATGCTG
TAACTAGAATTTACAATCAGCGCCTTGTGCAGGTAATTTGACAGAGTGTGGATGTGTATGTATCATGTCAA
ACCCAAATATTTGACCTAAGGGATCCTTTATTCTGCCAGTGGCTAACTTTAACAACATCCCTAATACAACCTGTT
TATTCAAATGCACGGTGGTCCCTGTTAGAGTTAGACCTCTAGACTCACCTGTTCTCACGCCCTGTTTTAATTTAA
CCCAGCTATGGGATGCCAGATAACAGAATTGCTGCCTACTAGCTGAACAGGGAGGAGTTTGTGCAGTTGCTGACA
CTTCTTGTTGCACATAAATAAATACAGTGGGTACTATAGAGACTCAGTTGCAAAAATTAACAAATATGCTGCTTG
ATTAAAAATGGGTAGGCTTCTCATGTGGCTCATTCTTTAATCTATTCTCTTTTATTTGGTTTGGTTTCATGGGGTCT
CTGCCTATGGATCATACTTCAAACCTCTTGGTGTGATCCTCCTGATTGTCACAATATTAGTTACCCTGGTGTGCTG
TATTCTCTAAAACCTTTAAATGTTTGCATGCAGCCATTTCGTCAAATGTCAAATATTCTCTCTTTGGCTGGAATGA
CAAAAATCAAATAAATGTATGATTAGGAGGACATCATAACCTATGAATGATGGAAGTCCAAAATGATGGTAACT
GACAGTAGTGTTAATGCCTTATGTTTAGTCAAACTCTCATTTAGGTGACAGCCTGGTGACTCCAGAATGGAGCCA
GTCATGCTAAATGCCATATACTCACACTGAAACATGAGGAAGCAGGTAGATCCCAGAACAGACAAAATTTTCCTA
AAAACATGAGAGTCCAGGCTGCTGAGTCAGCACAGTAAGAAAGTCCTTTCTGCTTTAACTCTTAGAAAAAAGTA
ATATGAAGTATTCTGAAATTAACCAATCAGTTTATTTAAATCAATTTATTTATATCTTCTGTTCTCTGGATTCCC
ATTTTACAAAACCCACTGTTCTACTGTTGTATTGCCAGTAGGAGCTATCACTATATTTGCAGAATGGAACTG
CCCTGACTCATGAATCACAATAAAAGCCAATTGTATCT

4319/5332
FIGURE 3758

CTCAGGGCAGAGGGAGGAAGGACAGCAGACCAGACAGTCACAGCAGCCTTGACAAAACGTTCTTGGAACCTCAAGC
TCTTCTCCACAGAGGAGGACAGAGCAGACAGCAGAGACCATGGAGTCTCCCTCGGCCCTCCCCACAGATGGTGC
ATCCCCTGGCAGAGGCTCCTGCTCACAGCCTCACTTCTAACCTTCTGGAACCCGCCACCCTGCCAAGCTCACT
ATTGAATCCACGCCGTTCAATGTGCGAGAGGGGAAGGAGGTGCTTCTACTTGTCACAATCTGCCCCAGCATCTT
TTTGGCTACAGCTGGTACAAAGGTGAAAGAGTGGATGGCAACCGTCAAATTATAGGATATGTAATAGGAACCTCAA
CAAGCTACCCCAGGGCCCGCATACAGTGGTCGAGAGATAATATACCCCAATGCATCCCTGCTGATCCAGAACATC
ATCCAGAATGACACAGGATTCTACACCCTACACGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGCCAG
TTCCGGGTATACCCGGAGCTGCCCCAAGCCCTCCATCTCCAGCAACAACCTCCAAACCCGTGGAGGACAAGGATGCT
GTGGCCTTCACCTGTGAACCTGAGACTCAGGACGCAACCTACCTGTGGTGGGTAAACAATCAGAGCCTCCCGGTC
AGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATTCAATGTCAACAAGAAATGACACAGCAAGC
TACAAATGTGAAACCCAGAACCAGTGAAGTCCAGGCGCAGTGATTCACTCATCCTGAATGTCTCTATGGCCCG
GATGCCCCCACCATTTCCTCTAAACACATCTTACAGATCAGGGGAAAATCTGAACCTCTCCTGCCACGCGAGCC
TCTAACCCACCTGCACAGTACTCTTGGTTTGTCAATGGGACTTTCAGCAATCCACCCAAGAGCTCTTTATCCCC
AACATCACTGTGAATAATAGTGGATCCTATACGTGCCAAGCCCATAACTCAGACACTGGCCTCAATAGGACCACA
GTCACGACGATCACAGTCTATGCAGAGCCACCCAAACCCTTCATCACCAGCAACAACCTCCAACCCCGTGGAGGAT
GAGGATGCTGTAGCCTTAACCTGTGAACCTGAGATTGAGAACACAACCTACCTGTGGTGGGTAAATAATCAGAGC
CTCCCGGTGAGTCCCAGGCTGCAGCTGTCCAATGACAACAGGACCCTCACTCTACTCAGTGTCAAGGAATGAT
GTAGGACCCTATGAGTGTGGAATCCAGAACAATAAGTGTGACCACAGCGACCCAGTCATCCTGAATGTCTC
TATGGCCCGACGACCCCAACCTTTCCCCCTCATACACCTATTACCGTCCAGGGGTGAACCTCAGCCTCTCCTGC
CATGCAGCCTCTAACCACCTGCACAGTATTCTTGGCTGATTGATGGGAACATCCAGCAACACACACAAGAGCTC
TTTATCTCCAACATCACTGAGAAGAACAGCGGACTCTATACCTGCCAGGCCAATAACTCAGCCAGTGGCCACAGC
AGGACTACAGTCAAGACAATCACAGTCTCTGCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCCAACCCC
GTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACCTGAGGCTCAGAACACAACCTACCTGTGGTGGGTAAAT
GGTCAGAGCCTCCCAGTCAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATTCAATGTCACA
AGAAATGACGCAAGAGCCTATGTATGTGGAATCCAGAACTCAGTGAGTGCAAACCGCAGTGACCCAGTCACCCTG
GATGTCTCTATGGGCCGGACACCCCATCATTTCCCCCCCAGACTCGTCTTACCTTTGGGAGCGAACCTCAAC
CTCTCCTGCCACTCGGCCTCTAACCCATCCCCGCGAGTATTCTTGGCGTATCAATGGGATACCGCAGCAACACACA
CAAGTTCTCTTTATCGCCAAAATCACGCCAAATAATAACGGGACCTATGCCTGTTTTGTCTCTAACTTGGCTACT
GGCCGCAATAATTCCATAGTCAAGAGCATCACAGTCTCTGCATCTGGAACCTTCTCCTGGTCTCTCAGCTGGGGCC
ACTGTGCGCATCATGATTGGAGTGCTGGTTGGGGTTGCTCTGATATAGCAGCCCTGGTGTAGTTTCTTCATTCA
GGAAGACTG

4320/5332
FIGURE 3759

ACAGCAGGGCCAACAGTACAGCAGCCCTGACCAGAGCATTCTGGAGCTCAAGCTCCTCTACAAAAGAGGTGGAC
AGAGAAGACAGCAGAGACCATGGGACCCCCCTCAGCCCCCTCCCTGCAGATTGCATGTCCCCTGGAAAGGAGGTCTCT
GCTCACAGCCTCACTTCTAACCTTCTGGAACCCACCCACCACTGCCAAGCTCACTATTGAATCCACGCCGTTCAA
TGTCGCAGAGGGGAAGGAGGTTCTTCTACTCGCCCAACAACCTGCCCCAGAATCGTATTGGTTACAGCTGGTACAA
AGGCGAAAGAGTGGATGGCAACAGTCTAATTGTAGGATATGTAATAGGAACTCAACAAGCTACCCAGGGCCCGC
ATACAGTGGTCGAGAGACAATATACCCCAATGCATCCCTGCTGATCCAGAACGTCACCCAGAATGACACAGGATT
CTATACCCCTACAAGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACCGGACAGTTCCATGTATACCCGGAGCT
GCCCAAGCCCTCCATCTCCAGCAACAACCTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACC
TGAGGTTTCAAGACACAACCTACCTGTGGTGGGTAAATGGTCAGAGCCTCCCGGTCAGTCCCAGGCTGCAGCTGTC
CAATGGCAACATGACCCTCACTCTACTCAGCGTCAAAAGGAACGATGCAGGATCCTATGAATGTGAAATACAGAA
CCCAGCGAGTGCCAACCGCAGTGACCCAGTCACCCTGAATGTCCTCTATGGCCCAGATGGCCCCACCATTTCCTCC
CTCAAAGGCCAATTACCGTCCAGGGGAAAATCTGAACCTCTCCTGCCACGCAGCCTCTAACCACCTGCACAGTA
CTCTTGGTTTATCAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAG
CGGATCCTATATGTGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTC
TGGAAAGTGCTCCTGTCTCTCAGCTGTGGCCACCGTCGGCATCACGATTGGAGTGCTGGCCAGGGTGGCTCTGAT
ATAGCAGCCCTGGTGTATTTTCGATATTTTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTC

4321/5332
FIGURE 3760

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGAAGTGAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT
GATGACCGTGAAGTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTTAA

4322/5332
FIGURE 3761

GTACTTTCGCCATCATAGTATTCTCCACCACTGTTTCCTTCCAGCCACGAACGACGCAAACGAAGCCAAGTTCCCC
CAGCTCCGAACAGGAGCTCTCTATCCTCTCTCTATTACACTCCGGGAGAAGGAAACGCGGGAGGAAACCCAGGCC
TCCACGCGCGACCCCTTGGCCCTCCCCTTTACCTCTCCACCCCTCACTAGACACCCTCCCCTCTAGGCGGGGACG
AACTTTCGCCCTGAGAGAGGCGGAGCCTCAGCGTCTACCCCTCGCTCTCGCGAGCTTTCGGAACCTCTCGCGAGACC
CTACGCCCGACTTGTGCGCCCGGGAACCCCGTCGTTCCCTTTCCCCTGGCTGGCAGCGCGGAGGCCGCACGATG

CCTGGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGG
AAGCTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAAC
TGGTTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACC
AAGATCTATGGGGGACGTCAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGC
CGGGTCTTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACCTGACACCTCAG
GGACAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGG
GTTAATAAATTGCCTCATTCTGTAACAAAAAAAAAAAAAAAAAAAAA

4323/5332
FIGURE 3762

TGCTGCAACTCAAAC TAACCAACCCACTGGGAGAAGATGCCTGGGGGTCCAGGAGTCCTCCAAGCTCTGCCTGCC
ACCATCTTCCTCCTCTTCCTGCTGTCTGCTGTCTACCTGGGCCCTGGGTGCCAGGCCCTGTGGATGCACAAGGTC
CCAGCATCATTGATGGTGAGCCTGGGGGAAGACGCCCCTTCCAATGCCCGCACAAATAGCAGCAACAACGCCAAC
GTCACCTGGTGGCGCGTCTCCATGGCAACTACACGTGGCCCCCTGAGTTCTTGGGCCCCGGGCGAGGACCCCAAT
GGTACGCTGATCATCCAGAATGTGAACAAGAGCCATGGGGGCATATACGTGTGCCGGGTCCAGGAGGGCAACGAG
TCATACCAGCAGTCCTGCGGCACCTACCTCCGCGTGCGCCAGCCGCCCCCAGGCCCTTCCTGGACATGGGGGAG
GGCACCAAGAACCGAATCATCACAGCCGAGGGGATCATCCTCCTGTTCTGCGCGGTGGTGCCTGGGACGCTGCTG
CTGTTTCAGGAAACGATGGCAGAACGAGAAGCTCGGGTTGGATGCCGGGGATGAATATGAAGATGAAAACCTTTAT
GAAGGCCTGAACCTGGACGACTGCTCCATGTATGAGGACATCTCCCGGGGCTCCAGGGCACCTACCAGGATGTG
GGCAGCCTCAACATAGGAGATGTCCAGCTGGAGAAGCCGTGACACCCCTACTCCTGCCAGGCTGCCCCCGCCTGC
TGTGCACCCAGCTCCAGTGTCTCAGCTCACTTCCCTGGGACATTCTCCTTTCAGCCCTTCTGGGGGCTTCCTTAG
TCATATTCCCCCAGTGGGGGGTGGGAGGGTAACCTCACTCTTCTCCAGGCCAGGCCTCCTTGGACTCCCCTGGGG
GTGTCCCACTCTTCTTCCCTCTAAACTGCCCCACCTCCTAACCTAATCCCCCGCCCCGCTGCCTTTCCAGGCT
CCCCTCACCCAGCGGGTAATGAGCCCTTAATCGCTGCCTCTAGGGGAGCTGATTGTAGCAGCCTCGTTAGTGTC
ACCCCTCCTCCCTGATCTGTGAGGGCCACTTAGTGATAATAAATTCTTCCCAACTGC

4324/5332
FIGURE 3763

GGGCGCCCCGCCGGTCACTCCGCGCGGACACCAGCCCTGCAGAGCCCAGGGAGATGGAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCCCTCCCGGCCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCCAAGGAGGCCAAGAAGGCCCTTCCTGGACTTCTACCACAGCTTCCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGGTCCCTCCCAACGTCGCCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCCGCGCAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATAACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAACCTTCTCCGGAAGAGGTGATGGGGAACCGCGGTCGGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTTCGACACTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCTCTGTCCCTGGAC
AGCCCAGACCGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCAATGAGCCTG
GAGTCCTTGGCGCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG
CCGGGGCGGTGCGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGCTGGCGGGAACCTGTCCTCCCGCAGACACCTG
CACAGCCTGCCCAAGAGCCAGGTGAAGCGGCAGGAGGTGCTGACGAGCTGCTGGTGACAGAGCGGCCACGTCG
CGCATGCTGCGGGTGTGTCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCCGTTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCTCCCGCTTCTGCAGCCGCCAGTCATTGCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCCTCGGTTCTGTGCTTTCGTGCAGGAAGCTGAGAGCCGCCCGGGTGGCGCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGAGCTGGCAGCCGAGTGTGCGGGGAAATTCTACACCACGTCAACCAAGCCGTGCGT
GACATGGAGGACCTGTGAGGCTCAAGGACTATCAGCGGCGCTGGACTTGTCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATCACCAGAAGAAATTGGTCCACGAGGGCCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCTCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGGACACTGACGCCACGCCCCGATGGCAAGACCATGCTGCGGCCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAAGCCTTCTACGTCCTTTTTTACCTGGGAC
CAGGAGGCCCAGATATACGAGCTGGTGGCAGAGCTGTGTCGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGGATCCCTGAAAGTCCCTGCCCCCTGCCTCTCGCCCTAAGCCCCGGCCAGCCCGAGCAGCACCAGAGAA
CCCCTCCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCA
GGGGGCGGCCCCCTGAGCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTGTCCCC
CAGCCTGGCTGCACTTGAGGTTCCCGCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCACCCACACAGCTGCCGAGCATCTCACACCCGAGGGCCTGAGGAGAGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTG
GGGACTCAGGGCTCATTCTGGAGGGCACACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTTATACCTGAATTGGAGGTTTATTTTTTAATATATATTATC
TAAGAAG

4325/5332
FIGURE 3764

AGCAGCTCTACCCCTCACGACGCAGACATGSCAGCGCAGAAGGACCAGCAGAAAGATGCCGAGGCGGAAGGGCTG
AGCGGCACGACCCTGCTGCCGAAGCTGATTCCCTCCGGTGCAGGCCGGGAGTGGCTGGAGCGGCGCCGCGCGACC
ATCCGGCCCTGGAGCACCTTCGTGGACCAGCAGCGCTTCTCACGGCCCCGCAACCTGGGAGAGCTGTGCCAGCGC
CTCGTACGCAACGTGGAGTACTACCAGAGCAACTATGTGTTTCGTGTTCCCTGGGCCTCATCCTGTACTGTGTGGTG
ACGTCCCCCTATGTTGCTGGTGGCTCTGGCTGTCTTTTTTCGGCGCCTGTTACATTCTCTATCTGCGCACCTTGGAG
TCCAAGCTTGTGCTCTTTGGCCGAGAGGTGAGCCCAGCGCATCAGTATGCTCTGGCTGGAGGCATCTCCTTCCCC
TTCTTCTGGCTGGCTGGTGCGGGCTCGGCCGTCTTCTGGGTGCTGGGAGCCACCCTGGTGGTCATCGGCTCCCAC
GCTGCCTTCCACCAGATTGAGGCTGTGGACGGGGAGGAGCTGCAGATGGAACCCGTGTGAGGTGTCTTCTGGGAC
CTGCCGGCCTCCCGGGCCAGCTGCCCCACCCCTGCCCATGCCTGTCCTGCACGGCTCTGCTGCTCGGGCCCCACAG
CGCCGTCCCATCACAAGCCCGGGAGGGATCCCGCCTTTGAAAATAAAGCTGTTATGGGTGTCATTTCAGG

4326/5332
FIGURE 3765

GGAGCAGGCGAGAGGCGACGGCGAGAGCTAGAGCGGGCGCAGCGTTAGGGTGGCCGTGCAAGGGGAGCCGTGGCC
CGGGCCCCGGGGCGTGCGAGACGGCGGAAGCAGCCAGGGCCTTGCTGCCGCCATGACTGAGGAATCAGAGGAGAC
AGTCCTGTACATTGAGCACCCTATGTCTGCTCTGAGTGCAACCAGCTGTATGGATCACTGGAAGAGGTGCTTAT
GCACCAAAACTCCCACGTGCCCCAGCAGCACTTTGAGCTGGTGGGCGTGGCTGATCCCGGAGTCACTGTGGCCAC
AGACACAGCTTCAGGCACGGGCTCTATCAGACCCCTTGTGCAGGAGAGCCAGTACCAGTGCCTGGAGTGTGGTCA
ACTGCTGATGTACCCAGCCAGCTCCTGGAGCACCAGGAGCTGCACCTGAAGATGATGGCACCCAGGAGGCAGT
GCCAGCTGAGCCATCACCTAAGGCACCAACCCCTGAGCTCCAGCACCATCCACTACGAGTGTGTGGATTGCAAGGC
TCTCTTTGCCAGCCAGGAGCTCTGGCTGAACCACCGGCAGACGCACCTCCGGGCCACACCCACCAAGGCTCCTGC
CCCTGTTGTCTGGGGTCCCCAGTTGTTCTAGGGCCTCCTGTGGGCCAGGCCCGAGTGGCTGTGGAGCACTCATA
CCGAAAGGCAGAAGAGGGTGGGGAAGGGGCGACTGTCCCATCTGCCGCTGCCACCACCACTGAGGTAGTGACTGA
GGTGGAGCTGCTCCTCTACAAGTCTCTGAGTGCTCCAGCTCTTCCAGCTGCCGGCGGATTTCTGGAGCACCA
GGCCACTCACTTCCCTGCTCCTGTACCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACC
TGCAGAGGTGCCTGTGTCTCAGCCTGACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGC
CATTGGGCGGGATCGCCGGGGCGCAGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGCGAGCCACACAGGA
GCTCTTCTGCTCAGCCTGTGACCAGTCTTCTCTCACCACACAGCTACAGCAGCACCTGCGGAGTCAACGGGA
GGGCGTCTTTAAGTGCCCCCTGTGAGTCTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCA
TAGCAGCGAGTCACACTTCCCTGTGTGTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCACCG
GCGAGCCACACCCCGAATCCTCTGCATTATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTA
TCACGGCGTACTCATGGGGTAGGGGTGTCCCTCTGCCACAACACAGTCCCAACAGAGGAACCTGTCTATTGG
TTTCCCTGAGCCAGCCCCAGCAGAGACTGGAGAGCCAGAGGCCCTGAGCCCCCTGTGTCTGAGGAGACCTCAGC
AGGGCCCCGCTGCCCCAGGCACCTACCGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGCAGCTGACCCG
GCACCAACGTTTTGTGCATCGGCTGGAGCGGCGCCATAAATGCAGCATTTGTGGCAAGATGTTCAAGAAGAAGTC
TCACGTGCGTAACCACTGCGCACACACACAGGGGAGCGGCCCTTCCCCTGCCCTGACTGCTCCAAGCCCTTCAA
CTCAGCTGCCAACCTGGCCCCGCCACCGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAA
GGCTTTCACGCAAAGCTCCACACTGAGGCAGCACCGCTTGGTGCATGCCCAGCACTTCCCCTACCGCTGCCAGGA
ATGTGGGGTGCCTTTTACCGTCTTACCGCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAA
GTGTGCGGAGTGCCCCCGCTCCTTCTTGCTGCGTGGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCG
CCAGCCCCACCGCTGCCCATCCTGTGGGGCTGCCTTCCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGC
CGCTGCTGCCCAGGCCCCACGGCGCTTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCA
GGCACACGAGGCGGCCATGCAGCTGCTGGGCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCCCTCGAGCCCC
ACGGGCCACTCGTGCACCAAGTTGCCTCTCCAGCAGCCCTTGAAGCACTGCTACAGCATCCCCCTGCGGCCCTGC
CCGCCGCCGGGCTCTAGAGTGCAGCGAGTGCAAGAAGCTGTTTCAGCACAGAGACGTCACTGCAGGTGCACCGCG
CATCCACACAGGTGAGCGGCCATACCCATGTCCAGACTGTGGCAAAGCGTTCCGTCAAGTACCCACCTGAAAGA
CCACGGCGCCTGCACACAGGTGAGCGGCCCTTGCCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCG
CCTGGCAGAACATCGCCGCATCCACACAGGCGAACGACCCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTC
CTTCTCCAACCTCTGGAAGCACCGCAAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGA
GGCGGAGGCTGCCCTTGGCCTGGCCGTCTATGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGAT
CTACCCCTGCGCCGAGGCTGAGGGGGTCCAGATCAGTGGCTGACTCTGCCCGACTTCCCTCTTTGGCACCTCCATT
CCCTGTTGCTGAAGGCCCTCCAGCATCCCCCTTAAGCATCTGTACATACTGTGTCCCTTCCCTCTTCCCATCCCCAC
CACCTTGTAAGTTCTAAATTGGATTTATTCTCTCGTGAGGGGGGTGCTCTGGGGTCTTGACACACATAAAGGTG
CCCCCCCACCTTCCACCTCTTAGCACTGGTGACCCCAAAAATGAAACCATCAATAAAGACTGAGTTGCC

4327/5332
FIGURE 3766

GCGCGAGTTGGGGGAAGGAGGAGGGGCGAGGTGACGCAGGCGTAATAATAGAGAAGGTGCCAGAAAGATCCAAAA
CAAGTGGCTGCGGGCGTCGCCCAGGAGTCATCGGACGCCAGAATCTGGCCGGGTTCTGAGCTTGTTCCGCCTCCC
TCCCCGGGAATGGCGCTATCCGGGTCGACCCCGGCCCGTGCTGGGAGGAGGATGAGTGCCTGGACTACTACGG
GATGCTGTCGCTTCACCGTATGTTTCGAGGTGGTGGGCGGGCAACTGACCGAGTGCAGCTGGAGCTCCTGGCCTT
TCTGCTGGATGAGGCTCCTGGCGCCGCCGAGGCTTAGCCCGGGCCCGCAGCGGCCTAGAGCTCCTGCTGGAGCT
GGAGCGCCGCGGGCAGTGCACGAGAGCAACCTGCGGCTGCTGGGGCAACTCCTGCGCGTGCTGGCCCGCCACGA
CCTGCTGCCGCACCTGGCGCGCAAGCGGCGCCGGCCAGTGTCTCCAGAACGCTATAGCTATGGCACCTCCAGCTC
TTCAAAGAGGACAGAGGGTAGCTGCCGTCGCGCTCGGCAGTCAAGCAGTTCTGCAAATTCTCAGCAGGGTCAGTG
GGAGACAGGCTCCCCCAACCAAGCGGCAGCGGCGGAGTCGGGGCCGGCCAGTGGTGGTGCCAGACGGCGGGCG
GAGAGGGGCCCCAGCCGCACCCACGAGCAGTCAGAGCCCGCCAGACCTTCCTCTGAAGGCAAAGTGACCTGTGA
CATCCGGCTCCGGGTTTCGAGCAGAGTACTGCGAGCATGGGCCAGCCTTGGAGCAGGGCGTGCCATCCCGGCGGCC
CCAGGCGCTGGCGCGCAGCTGGACGTGTTTGGGCAGGCCACCGCAGTGCTGOGCTCAAGGGACCTGGGCTCTGT
GGTTTGTGACATCAAGTTCTCAGAGCTCTCCTATCTGGACGCCTTCTGGGGCGACTACCTGAGTGGCGCCCTGCT
GCAGGCCCTGCGGGGCGTGTTCTGACTGAGGCCCTGCGAGAGGCTGTGGGCCGGGAGGCTGTTTCGCCTGCTGGT
CAGTGTGGATGAGGCTGACTATGAGGCTGGCCGGCGCCGCTGTTGCTGATGGAGGAGGAAGGGGGGCGGCGCCC
GACAGAGGCCTCCATCCAGGACTGGCAGGATTGATCCACCTCCAAGTCTCCGGGCCACCTTCTCCTGGGAGG
ACGACCATCTCTACCCCTAGAGGACTGTACTCTAGCATCTTTGAGGACTGCGACAGGACCGGGACAGCAGGCC
CTTGACAGCCCCTCCACAGGATGTGGGCTCTGAGGCCTAAACCATTTCAGCTGAGTTTCCTTCCCAGACTCCT
CCTACCCCCAGGTGTGCCCCCTTAGCCTCCGGAGCGGGGGCTGGGCCTGTATCTCAGAAGGGAGGGGCACAGCT
ACACACTCACCAAAGGCCCCCTGCACATTGTATCTCTGATCTTGGGCTGTCTGCACTGTACAGGTGCACACAC
TCGCTCATGCTCACACTGCCCCTGCTGAGATCTTCCCTGGGCCTCTGCCCTGGCCTGCTTCCCAGCACACATTC
TTTGGCCTAAGGGCTTCTCTCTCAGGACCTCTAATTTGACCACAACCAACCTGGGCTTCAGCCACATCAGTGGGC
ACTGGAGCTGGGGTGACATGGGGCCTGCTCACCTTGGCCACACATCTCCAGCCAGCCAGGGGCCCTGCCAGCTT
CAATTTACAGACCTGACTCTCCTCACCTTCCCCCTGCTGTCCAGAGCTGAACATAGACTTGCACTTGGATGTCA
CCTGGAGTGTACATGGGAGTGTTATGGCAGCATCATACCAAGGCCTACTGTTGCACATGGGGCCAAAACAGTA
AACAGCCACCTTCTTGGAAGGGAATGCAAAGGCTTGGGGGTGATGGAAAAGACCTTTTACAAATGATACCAAT
TAAACTGCCCTGGAAAGGGCATAGGTGGG

4328/5332
FIGURE 3767A

GTCTGTGTCAAGAGCGGCAGGGGCTGCAGGAGATAAGAGAAACGGGCTGCCGTGGGGTGTGTGTAGGCTTCAGAG
ACATGGGATCACGGAAGACTGAAGCAGAAACAGTGGATTAAGACTTCCTGAGCGATAGCTGGCACTGCCTTCCCC
ACAATGGCAGAGGTGGTGGCTGAGGTGGCCGAGATGCCAACACAGATGTCACCAGGGGCAGTGGAGATGTCAACA
CCTATGTGCGCAGAGATGATGGAGATGTCAACAGAAGTGACTGAGATGACACCTGGGGAGGCCCTTGCCCTCATCC
CTCTTCTTCCAGCATCACCAGTTCATGTGCTCTGAGTGTGGCAGCCTCTATAACACACTGGAGGAAGTCCTCTCA
CACCAGGAGCAGCACATGCTTGCTGTCTCAGAGGAGGAGGCACTGACCACACAGAATGTTGGCCTGGAGCCGGAG
CTGGTGCCGGGTGCTGAGGGGCCCTTCCAGTGTGGTGAATGCAGCCAGCTCATCTCTCCCCTGGGGAGCTCCTG
GCCACCAGGATGCCACCTCCGAGAGTCTGCAAACCAGATCCAATACCAGTGCTGGGACTGCCAGGAGCTGTTT
CCCTCGCCCGAGCTGTGGGTGGCTCATCGAAAGGCCAGCACCTTTCTGCTACGGTAGCTGAGCCACCAGTGCCA
CCTCCTTTGCCTCCCCAACACCACTGCCTCCACCTTCTCCCCATCCGAAGTCAAGATGGAGCCCTATGAGTGT
CCTGAGTGCTCTACCTCTGCGCCACCCCTGAGGAGTCTTGGAGCATCAGGGCACCCACTTTGACTCCCTAGAG
AAGAGGAGCGCAATGGGTTGGAGGAGGAGGACGATGAGGAGGATGAAGAAGATGATGAAGAGATGGAG
GATGAGGAGGCCATGGCAGAGGTGCGTGATGATGCTGTGGGAGGTGACGAGTCCACAGCTGGCTGGGCTCAGGGC
TGCGGGGACTGTCCCCAGCACCCAGCCCTCAGCAGGGGCTCGCCGGCAACACCGGCGGACGGCTCACAGCCCGGCA
TCTGCCACCCACCCCTTCCACTGCAGCCAGTGTGACGCGAGTTTCAGCTCCGCCAACCGGCTGCAGGCTCATGGG
CGGGCCCATGTTGGTGGCACACATGAGTGTACAACCTGCTCCAAGGTCTTCAAGAAAGCAGCATCGCTTGAGCAG
CACTTGCGGCTGCATCGCGGGGAAGCCCGCTACCTCTGTGTAGACTGTGGCCGCGGCTTTGGCACAGAATCAGC
TTGGTGGCTCACCGGCGGGCCACACTGCCAACCCATTGCATCGCTGTGCTGCGGCAAGACGTTTACGCAACATG
ACCAAGTTTCTTACCACCGGCGCACTCACGCCGGCAAAAGCGGGGACCTCCACAGGAGCAACAGCTCCCCCA
GCTCCAGCGGAGCCACCCCTCCACCACCACCCCTGCCCCACCTGCCAGCTGCCCTGCCACAGTGCTCCAAG
TCCTTTGCCTCAGCTTCCCGGCTGTCCCGGCACCGGCGTGAGTACACGGGCCCCCTGAACGGCGTCACCGCTGT
GGGTTTGTGGCAAGGGCTTCAAGAAGTGATCCACGTGCGCAACCACCTGCGGACACACACGGGTGAGAGGCC
TTCCAGTGCCACTCATGTGGCAAGACCTTTGCTTCTTTGGCAACCTCAGCCGCCACCAGCTGACCCATACGGGT
GCACGTCCCTACCAATGCCTGGACTGTGGCAAGCGCTTACACAGAGCTCCAACCTGCAGCAGCACCGGCGGTTG
CACTTGCGGCCAGTCGCTTTGCGCGCCCCCGCCTCCCCATCACTGGTCTCTACAACAAGAGTCCCTACTAC
TGCGGGACTTGTGGCCGCTGGTTCCGCGCCATGGCGGGCTTGGGACTGCATCAGCGGGTCCATGCCCGAGCTCGG
ACTTTGACGCTACAGCCTCCAGATCACCATCTCCTGCCCCACCCACCTCCAGAGCCTCAACAGACTATCATG
TGCACAGAGCTGGGGGAGACCATCGCCATCATTGAGACATCCAGCCACTGGCGCTTGAGGACACCCTGCAGCTG
TGCCAGGCTGCACTGGGGGCCAGTGAAGCAGGCGGGCTCTTGCAATTGGACACGGCTTCGTGTGACGCACTGA
AAAGCAACAACAAAGGGTTTGGTTGCAACAGCCAGTGTGGGTACCTCTGGGGAGAGAGGACCTCCTCTGACAAA
CTGGTCTGGTACCCACCATGTGCCAGGATCCACCCTGGCCTCTTTTTACCCACTGACTCCCCAGAACAACCCCTC
CAGGCTTCTCTTGTATCTTTCTCTGCTGAGGGGAAACTGAAGCTCTGAAATGCGATGTGATCTGTACCAGGTC
ACCCAGCTATGCTGCAAAGTGGGTGGCCAAAGGCCCTTTGCACTGCATCACCCTGGTGCCAGCAACATCAGGTA
ACCTTCACTGAGCACCAAGCTTATGCCAGGTCTGTGCTGGCCACTCTCATATACCTCTTCAGATCCTCTGCTTGT
ACCCCCAGCCCTTGCCCTTCCCTGGATTTTGGGCAACCAGGACTTTGCTCTGCCCTGGTGGAGGGTACTTGATTCT
CTGGGCTTCTTCTCATCTCAATTCTGACAGTGTGGAAGGAAATCTGTAGGTACCCAGGTCTCAGCTCCAGACTGG
GTGATGCTGGAGACCCAGGAGCAAGTCAGCACAGGCTCTGCCACAGGAGGCATGCACAATCTGGTAGGAGAAAC
GCACAAGTACAGATAGCTTGCTCTCTGAGTGTGTCTCATTGATTTCATTAGCCTGTGTGCTTAAAGCCTCCCTT
CTCCCATACTGGGTGATGCTGGGGGAGAGATGAGTCAGGCCTAAGGCTTCTCTGGGCTGTGATGGGGATGTGCA
GGGACAGTGGGATCCAGGAAACAGACCTCCATGGTGGGAGATCAGGAGTTAAGGACTTCTTAGAGAAGGTAGTC
CCTGAAGGAAAAGTAGGAATCTGGCAGTGAAGAGGAAAAGAACATTCCAGGCAGACAGCACTGCAAGAGGGTGA
GCTCTTGGTGTATTTGGAGACCATCCAGTTATTCTGACTGCCTACCTGAGGCAAGCACCACTTACCAGT
TATGTGTACTATGATCCCAACAGGCTTGTGACATAGATTTTATATTATCCCTGTTGTATAGATTTTAAACTGG
TGGCTGGGCGTGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCAGGAGGTGGGA
GATCGAGACCATCTGGCTAACACGGTGAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGAGTGGTGG
CGGGCGCTGTGGTGGCCAGCTACTCAGGAGGTGAGGAGGAGAAATGGCGTGAACCCGGGAGGCGGAGCTTGCA
GTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGCGCAGAGAGTGAAGTCCCTCTCAAAAAGAAAATAAAAAATA
AAAAATAACTGGCCAGGTGCGGTGGCTCACGCTTGAATCCAGTGCTTTGGGAGACTGAGGCAGGAGGATCACT

4329/5332

FIGURE 3767B

TAAGGCCAGGAGTTCGAGACCAGCCTGGGCAACAGCAAGACCTCATCTCTACAAAACCTTAAAAGTTAGCCAGGCC
TGGTGGCACATGCCTGTAATCCGAGTGCTTTGGGAGGCTGAGGCAGGAGGATCACTCGAGCTCAAGAATTCAAGA
CCTGGGCAAGAGAGAGAGACITTTGTCTCTATTAAAAATAAAAATGATTGGCCGAGCATGGTGGTGCACACCAGTA
TTCCAGCTACTCTGGAGGCTGAGGCGGAGGCAGGATTGCTTGATATGAGGGAGATTGAGGCTGCAGTGAGCTGT
GTTACACCACTGCACTCCAGTCTGGGCAACAGTGCAAGACCCTGTCACTT

[illegible]

4331/5332
FIGURE 3769A

GGAGGTGCGAGCCCCTGCCGGGTCCCCCTGCGCCGGACCATGTATTGCGCCACAGGCCCTGATGCCCGCGTC
CAGCGCGGCTCCCGTGGCTCGGCATGTTCTGTGGACGAATGTGGAACCTCGCTCTGTGGCTGTGTCCCTTG
GCACTCCTTAGTCCCCCTTCTTGGCACCCAGCCAGCCTGACCCCTCCGTGCGAGCCGAGCGAGGCCACGAACTGC
CAGCCACCCAGTGGCTCCAACAGAGCAAAGAACCTGCTGAGTCGGCAGCTGTTGCTCATGAACGGCCACCAGG
TGGGACAGGGAGTGTGACCCTGAGCGGCCCTGGAGCCACATGCCCTGAGAGCCCAGGACCCGGACCCCCACA
CCCTTTGGGGGTGGTGAATCTGGTAAGGGTCCGCTCCACCACGGAGGAGGAGGCTCCGGCCCCCAGGAGA
GCCCCGGCTGGACAGTGAGACAGAGAGTGACCATGATGATGCCCTTCTCTCCATCATGTCTCCTGAGATCCAGTT
GCCTCTACCGCCCCGAAAACGTCGGACCCAGTCCCTCAGTGCCCTACCCAAGGAACGGGACTCATCTTCTGAGAA
GGATGGACGCAGCCCCAACAAAGCGGGAGAAGGACCACATCCGGCGGCCCATGAATGCCTTCATGATCTTCAGCAA
GCGGCACCGGGCCCTGGTCCACCAGCGTCATCCCAACCAGGACAACCGGACCGTCAGCAAGATCCTGGGCGAGTG
GTGGTATGCCCTGGGGCCCAAGGAGAAGCAGAAGTACCACGACCTGGCCTTCCAGGTGAAGGAGGCCCACTTCAA
GGCCACCCAGATTGGAAGTGGTGCAACAAGGACCGAAAGAAGTCCAGCTCAGAGGCCAAGCCCACGAGCCTGGG
GCTGGCAGGAGGGCACAAGGAGACGCGGGAGCGGAGCATGTGCGAGACGGGCACTGCTGCTGCCCTGGGGTGT
CTCTGAGCTCCTGTCCGTGTCAGCCAGACACTCCTGAGCTCAGACCAAGGCTCCGGGGAGCAGCTCCTGTGG
GGCAGAACGGCTACACACAGTTGGGGGACCTGGCTCAGCCCGCCCCGAGCTTTCTCCACAGCGGGGTACACAG
CCTGGACGGCGGAGAAGTAGACAGTCAGGCGCTACAGGAAGTACGCGAGATGGTGTCTGGCCCTGCATCGTACTC
TGGCCCAAAGCCTTCTACCCAGTATGGAGCTCCAGGACCCCTTTCAGCCCTGGTGAGGGAGGTGCCTTGGCGGC
CACTGGGCGGCCCTCGCTGCTGCCACCCGAGCTTCTCGTTCTCAGCGTGCGGCCAGTGAGGACATGACGAGTGA
TGAGGAGCGCATGGTCATCTGTGAGGAGGAAGGGGATGATGATGTCATTGCTGACGATGGCTTCGGCACCACTGA
CATTGATCTCAAGTGCAAGGAGCGGGTGACCGACAGCGAGAGTGGGACAGCTCTGGGGAGGACCCAGAGGGCAA
CAAGGGCTTTGGTTCGGAAGGTGTTTTACCTGTGATCCGTTCTCCTTTACCCACTGCCGCCCTCCCTGGAACCC
TGAGCCCCCAGGGCCCCCGGATCCTCCTGTAGCCTTTGGCAAAGGCTATGGTTCCGCCCTATCCTCCTGTGCGTC
CTCGCCTGCTTCTCCTCCTCAGCCTCGGCAGCCACCTCCTTCTCACTGGGCTCAGGAACCTTCAAGGCCCAGGAGTC
TGGTCAGGGCAGCACAGCGGGCCCCCTACGGCCCCCACCCTTGGGGCTGGGGGTCCAGCGACACCTTCCAAGGC
AACCCGGTTCTCCCAATGGATCCTGCCACCTTCCGGCGCAAGAGACCCGAAAGTGTGGGTGGCCTGGAGCCACC
AGGCCCTCAGTCATCGCGGCCCTCCAGCGGAGGAGGAACATCCTGCAGACACTGGTGTGCCCCAAACAA
GGAGGAGCAAGAGGGCGGCGGAGCCAGAGTGCCCTCCGCCCCCGCCCATCACTGGCCTATGGGGCCCCAGCAGC
TCCCTGTCCCGTCTGCGGCCACCATGGTCACCAATGTGGTGGCGCTGTGAGCAGCACTCCTGTGCCATCGC
CTCTAAGCCCTTCCCCACCTCTGGCCGGGTGAGGCGTCTCCAAATGACACAGCAGGTGCCAGGACTGAAATGGG
CACTGGGTCTCGGGTGCTGGGGGCTCCCCGCTGGGTGTGAGCTTAGTGATTTCGGACAAGAAGTCGGCAGCAGC
CACCTCACCAGCCCCACACTTGGTGGCTGGACCCCTGCTGGGCACTGTGGGGAAGGCGCTGCCACTGTACTAA
CCTACTGGTGGGACCCCGGGGTATGGGGCCCCCTGCGCCCCCTGCTGTCCAGTTTATTGCCCAGGGGGCCCTGG
TGGTGGGACCACTGCGGGCTCAGGAGCAGGTGCTGGGAGTGGCCCCAATGGGCCAGTACCCCTGGGCATCCTGCA
ACCAGGTGCCCTGGGCAAGGCTGGGGGAATCACCCAGGTACAGTACATCCTGCCACGCTGCCCCAGCAGCTTCA
GGTGGCACCTGCCCCAGCACCCAGCCCCCTGGGACCAAGGCAGCGGCTCCAGCGGCCCTGCACCCACCACCAGCAT
CCGTTTACCCTCCACCCGGGCACTTCCACCAACGGCAAAGTCTGGCTGCCACTGCACCCACTCCTGGCATCCC
CATCCTGCAGTCTGTACCTCCGCCCCACCCCCCAAAGCCAGTCAAGTTTCTCCCGTGCAGGCCCCGCCCCGGG
TGGCTCAGCCCAGCTGCTGCCTGGGAAGGTCTAGTGCTCTGGCCGCCCTAGCATGTGAGTGCGGGGTGGAGG
GGCCGGCCAGCCACTGCCACTGGTGAGCCCCGCCCTTCTCAGTACCTGTGCAGAATGGTGCCAGCCCCCAGCAA
GATCATCCAGCTGACCCCGGTGCCTGTGAGCACACCCAGCGGCCCTGGTGCCGCCCTGAGCCCAGCCACACTCCC
TGGACCCACCTCTCAGCCTCAGAAGGTCTGTGCTCCTCCACCAGAATCACCTATGTGAGTCAGCGGGCGG
GCACGCGCTGCCCTGGGTACCCAGCCTGCGTCCAGCCAGGCTGGAACAGTCACCTCGTACGGGCCACGAGCTC
TGTAAGCTCTAGGCTTACCTCGCTGGGGCCAGCGGCCCGCCTTCGTGACGCCCTGCTCTCAGCAGGCCAAGC
CCCACTGCTGGCTCCCGGTGAGGTGGGCGTGTACCTGTGCCAGTCCCCAGCTGCCGCTGCTGTGAGCCCC
CGGAGGTCTGTACATAACAGCATTTTACTCTGGCAGCCCTGCACCCACCTCCTCAGCACCCCTGGCCAGCCATC
CCAGGCCCCCAAGCCTGGTCTACACTGTGGCCACCAGCACACCCACCTGCAGCCACCATTCTGCCAAGGG
CCCGCCAGCCCTGCCACTGCCACCCAGCCCCGACTAGCCCTTTCCCGAGCGCCACAGCAGGTTCCATGACCTA
CAGCTTAGTGGCCCCCAAGGCCAGCGGCCAGCCCCGAAGGCCCCCAAGTGAAGGCAGCCATCGCCAGCAT

4332/5332
FIGURE 3769B

TCCCGTGGGGTCCTTTGAGGCAGGTGCCCTCTGGGCGGCCTGGCCCTGCACCCCGGCAGCCTCTGGAGCCTGGCCC
AGTCCGAGAGCCAACTGCCCCAGAGTCTGAGCTTGAGGGGCAGCCACACCACCAGCCCCCTCCACCCCTGCCAGA
GACCTGGACTCCCACGGCCCGGAGCAGCCCCCACTGCCCCACCTGCTGAGGAGCGGACCAGCGCCAAGGGCCC
TGAGACCATGGCCAGCAAATTCCCCAGCTCATCTTCAGACTGGCGCGTCCCTGGGCAGGGCCTGGAGAATCGTGG
GGAGCCTCCCACTCCTCCCAGCCCGGCCCCAGCTCCAGCTGTAGCCCTGGTGGCAGCAGCGAGAGCAGCAGTGG
GCGGGCAGCCGGGGACACCCCGGAGCGCAAGGAGGCGGCTGGTACTGGCAAGAAGGTGAAGGTGCGGCCCCCGCC
CCTGAAGAAGACCTTTGACTCTGTGGACAACAGGGTCTGTGAGAAGTGGACTTCGAAGAGCGCTTTGCTGAGTT
GCCTGAGTTTCGGCCTGAGGAGGTGCTGCCCTCCCCCACCCTGCAGTCTCTGGCCACCTCACCCCGGGCCATCCT
GGGCTCTTACCGCAAGAAGAGGAAGAACTCCACGGACCTGGATTTCAGCACCCGAGGACCCACCTCGCCCAAGCG
CAAGATGAGAAGACGCTCCAGCTGCAGCTCGGAGCCCAACACCCCAAGAGTGCCAAGTGCGAGGGGGACATCTT
CACCTTTGACCGTACAGGTACAGAAGCCGAGGACGTGCTTGGGGAGCTAGAGTATGACAAGGTGCCATACTCCTC
CCTGCGGCGCACCCCTGGACCAGCGCCGGGCCCTGGTCATGCAGCTCTTTCAGGACCATGGCTTCTTCCCGTCAGC
CCAGGCCACAGCCGCCTTCCAGGCCCGCTATGCAGACATCTTTCCTCCAAGGTTTGCTGTCAGTTGAAGATCCG
TGAGGTGCGCCAGAAGATCATGCAGGCTGCCACTCCACGGAGCAGCCCCCTGGAGCTGAGGCTCCTCTCCCTGT
ACCGCCCCCACTGGCACCGCTGCTGCCCTGCCCCCACTCCAGCCCCGAGGGGGCCCTGACCCACCTCACC
CAGCTCGGACTCTGGCACGGCCAGGCTGCCCCGCCACTGCCTCCACCCCAAGTTCGGGGCCTGGACAGCCTGG
CTGGGAGGGGGCTCCCCAGCCCTCCCCCCCCACCCCAAGTCCCTCCACAGCTGCCACAGGCAGGTGAGGGACCCC
TGAGAAGATGCCAGGACTTATAGTACCCCTCAGGACATGGACAGTATGTGGGGGCAGGAAGGTTATCTCCTCCC
GGGTAAAGCCATTTTCGTCTCTCCAGTTTGGGGCGGAATGAGGCCTGCTCCTCTTGTAATAACCCCTTCCCTCG
AAGCTCCCTCCCGGTGCTGGGGGGCAGCTGAGGGGCTGCAGGGGCAGTCTCCCTCCTCCAAGCCCCTGTACATAA
CCTGGAGCGTGTGACCTTCAGAGCTTTTCACTTTATGCAAAATGGCTCCTGTGAGGGCTGCAAGCTGGAGGGTGG
TGCAGGCCTTGGGCCACAGGGAGGCGCCTGTGGAATAGGGGGAGTTTCATGCACCCCTTTTTTCCCCAGAGGGGCT
GGACTCAGGTTAGTTTGGGGGTGGGGGCTCCTGCACCTTTGCCACAGGCACGGGGAGGGTTTTCTCCTCACCCCT
CTGCCCTCCCAACTTGGGTTGTACTTTCTAAGAAGGTGATTCCCCCTGCCCTTGCCCCCTTCCCCAGAACAAAAC
ATGTTGATCATGTGCAATATTTCTTACTGTGCCGAGAAGCCGCAATGAGCGAGATTAAAGCTGTTTAACACAC

4333/5332
FIGURE 3770

GCGCGGCCTGGGAGTCAGCGGCCCGAGCGGGAAGCGCCGGGCGAGCCCACTGTGCGGCCGTCTGTTGGGGAAGCGA
AGGTTTCCTGATTCCACCTACCTCCTAAGTGAAGGCTTCCGTCCCTGGAGAGGAGGCGGCGCCCTGTATCGGCCTT
CGTCCCTCCGCGGGTGTGCTAGCGTTGGGACGGTCCTTTGTTGCCGCGAGGGGTAGGAGTGGGCGTGGCGGAGCCA
GCTCCGTTTCGGAACACTCCCGGGCCGACCCGACTCGCTCATCCTGCAGGAGCTGCGGCGCCAAGATGAGTGGAGA
GGAGAACCCAGCCAGCAAGCCACGCCGGTGCAGGACGTACAGGGCGACGGGCGCTGGATGTCCCTGCACCA'TCG
GTTCTGTGGCTGACAGCAAAGATAAGGAACCCGAAGTCGTCTTCATCGGGGACTCCTTGGTCCAGCTCATGCACCA
GTGCGAGATCTGGCGCGAGCTCTTCTCTCCTCTGCATGCACTTAACCTTGGCATTGGTGGTGACGGCACACAGCA
TGTA'CTGTGGCGGCTGGAGAATGGGGAGCTGGAACACATCCGGCCCAAGATTGTGGTGGTCTGGGTGGGCACCAA
CAACCACGGACACACAGCAGAGCAGGTGACTGGTGGCATCAAGGCCATTGTGCAACTGGTGAATGAGCGACAGCC
CCAGGCCCCGGGTTGTGGTGCTGGGCCTGCTTCCGCGAGGCCAACATCCCAACCCACTTCGGGAGAAGAACCGACA
GGTGAACGAGCTGGTACGGGCGGCACCTGGCTGGCCACCTCGGGCCCACTTCCTAGATGCCGACCCTGGCTTTGT
GCACTCAGATGGCACCATCAGCCATCATGACATGTATGATTACCTGCATCTGAGCCGCCTGGGCTACACACCTGT
TTGCCGGGCTCTGCACTCCCTGCTTCTGCGTCTGCTGGCCCAAGACCAGGGCCAAGGTGCTCCCTGCTGGAGCC
CGCACCCCTAAGCATCCTGCTGCCTTCCACAACATTAAACTCTCCTTCCTCAG

4334/5332

FIGURE 3771A

GTGATGGCATCTCACACTGCAACCGCACGTGCTTGGAGGACTGTGGCCATGGTGTGTGCAGTGGCCCCCGGACT
TTACCTGCGTGTGTGACCTAGGCTGGACATCAGACCTGCCCCCTCCACACCCGCCCCGGGTCCGCCAGCCCCC
GCTGCTCCCGGGACTGTGGCTGCAGCTTCCACAGCCACTGCCGCAAGCGGGGCCCTGGCTTCTGCGACGAGTGCC
AGGACTGGACATGGGGGGAGCACTGCGAACGATGCCGGCCCGGAGCTTCGGCAACGCCACAGGCTCTAGGGGCT
GCCGGCCCTGCCAGTGCAACGGGCACGGGGACCCACGCCGTGGCCACTGCGACAACCTCAGTGGGCTCTGCTTCT
GCCAGGACCACACCGAGGGTGCCCACTGCCAGCTCTGCTCCCCAGGCTATTATGGGGATCCCCGGGCCGTGGTT
CCTGCTTTCGGGAGTGTGGGGGTGCGGCCCTCCTACCAACGTGTCTCAGTGGCACTGGGCTCACGCCGGGTGCG
GGGGGTGCTGCCTCCAGGTGGCGGGGTGCAAGAGCCGGGCTGGCCTGTCTACTGTGTGTGGGTGTCTCGG
CCACTGAGGAGCTACAGCCCTGTGCTCCCGGGACCCCTGTGTCCCCACTCACCTCACCTTCTCCCCGACAGCA
GCACCCCTGCACGCTAGCTACGTCTGCTCCCGGGACCCCTGTGTCCCCACTCACCTCACCTTCTCCCCGACAGCA
CGACCCCTGCACGCTAGCTACGTCTGCTCCCGGGACCCCTGTGTCCCCACTCACCTCACCTTCTCCCCGACAGCA
CGGACCGCAGCCTCATAGCTGCCTTCTGCGGCCAGCGACGGGACAGGCCCTCACTGTTTCAGGCCCTGTCTGGGC
TGCTCGTGCTGCACTGGGAGGCCAATGGCTCCTCATCTGCGGGCTTCAATGCTTCGGTGGGCTCTGCCGCTGTG
GGTCAGGGGGCCCCGGGAGCTGTCCCGTCCCCAGGAATGCGTCCCCAGGACGGTGTGTCAGGTGCGGGGCTCT
GCCGATGTCTCAGGGCTGGGCTGGCCACACTGCCGCTGCTGTGCTCTGAGAATGCAATGCCACACTG
GGGCAGGAACCTGTAAACCAGAGCCTGGGTGTGTGCATCTGTGCCGAGGGCTTCGGGGGCCCGACTGCGCCACCA
AGCTGGATGGCGGGCAGCTGGTCTGGGAGACCCCTCATGGACAGCCGCTCTCAGCCGACACTGCCAGCCGCTTCC
TGCACCGCTGGGCCACACCATGGTGGATGGACCCGATGCCACCTTGTGGATGTTTGGGGGCTGGGCTGCCCC
AGGGGCTGCTGGGAAACCTGTACAGGTACTCAGTGAGTGAGCGGCGGTGGACACAGATGCTGGCGGGAGCCGAGG
ACGGGGGCCCAGGCCCATCGCCCCGCTCCTTCCATGCAGCCGCATATGTGCCGCTGGCCGTGGTGCATGTATC
TGCTGGGGGACTTACCCTGAGGGCGTCACCCGTGATTTCTGGGTCTCAACCTCACACCCCTGCAATGGCGGC
AGGAGAAGGCCCCCAGACCGTGGAGCTGCCAGCCGTTGCTGGTTCACACCTTACTGCCCCGCGAGGCTGTCTC
TGCTCCTGGTGGGCGGTTACTCCCCGAAAATGGCTTCAACCAGCAGCTGCTGGAGTACCAGCTGGCAACCGCA
CCTGGGTGTGAGGAGCCAGAGTGGGACACCCCCACAGGTCTCTATGGTCACTCTGCTGTCTACCACGAGGCCA
CCGACTCCCTCTACGTGTTTGGGGGGTTCGATTCCATGTGGAGCTGGCGGGCCCATCCCCGAGCTCTACTCCC
TGCATGTCTGACCGCACCTGGAGTCTGCTGGCCCTTCTCAGGGGGCAAAGCGAGATCGTATGAGGAATGTGC
GTGGCTCATCTCGGGTCTGGGCCAAGTTCTGGGGAGCAGCTGGGTTCATGGGGGTTCCGGGAAGTCAGGAAGA
AGATGGCTCTGTGGGTGCTCTTGTGCTGGTACAGGAGGTTTCTGGAGGAAATCTCACCTCACCTGAAGGAGCCCC
GCCCCCGGCTTTTCCACGCTCAGCCCTGTTAGGGGACACCATGGTGGTTCTTGGGGGGCGCTCGGACCTGACG
AGTTACAGCAGCGACGTTCTGCTCTACAGGTCAACTGCAATGCCTGGCTTCTGCCCCGACCTCACCCGCTCGGCCT
CTGTGGGGCCCCCAATGGAGGAGTCTGTGGCCCATGCTGTGGCAGCAGTCGGGAGCCGCTGTATATCTCTGGGG
GTTTCGGGGGAGTGGCCCTGGGCGCCTGCTGGCACTGACCCCTGCCCCCTGACCCCTGCCGCTGTGTCTCTAC
CTGAAGCTTGTAAACAGTCTGGGGCTGCACCTGGTGCCATGGGGCTGCTTGTCCGGGGATCAGGCCACAGGC
TGGGCTGCGGGGGCTCCCCCTGCTCCCCAATGCCTCGCTCCCCGAGGAATGTGACGCTCTCCGGACCTGCAGTG
AGTGCCTGGCCCGCCATCCTCGGACCCCTGCAACCTGGAGATGGAGAGGCGTCCACCCCCGCTGTAAGTGGTGT
CCAACTGCCCCGAAGGTGCTTGCAATTGGACGCAATGGGTCTGCACTCTGAGAATGACTGTGCGATCAACCAGC
GAGAGGTCTTCTGGGCAGGGAAGTGTCTCCGAGGCTGCGTGCGGGGCTGCTGACTGCGAGCAGTGCACGCGGAGG
GCAAGTGCATGTGGACGCGGCAGTTCAAGAGGACAGGGGAGACCCGCGCATCCTCTCCGTGCAGCCACCTATG
ACTGGACGTGCTTCAGCCACTCTCTGCTGAATGTGTCCCCATGCCGGTGGAAATCATCACCCCACTGCCCTGCC
CCACCCCTTGTACCTCTACCAACTGTACCTCTGCTGGACTTAAGGGAGCAGATGGGGGCTGGCAGCACT
GTGTTTGGAGCAGCAGCTGCAGCAGTGTCTGAGCCCTTCTACCTGCCCCCTGCGATGTATGGCCGGAGGCTGTG
GGCGGCTGCTCCGGGGACCTGAGAGCTGCTCCCTGGGCTGTGCTCAGGCAACTCAGTGCCTTGTGCTGCGGC
GCCCCATTGCGGCTGGTGTGCTGGGGGGCAGGATGGGGGTGGCCGCTGCATGGAGGGTGGACTCAGCGGCC
CCCAGTGAATGGGCTGACATGTGGGCGTCCGGGGGCTCCTGGGCTTCTGCTGCTGCCCCCTGAGGACGAGTGTG
CAAACGGGCACCAAGTGCACGAGACGAGAAATTGCCACGACCCACGCTATGAGTGCAGTGCAGAGA
CCGGCTATACCATGGACACATGACAGGGCTGTGCCGCCCTGTGTGCGCCAGGGCTGCGTGAACGGCTCATGTG
TGGAGCCCGACCACTGCCGTGCCACTTTGGCTTTGTGGGCCGCAACTGCTCCACGGAATGCCGCTGCAACCGCC
ACAGTGAATGCGCTGGTGTGGGGCGCGTGACCACTGCTTGTCTGCCGCAACCAACCAAGGGCAGCCACTGTG
AGCAGTGCTCCCGCTGTTTGTGGGTTTCTGCTGCTCGGAGGCGGGACCTGCCGGCCCTGCCACGCCTTTTGTGCTG

GAAAATAGCCACATCTGCAITCTCCAGGAAGGAGTTACAAATGTCCAAGGGAGAGCCAAAGAAGTACTCACTGGACC
 CAGAGGAGATTGAAAACCTGGGTGACAGAGGGTCTTAGTGAAGACGAGGCCGTGTGCGTGAAGTCCAGAAATAACA
 GCTATGGGGGAGAAAATGCGAGAGCTGCCTGCAGGGCTACTTCTCTGAGCGGGAAGTGCACCAATGCCAGTGT
 ATGGCCACGCGGACACATGTAACGAGCAGGATGGGACGGGCTGTCCATGTCAGAATAACACAGAGACGGGCACAT
 GCCAGGGCAGCTCCCCAGTGACCGTCGAGACTGCTACAAGTACCAGGTGCGCCAAGTGCCGGGAATCATTTCAC
 GGGAGTCCGCTGGGCGGCCAGCAGTGTACCGCTCATCTCGGTGAGCAGGAGTGTGCTGCTGGACCCACGTCC
 CAGACCAACTGCTTCCATGAGSCCAAACGCCGGGCGCTAGGCCCGGCCGCACTGTCTCTTTGGCGTGCAGGCC
 AAATTACCAACGTGGACATCCGCCTGACGCTGGACGTGACCTTCGGGGCCGTGGACCTCTATGTCTCCACCTCC
 TATGACACCTTCGTGGTCCGTGTGGCCCCCTGACACTGGCGTCCATACTGTACACATCCAGCCACCCCCAGCCCCA
 CCACCTCCACCACCCCTGCAGATGGTGGGCCCCGGGGGGCTGGGGATCCAGGAGGAGCAGGGGCCAGCAGTGGG
 CCGGGCGCCCCAGCAGAGCCACGGGTACGGGAGGTATGGCCGCGGGGCCCTGATTACCTACGTGACGGTGACGGAG
 CCGTCGGCAGTGTGGTGGTCCGCGGCGTGCGGGACCGGCTGGTCATCACCTACCCACACGAGCACCATGCCCTC
 AAGTCGAGCCGCTTCTACCTGCTGCTGCTGGGCGTGGGAGACCCAAGTGGGCCCCGGCGCCAACGGCTCAGCCGAC
 TCGCAGGGCCTGCTCTTCTTCCGGCAGGACCAGGCCACATTGACCTGTTTGTCTTCTTCTCCGTCTTCTTCTCC
 TGCTTCTTCTCTTCTCTCTACTCTGTGTGCTCCTCTGGAAGGCCAAGCAGGCTCTGGACCAGCGGCAGGAGCAG
 CGCCGGCACTTGCAGGAGATGACCAAGATGGCCAGCCGCCCTTCGCCAAGGTACCGTCTGCTTCCCACCTGAC
 CCTACTGCCCCGGCCTCCGCCTGGAAGCCGGCTGGGCTCCCACCTCCCGCCTTCCGCGCTCTGAGCCCTTCTTG
 GCACCCCTGCTGCTGACAGGGGCCGGTGGGCCCTGGGGACCATGGGAGGGGGCTGCTGCCACCAGCCATCCCC
 GCCACCACTGCTGGGCTGCGAGCTGGGCCCATCACTCTCGAGCCCAAGAAGATGGCATGGCTGGCGTGGCCACA
 CTGCTGCTCCAGCTGCCTGGCGGGCCCCATGCACCCAACGGCGCCTGCCTGGGGTCAGCCCTCGTCACACTGCGG
 CACAGGCTGCACGAGTACTGTGGGGGTGGTGGGGGTGCTGGGGGCAGTGGGCATGGGACTGGTGCGGGCCGGAAG
 GGACTGTTGAGCCAGGACAACCTCACCAGCATGTCCCTCTGACATGCCCAGGGTTCTCATCCACAGCAGCTGGGT
 CACCTGATAGGGCCGCCCTGGACTTGGGGTCCCTCCACCTGGGGGCCCTGGACACTGTCTACTTGGAGACCACT
 GGCCCCCTTCCCCCAGGGTTGCCCAGATGGGGCTCCTTTGTTCTGCATTACAGCAGCTATTTATCGAGTACCTAC
 TCTGTGAGGCACTGTATAGGCGTGGGGCAAAGCAGGAACCAAGAGACGAGGTTCCCTGATCTCATGGGCACTTA
 GTTCTGGTGAAGGGAGACAATCAGTGCACATGCACACACCCACACGCATACACACATGAACACATGCACATGTG
 CACACACAAGTAAGATGGCTTCAGAGAGGGAGAAGCACTGTGAGGCCTCCAGAGGATGTGGCAGTGAAGGACGAT
 GGGGTGAAGTCAGCTGGGCATTCAAAGAAGCTAGACTGAGAAGCCTGAGAAGAACCAGCTACGGGAAGAGCTTT
 GGGAAGCAAAGCGAGAGGCCCTGGGGTGGGAGCAGGCTTGTTTTATTGGAAGGACCAGAAAACCTGGTAAGTGTGA
 CCCAGATCAAGTGTGAGGAGTGAAGGCTGGGGATAGTCAGGGGCTGGATCACCCAGGGCCTTGTGGGGCCCCACAT
 AGGGTTTTTGGGTTTTATTCTCAGGGCAATGGGAAGCTGTTGGATGGTTTGATGAAGGGGAGTGACAGGATCCGAT
 GTACCTATTTAAGAAATTTAAGAGGGTTCGGGTGCGGTGGCTCATGCCTATAATCCTAGCACTTTGAGAGGCCAAGG
 TGGGCTGATCACAAAGTCAAGAGTTTCGTGACCAGCCTGGCCAATATGGTGAAACCCCATGTCTACTAAAAATACA
 AAAATTAGCTGGGCATGGTGGCACACACTTGTAGTCCGAGCTACTCGGGAGGCTGAGGCAGAAGAATCGCTTGAA
 CCCAGGAGGCGGAGGTTGCAGTGAGCTCAGATTGCGTCACTGCACCTCCACCTGGGTGACAGAGCGAGACTCCAC
 CTC

4336/5332
FIGURE 3772A

CTTCTTGTAAGAGAGTGCTAGGCACATAGCCTCCTCCTATTCTTAATCCTCCCACCAAAGAAAGAGGCACAGAGT
TCATTACTTAGTGGGGGCCAGCTGTGATCGGCCAACTGCCAGCTGCCTTAAAAAGGAAGACCAGTGATGCTAGGA
TGGAGTGAAACCCAAGAGGAAGTGCCATCATGAGGAATCAATGAGAGATCTGTGAAGAGAGAGGGCTGGGTGGGA
GCCAGAAGGATAGAACCTGGAAGATCAATATCTCCCGTGAGGGAATAACAATGGAGCCAGGTTCTAAGTCAGT
GTCTAGGTCAGACTGGCAACCTGAACCCACACCAGAGGCCTATAACCCCGCTAGAGCCTGGGCCAGAAAAGACACC
CATAGCCCAGCCAGAATCGAAGACTCTGCAGGGATCCAATACCCAACAGAAGCCTGCTTCAAACCAAAGACCCCT
CAGCCAGCAGGAGACCCCTGCACAACATGATGCTGAATCCCAGAAGGAACCTAGAGCCCAACAAAAATCTGCTTC
ACAAGAGGAATTTCTTGCCCCACAGAAGCCCGCACCACAGCAATCACCTTACATCCAAAGGGTGCTGCTCACTCA
ACAGGAAGCTGCCTCCCAGCAGGGACCTGGGCTAGGAAAAGAATCTATAACTCAACAGGAGCCAGCATTGAGACA
AAGACATGTAGCCAGCCAGGGCTGGGCCAGGAGAGCCACCTCCAGCTCAACAAGAAGCTGAATCAACACCTGC
GGCCAGGCTAAACCTGGAGCCAAAAGGGAGCCATCTGCCCGACTGAATCTACGTCCCAAGAGACACCTGAACA
GTCAGACAAGCAAACAACGCCAGTCCAGGGAGCCAAATCCAAGCAGGGATCTTTGACAGAGCTGGGATTTCTAAC
AAAACCTTCAGGAATATCCATACAGCGATCAGCCCTAGAGTGGAAGGCATTTCTGAGTGGGTACAGATTCTGA
GTCAGAATCAGATGTGGGATCATCTTCAGACACAGATTCTCCAGCCACGATGGGTGGAATGGTGGCCAGGGAGT
GAAGCTAGGCTTCAAAGGAAAATCTGGTTATAAAGTGATGTGAGGATACAGTGGGACGTGCGCCACATGAGAAAAC
CAGTGCTCGGAATCACAGACACTACCAGGATACAGCCTCAAGGCTCATCCACAACATGGACCTGCGCACAAATGAC
ACAGTCGCTGGTGACTCTGGCGGAGGACAACATAGCCTTCTTCTCGAGCCAGGGTCTGGGGAAACGGCCACGG
GCTGTAGGCGTTTTTGGCGGTGTACGGGAGCAGGCGCTGGGGCTGGAGCCGGCCCTGGGCGCCTGCTGGGTGT
GGCGCACCTCTTTGACCTGGACCCAGAGACACCGGCCAACGGGTACCGCAGCCTAGTGCACACAGCCCGCTGCTG
CCTGGCGCACCTCCTGCACAAATCCCGCTATGTGGCCTCCAACCGCCGACGATCTTCTTCCGACACAGCCACAA
CCTGGCCGAGCTGGAGGCCTACCTGGCTGCCCTCACCCAGCTCCGCGCTCTGGTCTACTACGCCACAGCGCTGCT
GGTTACCAATCGGCCCGGGGGTACTCTTCTTTGAGGGCGACGAGGGGCTCACCGCCGACTTCTCCGGGAGTATGT
CACGTGCATAAGGGATGCTTCTATGGCCGCTGCCTGGGCTTCCAGTTCACGCCTGCCATCCGGCCATTCTGCA
GACCATCTCCATTGGGCTGGTGTCTTCCGGGAGCACTACAAACGCAACGAGACAGGCCTCAGTGTGGCCGCCAG
CTCTCTCTTACCAGCGGCCGCTTTGCCATCGACCCGAGCTGCGTGGGGCTGAGTTTGAGCGGATCACACAGAA
CCTGGACGTGCACTTCTGGAAGCCTTCTGGAACATCACCGAGATGGAAGTGCTATCGTCTCTGGCCAACATGGC
ATCGGCCACCGTGAGGGTAAGCCGCTGCTCAGCCTGCCACCCGAAGCCTTTGAGATGCCACTGACTGCCGACCC
CACGCTCACGGTCACCATCTCACCCCACTGGCCACACAGGCCCTGGGCCCCGTCCTCGTCAGGCTCATCTCTTA
TGACCTGCGTGAAAGGACAGGACAGTGAGGAGCTCAGCAGCCTGATAAAGTCCAACGGCCAACGGAGCCTGGAGCT
GTGGCCGCGCCCCCAGCAGGCACCCCGCTCGCGGTCCCTGATAGTGCATTTCCACGGCGGTGGCTTTGTGGCCCA
GACCTCCAGATCCACAGAGCCCTACCTCAAGAGCTGGGCCCAGGAGCTGGGCGCCCCCATCATCTCCATCGACTA
CTCCCTGGCCCCCTGAGGCCCCCTTCCCCGTGCGCTGGAGGAGTGCTTCTTCGCTACTGCTGGGCCATCAAGCA
CTGCGCCCTCCTTGGCTCAACAGGGGAACGAATCTGCCTTGCGGGGGACAGTGCAGGCGGGAACCTCTGCTTAC
CGTGGCTCTTCGGGCAGCAGCCTACGGGGTGCGGGTGCCAGATGGCATCATGGCAGCCTACCCGGCCACAATGCT
GCAGCCTGCCGCTCTCCCTCCCGCTGCTGAGCCTCATGGACCCTTGCTGCCCTCAGTGTGCTCTCCAAGTG
GTCAGCGCCTATGCTGGTGCAAAGACGGAGGACCACTCCAACAGACCAGAAAGCCCTCGGCATGATGGGGCT
GGTGGCGGGGACACAGCCCTGCTCCTCCGAGACTTCCGCTGGGTGCCTCCTCATGGCTCAACTCCTTCTGGA
GTTAAGTGGGCGCAAGTCCCAGAAGATGTGCGAGCCCATAGCAGAGCCGATGCGCCGAGTGTGTCTGAAGCAGC
ACTGGCCAGCCCCAGGGCCCACTGGGCACGGATTCCCTCAAGAACCTGACCCTGAGGGACTTGAGCCTGAGGGG
AAACTCCGAGACGTGCTCGGACACCCCCGAGATGTGCTGTGAGCTGAGACACTTAGCCCCCTCCACACCCTCCGA
TGTCAACTTCTTATTACCACCTGAGGATGCAGGGGAAGAGGCTGAGGCCAAAAATGAGCTGAGCCCCATGGACAG
AGGCCTGGGCGTCCGTGCCGCTTCCCCGAGGGTTTCCACCCCGACGCTCCAGCCAGGGTGCCACACAGATGCC
CCTCTACTCCTCACCCATAGTCAAGAACCCCTTCATGTGCGCGCTGCTGGCACCCGACAGCATGCTCAAGAGCCT
GCCACCTGTGCACATCGTGGCGTGCAGCTGGACCCCATGCTGGACGACTCGGTCTGCTCGCGCGGCGACTGCG
CAACCTGGGCCAGCCGGTGACGCTGCGCGTGGTGGAGGACCTGCCGACAGGCTTCTGACCCTAGCGGCGCTGTG
CCGCGAGACGCGCCAGGCCGACAGCTGTGCGTGGAGCGCATCCGCTCGTCTCACTCCTCCCGCCGAGCCGG
GCCGAGCGGGGAGACGGGGCTGCGGGGTAGACGGGGCTGCGGGGGGCGACACTAAAAGCCTGTTGTTCCCAT
CTGCGCCGCGCTCCGTGATGAATGCCTTCCGGCCGGGCGGAAGGGGACGCGGGCTGTGCTTACTTAAGTCGGG

4337/5332

FIGURE 3772B

GGTGGCAAGGGGCGGGGCGGGGCCCCGAAAGCTGAGACCCTCGCCACGGGGAGGGGGACGCGCACACACACCGG
TCACCGAGACGGCTGGACCTGCACGCCACCGCTGCCTTTTGCTGCTGCTGCTGCGGCGACCGCCGCAGGGACGGG
GACTGGCCCTCCCTTGCAGGTCGGTTTGGTTTGTGTAATAAAAGTATTTAATTA

4338/5332
FIGURE 3773

CTCGCCCTCAAATGGGAACGCTGGCCTGGGACTAAAGCATAGACCACCAGGCTGAGTATCCTGACCTGAGTCATC
CCCAGGGATCAGGAGCCTCCAGCAGGGAACCTTCCATTATATTCTTCAAGCAACTTACAGCTGCACCGACAGTTG
CGATGAAAGTTCTAATCTCTTCCCTCCTCCTGTTGCTGCCACTAATGCTGATGTCCATGGTCTCTAGCAGCCTGA
ATCCAGGGGTCGCCAGAGGCCACAGGGACCGAGGCCAGGCTTCTAGGAGATGGCTCCAGGAAGGCGGCCAAGAAT
GTGAGTGCAAAGATTGGTTCCTGAGAGCCCCGAGAAGAAAATTTCATGACAGTGTCTGGGCTGCCAAAGAAGCAGT
GCCCCGTGTGATCATTTCAAGGGCAATGTGAAGAAAACAAGACACCAAAGGCACCACAGAAAGCCAAACAAGCATT
CCAGAGCCTGCCAGCAATTTCTCAAACAATGTCAGCTAAGAAGCTTTGCTCTGCCTTTGTAGGAGCTCTGAGCGC
CCACTCTTCCAATTAAACATTCTCAGCCAAGAAGACAGTGAGCACACCTACCAGACACTCTTCTTCTCCACCTC
ACTCTCCCACTGTACCCACCCCTAAATCATTCCAGTGCTCTCAAAAAGCATGTTTTTCAAGATCATTTTGTGTTGT
TGCTCTCTCTAGTGTCTTCTTCTCTCGTCAGTCTTAGCCTGTGCCCTCCCCTTACCCAGGCTTAGGCTTAATTAC
CTGAAAGATTCCAGGAACTGTAGCTTCCTAGCTAGTGTCAATTAACCTTAAATGCAATCAGGAAAGTAGCAAAC
AGAAGTCAATAAATATTTTTAAATGTCACAGATCAAAATTGTTTCCTTCAAATGGGGTCTGCCAATTCACAACCA
GATGACCCATTTTACCCTATTCACTGCAGACTGAATCCAGATTCTACACATACTTATCCCCACCAAGACCCTCAC
TCTGTCTCCATTGGCCTACTTGTTCATCTTTCATTCATTGACAAATCTTCTGAGGTAAGAGCGAGGTGGGACA
AAAAAAAAAAGCATACCAATGAACCAGACACGGTCTTATTAAAGATAATATAGGTTTAAAAAAAAA

4339/5332
FIGURE 3774

AAACAGCAGAGGTGACAGAGCAGCCGTGCTCGAAGCGTTCCTGGAGCCCCAAGCTCTCCTCCACAGGTGAAGACAG
GGCCAGCAGGAGACACCAATGGGGCACCTCTCAGCCCCACTTCACAGAGTGCCTGTACCCTGGCAGGGGCTTCTGC
TCACAGCCTCACTTCTAACCTTCTGGAACCCGCCACCCTGCCAGCTCACTACTGAATCCATGCCATTCAATG
TTGCAGAGGGGAAGGAGGTTCTTCTCCTTGTCCACAATCTGCCCCAGCAACTTTTTGGCTACAGCTGGTACAAAG
GGGAAAGAGTGGATGGCAACCGTCAAATTGTAGGATATGCAATAGGAACTCAACAAGCTACCCAGGGCCCCGAA
ACAGCGGTCGAGAGACAATATACCCCAATGCATCCCTGCTGATCCAGAAGCTACCCAGAATGACACAGGATTCT
ACACCCTACAAGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGACAGTTCATGTATACCCGGAGCTGC
CCAAGCCCTCCATCTCCAGCAACAACCTCCAACCCCTGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACCTG
AGACTCAGGACACAACCTACCTGTGGTGGATAAACAATCAGAGCCTCCCGGTGAGTCCAGGCTGCAGCTGTCCA
ATGGCAACAGGACCCTCACTCTACTCAGTGTGACAAGGAATGACACAGGACCCTATGAGTGTGAAATACAGAACC
CAGTGAGTGCGAACCGCAGTGACCCAGTCACCTTGAATGTACCTATGGCCCGGACACCCCCACCATTTCCCCTT
CAGACACCTATTACCGTCCAGGGGCAAACCTCAGCCTCTCCTGCTATGCAGCCTCTAACCACCTGCACAGTACT
CCTGGCTTATCAATGGAACATTCCAGCAAAGCACACAAGAGCTCTTTATCCCTAACATCACTGTGAATAATAGTG
GATCCTATACCTGCCACGCCAATAACTCAGTCACTGGCTGCAACAGGACCACAGTCAAGACGATCATAGTCACTG
AGCTAAGTCCAGTAGTAGCAAAGCCCCAAATCAAAGCCAGCAAGACCACAGTCACAGGAGATAAGGACTCTGTGA
ACCTGACCTGCTCCACAAATGACACTGGAATCTCCATCCGTGGTTCTTCAAAAACCAGAGTCTCCCGTCTCGG
AGAGGATGAAGCTGTCCAGGGCAACACCACCCTCAGCATAAACCTGTCAAGAGGGAGGATGCTGGGACGTATT
GGTGTGAGGTCTTCAACCCAATCAGTAAGAACCAAGCGACCCCATCATGCTGAACGTAACTATAATGCTCTAC
CACAAGAAAATGGCCTCTCACCTGGGGCCATTGCTGGCATTGTGATTGGAGTAGTGGCCCTGGTGTCTGATAG
CAGTAGCCCTGGCATGTTTTCTGCATTTTCGGGAAGACCGGCAGGGCAAGCGACCAGCGTGATCTCACAGAGCACA
AACCCTCAGTCTCCAACCACACTCAGGACCCTCCAATGACCCACCTAACAAGATGAATGAAGTTACTTATTCTA
CCCTGAACCTTTGAAGCCAGCAACCCACACAACCAACTCAGCCTCCCCATCCCTAACAGCCACAGAAATAATTT
ATTCAGAAGTAAAAAGCAGTAATGAACCTGTCTGCTCACTGCAGTGTGATGTATTTCAAGTCTCTACCCCT
CATCACTAGGAGATTCTTTCCCCTGTAGGGGTAGAGGGGTGGGGACAGAAACAACCTTTCTCCTACTCTTCCTTC
CTAATAGGCATCTCCAGGCTGCCTGGTCACTGCCCCCTCTCTCAGTGTCAATAGATGAAAGTACATTGGGAGTCTG
TAGGAAACCCAACCTTCTTGTCAATTGAAATTTGGCAAAGCTGACTTTGGGAAAGAGGGACCAGAACTTCCCCCTC
CTTCCCCCTTTTCCCAACCTGGACTTGTTTTAACTTGCCTGTTTCAGAGCACTCATTCCCTTCCCACCCCGAGTCTT
GTCCTATCACTCTAATTCGGATTTGCCATAGCCTTGAGGTTATGTCTTTTCCATTAAAGTACATGTGCCAGGAAA
CAAGAGAGAGAGAAAGTAAAGGCAGTAATGCCTTCTCCTATTTCTCCAAAGCCTTGTGTGAACCTACCAAAACACA
AGAAAATCAAATATATAACCAATAGTGAAATGCCACACCTTTGTCCACTGTGAGGGTTGTCTACCTGTAGGATCA
GGGTCTAAGCACCTTGGTGCTTAGCTAGAATACCACCTAATCCTTCTGGCAAGCCTGTCTTCAGAGAACCCACTA
GAAGCAACTAGGAAAATCACTTGCCAAAATCCAAGGCAATTCTGATGGAAAATGCAAAAGCACATATATGTTTT
AATATCTTTATGGGCTCTGTTCAAGGCAGTGTGAGAGGGAGGGGTATAGCTTCAGGAGGGAACCACTTCTGA
TAAACACAATCTGCTAGGAACTTGGGAAAGGAATCAGAGAGCTGCCCTTCAGCGATTATTTAAATTATTGTAA
GAATACACAATTTGGGGTATTGGGATTTTTCTCCTTTTCTCTGAGACATTCCACCATTTTAAATTTTGTAACTGC
TTATTTATGTGAAAAGGGTATTTTTACTTAGCTTAGCTATGTCAGCCAATCCGATTGCCTTAGGTGAAAGAAAC
CACCGAAATCCCTCAGTCCCTTGGTCAGGAGCCTCTCAAGATTTTTTTGTGAGAGGCTCCAAATAGAAAATAA
GAAAAGGTTTTCTTATTATGGCTAGAGCTAGATTTAACTCAGTTTCTAGGCACCTCAGACCAATCATCAACTA
CCATTCTATTCCATGTTTGACCTGTGCATTTTCTGTTTGGCCCCATTCACTTTGTGAGGAAACCTTGGCCTCTG
CTAAGGTGTATTTGGTCTTGAGAAGTGGGAGCACCTACAGGGACACTATCACTCATGCTGGTGGCATTGTTTA
CAGCTAGAAAGCTGCACTGGTGCTAATGCCCCCTTGGGGAATGGGGCTGTGAGGAGGAGGATTATAACTTAGGCC
TAGCCTCTTTTAAACAGCCTCTGAAATTTATCTTTTCTTCTATGGGGTCTATAAATGTATCTTATAATAAAGGA
AGGACAGGAGGAAGACAGGCAATGTACTTCTCACCAGTCTTCTACACAGATGGAATCTCTTTGGGGCTAAGAG
AAAGGTTTTATTCTATATGCTTACCTGATCTCATGTATTAGGCTTAAGAGGCTTTCTCCAGGAGGATTAGCTTGA
GTTCTCTATACTCAGGTACCTCTTTCAGGGTTTTCTAACCCCTGACACGGACTGTGCATACTTTCCCTCATCCATG
CTGTGCTGTGTTATTTAATTTTTCTGGCTAAGATCATGTCTGAATTATGTATGAAAATTATTCTATGTTTTAT
AATAAAAATAATATATCAGACATCG

4340/5332
FIGURE 3775

TTTGAGCCATTTCTGCGTCTTGCAAGGACATTTTGAACGAACCCCTTTGCTTGAGGCTCGCAACCACCCGATGAT
CGATGATCGTCTCAGGGGAAAAGAAGCCTTGGCGAAGAGCAGAGGTTTAGAGGCACAATTCTGCTTTCCCTGGAA
CTGTGTCAATTCAGGACTCTGCAAATTCCTAAAGTAGGAGGAAAAATGACCATGTCCAAGGAGGCAGTGACCTTC
AAGGATGTGGCAGTGGTCTTCACTGAGGAGGAGCTGGGGCTGCTGGACCTTGCCCAGAGGAAGCTGTATCGAGAT
GTGATGCTGGAGAACTTCAGGAACCTGCTGTGAGTGGGGCATCAACCATTCCACCGAGATACTTTCCACTTTCTA
AGGGAGGAAAAAGTTTTGGATGATGGATATAGCAACCCAAAGGGAAGGGAATTCAGGAGGCAAGATCCAACCTGAG
ATGAAGACTTTTCCAGAAGCAGGACCACATGAAGGGTGGTCCTGCCAGCAGATCTGGGAAGAAATTGCAAGTGAT
TTAACCAGGCCTCAAGACTCTACCATAAAGAGCTCTCAGTTCTTTGAACAGGGTGATGCCCACTCCCAGGTTGAG
GAAGGACTATCTATAATGCACACAGGACAGAAACCTTCCAATTGTGGGAAGTGTAACAATCCTTCAGTGATATG
TCCATCTTTGATCTTCTCAGCAAATACGCTCAGCAGAGAAGTCTCATTCTGTGATGAGTGTTGGAAAAAGCTTC
TGTTACATCTCAGCGCTTCATATTCATCAGAGAGTCCACCTGGGAGAGAACTCTTTAAGTGTGACGTGTGTGGT
AAGGAATTCAAGTCAGAGTTTACATCTGCAAACTCATCAGAGAGTCCATACTGGAGAGAAACCTTTCAAATGTGAA
CAATGTGGGAGAGGCTTCAGATGTAGATCAGCACTTACAGTTCATTGCAAATTACACATGGGAGAGAAACATTAT
AATTGTGAGGCATGTGGGAGGGCCTTCATTCATGATTTCCAGCTTCAGAAACATCAGAGAATTCACACAGGGGAG
AAGCCATTCAAATGTGAGATATGTAGTGTGAGCTTCCGTCTTAGGTCAAGTCTTAATAGGCATTGTGTGGTCCAC
ACAGGAAAGAAACCAAACAGCACTGGGGAATATGGAAAAGGCTTCATTCGTAGGCTGGATTGTGTGAAGCATCAG
ACGATCCACACAGGAGAGAAACCATATAATTGTAAAGAATGTGGGAAGAGCTTCAGACGGTCTCCTATCTTTTG
ATCCATCAGCGAGTCCACACTGGAGAAAAGCCATACAAATGTGACAAGTGTGGGAAGAGCTACATTACTAAGTCA
GGTCTTGACTTGCACCATAGAGCCCACACAGGAGAGAGACCTTATAACTGTGATGACTGTGGGAAGAGCTTTAGA
CAGGCCTCAAGTATTTTGAATCATAAGAGACTCCATTGCCGAAAAAAACCATTCAAATGTGAGGATTGTGGAAAG
AAGCTTGTATACCGGTCATACCGTAAAGACCAACAAAAAAACCACAGTGGAGAAAATCCATCCAAATGTGAAGAC
TGTGGGAAGCGCTACAAGAGGCGCTGAATCTTGATATAATTTTATCATTATTTTAAATGACACGTAAGTGTG
TACATATTTATGGGGTACAGTGTGATATTTAAATATATGTATATGATGTATAATGATCAAATCAGTGTAAATTAGC
ACATTTATCACCTCAATTATCTTTTTTGTGTTGAGAAAATTAAAAATTCATTGTTCCAGCAGTTTGAAAATAA
ATTGTTGTGATGATAGTCACCTTTAGTGTGCTGCAGAACAGCAGAACTTCTTCTCTTATCTACCTGTACTTTTGC
ATCCATTAGCCAACCTTTGGCCATCCCACCTATCCCTTACCCTTCCCTGCCTCTAGAGCCACTGTTCTCACTACT
TCTAAGAAATCAGCTTTTTTAAGCTTCCCATGTGAT

4341/5332
FIGURE 3776

GAGCCTGCGGTTGCTACATAACCGCGTAGTTTGAGCCATTTCTGCGTCTGGCGGGTCCTTCTGAACTTGTACCT
TCGCTTGGGGTCGCAACGACCCGATGATCGATGATCCAAGCAAGGGAAAAGAAGCCTTGGCGGAGAGCGGAGGCA
CAATTCCACCTTCCTTTGTGCTCCATTACTCAAGACACTGAAGACTCCAAAAAGTAGTAGGAAAAATGACCACAT
TCAAGGAGGCAGTGACCTTCAAGGATGTGGCTGTGTTCTTCACTGAGGAGGAACCTGGGGCTACTGGACCCTGCCC
AGAGGAAGCTGTACCAAGACGTGATGCTTGAGAACTTCACGAACCTGCTGTCACTGGGGCATCAACCATTCCACC
CTTTCCACTTCCTAAGGGAAGAAAAGTTTTGGATGATGGAGACAGCAACCCAAAGAGAAGGAAATTCAGGCGGCA
AGACTATTGCGGAAGCAGGACCACATGAAGACTGCCCTTGCCAGCAAATCTGGGAACAACTGCAAGTGAATTAA
CCCAGTCTCAAGACTCCATCATAAATAATTCTCACTTCTTTGAACAAGGTGATGTCCCTCCCAGGTTGAGGCAG
GACTATCTATAATTACATACAGGACAGAAACCTTCACAGAATGGGAAGTGTAACAGTCCTTCAGTGATGTTGCCA
TCTTTGATCCTCCTCAGCAGTTCCACTCAGGAGAGAAGTCTCATAATGCAATGAGTGTGGAAAAAGCTTCTGTT
ACATCTCAGCTCTTCGTATTACCCAGAGAGTTCACTTGAGAGAGAACTCTCTAAGTGTGACATGCGTGGTAAGG
AATTCAGTCAGAGCTCATGTCTGCAAACTCGTGAGAGAGTCCACACTGGAGAGAAACCATTCAAATGTGAGCAAT
GTGGGAAAGGCTTCAGATGTAGAGCGATACTTCAAGTTCAGTCAAATTACACACAGGAGAGAAACCTTATATTT
GTGAGAAATGTGGGAGGGCCTTCATTACGATTTCCAGCTTCAGAAACATCAGATAATTCATACTGGGGAGAAGC
CGTTCAAATGTGAAATATGTGGTAAGAGCTTCTGCCTTAGGTCAAGTCTTAATAGGCATTGCATGGTCCACACAG
CAGAGAACTGTACAAATCTGAGGAGTGTGGAAAAGGCTTCACTGATAGCCTAGATTGCATAAGCATCAGATAA
TTCACACAGGACAGAAACCGTACAATTGTAAAGAATGTGGGAAGAGCTTCAGATGGTCCTCATATCTTTTGATCC
ATCAGCGAATCCACAGTGGAGAAAACCATACAGATGTGAGGAGTGTGGGAAGGGCTACATTAGTAAGTCAGGTC
TTAAGTGTGACCAAGAGGGTCCATACTGGAGAGAGACCTTATAATTGTAAGGAATGTGGGAAGAGCTTTAGCCGGG
CTTCAAGTATTTTGAATCATAAGAACTCCACTGCCGGAACCAACCTTCAAATGTGAGGATTGTGGAAAGAGGC
TTGTACACCGGTCTTTCTGTAAAGACCAACAGGAGACCACAATGGAGAAAACCTCATCCAAATGTGAGGACTGTG
GGAAGCGCTACAAGAGGCGCTTGAATCTGGATATAATTTTATCATTATTTTAAATGATATGTAAGTTGTACATA
TATATGGGATATGGTATGAAATTTTAAATATGTGTATATAATACGTAATGATCAAATTGATGTAATTAGTGTATTA
CCTTAAACAATTAACATTTCTTTGTTTTGGGAAAATTCAAATCCATTGTTCTAGCGATTTGAAAAGAAACAATA
AATTATTGTTGATTATAGTC

4342/5332
FIGURE 3777

TTTTTTTTTTGGCCAAACTCTCATGGCTTTTTTCTCCTTCCCTCATGTTTTCTCCTTCCCTCTTAAGACTTGGCA
CTTCTCCAGAAGGAGGAGGACAAAATGACGAAGTCTAAGGAGGCAGTGACATTCAAGGACGTGGCTGTGGTCTTC
TCTGAGGAGGAGCTGCAACTGCTGGACCTTGCCAGAGGAAGCTGTACCGAGATGTGATGCTGGAGAAGCTTCAGG
AATGTGGTCTCAGTGGGGCATCAGTCCACACCAGATGGCCTACCACAGTTAGAGAGAGAAGAAAAGCTGTGGATG
ATGAAGATGGCAACCCAGAGAGATAACTCCTCAGGAGCCAAGAATCTAAAAGAGATGGAGACTCTTCAAGAAGTA
GGATTAAGGTACCTGCCCTCATGAAGAGCTTTTTCTGCTCCAGATCTGGCAACAGATTACAAGAGAGTTAATCAAG
TATCAAGATTCTGTGGTAAATATTCAAAGAACAGGCTGCCAGTTGGAAAAACGAGATGATTGCACTATAAAGAT
GAGGGATTCAAGTAATCAGAGTTCCCATCTTCAAGTTCACAGAGTCCACACTGGTGAAAAACCTACAAAGGAGAA
CATTGTGTGAAAAGTTTTAGCTGGAGCTCTCATCTTCAAATTAACCAAAGGGCTCATGCAGGAGAGAAGCCCTAC
AAATGTGAAAAATGTGATAATGCCCTTCCGTCGGTTTTCAAGTCTTCAAGCCCATCAGAGAGTCCACAGTAGAGCA
AAATCATAACAAATGATGCAAGTTACAGGAGTTTTAGTCAGAGGTCACATCTTCCCATCATCAGAGAGTTCCC
ACTGGAGAGAATCCATACAAATATGAAGAGTGTGGGAGGAATGTTGGGAAAAGCTCACATTGTCAAGCTCCTCTG
ATAGTTCATACGGGAGAGAAACCTATAAATGTGAGGAGTGTGGGGTGGGCTTCAGTCAGAGATCATATCTTCAA
GTTTCTCTGAAAGTTCACACTGGAAAGAAACCATATAAGTGTGAAGAGTGTGGGAAGAGCTTCAGTTGGCGTTCA
CGACTGCAGGCTCATGAGCGAATCCACACTGGCGAGAAACCATACAAATGCAATGCATGTGGCAAGAGCTTTAGT
TACAGCTCACACCTTAATATTCTATTGTAGAATCCACACAGGAGAGAAACCTATAAGTGTGAGGAGTGTGGGAAA
GGTTTTAGTGTGGGTTTACACCTTCAGGCCCCATCAGATAAGCCACACTGGAGAGAAGCCATACAAATGTGAGGAG
TGTGGGAAAGGCTTCTGCCGGGCTCAAATCTGCTGGACCATCAAAGAGGCCATACTGGAGAGAAACCGTATCAG
TGTGATGCATGTGGTAAGGGCTTCAGTCGTAGCTCAGATTTTAACTTCAATTTAGAGTCCATACAGGGGAAAAA
CCCTATAAATGTGAGGAGTGTGGCAAGGGCTTCAGCCAGGCTCAAATCTTCTGGCCCATCAAAGAGGCCACACT
GGAGAGAAACCTACAAATGTGGTACATGTGGGAAGGGCTTCAGTCGGAGCTCAGATCTTAATGTACACTGTAGA
ATCCACACAGGAGAGAAACCTATAAATGCGAGAGGTGTGGTAAGGGCTTCAGTCAGTTCTCCAGCCTTCAGGTG
CATCAGAGAGTTTCACTGGAGAGAAACCATATCAGTGTGCAGAGTGTGGGAAGGGCTTCAGTGTAGGTTTACAG
CTTCAAGCCCATCAGAGGTGCCACACTGGAGAGAAACCTATCAATGTGAGGAGTGTGGGAAGGGCTTCTGTCCG
GCCTCCAATTTTCTGGCACATCGTGGAGTCCACACAGGAGAGAAACCATACCGATGTGATGTGTGTGGTAAGCGC
TTCAGACAGAGATCTTACCTTCAAGCCCACAGAGGGTCCACACAGGAGAGAGACCATACAAATGTGAGGAATGT
GGGAAAGTCTTCACTGGAGCTCATACCTTCAAGCCCATCAAAGAGTTCACACCGGAGAGAAACCATACAAATGT
GAGGAGTGTGGGAAGGGCTTCAGTTGGAGCTCAAGTCTTATCATTTCAGCGAGTCCATGCTGATGATGAGGGT
GACAAGGACTTTCTTTCATCAGAGGATTCACACAGGAAAACTCGATAAATATGTTTTACTATCTCAGATGGGTG
CTGAAATATTTTAATAATCAGAGCTATCATAGACAAAACATTTGTTTTATAGAGTCAGTAGTTTCAAGCAAGTGAT
TGGGAGACCACACAGCAGAGAAGCCTCACAAAGAGTGGAGACATATGGACTGCATTCAGAACATTGACCATTAGCT
GATACATGCAGACAAGAGGATCAGGAAGGATGAGTCTGATCTGGAGTAAATCAGAAGTACTAAGATAGAAATGCT
GAATTC

4343/5332
FIGURE 3778

ATGCCCCGGGTGCCATTGACATTCAGCGATGTTGCCATAGACTTCTCTCAGGAGGAGTGGGAATATTTAAACTCG
GATCAGAGGGATTTGTACAGAGATGTGATGTTGGAGAATTATACTAACTTGGTCTCATTGGACTTTAATTTACACA
ACTGAAAGCAACAAGTTATCTTCAGAAAAAAGAAATTATGAAGTAAATGCGTACCATCAGGAGACATGGAAAAAGA
AATAAAACCTTCAACCTTATGAGGTTTATTTTCAGAACTGACCCACAGTACACAATTGAATTTGGGAGACAACAG
AGACCTAAAGTGGGATGTTTTAGTCAAATGATATTCAAAAAACATAAAATCCCTTCCTCTACATAAGAGAAAATAAC
ACAAGAGAGAAAATCATATGAGTGTAAAGGAATATAAGAAGGGCTTTAGAAAATATTTGCACCTTACTGAACATCTG
AGAGACCATACTGGTGTGATACCCATGAATGTAATGAATGTGGAAAAGCATTGTAGTTTTCCAGCATTTTATT
AGACATCGAAAAATCCACACTGATTTGAAACCCTATGAATGCAATGGATGTGAGAAGGCCTTTAGGTTTTATTCA
CAGCTTATTCAGCATCAGATAATTCATACTGGTATGAAACCCTATGAATGTAAGCAATGCCGGAAGGCCTTTAGA
CGTCATTCTCACCTTACAGAACATCAGAAAATTCATGTTGGCTTGAAACCCTTTGAATGTAAGGAATGTGGGGAA
ACGTTTAGATTATATCGACATATGTGTCTGCATCAGAAAATTCATCATGGTGTGAAACCCTACAAATGTAAAGAA
TGTGGAAAGGCCTTTTGGTCATCGTTCAAGTCTTTACCAACATAAGAAAATTCATTCTGGTGAGAAACCATATAAA
TGTGAACAATGTGAAAAGGCCTTTGTTCGCAGCTATCTACTTGTGAAACATCAAAGAAGTCATACTGGTGAGAAA
CCTCATGAATGCATGGAATGTGGAAAGGCCTTTTGGTAAGGGCTCAAGCCTTCTTAAACATAAGAGAATTCATAGT
AGTGAGAACTCTATGATTGTAAGGATTGTGGAAAGGCCTTTTGTAGAGGCTCTCACTTACACAGCATCAGAGA
ATTCATACTGGTGAGAAGCCACATGAATGTAAAGAATGTGGGAAGACTTTTAAGCTTCATTCATATCTTATTCAA
CATCAGATAATTCATACTGATTTGAAGCCATATGAATGTAAGCAATGTGGGAAGGCCTTCAGTCGTGTGGAGAC
CTTAAGACACATCAATCAATTCATGCTGGGGAGAAACCCTATGAATGTAAGGAATGTGGAAAAACCTTTAGACTT
AATTCTCAACTAATTTATCATCAGACAATTCATACTGGTTTGAAACCCTATGTATGTAAAGAATGTAAAGAAGGCC
TTTCGTTCTATCTCAGGTCTTTCTCAACATAAGAGAATTCATACTGGTGAAAAACCCTATGAATGTAAAGAATGT
GATAAGGCCCTTTAATCGCAGTGATCGACTTACTCAACATGAGACAATTCATACTGGTGTGAAACCACAGAAATGC
AAAGAATGTGGTAAGGCCTTTAGTCATTGCTATCAACTTAGTCAACATCAAAGATTTACCATGATCTTATCCAG
AATGAACATCTGAAATTCAAATGGATGAGTGGTTATGGGAAGCTTTCTGAATTCATTCTCAAACCGTTGTG
CCTCTCCTAAGAATTCACCAGTAG

4344/5332
FIGURE 3779

GTCCTTCGGTGTCTGGGTGTGGTGAGTAGAGGTGTGTGTCACAAAGTACAGACCATTTGTGTGTGACAAAGCCCAT
CGTGTGTCTGTGTGTGTCTTTATCCAGTGGATGGACGTCTCTTTCTTGCTCTGCCCCAAGACACACCCTAGCCC
CTCCTTATTCTCAAAGGGGGAGCTGGGGAGCCTCCCCCTACCCTGGGGCCTCCCCTGCCCCCTCCCCGCCCTGCC
TGGCCGTCAACCACTCCCAGAGGGCACAGGGCTCTGCTGTGCCTCAGAGCAAAGTCCCAGAGCCAGCAGAGCAG
GCTGACGACCTGCAAGCCACAGTGGCTGCCCTGTGCGTGTGCGAGGTGGGGGACCCTGGGCAGGAAGCTGGCTG
AGCCCCAAGACCCCGGGGGCCATGGGCGGGGATCTGGTGCTTGGCCTGGGGGCCCTTGAGACGCCGAAAGCGCTTG
CTGGAGCAGGAGAAGTCTCTGGCCGGCTGGGCACTGGTGCTGGCAGGAAGTGGCATTGGACTCATGGTGCTGCAT
GCAGAGATGCTGTGGTTCGGGGGGTGCTCGTGGGCGCTCTACCTGTTCTTGGTTAAATGCACGATCAGCATTTCC
ACCTTCTTACTCCTCTGCCTCATCGTGGCCTTTTCATGCCAAAGAGGTCCAGCTGTTTCATGACCGACAACGGGCTG
CGGGACTGGCGCGTGGCGCTGACCGGGCGGCAGGCGGCGCAGATCGTGTGGAGCTGGTGGTGTGTGGGCTGCAC
CCGGCGCCCGTGCGGGGCCCGCCGTGCGTGCAGGATTTAGGGGCGCCGCTGACCTCCCCGCAGCCCTGGCCGGGA
TTCCTGGGCCAAGGGGAAGCGTGCTGTCCCTGGCCATGCTGTGCTGCGTCTCTACCTGGTGCCCCGCGCCGTGCTC
CTGCGCAGCGGCGTCTGCTCAACGCTTCTACCGCAGCATCGGCGCTCTCAATCAAGTCCGCTTCCGCCACTGG
TTCGTGGCCAAGCTTTACATGAACACGCACCCTGGCCGCTGCTGCTCGGCCTCACGCTTGGCCTCTGGCTGACC
ACCGCCTGGGTGCTGTCCGTGGCCGAGAGGCAGGCTGTTAATGCCACTGGGCACCTTTCAGACACACTTTGGCTG
ATCCCCATCACATTCTGACCATCGGCTATGGTGACGTGGTGCCGGGCACCATGTGGGGCAAGATCGTCTGCCTG
TGCACTGGAGTCATGGGTGTCTGCTGCACAGCCCTGCTGGTGGCCGTGGTGGCCCGAAGCTGGAGTTTAAACAAG
GCAGAGAAGCACGTGCACAACTTCATGATGGATATCCAGTATACCAAAGAGATGAAGGAGTCCGCTGCCCGAGTG
CTACAAGAAGCCTGGATGTTCTACAAACATACTCGCAGGAAGGAGTCTCATGCTGCCCGCAGGCATCAGCGCAAG
CTGCTGGCCGCCATCAACGCGTTCGCCAGGTGCGGCTGAAACACCGGAAGCTCCGGGAACAAGTGAAGTCCATG
GTGGACATCTCCAAGATGCACATGATCCTGTATGACCTGCAGCAGAATCTGAGCAGCTCACACCGGGCCCTGGAG
AAACAGATTGACACGCTGGCGGGGAAGCTGGATGCCCTGACTGAGCTGCTTAGCACTGCCCTGGGGCCGAGGCAG
CTTCCAGAACCAGCCAGCAGTCCAAGTACCTGGACCCACGAGGAGGAACCAGGCTACTTTCCCCAGTACTGAGG
TGGTGGACATCGTCTCTGCCACTCCTGACCCAGCCCTGAACAAAGCACCTCAAGTGCAAGGACCAAAGGGGGCCC
TGGCTTGGAGTGGGTGGCTTGTGTATGGCTGCTGGAGGGGACGCTGGCTAAAGTGGGTAGGCCTTGGCCCACCT
GAGGCCCCAGGTTGGGAACATGGTCACCCCCACTCTGCATACCCTCATCAAAAACACTCTCACTATGCTGCTATGG
ACGACCTCCAGCTCTCAGTTACAAGTGCAGGCGACTGGAGGCAGGACTCCTGGGTCCCTGGGAAAGAGGGTACTA
GGGGCCCGGATCCAGGATTCTGGGAGGCTTCAGTTACCGCTGGCCGAGCTGAAGAACTGGGTATGAGGCTGGGGC
GGGGCTGGAGGTGGCGCCCCCTGGTGGGACAACAAAGAGGACACCATTTTCCAGAGCTGCAGAGAGCACCTGGT
GGGGAGGAAGAAGTGTAACTCACCAGCCTCTGCTCTTATCTTTGTAATAAATGTTAAAGCCAG

4345/5332
FIGURE 3780

ATGGCTGCAATTGATGAGGAAGGAGGGAGAGAGATAGGAGATGAAGTCAATATATTGGTGAAGGAACAGACACAG
TTAGGGGTCAAGACTCTCATGAGGTTACTCAAGGAACCAGAGAAAGAACGGGACTCAGACTCAGATTTCTCCCCCT
CTTCAGCAGACTGAGGGATGCCAGCGAAGAGACAAGCACTTCCGTCATGCAGAAAACCCCATCATCCTCTCAA
ACCTCCAGCAGAGCGGCCCCCTCTGGAGAAGCCCATCGTTCTCATGAAGCCACGGGAGGAGGGGAAGGGGCTGTG
GCCGTGACAGGTGCCTCTACCCCTGAGGGCACCGCCCCACCACCCCTGCAGCCCCTGCGCCACCCAAGGGGGAG
AAGGAGGGGCAGAGACCCACACAGCCTGTGTACCAGATCCAGAACCAGGGGCATGGGCACTGCCGCACCAGCAGCC
ATGGACCCTGTCTGTGGGTCAGGCCAACTACTGCCCCCAGAGCGCATGAAGCACAGCATCAAGTTGGTGGATGAC
CAGATGAATTGGTGTGACAGTGCCATCGAGTACCTGTTGGATCAGACTGATGTGTTGGTGGTTGGTGTCTGGGC
CTCCAGGGGACAGGCAAGTCCATGGTCATGTTCATTGTTGTGAGCCAACTCCAGAGGAGGACCAGAGGACTTAT
GTTTTCCGGGCCCAGAGCGCTGAAATGAAGGAACGAGGGGGCAACCAGACCAGTGGCATCGACTTCTTTATTACC
CAAGAACGGATTGTTTTCTGGACACACAGCCCCATCCTGAGCCCTTCTATCCTAGACCATCTCATCAATAATGAC
CGAAACTGCCTCCAGAGTACAACCTTCCCCACACTTACGTTGAAATGCAGTCACTCCAGATTGCTGCCTTCCTT
TTCACGGTCTGCCATGTGGTGATTGTGTGCCAGGACTGGTTACAGACCTCAGTCTCTACAGGCTGTGGGACCTG
GGGTGCAAGTGCAAGAGCAACAGCCACTCACCCCAAACCCCAAGGTTCTTCGAGACAGCAGAGATGGTGAAGCCC
TCCACCCCATCCCCAGCCACGAGTCCAGCAGCTCATCGGGCTCCGATGAAGGCACCGAGTACTACCCCACTA
GTCTTCTTGCAAGCAAAGCTCGCCGAGAGGACTTCTGTCTCGGAAGCTGCGGCAGATGCACCTGATGATTGAC
CAGCTCATGGCCCACTCCCACCTGCGTTACAAGGGAACCTCTGTCCATGTTACAATGCAATGTCTTCCCGGGGCTT
CCACCTGACTTCTTGACTCTGAGGTCAACTTATTCTTGGTACCCTTCATGGACAGTGAAGCAGAGAGTGAAAAC
CCACCAAGAGCAGGACCTGGTTCCAGCCCACTCTTCTCCCTGCTGCCCTGGGTATCGTGGCCACCCAGTTTCCAG
TCCTTGGTGAGCAAGCTCCGGAGCCAAGTGATGTCCATGGCCCGGCCACAGCTGTCACACACGATCCTCACCAG
AAGAACTGGTTCCACTACGCTGCCCGGATCTGGGATGGGGTGAGAAAGTCTCTGCTCTGGCAGAGTACAGCCGC
CTGCTGGCCT**TGA**

4346/5332
FIGURE 3781

CAGTATCCCTCCTGACAAAACCTAACAAAAATCCTGTTAGCCAAATAATCAGCCACATTTCATATTTACCGTCAAAG
TTTTTATCCTCATTTTACAGCAGTGGAGAGCGATTGCCCCGGGTCCCACGTTAGGAAGAGAGAGAACTGGGATTT
GCACCCAGGCAATCTGGGGACAGAGCTGTGATCACAACTCCATGAGTCAGGGCCGAGCCAGCCCCCTTACCACCA
GCCGGCCGCGCCCCGGAAGGGAAGTTTGTGGCGGAGGAGGTTTCGTACGGGAGGAGGGGAGGCGCCACGCATC
TGGGGCTGACTCGCTCTTTCGCAAAACGTCTGGGAGGAGTCCCTGGGGCCACAAAACCTGCCTCCTTCCCTGAGGCC
AGAAGGAGAGAAGACGTGCAGGGACCCCGCGCACAGGAGCTGCCCTCGCGACATGGGTACCCGCGCTGCTGCC
GCTGCTGCTGCTGCCACACCTGCGTCCCAGCCTCTTGGGGCCTGCGGTGCATGCAGTGTAAGACCAACGGGGA
TTGCCGTGTGGAAGAGTGCGCCCTGGGACAGGACCTCTGCAGGACCACGATCGTGCCTTGTGGGAAGAAGGAGA
AGAGCTGGAGCTGGTGGAGAAAAGCTGTACCCACTCAGAGAAGACCAACAGGACCCTGAGCTATCGGACTGGCTT
GAAGATCACCAGCCTTACCGAGGTTGTGTGTGGGTTAGACTTGTGCAACCAGGGCAACTCTGGCCGGGCTGTCAC
CTATTTCCCGAAGCCGTTACCTCGAATGCATTTCTGTGGCTCATCAGACATGAGCTGTGAGAGGGGCCGACCA
GAGCCTGCAGTGCCGAGCCCTGAAGAACAGTGCCTGGATGTGGTGACCCACTGGATCCAGGAAGGTGAAGAAGG
GCGTCCAAAGGATGACCGCCACCTCCGTGGCTGTGGCTACCTTCCCGGCTGCCCGGGCTCCAATGGTTTCCACAA
CAACGACACCTTCCACTTCCCTGAAATGCTGCAACACCACCAATGCAACGAGGGCCCAATCCTGGAGCTTGAAAA
TCTGCCGAGAAATGGCCGCCAGTGTTACAGCTGCAAGGGGAACAGCACCCATGGATGCTCCTCTGAAGAGACTTT
CCTCATTGACTGCCGAGGCCCCATGAATCAATGTCTGGTAGCCACCGGCACTCACGAACCGAAAAACCAAGCTA
TATGGTAAGAGGCTGTGCAACCGCCTCAATGTGCCAACATGCCACCTGGGTGACGCCTTCAGCATGAACCACAT
TGATGTCTCCTGCTGTACTAAAAGTGGCTGTAAACACCCAGACCTGGATGTCCAGTACCGCAGTGGGGCTGCTCC
TCAGCCTGGCCCTGCCCATCTCAGCCTCACCATCACCCTGCTAATGACTGCCAGACTGTGGGGAGGCACTCTCCT
CTGGACCTTAAACCTGAAATCCCCCTCTCTGCCCTGGCTGGATCCGGGGGACCCCTTTGCCCTTCCCTCGGCTCCC
AGCCCTACAGACTTGCTGTGTGACCTCAGGCCAGTGTGCCGACCTCTCTGGGCCTCAGTTTTCCAGCTATGAAA
ACAGCTATCTCACAAAGTTGTGTGAAGCAGAAGAGAAAAGCTGGAGGAAGGCCGTGGGCCAATGGGAGAGCTCTT
GTTATTATTAATATTGTTGCCGCTGTTGTGTTGTTGTTATTAATTAATATTTCATATTATTTATTTATACTTACA
TAAAGATTTTGTACCACTGG

4347/5332
FIGURE 3782

CTGCCCCGCACACGCACGCGCGAACCCTTCAGCTTCTTGTTCCTTTGGGCCGCGGGCTGTACCAAGTAAACCCAG
GCAGCGAGGGGCAAAGCACGGCGCCCCCGCGGGTCTCGTCGACGGCCGACGCGCATAGCCCCTCTTCCCAC
AGCGCTACAGGACTAGTCCGTCTCGCCGCGCAAGCGCCCTAGGCTCTTCACGCCCCCTGCGCGCTGTCTACCCCT
ACTTGCGACGCAGGCGCAGAGGCTGGGCGTGCAGCCGCCGCCGAGAGCCGAGCGGGGGCCGCCGGCGCCGCAT
CCCTCTCTACCTGCCAACATCCTGTATTAGAGAACTTGTGGCCGGAGGTGTGGCTGTGGAGAGCTGGCCGGGGAG
GGACGCTGCTCAGCTGCTGCTCTGCTCCTGTCTCCTGTCCCCCTCCCCCGGTCATGACAGAGACCCGTGAGCCAGC
TGAGACTGGGGGCTACGCCAGCTTGGAAGAAGATGATGAAGACCTTTCCCCAGGCCCCGAGCATTCTCTGATTCT
AGAATACACTCTCTCAGAGCCGGACTCCGAAGAGGAAGAAGATGAGGAGGAGGAGGAAGAGGAGACCACTGACGA
TCCTGAATATGATCCTGGCTACAAGGTGAAGCAGCGCCTTGGCGGGGGCCGTGGTGGCCCATCCCGCCGGGCCCC
CCGTGCAGCCCAGCCCCGGCCCAGCCTTGCCAGCTCTGTGGCCGCTCACCCCTTGGGGAGGCCCCACCGGGAAC
CCCACCCTGCCGGCTCTGCTGCCCTGCTACAGCCCCCAGGAAGCACCAGCCCCCTGAAGGCAGGGCCCTCGGGGA
GGAAGAGGAGGAACCACTCGGGCTGGGGAGGGCCGACCAGCTGGGCGGGAGGAGGAGGAGGAAGAGGAGGAGGA
GGGAACCTACCACTGTACGGAATGTGAGGATTCTTCGACAACCTGGGGGAGCTGCACGGGCACTTCATGCTGCA
TGCCCGGGGTGAGGTGTAGGCAGAGCCCCCATAACGGGGAGCTTGGCAGAAGGGGTGGGGTGGGAGGAGGGGGCTG
AGGAAATTGGGGTTGTGACAGTGGTCATGGGGGATGGGGTACTGCCGGTCTGTGTGTCTTAGAAGTAGATGTGT
GATGGCCAGAATAAAAGCCAAAATCTGT

4348/5332
FIGURE 3783

ACTTTAGCCAGCGCAGGGCGCACCCCGCCCCCTCCCACTCTCCCTGCCCTCGGACCCCATACTCTACCTCATCC
TTCTGGCCAGGCGAAGCCCACGACGTTGACATGCGGAGATCCGCCTCCGCCATGTCGTGTCTGCAGCAGCCAG
GACTCGACTCACTGTGCAGAAAATCTTCTCAAGGCAGACACTTACCGAAAATGGCGGGCAGCCAAGGCAGGCGAG
AAGACCATCTCTGTGGTCCACAGTTGGAGAAGGAGGAGCAGATACACAGTGTGGACATTGGGAATGATGGCTCA
GCTTTCGTGGAGGTGCTGGTGGGCAGTTCAGCTGGAGGCGCTGGGGAGCAAGACTATGAGGTCCTTCTGGTCACC
TCATCTTTCATGTCCCTTCCGAGAGCCGAGTGGCTCAAACCCCAACCGCGTTTCGCATGTTTGGGCCTGACAAG
CTGGTCCGGGCAGCCGCCGAGAAGCGCTGGGACCGGGTCAAATTTGTTGCAGCCAGCCCTACAGCAAGGACTCC
CCCTTTGGCTTGAGTTTTGTACGGTTTCATAGCCCCCAGACAAAGATGAGGCAGAGGCCCCGTCCAGAAAGTG
ACAGTGACCAAGCTTGGCCAGTTCCTGTGAAGGAGGAGGATGAGAGCGCCAACTCTCTGAGGCCGGGGCTCTC
TTCTTCAGCCGGATCAACAAGACATCCCCAGTTCACAGCCAGCGACCCAGCAGGACCTAGCTATGCAGCTGCTACC
CTCCAGGCTTCTAGTGTGCTCCTCAGCCTCTCCAGTCTCCAGGGCCATAGGCAGCACCTCCAAGCCCCAGGAG
TCTCCCAAAGGGAAGAGGAAGTTGGATTGAACCAAGAAGAAAAGAAGACCCCCAGCAAACCACCAGCCAGCTG
TCGCCATCTGTTCCCAAGAGACCTAAATTGCCAGCTCCAACCTCGTACCCACGCCACAGCCCCAGTCCCTGCCCGA
GCACAGGGGGCAGTGACAGGCAAACCCCGAGGAGAAGGCACCGAGCCAGACGACCCCGAGCTGGCCAGAGGAG
CTGGGGAAGATCCTTCAGGGTGTGGTAGTGGTGTGAGTGGCTTCCAGAACCCCTTCCGCTCCGAGCTGCGAGAT
AAGGCCCTAGAGCTTGGGGCCAAGTATCGGCCAGACTGGACCCGGGACAGCACGCACCTCATCTGTGCCTTTGCC
AACACCCCCAAGTACAGCCAGGTCTTAGGCCTGGGAGGCCGCATCGTGCCTAAGGAGTGGGTGCTGGACTGTCAC
CGCATGCGTCCGGCGGCTGCCCTCCCAGAGGTACCTCATGGCAGGGCCAGGTTCCAGCAGTGAGGAGGATGAGGCC
TCTCACAGCGGTGGCAGCGGAGATGAAGCCCCAAGCTTCTCAGAAGCAACCCAGACCAAAACCAAGCCCACT
CAGGCAGCTGGACCCAGCTCACCCAGAAAGCCCCAACCCCTGAAGAGACCAAAGCAGCCTCACCAGTGCTCCAG
GAAGATATAGACATTGAGGGGGTACAGTCAGAAGGACAGGACAATGGGGCGGAAGATTCTGGGGACACAGAGGAT
GAGCTGAGGAGGGTGGCAGAGCAGAAGGAACACAGACTGCCCCCTGGCCAGGAGGAGAATGGGGAAGACCCGTAT
GCAGGCTCCACGGATGAGAACACGGACAGTGAGGAACACCAGGAGCCTCCTGATCTGCCAGTCCCTGAGCTCCCA
GATTTCTTCCAGGGCAAGCACTTCTTTCTTACGGGGAGTTCCCTGGGGACGAGCGCGGAAACTCATCCGATAC
GTCACAGCCTTCAATGGGGAGCTCGAGGACAATATGAGTGACCGGGTTCAGTTTGTGATCACAGCACAGGAATGG
GATCCCAGCTTTGAGGAGGCCCTGATGGACAACCCCTCCCTGGCATTTCGTTTCGTCCTCCCGATGGATCTACAGTTGC
AATGAGAAGCAGAAGTTACTTCTCACCAGCTCTATGGGGTGGTGCCGCAAGCCTGAAGTATGTGCTATACACAC
ACACACACACACACACACACACACACACACATGCATTTAATAAAGATGAGTTGGTTCTC

4349/5332
FIGURE 3784

GGCTGGCGCACCCAGCCCCCTCCTTCCATTCTTCTTCCCCCTCTCTGCAGCCTCTGCCAGCCCGCACTGCGCATG
CTTTCTGACGCCCCCTTTGGTCCAGCGTGGGAGGAGGGGATGGAATGAGGTTGGGCTAAGCAGCTTGCGCGCGC
TCCCTTGCTTGCCTCCCCCGACGCCGACGCGCGCCGGCGGGGAGCTCCGCTGGTCCGAGGGCAGTGACGA
GCGGCGACAGCGGCTGCGGCCGTGGCCGTGGCGGGAGGAGCCGGAAGCCCCGCCCCGGGGAGGGGCGTCCTGC
AGGTCCCCCTCTATCTCCACGGCCCCATCCAAGCCAGGGATGAAATTTAACGGCAAGAAGGGCGCAGTTGACG
CGGCGTCAATGAAGTGAAGTCAAGTCAAAAGCCGGGCCCTCCAACCCTATCCCCATCAGCCTGGTTCATCACC
GTCACCCCCGCCCCGCGCCCTGCCCCCTAGGTTCTGTGCCAGCAAGATGCTGGAGCGAGGCGCGGAGTCCGCGGC
CGGGGCTACCGATCCTAGTCCCACTGGCAAGGAACCAAGTGACCAAGAAGCTCCCCACCAGGGCCCCACCGCAGAA
GCCCCAGCCAGTCAGCTCCAGGGCCCCACCGCGTCCGCGGGCTCGCCTCCCCGGCCCTCGCCGGGCGCCCCCGCCCA
GCGCCCGCACCCGCTGCCCCGACTGTGACAAGGCCCTTCTCGTACCCGTCGAAGCTGGCCACGCACCGCTTAGCACA
CGGAGGCGCCCGACCCCAACCATGCCAGACTGCCCCAAGGCCTTCTCCTACCCCTCCAAGCTGGCAGCCACCG
CCTCACGCACAGCGGCGCCCGCCGACCCGTGCCACACTGCCCCGAAGTCCTTTGGCCACCGCTCCAAGCTGGC
GGCTCACCTCTGGACCCACGCACCCACCCGCCCCCTACCCGTGCCCCGACTGCCCCAAGTCCTTCTGCTACCCCTC
CAAGCTGGCGGCCACCGCCACACGCACCCACCGACGCCCCGCCCTATCCTTGCCCGCATTGCCCCAAGGC
TTTCTCATTTCCCTCCAAGCTGGCCGCCCATCGCCTATGTACGACCCCCCAACCGCGCCCGGCAGCCAGGCGAC
TGCTTGGCACCGATGCTCCAGCTGCGGCCAGGCCCTTGGCCAGAGACGCTTACTGCTCCTTCATCAACGCAGCCA
CCACCAGGTGGAGCACAAGGGGGAGAGAGACTGAGCCCTCCCTTGGCTCACTGTCCCCTTCTGCCGCCAGCCCTA
GCCAGTAAGAGGTGGGATTTCTAAGACCGACTGTATGAGCTCGCCTCTTCCAGATAGCTGGCAGAGGGCAGGGCA
AGGGATTGGCCATTTATACTGGGCTCGAGCTCAGAAGCCCCGAGGAAGTCTTTGCTCCCTGCTTTGGGGAGATCT
CAAACCATGGACGTGGAGCTGTGGTTTGACAGCGCTGGCTCTGCTTCTCCCCACACACTTACATGGCAAAGGTAA
AAAGTCTGCTACTATCGTGGGTTGATGAGGATTGTGGGCAAACAGGCTCTCTTGTAAAAGTTTAAACTGGTGTC
TCCACTTTGGCCATATGACGGTATCTAAGAAATTGAAAATACATACATGCTTGTCTCAACTCTTCCACTTGTAGG
AATTTATTCTATAAACTCATGAATGTG

4350/5332
FIGURE 3785

CCACGCCTGCATCTTGCGGAAAGCGGGGTGGAGGTTTAGGGCTGGACTCTTGGGTCCTTTAAAGGTGAGTGGTCT
GGGGGCCTCTGGGCTTGGGGCCAGACCCCTGGGTCCTCTATGAAAGAACGTGCTGGGGACCCTGATTTTGGGATG
TTAGGAAGTTGGAACCTTTTTGTTCTGATAGGGGAAGGTAGTGGGGCTCCGGACTCCCGACTCCCGGGGAAAGAG
TGGGCTGGGGTTTTCTGCTTCTGGATCTTAGGAAGAGGATAGGGTCAGTCTGGACTACTTGGCCTCCAGTGGGTGG
AAGTCCGGTTCTGCGCCCTCACCTGGGTCCCCGTTCCCGATGTCGAGCCTGTGAGCTGCACCTTCACGTACC
TGCTGGGTGACAGAGAGTCCCGGGAGGCCGTTCTGATCGACCCAGTCCTGGAAACAGCGCCTCGGGATGCCCAGC
TGATCAAGGAGCTGGGGCTGCGGCTGCTCTATGCTGTGAATACCCACTGCCACGCGGACCACATTACAGGCTCGG
GGCTGCTCCGTTCCCTCCTCCCTGGCTGCCAGTCTGTCTCTCCCGCCTTAGTGGGGCCCAGGCTGACTTACACA
TTGAGGATGGAGACTCCATCCGCTTCGGGCGCTTCGCGTTGGAGACCAGGGCCAGCCCTGGCCACACCCAGGCT
GTGTACCTTCGTCCTGAATGACCACAGCATGGCCTTCACTGGAGATGCCCTGTTGATCCGTGGGTGTGGGCGGA
CAGACTTCCAGCAAGGCTGTGCCAAGACCTTGTACCACTCGGTCCATGAAAAGATCTTCACACTTCCAGGAGACT
GTCTGATCTACCCCTGCTCACGATTACCATGGGTTCACAGTGTCCACCGTGGAGGAGGAGGACTCTGAACCCTC
GGCTCACCTCAGCTGTGAGGAGTTTGTCAAATCATGGGCAACCTGAACTTGCTAAACCTCAGCAGATAGACT
TTGCTGTTCCAGCCAACATGCGCTGTGGGGTGCAGACACCCACTGCCCTGATCTCACTTCTGTGAGATGCTCCCAT
CCACTATTAATGCACTAGGTGGGAGGAGAGGGCGGCAATGACACTGCACCTCTCCTTTCCACCGCATTCCTGG
AGCTCCCTAAATAAACTTTTTTTAACGTG

4351/5332
FIGURE 3786

GGCAGCCGAGAGCCGGGGGTTGAGCCGGAAGAAGGAGGAGGCCCTTCAGGCCCTGTCACAGGAACGGAGCCGGCT
GCTCGAGCTCAATTGCCTTCAGGGAACACCTGGCGGGGACTTCTCTGAGCCCAACCCGGCCCTCACTAAGCTGCT
GTTACCCAGAAAGACAGACCGCCAGCTGCTGGTGCTCCAGGATGCCGTGGCCCACTCCGCTGCCACCCCTACTTC
TTCCTGCCCTCTTTCTGTCCACAGCTCCCTGCAGAATCCCTGGAGGCCTCAGCTCTCCCGCCAGCAGTGGGGGAC
TCCGGCAGATACCCCTCTACCAGCTGCTGAAGTGTGGCCGTGGGAATAGCTGTGGGGCCATCCATCCAGACATT
GCCCACATGGAGCGGCTCCTGCAGCAGGCCATGGCGGAGAGGGAGCGGCTGCTCAAGGCCCGGAAGGAACAAGA
AGGGGCACGGAAGGTTCCCTCAGGCCCTGCTGTTCCCTGCCATCACGGCCCCACCCACCCACCCACCCCTCCAGGC
CCGCGAATCTTGGATCTCCGGCAGCATCTGGAGGGATGGGGCCACAACCCGGAAGAACTGCCACATGTGCAGGTG
TCTGGGTGCTGCTGCCGTGGACCCCTGGTGAAGATGGCGGGCCGCATCAAGACCTGGAGGAAGCGATGGTTCTGC
TTTGACCGCAAGCCCGCCGCTTGGCCTACTATGCGGACAAGGAAGAGACCAAGCTCAAAGGTGTCATCTACTTC
CAGGCCATTGAGGAAGTCTATTATGACCCTTACGCTGTGCCTTCAAGAGCCCCAACCCCGCCTGACCTTCTGC
GTCAAACCTACGAACGCCTTTTCTACATGGTGGCTCCGAGCCCCGAAGCCATGCGCATTGGATGGACGTCATC
GTGACCGCCGCTGACGAAAACACGCCCCCTGAGTGGCCCCGCCCTCTTGGGGGGAAGTCCCTTCGAGGCTCCGC
CGGCGCGGGGCGCGGGGGCGTTCCCTAGGCCCGCCCACTGCCGGAAGAACTTGGACGCACCGCTTTGGAAGTCTCC
CGGGAATTCGCGAGGCGCGGCAGTTCAGCTGGCCTGAGCTGCTGCGTTCTGGGTGTCAGGTGCCTTGCCCCGAC
GGGATCGCCGCCCCTAAGGCCCTGCCCGGGCAGGAGGAAGATTGCAGGGGCGGGAAGAACTATTTATTGGTG
CTCCTGTGATACCGAATTAAATACGGAGGA

4352/5332
FIGURE 3787

GGTTACTCATCCTGGGCTCAGGTAAGAGGGCCCGAGCTCGGAGGCGGCACATCCAGGGGGGACGCCAAGGGAGCA
GGACGGAGCCATGGACCCCGCCAGGAAAGCAGGTGCCAGGCCATGATCTGGACTGCAGGCTGGCTGCTGCTGCT
GCTGCTTCGCGGAGGAGCGCAGGCCCTGGAGTGCTACAGCTGCGTGAGAAAGCAGATGACGGATGCTCCCCGAA
CAAGATGAAGACAGTGAAGTGCAGCGCCGGGCGTGACGTCTGCACCGAGGCCGTGGGGGCGGTGGAGACCATCCA
CGGACAATTCTCGCTGGCAGTGCAGGGTTGCGGTTTCGGGACTCCCCGGCAAGAATGACCGCGGCCCTGGATCTTCA
CGGGCTTCTGGCGTTTCATCCAGCTGCAGCAATGCGCTCAGGATCGCTGCAACGCCAAGCTCAACCTCACCTCGCG
GGCGCTCGACCCGGCAGGTAATGAGAGTGATACCCGCCCAACGGCGTGAGTGCTACAGCTGTGTGGGCCTGAG
CCGGGAGGCGTGCCAGGGTACATCGCCGCCGGTCTGTAGCTGCTACAACGCCAGCGATCATGTCTACAAGGGCTG
CTTCGACGGCAACGTACCTTGACGGCAGCTAATGTGACTGTGTCTTGCCTGTCCGGGGCTGTGTCCAGGATGA
ATTCTGCACTCGGGATGGAGTAACAGGCCCAGGGTTACGCTCAGTGGCTCCTGTTGCCAGGGGTCCCGCTGTAA
CTCTGACCTCCGCAACAAGACCTACTTCTCCCCTCGAATCCCACCCCTTGTCGGGCTGCCCCCTCCAGAGCCAC
GACTGTGGCCTCAACCACATCTGTCAACACTTCTACCTCGGCCCCAGTGAGACCCACATCCACCACCAAACCCAT
GCCAGCGCCAACAGTCAGACTCCGAGACAGGGAGTAGAACACGAGGCCCTCCCGGGATGAGGAGCCCAGGTTGAC
TGGAGGCGCCGCTGGCCACCAGGACCGCAGCAATTCAGGGCAGTATCCTGCAAAAGGGGGGCCCCAGCAGCCCCA
TAATAAAGGCTGTGTGGCTCCACAGCTGGATTGGCAGCCCTTCTGTTGGCCGTGGCTGCTGGTGTCTACTGTG
AGCTTCTCCACCTGGAAATTTCCCTCTCACCTACTTCTCTGGCCCTGGGTACCCCTCTTCTCATCACTTCCTGTT
CCCACCACTGGACTGGGCTGGCCAGCCCCCTGTTTTTCCAACATTCCCAGTATCCCCAGCTTCTGCTGCGCTGG
TTTGCGGCTTTGGGAAATAAAATACCGTTGTATATATTCTGCCAGGGGTGTTCTAGCTTTTTTGAGGACAGCTCCT
GTATCCTTCTCATCCTTGTCTCTCGCTTGTCTCTTGTGATGTTAGGACAGAGTGAGAGAAGTCAGCTGTCACG
GGGAAGGTGAGAGAGAGGATGCTAAGCTTCCTACTCACTTTCTCCTAGCCAGCCTGGACTTTGGAGCGTGGGGTG
GGTGGGACAATGGCTCCCACTCTAAGCACTGCCTCCCCTACTCCCCGCATCTTTGGGGAATCGGTTCCCCATAT
GTCTTCCTTACTAGACTGTGAGCTCCTCGAGGGCAGGGACCGTGCCTTATGTCTGTGTGTGATCAGTTTCTGGCA
CATAAATGCCTCAATAAAGATTTAATTACTTTGTATAGTG

4353/5332

FIGURE 3788

CAGGTGGGAGGTTAGTGTGGCCCGGGCGTCCGCTCCTCAGCGGATGTGGCAGCCCCGAGCCATGGCTCTCGCCGT
CCGAGTCGTTTATTGTGGCGCTTGAGGCTACAAGTCCAAGTATCTTCAGCTCAAGAAGAAGTTAGAAGATGAGTT
CCCCGGCCGCCTGGACATCTGCGGCGAGGGAAGTCCCGAGGCCACCGGGTTCTTTGAAGTGATGGTAGCCGGGAA
GTTGATTCACTCTAAGAAGAAAGGCGATGGCTACGTGGACACAGAAAGCAAGTTTCTGAAGTTGGTGGCCGCCAT
CAAAGCCGCCTTGGCTCAGGGCTAATGCGCCCTGAAGGCAGAGTCCAGGGACCTTGACCCAGCCCCCTCTCAGCAG
ACGCTTCATGATAGGAAGGACTGAAAAGTCTTGTGGACACCTGGTCTTTCCCTGATGTTCTCGTGGCTGCTGTTG
GGGGCAGAGATTGACGCCCCCGGTCTTTGCCTCTGAGCGGGAGAGTCTGTGTGTATGTGTCTTCCCCGGAATCCA
CACCACCCACCCCTCCTCCTGTCCCGTGGTTTCATCATATCTCTTTGCATACCCCATGTCTTCCCCAGTTGTCCC
CTGGAGTTTGGGGGACATCCCGCCTCAGGCATCCTTCTCAAGGGGAAGCCAAGAGAGGCATCAGGATGGGTGGG
TTTCTGATTGTGGCAACGTTTGCAACCGTTCACGATTCAATAAATATTGGATGAATTTAAC

4354/5332
FIGURE 3789

TGACAAGATGCGCGGCAGGAGGCAGTGGCGTTGGTGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCT
GGGGCTGCGGCCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTCCCTGGAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTGTCAGAGGCCCAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCCTCGA
GAACACATCCAAAGTCCCTGCCCCCAAAGACGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCT
CAACCCTTCTGCAACAAGGGCCAAGCCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTCTGGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCAGCCTGCACACCAAGCCGTCCCAGGCACCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCTACAA
TCCATCCTTTGAAGACCACCAGACCCTGCTCTCAGCGGCCACGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGGAGGCTGGGGATGCCGA
GGTCTGTCCACGCCCCGCCCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACCAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCGAGGCGGCGGCAGGCGCGGCGGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCCGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

4355/5332
FIGURE 3790

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTTCAGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCGAGGCCATECGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGTGCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCGCG
TGGGGCCTGAGCCCACCACCGACTGCTTTGTGGCCGTCATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG
CCCTCGTCTGTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCTTTCGGAAACACCTTCCTCAACAGGTTTCATGT
GTGCCCAGCTCCCTAATCAGGTCTGGAGAGCATCAGCATCATCGACACCCCGGTATCCTGTGCGGTGCCAAGC
AGAGAGTGAGCCGCGGTACGACTTCCCGGCCGTGCTGCGCTGGTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCCCGACAACCGCGCCTCTTCGAGCTGGAGGAGCAGGACCTTTCGCGACATCCAGGGCCTGCCCCGGC
ACGCAGCCTTTCGCAAGCTCAACGACCTGGTGAAGAGGGCCCGGCTGGTGCGAGTTACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTTCAGCTGGAACATCACATCTCCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGAGGGGGGCG
CTTTTGAGGGCACCCACATGGGCCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCCCAACCTGCCCCGTGCGCTGGTCCCACCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAAGCGGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCCAGGAGAGGGCACCTACACAGTCACGCAAACACACA
CTAATTCTTGGCAGGGCCCCCAGCCCCCTCCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

4356/5332
FIGURE 3791A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTCTTTTAAAAATTTTCTCTACTGCGTTGCCAGGCTG
GFTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTCTCTCCACCTTTCCCGGCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCAGTGTGGACCTAGACTTCTTGGAAGATGACA
TCTCGGCTCTCTCTGCGACAGGGGGCGGGCGGGGGCAGTGGGGGGCGTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGAGGCCCGACGGGGCGTGAGGGGCGAGCGCCGTGGCTGCGGGG
CCCAAGCCCTCTTCCAGGCAGACCGACCTGCTGGGGCTGCAGGGCCCGCTACCGTGCTGACCCACCAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGTCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCTCCAAGGCCCTGCCAATGGCAGCCCTGGGGGTGCCAGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCCGTCAATGCGCTCAACACGCCACCTCCAGCTCCTGGCCAAGC
AGGTGCCCGTGCAGCGCTACCTGGCTCGGGCGCTGGCCCTCGGAGCCCGTGACGCTGGCGTGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCAATCCAGAAGAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTG
TGTTCCGAGGGCGCGGGGGCGCTCGGCTCCACCGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTGCCTACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCG
CGGGGGTGCTGCCGCCAAGCTCTACCAGTGACGCCCAAGCCGTTTGCGCCCGCGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTCAAGCAGCCACCGGCCACCA
GCCAGAACGTGGTGTGTGGGCTTCCCGCGCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGAGCGGGGGCGCGCAGCCCCCGGGGCCCTGAGCAAAACCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCAGCACATGCTGCCGGGCCAGAACCAGTTCTACTGCCTGGCGCCCCGGCGGTCC
AGTCCCGCAGCAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCACACAG
GTGGACAGCTCATCGGAACCCCATCCTCACAAACAGAACCTGGCGGGCCCACTGAGCCTGGGCCCCGTGTTGG
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCCGTGCTGCTGGCGGGCGGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCGCGGGGCCGGCCGCCACCA
CTGTCTCCAGGGGGTACCCCTGCCCCCAGCGCCGTGGCCATGCTCAACACCCCGACGGCCTGGTGCAGCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCCGCGCCTGTCTCACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCCCTGGGCCTCCAGCAGCCGAGGCGCAGAGCCCCCGCAGGCCCCCACCCACAGGCCG
CCGCCCCGCTCAGGCCACACCCCCCAGCCAGCCCTGGCCTGGCGTCTAGCCCGGAGAAGATCGTCTTGGGGC
AGCCGCCCTCTGCCACCCCCACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTTGCCCCAGGAGAGGAGCC
AGCAGCCCCCTCCCGCAGAGGGCCCCACCTCTCCGTGCTGCTCGGTATAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGTCCGCAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGCTCCGCTGAAGGGGCCAGGCCCTCTTCGTCCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCGGCCCTTCCCGCCACCCCTCCC
GGCCACAGAGTGTGTCCCGCCCTCCCTCAGAGCCACCTTGACCCCTTGCCCCCAGCCAGGCCCCCACTC
TGCTTGGCATCTTGTGTCATCAAAACAGCTAGGCGTTCCCCCGCTGCCAGCAACCCGGGCCCTACTGCCCCAG
GCCCGCCGAGCCGCTCTCCGCCCCCAGTCCAGCGCTGAGGACCGCTGCCCCCAGCCCCCAGCCCTTCCCTC
CATCTCCACCTCCTGTGTGTGGCCTCCTCCTGTGAGACGTCTCCAGGTTGCCAGCCCTTACGCCATCCGACT
TCCAGTCCAGTTCCCAACCCAGCGAGGGCCCCACAAGTCCCCCACTCCCCCTCCAACCCTCCACCTGGTCCCTG
AGCGGCGCAGACCCCCCAGCGCTCCTCGGACCTTCCAGATGGTGACCACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACCAGGTGCCGTCCGGAATCATCCTCCAGAACAAGGCTGGGGGGGGCCCTG
CCGCCCCGAGACCTCCACCAGCCTGGGGCCCTCACCAGCCCCGCTGCGTCTGTGCTGGTCACTGGGCAGGCC
CATCTGGGACCCCACTGCCCCCAGCCACGCCCCCGCCCCGGCACCCATGGCCGCCACAGGCTCCCTCCTCTGC
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAACCTCCCGACCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACTGAGTGGCCTGAAGAAGCCCCCAGCTTCCAGCCAGCAAGG
AAGCCTGTTTCTGGAGCATTTGCACAAACACAGGGCTCCGTCTGCACCCGACTACAAGACGGCCTTCCCT
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCCTCCCCAGTGACTACC

[illegible]

4358/5332
FIGURE 3792

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAAATGGCCA
AAAAGTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCCAAGAGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCACTACGAGCAGTCTGCAGACTACTACAAAGCGGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCACGAGGAGCAGAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGCTGGACCAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTGCCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCAGCCCCGGGAGCCTCCCCAGCTTCCTGCAGCCCCGACCTCTCAGGTTAGACCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

4359/5332
FIGURE 3793

CGGGGGCTGCGGAGAGGGTGCTTAACTGAGGGGCATGATGGGGGAGGCGGCCGTGGCCGCGGGGCCTTGTCGGTT
GCGCGAGGACAGCTTCACGCGCTTCTCGTCGCAGAGCAATGTGTACGGGCTGGCAGGCGGCGCCGGCGGGCGCGG
GGAGCTGCTGGCCGCCACCCTTAAAGGCAAGGTGCTCGGCTTCCGCTACCAAGACCTCCGACAGAAAATCCGGCC
AGTGGCCAAGGAGCTGCAGTTCAACTACATTCCCGTGGATGCGGAGATTGTCTCCATCGACACTTTCACAAGTC
ACCCCCCAAGCGGGGTCTGGTTGTGGGGATCACGTTTCATCAAGGATTACAGGGGACAAGGGCAGCCCCCTTCTGAA
CATTTACTGCGACTACGAGCCCGGCTCTGAGTACAACCTTGACTCTATTGCCAGAGCTGCCTGAACCTGGAGCT
CCAGTTCACTCCGTTCCAGCTGTGCCATGCGGAGGTCCAGGTGCGGGATCAACTTGAGACTGTGTTTCTCTTGAG
TGGAACGACCCGGCCATTCTCTACAAGGAGAACGAGGGGCTGCATCAGTTTGAGGAACAGCCCGTGGAAAA
CCTCTTCCCAGAGCTGACGAACCTGACCAGTAGCGTCTCTGGCTGGACGTCCACAACCTTCCCCGGCACGTCCCG
GCGCCTCTCAGCTCTGGGCTGTCAGAGTGGTTATGTCCGTGTCGCCCACGTGGACCAGCGGAGTCGAGAGGTTCT
GCAGATGTGGTCGGTCTCTGCAGGACGGTCCCATCTCCCGAGTGATTGTGTTTCAGCCTCTCGGCCGCCAAGGAGAC
CAAGGACAGGCCACTACAAGATGAGTACAGCGTGCTCGTGCCAGCATGTTGGAGCCAGCAGTGGTGTATCGGGA
CCTGCTGAACCGGGGTCTTGAAGACCAGCTTCTCCTGCCCCGGCAGTGACCAGTTTGACAGCGTCTCTGCAGCCT
GGTACCCGATGTGGATTGGATGGGCGGCCAGAAGTCCTGGTGGCCACCTATGGACAGGAACCTGCTGTGTTATAA
GTACCGGGGCCCAGAGTCGGGGCTTCTGAGGCCCAGCACGGGTTCATCTGCTGTGGCAGCGGAGCTTCTCCAG
TCCCCTGCTGGCCATGGCTCACGTGGACCTGACCGGGGATGGGCTGCAGGAGCTTGCCGTGGTCTCCCTGAAGGG
CGTGACATCTCTGCAGCACAGCCTGATTCAGGCCTCAGAGCTGGTCTTGACCCGGCTTCGACATCAAGTGGAGCA
GAGGAGACGTCGGCTACAGGGGTGGAGGACGGGGCAGGTGCAGGGCCTGCTGAGAATGCAGCCTCTTAAGCACC
CATGCACCCACTCTTCCCAGACCTGGGGCGACTCATGGCGTGCTCACCTCCAGCCGCTGGTGGGGGTGTCCTGA
AGGACAGGATGCTCTCCCAGACCTCCCCAGGGTGGTGAAGCTGTGCCCTGGGGCCCCAGCTAACCCACTCCTCT
CTCTGTACGTCAATGTCCCTATTGAAAGCAGGGATGATCCCATTCCACCCTGTCCACTCTGGATGAGAATTGGC
CACCTGATGGTTATTTATACGTCCAGAAGAACATC

4360/5332
FIGURE 3794

GGGGCGGGGGCCGGGGTCCATGCGCGGAGTCCCCACCCGGCCCGGCGCCTGCCGCTGACGGCGGGGGGTGGGG
GGGCGCGCGCCTGGCCTCCTGCCCCACCCCTGGCGTCAACACCGCGGGCCGTCAGGGGCTGCGGCCCCGGGCTGC
GCCCTCCCCCGCGGCCAGGCTCTGGAGGGACCCAGGAGCTGCCGCGCGCCTCAGCCCATGCCCCGGAGGTATGAT
GAGCTGCCGCACTACCCAGGCATCGTGGATGGCCCCGAGCCCTGGCTAGCTTCCCAGAGACAGTGCCCGCAGTA
CCAGGGCCCTATGGCCCCGACCGGCCTCCCCAGCCCTGCCCCAGGCTTGGACAGCGACGGCCTGAAGAGGGAG
AAGGATGAGATCTATGGACACCCGCTCTTCCCCCTCTTGGCCCTGGTCTTTGAGAAATGTGAACTGGCTACATGC
TCTCCCCGTGACGGGGCCGGAGCTGGGCTGGGGACACCCCTGGAGGTGACGTCTGCTCCTCTGATTCTTTCAAC
GAGGACATCGCTGCCCTTTGCCAAGCAGGTTGCTCTGAGAGGCCCCCTCTTCTCCTCCAACCCAGAAGTGGACAAT
CTGATGATCCAGGCCATCCAGGTGCTGCGGTTCCACCTGCTGGAGCTGGAGAAGGTCCACGACCTGTGCGACAAC
TTCTGTACCGCTACATCACCTGCCTCAAGGGAAAGATGCCCATCGACCTGGTCATCGAGGATCGGGACGGCGGC
TGCAGGGAGGACTTCGAGGACTACCCAGCCTCTGCCCCAGCCTCCAGACCAGAATAATATGTGGATTCTGAGAC
CATGAGGATAGTGGGTCTGTACATTTGGGGACCCCAAGTCCATCCAGTGGGGCCTGGCCTCCAGAGTGGGGAC
AACTCCAGTGACCAAGGAGACGGGCTGGACACCAGCGTGGCCTCTCCAGTTCTGGTGGAGAAGATGAGGACTTG
GACCAGGAGCGACGGCGAAACAAGAAGAGGGGGATCTTCCCCAAGGTGGCCACCAACATCATGCGAGCCTGGTTG
TTCCAGCACCTCTCGAGACGCTCAGAAGCGCCGGTTCTCCAGACGTCTGCCTGGGCCTGGGCTCCCCATCCCCC
GGACCCCGTGGGCCAGACCTTGGGGTTCAGACTGCGGCCGGCCAGGCAGGCAGAGTACTCTTGCTGGTGGCTG
CAGCACCCGTACCCCTCGGAGGAGCAGAAGAAACAGCTGGCGCAGGACACGGGGCTACCATCCTGCAAGTCAAC
AACTGGTTCATTAACGCCCCGAGACGCATCGTGCAACCTATGATCGATCAATCCAACCGCACAGGGCAGGGTGCA
GCCTTCAGCCCAGAGGGCCAGCCCATCGGGGGCTATACCGAGACGCAGCCACACGTGGCCGTCCGGCCTCCGGGA
TCAGTGGGGATGAGTTTGAACCTTGAAGGAGAATGGCATTATCTATAGAGGCTGATGCAGGAGAGACCCAGCCTC
CGGCTGTGACCCCCAGCCTCACACCTGCCTCTGGTTCCCGCCTGGTCTCCTCAGCTTCAGGACCCCCACCTCCAAAG
GCCCCCTCTGCTCAATGCCTACCTCCCTAGGGCCCTGCTGGGACATGGGGGCCCTGAGTGCCCCATCCAAGGGCTCTC
AAGGACACCGCAAGGCCTCCAGGCCCTGAGCCCCACTTCTGCCTTACCTCTGCCTGGGACCCGAGCTGGGCTC
CTGGGCCTTGGTCCCCAGAAGATGGCGGCTAGGGCCTCGCCGCCAGGACAGAGAAGGGACGGGGTGGCTGGGCAG
TCAGGGAAGGAGGGTCGCCCCGATCCGACATTTTGAGAGATTCTTCACTCTCCTGTCCCCCCTACCTCCCTTC
TCTAATTCTTCTTTTTTTTTTAATGATAAAGTCTTAAAAACACGG

4361/5332
FIGURE 3795A

GAATCCAGGGCCTGAAAACCCAGAATGAACCTTGTGTCCATCCCAGAGATCACTGCAGATGTCATGAGGTACCCCTT
TGTGTCAACCAGCTCAAGCAGGCCTCTGGCCACTTTATCATCTGTGGTGGTCCTGTGCCGTGACCAGGAGGAAAAA
TTAGCTCTTTGAAGAGAAAGTAGTTCTCTATTGCAGGCACTGGCCCTCTTAAATTGTTGCAGGTGGGGAATGGATG
AGAATATTTGTTTTGGGTGATCAGAACTGAGACTCCTATTGTGGATTAGTAACATGCCTCCTCCTAGAACAAGGG
AGGGCAGGGATCGCCGAGACCACCACCGGGCTCCCAGCGAGGAAGAGGCCTTGGAGAAATGGGACTGGAATTGTC
CAGAGACGCGTCGCCTCTTGGAAAGATGCCTTCTTCCGTGAAGAGGATTACATCCGTGAGGGTTCTGAGGAATGTC
AGAAGTTTTGGACCTTCTTTGAACGCCTGCAGAGATTCCAGAATCTCAAGACCTCCAGGAAGGAGGAGAAAGACC
CTGGACAGCCCAAGCACAGCATCCCAGCGCTGGCCGACCTACCTCGCACTTACGACCCACGTTACCGCATCAACC
TCTCTGTTCTTGGCCCTGCCACGCGGGGCTCTCAGGGACTGGGCAGGCACTTGCCCGCGGAGAGAGTGGCTGAGT
TCCGCCGAGCCCTGTTGCACTACCTGGACTTTGGCCAGAAGCAGGCATTTGGGCGTCTGGCCAAGTCGACGCTG
AGCGGGCAGCCCTCCCCATCGCCAGTATGGGAACCGCATCCTGCAGACGCTGAAGGAGCACCAGGTGGTGGTAG
TGGCCGGTGACACCGGCTGTGGCAAGTCCACTCAGGTGCCCGAGTACCTGCTGGCTGCTGGCTTCAGTCATGTGG
CGTGACCCAGCCCGGGCGGATCGCCTGCATCTCACTGGCCAAGCGTGTGGGCTTTGAGAGCCTCAGTCAGTATG
GCTCACAGGTGGCTACCAGATCCGCTTTGAGAGCACACGTTCCGCGGCCACCAAGATTGTATTCTGACAGTGG
GGCTGCTCCTGCGACAAATCCAGCGGGAACCCAGCCTGCCCGAGTATGAGGTCTGATTGTGGATGAAGTCCATG
AGCGGCATCTCCACAACGATTTCTCCTGGGCGTCTCCAGCGCCTGTTGCCACGCGGCCTGACCTCAAGGTCA
TCCTCATGTGCGCCACCATCAACATCTCGCTCTTCTCCAGCTATTTAGCAATGCCCTGTGGTACAGGTGCCTG
GGAGGCTGTTCCCCATCACGGTATTTGATGTGGCAGCCCTGGAGTCCGGAATGCATCCTCTCCACCAACATTG
CTGAGACCTCAGTCACCATTGACGGGATCCGCTTCGTAGTAGATTCCGGAAGGTGAAGGAGATGAGCTACGATC
CGCAGGCCAAGCTGCAACGGCTGCAGGAGTTCTGGATTAGTCAGGCCAGCGCAGAGCAGCGGAAGGGCCGGGCGG
GCCGCACGGGCCCCGGAGTCTGCTTCCGCTCTATGCCGAATCGGACTATGATGCCTTCGCCCCCTACCCCGTCC
CAGAAATTCCGAGGGGTGGCCCTGGACTCGTTGGTGTCTGCAGATGAAGAGCATGAGTGTGGGGGACCCCGAACCT
TCCCTTTTCATCGAGCCCCCACCACCAGCCAGCCTGGAAACCGCCATCCTCTACCTCCGGGACCAGGGGGCCCTGG
ACAGCTCAGAGGCCCTCACACCCATTGGGTCCCTGCTAGCCCAGCTGCCTGTGGACGTTGTGATTGGGAAGATGC
TGATCCTGGGCTCCATGTTTCAGCCTGGTGGAGCCTGTGCTCACCATCGCAGCCGCACTTAGCGTCCAGTCGCCCT
TCACCCCGCAGCGCCAGAGCAGCCAGAGTGTGACCCCACTGCGTCTTCGCTGGCAGCCCCGAGGTGCTGCA
CGCACAGGAGCTGGAGGCCAGCAACTGCGACGGAAGCCGAGACGACAAGGACAAGATGAGCAGCAAAACACCAGCT
CCTCAGCTTCGTGTCCCTGCTGGAGACCAACAAGCCGTACCTGGTGAAGTGGTCCGCATCCCTGCCCTCCAGTC
CCTCCTGCTTTTTAGCCGGTCTTTGGACACCAATGGTGAAGTGTCTCCCGCTGGTGGCCGATGGCTGGCTGGAGCT
GCAGCTAGCAGACAGTGAAGTGCCATCCGACTCCTGGCGGCTTCCTGCGGCTCCGTGCCCGCTGGGAAAGTGC
CCTGGACCGGCAGCTGGCGCACCAGGCCCAGCAGCAGCTGGAGGAGGAGGAGGAGGATACGCCAGTCAGCCCCAA
GGAGGTGGCCACCCTGAGCAAGGAATCCTGCAATTACGGCATCCAAGATTCTTACAGCCTCCGGCGGCTCAC
AGGGCTAGAAGTCCAGAACATGTATGTGGGACCCAGACCATCCAGCCACCCCCATCTTCTGGCCTCTTGG
CAGCTCCACCTGTCCCCCACCACAAAGGGGGGCTACGCAGTCACTGACTTCTTCACCTACAAGTGCCTCAC
GAATGACACAGACCTGTACAGCGACTGTCTCCGAACCTTCTGGACCTGCCCCCACTGTGGCCTGCATGCGCCCT
CACGCCCCCTGGAGCGCATGCCCCATGAGAACACCTGCCCCAGGCCCCACAGGATGGGCCCCCAGGGGCTGAGGA
AGCTGCCCTCGAAACCTCCAGAAGACATCTGTCTGTCAGAGGCCCTACCACTGCGAGGCCTGCGGGAAGGACTT
CCTCTTTACACCCACAGAGGTGCTGCGCCACCGGAAGCAGCACGTGTGAGCTGGGCCAGGAGCCCTGCCACCTC
CGTGCAGCTGACCTGCCCTCCAGCCAGGACTAGGGGCAGGACTCTTGCTGAACCCCCAGCCTGGGCTTAGCCC
TGTGGTCTGTCCAGTGCAGAGGGCCTGGAGCACGATTGTGAATAAAGCCTCACATGCTGATACACACTGTTA
GGCCTGCACCTGCCATCCAGAAAGCAGCAGCTGCCTTGTGTAGTCTCCCCAGGGTCTAGCTTTCTTCTTCTG
CTGCAGGGTGTGCTGAGGGGCTTGGGTAGGAGGGGCGTTAGAGCCAGCAGGGACCTCCCATGTCTCCAGATT
CCAGGTGCAGGTTCTTAGACCTCCGACGCCGCTCTCTCTTGAAGTCCATCCTCAGTCTCTCCTACCCCTTGAAGT
AGGGGGACCCCTGAATTTGCCATCCACCTGGGTCACTTTGAGAGTTGTGCAGGGGGGCTGGGAGCACTGGTGTTC
ACGTGGGACACAGGCTGCACCATAAGACCCACTCACAATAAAAAAATAAAAGGCCGAGCCGGGCATGGTTGCTC
ACTCCCGTAATAAAAAAATAAAAGAACAGGCTGGGATTACAGGCGTGAGCCACTGCACCCGGCCGTGACCAACAT
TCTTAATCTGTCTCTAGTGTGGCCACTCTAAAACCTTACAAGAATGTGCTGTCTGTGTCTAGCTTCTTTTACC
CAACATGAGGTTGCATGGGCTTGGTTTATTCTGTTCCATGAATTCATCACAATATATCCATTCTTTTGTCC

4362/5332
FIGURE 3795B

AGGGACATTTGGCTTCCAGAAACCTACCCCTAACACCAGCCCTTCCCTCCCTCTGCAGAACAAAGGCCCATCAG
AGGGGACGTGCTGGGTGTCAGCGTCAGCTTCTGGGAGGAGGAAGGTCAGAGCTAAGGCCTGAAGGATGATGAGGT
ATCAGGTGGGTGGAGGGGAGACGCTCAGGAGGTGGGAAAGGCGGAGGTGCACAGGCTTGGTTCCAGGTACAAATA
ACGTTACTAGGAGCACACAGTACCTGGATTTTGATGAATACATTGTACATTTCTGTCCTGTATGTATCCAGGGTT
ATAGGACGTGATTATAGGACACGCATATATGTTTGGTTTTAGTGGACTCTTAAAAATTGTTTTCCAGGGGCCGGG
CACAGTGGCTTACGCCTGTAATCCCAGCACTTGGGAGGCCTAGGCGGGCAGATCACCTGAGGTCAGGAGTTCAA
GATCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTGGGAGGCCGAGGCGGGAGGATCACAAAGTCAGGAGAT
CGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGCGTGGTGGCG
GGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGAGTGAACCCGGGAGGCAGAGCTTGCAGTG
AGCCAAGATCGTGCCACTGCACTCCAGCCTGGTTGACAGAGCAAGACTCCGTCTCAAAAAAG

4363/5332
FIGURE 3796

GACTCCTTCAATTATACCAACCCCTGATTATGGGCACTATGATGACAAGGATACCCTGGACCTCAACACCCCTGTG
GATAAAACTTCTAACACGCTGCGTGTTCCAGACATCCTGGCCTTGGTCATCTTTGCAGTCGTCTTCCTGGTGGGA
GTGCTGGGCAATGCCCTGGTGGTCTGGGTGACGGCATTGAGGCCAAGCGGACCATCAATGCCATCTGGTTCCTC
AACTTGGCGGTAGCCGACTTCCTCTCCTGCCTGGCGCTGCCCATCTTGTTACGTCCATTGTACAGCATCACCAC
TGGCCCTTTGGCGGGGCCGCTGCAGCATCCTGCCCTCCCTCATCCTGCTCAACATGTACGCCAGCATCCTGCTC
CTGGCCACCATCAGCGCCGACCGCTTTCTGCTGGTGTAAACCCATCTGGTGCCAGAACTTCGAGGGGCTGGC
TTGGCCTGGATCGCTGTGCCGTGGCTTGGGGTTTAGCCCTGCTGCTGACCATAACCTCCTTCTGTACCGGGTG
GTCCGGGAGGAGTACTTTCCACCAAAGGTGTTGTGTGGCGTGGACTACAGCCACGACAAACGGCGGGAGCGAGCC
GTGGCCATCGTCCGGCTGGTCTGGGCTTCTGTGGCTCTACTCACGCTCACGATTTGTACACTTTCATCCTG
CTCCGGACGTGGAGCCGAGGGCCACGCGGTCCACCAAGACACTCAAGGTGGTGGTGGCAGTGGTGGCCAGTTTC
TTTATCTTCTGGTTGCCCTACCAGGTGACGGGGATAATGATGTCTTCTGGAGCCATCGTCACCCACCTTCTCTG
CTGCTGAAGAAGCTGGACTCCCTGTGTGTCTCCTTTGCCTACATCAACTGCTGCATCAACCCCATCATCTACGTG
GTGGCCGGCAGGGCTTCCAGGGCCGACTGCGGAAATCCCTCCCCAGCCTCCTCCGGAACGTGTTGACTGAAGAG
TCCGTGGTTAGGGAGAGCAAGTCATTACGCGCTCCACAGTGGACACTATGGCCAGAAGACCCAGGCAGTGTAG

GCGACAGCCTCATGGGCCACTGTGGCCCGATGTCCCTTCCTTCCCGGCCATTCTCCCTCTTGTTTTCACTTCAC
TTTTCGTGGGATGGTGTACCTTAGCTAACTAATCTCCTCCATGTTGCCTGTCTTTCCAGACTTGTCCTCCT
TTTCCAGCGGGACTCTTCTCATCCTTCCTCATTGTGAAGGTGAACACTTCCTTCTAGGGAGCACCTCCACCCCC
CCACCCCCCACCACACACCATCTTTCCATCCCAGGCTTTTGAAAAACAAACAGAAACCCGTGTATCTGGGATAT
TTCCATATGGCAATAGGTGTGAACAGGGAATCAGAATACAGACAAGTAGAAAGATTCTCGCTTAAAAAAATGT
ATTTATTTTATGGCAAGTTGGAATATGTAAGTGAATCTCAAAAGTTCTTTGGGACAAAACAGAAGTCCATGG
AGTTATCTAAGCTCTTGTAAGTGAGTTAATTTAAAAAGAAAATTAGGCTGAGAGCAGTGGCTCACGCCTGTAAT
CCCAGAACTTTGGGAGGCTAAGGTGGGTGGATCACCTGAGGTCAAGAGTTCAGACCAGGCTGGCCAGCATGGTG
AAACCCCGTCTGTACTAAAAATACAAAAATTAAGTGGGCATGGTAGTGGGTGCCTGTAATCCCAGCTACTTGGG
AGGCTGAGGTGGGAGAATTGCTCGAACTTGGAGGTGGAGGTGTGGTGAGCCATGATCGCACCCTGCACCTCTAG
CCTGGGTGACCGAGGGAGGCTCTGTCTCAAAAGCAAAGCAAAAACAAAAACACCTAAAAAACCTGCAGT
TTTGTGTGACTTTGTTTTTAAATTATGCTTTCTATTTTGTAGATCATTGCAAACCTCAACACAATTGTAAGTAATG
ATACAGAGGGATCTTGTGTACCTTCACCCAGCCTCCCCCAATGGCAACATCTTGCAAACTACAATGTAGTCTC
ATAACCAGGATATTGACATTGATACAGTGAAGATACAGGACATTCTCATCACCACAGGGATCCCCAGGATGCCCA
CTTCCCTCCACCCCCACACCCAGCCGTGTCCCTAACCCCTGGCAACCAGGAATCCACTCTCCATTTCTATAATG
TTGTCAATTTCAAGAATGTTATTCAATGGAATCATATAGTATGTAACCTGTTTTGAGCTTAAAAAAAAGTATACA
TGACTTTAATGAGGAAAATAAAAAATGAATATTG

4364/5332
FIGURE 3797

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAAGTCCAGAAGATCCCGGAGCTCAGTTCTTGATTTCGTACTGGGT
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTTCGATGCTGTGTCTGACTTGCTGCTCCA
GGGATGTCATAGTTAAAGTTGACCAGATCTGTACAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAACTAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC
TGCTTCTTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCCCTCCTCACAACAACCTTCTTCTTCTTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCCCTTGCCCCAAGTGAAGTCAAGATTGGCAGCCCCAGAGATGCCAAGTGCAGCAT
GCCCCACTGTATTCCCTGTCCCTTCCCTCATGAAGGCATCTCCAGGCAAGGAAAACTGAAGTCATTGGCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTCAAGGCTGCCTGTCTATCCCGGGCCTGCCAGCTCCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTGTCTCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTCACCTTCTTGGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGGCACCAAGTGAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAATGCATTTCTCTGGAGTTTGA
CCCTGACAAACAACAGGTGGCATCTGCTGTCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGTTTCTGGGGCTCAGGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCCAAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTCAAGGCTATGTTGGTCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTTCACATATGTTGTGAATTTTCTTGGTTCTTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTACAGACCT
GAGGCTCTA

4365/5332
FIGURE 3798A

CTCTATGGGAGGAGACCACCCGGAGGATGAAGAGGATTCTACGAGGAAGAGATGGACTATGGAGAGAGTGAGGA
GCCAATGGGAGACGACGACTATGACGAGTACTCCAAGGAGCTGAACCAGTACCGCCGCTCCAAGGACAGCCGAGG
CCGAGGGCTAAGTCGAGGCCGTGGCAGGGGCTCCCGAGGTGAGGGAAAGGAATGGGTGCGGGCCGAGGCCGAGG
TGGCAGCCGAGGAGGGATGAACAAGGGCGGAATGAACGATGACGAAGACTTCTATGACGAGGACATGGGCGACGG
TGGTGGTGAAGCTACCGGAGTCGTGACCATGACAAGCCCCACCAGCAGTCGGACAAGAAAGGCAAAGTCATTTG
CAAGTACTTCGTGGAAGGGCGCTGCACCTGGGGAGACCACTGTAATTTTAGCCATGACATCGAACTCCCAAAGAA
GCGGAACTGTGCAAGTTTTACATCACTGGATTTTGCGCCAGAGCTGAGAAGTGGCCTTATATGCACGGTGATTT
CCCGTGTAAGCTGTACCACACCACTGGGAAGTGCATCAATGGTGACGACTGCATGTTTTCCACGACCCTCTGAC
CGAAGAGACGAGGGAGCTCTTGATAAGATGTTGGCCGATGATGCAGAAGCAGGTGCCGAGGATGAGAAGGAGGT
GGAGGAACTGAAGAAGCAGGGCATCAACCCCTGCCCAAACCGCCCCCTGGTGTGGGCCCTCTGCCACCCCTCC
TCGCCCCCTGGCCCCGAGGCTCCAACCTCTCCCAACGGCAGGCCCATGCAGGTGGCCCCCGCCCCCGCCCCC
TCCCCCTCCCCACCGCCCCGGGCCCTCAGATGCCATGCCGGTGCATGAGCCACTGTCCCCGAGCAGCTGCA
GCAGCAGGACATGTACAACAAGAAGATCCCTCCTTGTTGAGATCGTGGTGCAGGCCACGGGACAGCTGGCTGA
GAAGCTGGGTGTGAGGTTCCCTGGACCCGGTGGACCCCGAGGGCCAATGGGCCCTGGGCCCAACATGGGACCCCC
AGGGCCAATGGGCGGTCCAATGCATCCTGACATGACCCCCGACATGCACCCGACATGCACCTGACATGCACGC
AGACATGCACGCAGACATGCCGATGGGCCCTGGCATGAATCCTGGCCCCACCCATGGGCCCTGGCGGCCCTCCAAT
GATGCCCTACGGCCCTGGGAGACTCCCCACATTCTGGAATGATGCCCCCTATCCCGCCAGCCAGAAGTCTCTATGA
AACTTCTACCAGCAGCAGGAGGGCATGGAGATGGAGCCCCGACTCCTGGGGGATGCAGAGGACTACGGGCACTA
CGAAGAGCTGCCAGGGGAGCCTGGGGAGCACCTCTTCCCTGAGCACCTCTGGAGCCCGACAGCTTCTCTGAGGG
AGGGCCCCCAGGCCGCGCCGAAGCCAGGCGCCGGTGTCCCTGACTTCCCTGCCCTCAGCCCAGAGGGCCCTGTACCT
GAGGATCCAGCAGAAGCAGCAGGAGGAGGAGGAGAGAGCGAGGAGGCTGGCTGAGAGCAGCAAGCAGGACCGGGA
GAATGAGGAAGGTGACACCGGAACTGGTACTCAAGTGATGAGGATGAGGGTGAAGCAGTGTCACCTCCATCCT
GAAGACCTTGAGGCAGCAGACGTCCAGCCGACCCCCGGCTTCAGTTGGGGAGCTGAGCAGCAGTGGGCTGGGGGA
CCCCCGCTCCAGAAGGGACACCCACAGGAAGCCGGCTGGCTGACCCTCGCCTCAGCCGGGACCCCAAGCTCAC
CCGCCATGTGGAGGCTTCTGGCGGGTCTGGCCAGGTGATTGGGGACCTCCGATCCTCGGCTGGCTCGCGCCCT
GCCACCTCCAAGCCCGAAGGCAGCCTTCATTCCAGCCCTGTGGGGCCAGCAGTTCCAAGGGTCTGGGCCGCC
CCCAACGGAGGAGGAGGAAGGGGAGCGGGCCCTGCGGGAGAAGGCCGTGAACATTCCCTGGACCCACTCCCGG
GCACCTCTGCGGGACCCACGGTCACAGCTGCAGCAGTTGAGCCATCAAGAAGGACGTGACCCTGAGCAAGCC
CAGCTTCGCCCCGACCGTGCTCTGGAATCCCGAGGACCTGATCCCCCTACCATCCCCAAGCAGGACGCAGTGCC
CCCCGTGCCCCGGGCCCTGCAATCCATGCCACCTGGACCCCGGCTGCACCGCGCTGCCACGGCAGGGCCCCC
CAACGCCCCGACGCGCCCGGGCGCTCCACGGATTCCAGCACACAGGGCGCCAACCTCCCCGACTTTGAACTTCT
GTCTCGCATCCTCAAGACAGTCAATGCCACCGGCTCCTCGGCCGCCCCGGTTCCAGCGACAAACCCAGTGACCC
CCGGGTGCGGAAGGCCCCACCGACCTCGGCTGCAGAAACCCACAGACTCTACGGCTCCTCCCGGGCTGCCAA
GCCCCGCCCTGCTGAGGCGCCCTCTCCACCGCCAGCCCGAGTGGGGATGCCTCCCCACAGCCACCGCTCCCTA
CGACCCCGCGTGCTGGCGGCCGGTGGACTGGGCCAGGGCGGAGGGGGCGGGCAGAGCAGTGCTGCTGAGCGGTAT
CAGCCTCTACGACCCGAGGACTCCCAACGCGGGGGGCAAAGCCACAGAGCCGGCTGCTGACACGGGTGCCAGCC
CAAGGGTGCTGAGGGCAATGGCAAGAGCTCGGCCTCCAAGGCTAAGGAGCCCCGTTTCGTCCGCAAGTCTGCCCT
GGAACAGCCAGAGACAGGGAAGGCCGGTGTGATGGGGGCACCCACGGACAGATACAACAGCTACAACCGGCC
CCGGCCCAAGGCTGCTGCAGCCCCCGCTGCCACCACCGCCACCCACCCCGAGGGTGCCCCACCCAGCCCGG
GGTGACAACCTGCCCGTGCCACCTCTTCGGGACGGTGAAGCAGACACCCAAGACGGGCTCAGGAAGCCATT
TGCTGGGAACAGTCCGGCCCGGAGGGTGAGCAGGATGCGGCATCCTGAAGGATGTTTTTAAAGGCTTCGACCC
CACGGCTCCCCCTTTTGCCAGTAGTGTCCAGCCAGAGCTGCGGCTCCAGCCACCTTCCTAGGGTGGCATTAG
GGCAGCACCCAGGGTAGGGAAGTGGGGGCAAGGGGAGGCAGGCTGGGTGTTCTTTTTTCTTTTCTTTTCTTT
TGCTTTCCGTCTCTTTTATTTTTTTTTTAAAGTAGTACTTTCTTTGAGATTTGTAAATTGTATATAACCATCTTAA
GTTCTGGTCAGTGTTGGCGGCTCAGGGGCTCCTGCTGAGCAAACCGACTCATGCCGCAAACCTGTGAAGTTTCG
CCAGTGCTTGGCCTCAGACTCTGTGGGCTCTGCTGGCCGGGCCCTTGTGGAGGCCAGTGGGTTTTCTGGGCAA
AGCATGGCCCCCTTTTCCCCAGGACAAAGGGAACAGTTGGTGTCTGGGAAGGTATTGAACGCTCCTCACCTGTGC
CCGAAGAGACCCGGAACCAAGACCATGGCAGGGCTGCGTGGAAGCAGGTCCAGGCGTTTCTAGAACCCTAGGGT

4366/5332

FIGURE 3798B

GCACCATCACTGTCTTTTTCAGTGCAGGCTGTAACAACCCACTCAGGAGACAGTGAGAGTGAAAAGGTATTAAGGA
AAAAGCCCCCAGCGGCACTATGGGGGCTCCCTGGCGCATGCCTGCTCCTGTCCCTGGATTACCACACGTGCCCTC
CTGCCACCCTCCGTCTAGAGCAAGCGGATGCCCCCAGCCTGCAGCAGAAGCCTCCACAGTGAGAACTGGACCC
AAAGGTAGTGGGGGCCGGTGTGGGGCAGAGTCTGAAGAGCCACCTCTAGGAGGCAGCCCCTAGGAGCACGCACG
TTCTGTCACTATTACCCACCTGTCTATCAGGTGGGCCACACCCTGCTTGCCACACACAGGGTCTGTCTGGTC
CTCAAGCCACGCACCCGCTATGCCTGCACTGCAGCCCAGCCCCGGACAGCTCCAGGATCCGTGCAGTGGCTGCGC
CGCCAGGCCCCAACAAATGGGGACCCTGGGGTGGCTCCTGGCCAAGTGTCTCTGTTTTCTCGCACCTCCTTACA
CTGTGTGACCTGCAGGGCATGAGGTATTGATGTGTTTCGGGTTTCTTTCCCAAGCCAGCAGATGCAGGTGTTCCA
AGGTGTGTTGCTCTGTGGGATTTGTGGACACTTAAGAAACGGACTGAGTGGGAACCTGCAGCCAGGGGATGGGG
AGCCTCTGCTCCCCCATGCTCCACCCCTGGCTGAGGGCCAGCCTCATCTGCAGAGCCCTGGAGGAGGCCACCT
ATGGACACAGCCCCGAGAGATGGGCGCAAGGGGTGCTGGGGGAGGCCTGCTATCCTGCCTCTGGGCCACTTGAGGG
GCCTCAGGAAGTGTGTGCTTGTGGCTGCATCTGCCCGTCTCCCTGGCCCACCATGTGGCTGCAGGCCAAGCTCTT
CATTGCTGACCATGAAGAGACCTAGTTACCTGCCAAGGGATTCCCCTTCCCTCCTCCTCAGGGTGGGGTGAACAA
GGCTCCTATCCCACCCACCCCAAAAAGAGAAAAATGAAAACTCATAGTTTGGAGCCAGGAGGCAGGGTGTCTT
ACAGGGCTGCACAGCCCTGAGGGGTCACTGCTGGGATCTGGTTGGTTGGTTTGTCTTTTGTCTTTTTTTTTTTT
TTTTTTTTTACACAATCATTAAATGAGATTGTCTTCAGCCACCAGTGTGGCCTTGAAGCAGAGGGCACAGCCCT
TGGTGTTTGTAATAAAGTATGAATACACAGTGTGGCAGTGTGTGGTTTTTGTGTGTTTTTCTCTCCTTTT
GAGAATTTTCTTTTGTAAGAAGAAAAATTTTTTAAACCGAAATCTGTGGATGAAATAGAAGCTGGAGCCCTCCT
CTTGAATATTTCAGCCTAAGAACCTCATAGGACTATGAATTACCCGAAATTCTCATTGCCATCAGGCCGAGCT
TTTAAAGAAAAATTGTTCTCTAACCAGGATTGTAACAAAAGTGTAATACTGTTTCAGAGTTGAGAGTTGGTGGT
GCAAAATATGTATATAATGAAGTGTATTTTACAATGATCGCCGATGACTATTTACACCCTTTTTTATACTCCAT
ATCTGTCTTCCAGAAACGTCACCTGCCTTTCTCCTGTGGTCTCTTAATCCAGTAATTGTATTACTGCCATTAAAG
GATGCAGTTATTTT

4367/5332
FIGURE 3799

AGTGCGAATCATGGGAGGCGGGCTGGTGGTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTCGCTTCCGGAGGTCGCT
ACTGCCGCCTCAGCGGCCCCGGAGCGGGGGCGCCCGGGGGTCCTTCGCCCCCGGCCACGGTCCCCGCGCCGGGGC
TTCGCCGCCCCCAGTGTCCGAGCTGGATCGTGCGGACGCCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCT
CTCCTGGTTCCGCAATGGCCTCCTGGCATCGGGCATCGGGGTCATCTCCTTCATGCAGAGTGACATGGGTTCGGGA
AGCAGCATATGGCTTCTTCCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAGCGCCTCGTACGCCGTGGGCCTGGC
GGCGCTGCGAGGACCCATGCAGCTGACGCTGGGGGGCGCGGCCGTGGGCGCGGGCGCCGTGCTGGCCGCCAGCCT
GCTCTGGGCGTGCGCCGTGGGCCTCTACATGGGGCAGCTGGAGCTGGACGTGGAGCTGGTGCCCGAGGACGACGG
GACGGCCTCCGCGGAAGGCCCTGATGAGGCGGGTCGGCCGCCACCCGAGTGAGCGACACGGCCGTGGGGCCTGGC
AGGCGCTGGACAGCGCCCGAGGACTGGGACATTAAACCTGACCTCCCCTCCTCCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAACAAACAAAAA

4368/5332
FIGURE 3800A

GGGGGCCAGGAAGCCCCAGGCACACAGTGCCGCCCTTCAGCGGGGCTGGGACACAGAGAAATCAACGACCGGG
AGCAGAAGTTGCATGCCCTTAAGGAGGTATTAAAGAAATTTCCAAGGAAAACCACGAAGTCTTCAAGTATGTCA
TCTCTCACCTAAACAAGGTCAGCCACAACAAGGTGAATCTCATGACCAGCGAGAACCTCTCCATCTGCTTCT
GGCCACCTTGATGAGACCTGATTTTCAGCACTATGGACGCCCTCACAGCCACGCGCACCTACCAGACAATCATTG
AACTCTTTATCCAGCAGTGCCCTTCTTCTCTACAATCGGCCCATCACCGAGCCCCCGGCCAGGCCAGCT
CCCCCTCTGCCGTGGCTTCCACCGTCCCTTCCCTCACTTCCACGCCTGTCACAAGTCAGCCGTCGCCCCACAGT
CGCTCCACCCACCCCCAGTCCCCAATGCAGCCACTGCTTCCCTCCAGCTTCAAGCCGAACACACGCTGTGAG
CCACCAAGACCTGGGGCGACAGGAGAACCCTCTCTCTGACGGGTGGCATTTGGCCTTGAACAAAACCAAG
TCCACTGGGGACAGAGGCAGGGGCAAGTGGCTCTCCCCATTACCTTCTCAAGACCTCAGTGGGAGCACCAGCCAA
TGGTACCATCGGCTGGGCTGCCAGGTACCTGGGCTGGGCTGCAGACCTGAGCTGGCTTGGACCCATTTGAGG
ACTGAACTAGGCAGGCAATGGCTCCAGTGCCTTCCCTCTGTTCCCTGGACCACCACCCACAGTAGCTGCTCACAC
CAGCCTCCGGGTGCCTCCCTCTGCTTGTACAGAGCCCATGGTCGGGACAGTGCCTGGCCTTTGCCGGGAGGAG
GATGCTCTGAGATTACAGGTGGGGCTGGCAACCCCTGAAGAGAACACTTCCCTGTTGGTCTGTCTCTTCCACCTT
CCATCTGCACACACCCCAAGGTAAGGGTACAGCCCGGCTGGCGGCTCCTTGGGAACGTGTAGGCCACGGCTCT
GCCACCACTAGGTACCTGCTGAGGGCGCTGGCTCTGCAGATCAGAACAACGGAGGATAGCTTTGTGCTGGACCC
AGAGAGTGTGGGACTCCCGCTTTCATCCCCACCGTCCCACTCCACAGCCTTCCCGAAACATTCCCTGGCAAACAA
AGGAACACTAGGAGAAAAAATGAAAAACCCTTCCAGTAATTAAGGAAGAAACCACAGAAAGAAACTACAG
ACCTCAAGATTCCACTCTGTGCCCGCTCTGCCGGGAGGGAGGGAGGCACACAGGTGGAGCTGACCCTCGTCTTT
GTGGCAGCAAAACCAGGATGCCTGGAGCTGTGGCCTGAGGGCTGTGTTGGGTTCCCACTACCCACTTAGGTCTAG
TCGCTAGATCCCCGTTTTTCCCAAGAAGAGGGTTCGAGCCCTTGGTGGGACAGCTGGGAGATGGCAGTGCAGG
CTGGAACCTGGGCTGCCCCAGAACACAGTCCATTACGATAGAAACACTAGGCACCCCCAGGCGAGAGCTAGTGG
GGTGCAGAGGGCCCCATGCCAGACAGCCCTTGGGCTCGTTGCACCTTAAGAAATAGGATCTGTGGTGTATTCCA
GGGGGCTGATGGACACCTTTCCCGGGCTCTGCAGCTGCCCTGCCCGTGGCCGCTGCAGTGGTTGGAGACGGG
AGTGGCCCTTCGGCTCCCGAGCTCCCTCTGGGGACGGCTGGCTCACTGTCTCCAGTTCTCAATGGCCAACGAAGG
TGCTTGGAAACACCTAACCTTGCAAGTTTTACCGCCTTTTGAGGAACACAAATCGGAGAACAAACCCAGGGTTCA
GGCGTGTTTTCTGTGAATGTTGGATGATGAATTTTTGTCTCTTCTGGTGGAGCTGTGCCTGGCCCTGTAGGCCCA
GGGTTGGCTGGAAGGTGACATCTGTGTTTCGTTTTAGCTGAGGTTGGCAGAAACGTTCCCAAACCTCCCCAGCCC
TGGACCCAGCAGATGAGGAAACGGCCCCATTACTGACCCCGCCCCCTTTTCGAGGTTATGCTCACCTGGTCAG
CTCCTCACGTAATTGGGGGTGGAGGGAAGCATGGTGGTGCCCTGGGCGTCCCTGTGTGAACGCAGGCAAAAGC
AGCCCACTCCCCCTCACTGCTTGAGCTAACACTGCCACCTCTTTTGTGTGAGCACAAAAGCCACGTCCCAAGCCA
CCTGGCCCGATTCCACAGATGTATGTGCGGCCAGTGACTTCCCCAGGAGTGTGGAGGGGGTGGTGAGGAGGAGCA
CCTGGGCTCTCTACCCCTCTCCTCACAGAAGTACCTGAAACTAGGTCTGGGGCACTCCCAATGCAGCGCCTTGTG
AGCCAAGGTGGGCAGGCAGGACTGTGGCAGCTTATGTCCAAAGGGAGCCCCATGCACAGGAAGCCACAGGGTT
CCTCTTGTTCCTCCCGCTAACTTCAGCCTCTCATCTGCTGCTCCGGCTGAGGGACTAGAGGACATCTCGGTCTG
TTGAGGGGCATGGCCAGTCTGTGGCAGGCCGGCTTACGCGTCCGGTCAGGGAAGCGTGCAGCCCAATGGGCACT
TGCATGGGAGCCACAGAGGAGCGTCCCTGGGGATTGTTGGGACCATGCTGCCCCCACTCCCGCTTTTGTGGGGC
TCTAAGTTCTGGAAGGTGTGTGCACAGAGGTGCTCATGGGACTCGCATGCAGCTCTCAGCACTGGGTGGGAGGG
CGTTGGCTTGTCCAGAATGGGGACGTGGGGCAGCCACCCCTGCCAGCGAGAGCGCAGACACCGTGTGAGGGGAC
AGCAGCCCTTGGTGCAAGCCAGAGACTGATCCTGGCTCTGACGGCTGAAGAGGGAAGACCAAGGCTGGGTGGC
GTGGCTCGTGAATCCACTTAGAATTCTTGGCTTGTGTCGATCTGGGTGTACGGCACACATTTACTCTGCATT
GTCCCCGTCTTTCCCATCGCCTAGCGTTTTGGGGAGGAACAGGGAGAGAGCTTCGGGGCGTCTGTCTCCGTGCTCT
CCTGCCTCCACCGCTTGGTTTTGCTTCTGCTGGAGGCAGGGCACCTGCTGCGACCCAGATTCTTCTGCAGGAT
GTGTCTGTCTTTGTACGGTGGACAGAGGGTGACATCATAGGAGCAGCTCGCTGGCCAGAAGGGGATGGGGCAT
CCCTGTGCCTCACTCAGCTCCTGCTGCTCTTAGGGAAAGGAGGCCTGGGTCAAGCCAGCATCCCCTTGGTAAAGA
CCCCCGCAGGCCACCAGGCATTCTGGACACGCACACACACACACACACACACACACACACACAAAACTTACAGC
AGGCCAGCTGCAGTGACTTGTCTCAAGAGTCACCTCAGCTGCGCCCCCTCCCATCCTTTCTATGAGAAGCCA
CTGCTTTGGGGGCGCCGGCTAGAAAAAGTAGGGTGGCGTGGCCAGGAGGGCCCTGCCGCGGGGGGGCTGGGTG
TGGTTGAGTCGCTGCTTTCCCGAGGGCAGCGCAGGGATCCGGGAAGCTGCGGCAGGGAGCGGGCGCCGGCTTCG

4369/5332
FIGURE 3800B

TGGCTCTGAGGTGTAAACGGGGGTGGGCTCCCTCCCTCGGAGGACATCGTCTGTGTCCAGGTCAGAAAGTGGCCCA
GGAAGGGGGCAGTTTCTGTCTGCGGGTCCGGTGGGGGCGCGGCCGC

4370/5332
FIGURE 3801

TGCACCCTGAGCCGGAGCTGCCAGTCGCCGCGGGACCGGGGCGCTGGGGTCTGGACGGGGGTCGCCATGATCC
GCTTTATCCTCATCCAGAACCAGGCGAGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAGATCATTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAACTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAAGGGCAGGCGAGCCCCACCCCGGCCCGG
CCCCCTCCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCCTTCCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCTGTGTATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

4371/5332
FIGURE 3802

GGCACGCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGGTCCCGCCTCCCGGATCCAGGCGTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCAGCCTGGGGAAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTTCAGTGCTGTGAACTCACAACCTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCCTAGGAACGTCCGGTCTTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATCATGGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCACC GC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA
GGTGC GCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTGGGGGCGGGGGTGCCTGGCGTTGGGCCGGAGCGCTTGAGCGCCTTCGTCTTCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGAGCTTGATCGGCGGCGCGCCAGCCT
GGACCCCGGCGCGCTCGGCCGTCTGGGCGCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTCCGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCGCCTCCGCCGCCATCAACGCTCCGTGGGAGCCGC
GGGAGTGCCGAAAATGCCCCAGCAAGGAGGTGCTCGATTGTTCTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGAGCAGCCTTTGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAA
GGTGGCCGTGGGGCAGGAGGTGGAGGGATGAACATCCTGGGCTTGGTAGTGTGTCATCGTCTTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCCTGGATCATGTGGTACGCCCCGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCCTTGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCCCTCATCTACTTCTCTTACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCCTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGAGTGTTTCATTGCACAGCTCAGCCAGCAGTCTTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCGAGCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCGAGGACTCCTCCAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGGCGCAGGGGATGCCACGGTCCGCTCTGAGAAGGAATCAGTCATGTAAACCCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTCAAGGGTTACTCCTCAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTC
TCAGGGAGCAGGTACAGGTACCATGGGGAATTCTAGCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGCTGAGTTGTGGGGGGATGTGTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCCACCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGGAGAGGCTGAGGACAAATACCTGCTGCTCACTCCAGAGGACATTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

4372/5332
FIGURE 3803

ATGATGGAGGAGCGAGCGGCCGCGGTCGCCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCGCCGGGCCGGCCAGGTAAGGGAGGCGGCGGC
GGAGGCGAGCCCCGGGCCACGGCGGGCCCCGGAGCCCCCTGAGCCTGCCGGGGATCCTGCACCTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCGGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGGAGTCGCTGCTGGTGAAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTGTGGGGCAGATCCCCCTCCTGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTCAGCACAAAGACGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCTCGGCGGTGCACTGTGGATGGGAGCCCCCATGAGCTGGAAGCCGTCGG
GTCAAACCTCCAAGGCATTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGAAGTGGCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCCTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG
AAGACGTGGAACCCCAAGTTCACCTGCGCTCGCACTACGACGGCATTGCTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCCTCCGAGGACGGCAGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACAGGCCAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGCTGAGCCACGTCTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACCTCCCAGCGCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCCAGCAGC
AGCAGCCCCGGCCTGCCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTGGCAGTGCC
CTCCTCACGCTGGAGTCCCAGGGGAGCAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCAAACCAGCCT
CTCACCATCACCGCCACGACGACAGGGGCATCCGCTTCTGGACAATCGGACAGGTAAGCCGGTGCATCCATG
GTTGCACACCTGGACGACGTCACCTGCCTAGCCGTGGACCCCAACGGCGCATTCTGTATGTCAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAAACGTGCGTGCAGGAGATCACGGCCACCGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCCTGCCACCCACAGCAAGGCCCTCATTGCCAGTGCTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTATGATGCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGACAGGTGGGGCT
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCCTGGCCTCTGTCTGTTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCCCTTTCAG
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAGGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCGGCTGGCTGCCCTCCCCCTCCGCCCCCTCCTCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCAGCGCCCCATGGGGTCGCCATGGGT
AGAGACGGCTTTCTTGTGCCCTCCCTGGGGCATGGAGGGTGGAGTGGGCCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCCCACCCGATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGTTTGGTTCTACCCCTGCACCCTCGGTCCCTT
CCAGGTTCTGTATTATAAGCCCCAACCCCTCTGTCCCCATCTTGTATGTGAAACTTGTCTCAATAAACCCCTTG
GAGT

4373/5332
FIGURE 3804

CCGGGTGGGCTCCAGGCGGCCGGTCCCCGGCCTCCCCCAATGGCCACCGCCCCCTCTTATCCCGCCGGGCTCCCT
GGCTCTCCCGGGGCCGGGTCTCCTCCGCCCCCGGGCGCCTAGAGCTGCAGTCGCCGCCACCGCTACTGCCCCAG
ATCCCGGCCCCGGGTTCGGGGTCTCCTTTCACATCCAGATCGGGCTGACCCGCGAGTTCGTGCTGTTGCCCGCC
GCCTCCGAGCTGGCTCATGTGAAGCAGCTGGCCTGTTCCATCGTGGACCAGAAGTTCCTGAGTGTGGCTTCTAC
GGCCTTTACGACAAGATCCTGCTTTTCAAACATGACCCACGTCGGCCAACCTCCTGCAGCTGGTGCCTCGTCC
GGAGACATCCAGGAGGGCGACCTGGTGGAGGTGGTGTCTGTCGGCCTCGGCCACCTTCGAGGACTTCCAGATCCGC
CCGCACGCCCTCACGGTGCACCTCTATCGGGCGCCTGCCTTCTGTGATCACTGCGGGGAGATGCTCTTCGGCCTA
GTGCGCCAGGGCCTCAAGTGCGATGGCTGCGGGCTGAACTACCACAAGCGCTGTGCCTTCAGCATCCCCAACAAAC
TGTAAGTGGGGCCCCGAAACGGCGCCTGTCTACACGTCTCTGGCCAGTGGCCACTCGGTGCGCCTCGGCACCTCC
GAGTCCCTGCCCTGCACGGCTGAAGAGCTGAGCCGTAGCACCACCGAAGTCCCTGCCCTCGCCGTCCCCCGTCACTCC
TCTTCTCTCTTCTGCTCATCGTATACGGGCGCCCCATTGAGCTGGACAAGATGCTGCTCTCCAAGGTCAAG
GTGCCGCACACCTTCTCATCCACAGCTATACACGGCCACCGTTTGCCAGGCTTGCAAGAACTCCTCAAGGGC
CTCTTCCGGCAGGGCCTGCAATGCAAGACTGCAAGTTAACTGTACAAACGCTGCGCCACCCGCTCCCTAAT
GACTGCCTGGGGGAGGCCCTTATCAATGGAGATGTGCGGATGGAGGAGGCCACCGATTTCAGCGAGGCTGACAAG
AGCGCCCTCATGGATGAGTCAGAGGACTCCGGTGTCTATCCCTGGCTCCCACTCAGAGAATGCGCTCCACGCCAGT
GAGGAGGAGGAAGGCGAGGGAGGCAAGGCCAGAGCTCCCTGGGGTACATCCCCCTAATGAGGGTGGTGCAATCG
GTGCGACACACGACGCGGAAATCCAGCACCACGCTGCGGGAGGGTGGGTGGTTCATTACAGCAACAAGGACACG
CTGAGAAAGCGGCACTATTGGCGCCTGGACTGCAAGTGTATCACGCTCTTCCAGAAACAACGACCAACAGATAC
TATAAGGAAATTCCGCTGTCTAGAAATCCTCACGGTGGAGTCCGCCCAGAACTTCAGCCTTGTGCGCGCGGGCACC
AACCACACTGCTTTGAGATCGTCACTGCCAATGCCACCTACTTCGTGGGCGAGATGCCTGGCGGGACTCCGGGT
GGGCCAAGTGGGCAGGGGGCTGAGGCCGCCCGGGCTGGGAGACAGCCATCCGCCAGGCCCTGATGCCCGTCATC
CTTCAGGACGCACCCAGCGCCCCAGGCCACGCGCCCCACAGACAAGCTTCTCTGAGCATCTCTGTGTCCAACAGT
CAGATCCAAGAGAATGTGGACATTGCCACTGTCTACCAGATCTTCCCTGACGAAGTGTGGGCTCAGGGCAGTTT
GGAGTGGTCTATGGAGGAAAACACCGGAAGACAGGCCGGGACGTGGCAGTTAAGGTCAATTGACAAACTGCGCTTC
CCTACCAAGCAGGAGAGCCAGCTCCGGAATGAAGTGGCCATTCTGCAGAGCCTGCGGCATCCCGGGATCGTGAAC
CTGGAGTGCATGTTTCGAGACGCCTGAGAAAGTGTGTTGTGGTGTATGGAGAAGCTGCATGGGGACATGTTGGAGATG
ATCCTGTCCAGTGAGAAGGGCCGGCTGCCTGAGCGCCTCACCAAGTTCCTCATCACCCAGATCCTGGTGGCTTTG
AGACACCTTCACTTCAAGAACATTGTCCACTGTGACTTGAAACCAGAAAACGTGTTGCTGGCATCAGCAGACCCA
TTTCTCAGGTGAAGCTGTGTGACTTTGGCTTTGCTCGCATCATCGGCGAGAAGTCGTTCCGCCGCTCAGTGGTG
GGCACGCCGGCCTACCTGGCACCCGAGGTGCTGTCTAACACAGGGCTACAACCGCTCGCTGGACATGTGGTCAGTG
GGCGTGATCATGTACGTACGCTCAGCCTCAGCGGCACCTTCCCTTTCAACGAGGATGAGGACATCAATGACCAGATCCAG
AACGCCGCTTCATGTACCCGGCCAGCCCCTGAGCCACATCTCAGCTGGAGCCATTGACCTCATCAACAACCTG
CTGCAGGTGAAGATGCGCAAACGCTACAGCGTGGACAAATCTCTCAGCCACCCCTGGTTACAGGAGTACCAGACG
TGGCTGGACCTCCGAGAGCTGGAGGGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGACGTGCGCTGG
GAGCAGTTTGCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCCACGGACAGGGATCTCGGTGGGGCCTGTCCA
CCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTTCTCTGAGGTCTGTGCCCTCGTCCAGCTGC
TGCCCTCCACAGCGGTTCTTACAGGATCCAGCAATGAACTGTTCTAGGGAAAGTGGCTTCTGCCCCAACTGG
ATGGGACACGTGGGGAGTGGGGTGGGGGAGCTATTTCCAAGGCCCTCCCTGTTTCCCCAGCAATTAACAGGA
CTCATCTCTGGCCCCATGGCCTTGATCTCAGCACACGGCATCTCGAATCATTACTCTGTTGTACCAACATGGAG
TTCATCTGGAAGGAGGACTGCCTGAAAAGAGGAAGGATGG

4374/5332
FIGURE 3805

GGGGACGAGAGATTTCGCGGGCCCCGTAGGTGTGGAGCGGGGCGCGGAGGGATCCGTGGGAGCCGCGAGTGC GGCGGGC
GCGCGGGCCGGGTGGGGCGGGGCCGAGCGAGGCGGGGCGCGCGGGCGGCCGTGAGGGACCGTTGGGGCGGGAG
GCGGCGGGCGGGCGGGCGCGCGCTGCGGGCAGTGAGTGTGGAGGCGCGGACGCGCGGGCGGAGCTGGAAGTGTGC
AGCTGCTGCCGCGCCCGGAGGAACCTTGATCCCCGTGCTCCGGACACCCCGGGCCTCGCCATGGCTGACCAGCTG
ACTGAGGAGCAGATTGCAGAGTTCAAGGAGGCCTTCTCCCTCTTTGACAAGGATGGAGATGGCACTATCACCACC
AAGGAGTTGGGGACAGTGATGAGATCCCTGGGACAGAACCCCACTGAAGCAGAGCTGCAGGATATGATCAATGAG
GTGGATGCAGATGGGAACGGGACCATGACTTCCCGGAGTTCTTGACCATGATGGCCAGAAAGATGAAGGACACA
GACAGTGAGGAGGAGATCCGAGAGGCGTTCCGTGTCTTTGACAAGGATGGGAAATGGCTACATCAGCGCCGAGAG
CTGCGTCACGTAATGACGAACCTGGGGGAGAAGCTGACCGATGAGGAGGTGGATGAGATGATCAGGGAGGCTGAC
ATCGATGGAGATGGCCAGGTCAATTATGAAGAGTTTGTACAGATGATGACTGCAAAGTGAAGGCCCCCGGGCAG
CTGGCGATGCCCGTTCTCTTGATCTCTCTCTCTCGCGCGCGCACTCTCTCTTCAACACTCCCCTGCGTACCCCG
GTCTAGCAAACACCAATTGATTGACTGAGAATCTGATAAAGCAACAAAAGATTGTCCCAAGCTGCATGATTGC
TCTTTCTCCTTCTTCCCTGAGTCTCTCTCCATGCCCCCTCATCTCTTCTTTTGGCCCTCGCCTCTTCCATCCATGT
CTTCCAAGGCCTGATGCATTACATAAGTTGAAGCCCTCCCAGATCCCCTTGGGGAGCCTCTGCCCTCCTCCAGCC
CGGATGGCTCTCCTCCATTTTGGTTTGTTCCTCTTGTTTGTCTATCTTATTTTGGGTGCTGGGGTGGCTGCCAGC
CCTGTCCCGGGACCTGCTGGGAGGGACAAGAGGCCCTCCCCAGGCAGAAGAGCATGCCCTTTGCCGTTGCATGC
AACCAGCCCTGTGATTCCACGTGCAGATCCCAGCAGCCTGTTGGGGCAGGGGTGCCAAGAGAGGCATTCCAGAAG
GACTGAGGGGGCGTTGAGGAATTGTGGCGTTGACTGGATGTGGCCCAGGAGGGGGTGCAGGGGGCCAACTCACAG
AAGGGGACTGACAGTGGGCAACACTCACATCCCACTGGCTGCTGTTCTGAAACCATCTGATTGGCTTTCTGAGGT
TTGGCTGGGTGGGGACTGCTCATTGGCCACTCTGCAAATTGGACTTGCCCGCGTTCTGAAGCGCTCTCGAGCT
GTTCTGTAAATACCTGGTGCTAACATCCCATGCCGCTCCCTCCTCACGATGCACCCACCGCCCTGAGGGCCCGTC
CTAGGAATGGATGTGGGGATGGTCGCTTTGTAATGTGCTGGTTCTCTTTTTTTTTCTTCCCCCTCTATGGCCCTT
AAGACTTTCATTTTGTTTGAAGACCATGCTGGGCTAGCTAAAGGGTGGGGAGAGGGAAGATGGGCCCCACCACGCT
CTCAAGAGAACGCACCTGCAATAAAACAGTCTTGTCGGCCAGCTGCCAGGGGACGGCAGCTACAGCAGCCTCTG
CGTCTGGTCCGCCAGCACCTCCCGCTTCTCCGTGGTGACTTGCGCGCCGCTTCTCACATCTGTGCTCCGTGCC
TCTTCCCTGCCTCTTCCCTCGCCACCTGCCTGCCCCCATACTCCCCAGCGGAGAGCATGATCCGTGCCCTTGC
TTCTGACTTTTCGCTCTGGGACAAGTAAAGTCAATGTGGGCAGTTTCAATCGTCTGGGTTTTTTTCCCCCTTTTCTGTT
CATTTCACTCTGGCTCCCCCACCACCTCCCCACCCCAACCCCAACCCCTGCTTCCCTCACTGCCAGGTCGAT
CAAGTGGCTTTTCTGGGACCTGCCAGCTTTGAGAATCTCTTCTCATCCACCTCTGGCACCCAGCCTCTGAGG
GAAGGAGGGATGGGGCATAGTGGGAGACCCAGCCAAGAGCTGAGGGTAAGGGCAGGTAGGCGTGAGGCTGTGGAC
ATTTTCGGAATGTTTTGGTTTTGTTTTTTTTTAAACCGGGCAATATTGTGTTCAAGCTGTGAAGAAAAATA
TATATCAATGTTTTCCAATAAAATACAGTGACTACCTG

4375/5332
FIGURE 3806

GAGCCTACCAAACCTTTGGTTTCGAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCTTGAAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCCGGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGGCCGTG
GCCTGGGTGTCTGCCAAGAACCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTCTCTACCAGGCTGCCGTTTACCAGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCCCTTTATGCATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCAGCTTTTCTCCCCACGCCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCCGCTTCTCTCGTGTAAACCAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTGATTCCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATCCATCCATCTACCCAAGTGTACCATCTTTGCACCAAAC
TGTCACCATCTTTGCAGCAGAAGGTCACTACTCACATTATAGTAAGAGGGGAAAAAATCTTTTAAACTTTGGCT
GTTGGCCGGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTGATCACGAGGTGAG
GCGTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAAATTAGCTGGGCGTGGTGGCGCGCGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAAACTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCAATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGAGCAGGGTCCCTGAGATAATGGTTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTTCTCACGTGTTTTAAAAAAGTGAAGTGAAGTCACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTAACTTGTTTTGTACACGTCTTAGTTATTTTACGGCAT
CTCTTTGCTTAAAAATTGAGTTTCTTGTAATGTGACTGATGAGCGAGGTAGAAAGTGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCTTTTCGTCATTACATGCTCTTGTCTGCCGTGACTGTTTCAG
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAAACAAATTTCTCGTGATGATTCAATTCAAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACAAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAAACAAGTTGACACCATGACTAGTAATGTAAACGTGTATGTATAAAATAAAGTTTAGCAAAT
TAAGTGCTCCTGTT

4376/5332
FIGURE 3807

AGTCTTCCAGAGTCTGGGAGTGTAAGATGAGACGGGGGAAGGTGGGCCTCATTCTGGCGGAGGGCGAGGAGGAAC
TTCCTGCCCCGCGCTCCACGGTGCAGAGCTCTAAGCGCGCGGGCTGGCAGGCTGCGGCGCGTCAAGGTCAGCCT
GGAGCTGGGTGGCGGCTGCTGGGGGCGGGGACCCTACTGGAGGCCCCGGGCTGGGGCCTCCCAGCGCCTCGGC
CATATTGAATAGCTTCGACTGGACCGTCTTTGTCTGCGAAGTCTGTCCCAAGTTCCAGCCGCGTCCCTGGGGCC
TGGGGCAGGAAGAGTCGCTGGCAGCCCCGCGCGCCCCAACTTGGAGCTGGGACACCACGTTTCCAGCTTGGAGTGG
GCCTTGAGCCTTGGGACTGACCTCGCCCCCGGCTCACGTAGGCATCCTGGAATTGATTCCCCCAAGTCCTTGGT
GGGGGAGCCGGACTTGGTCAAGACTGTACTTGTTCAGGCCAAGAGATTGGAGGCGTTTGGCTCGTCCCTGGCTA
GGGAGGTGAGACTCTCCGGTCAGCGTTGCTGGAATCCCCCATCCAGTCCCTCCCTCAAGACTAAGGGCTACAG
TAGTTTGTGGGGCTCATTGCCCCCTCACCCAGATATCACCTGGAGATCTTAAAGACTCTCGAGAAAAGCCAC
GTGGGGGGCTGGTTCCCTGGGGCTTCTGCGTCCCCGACTGCCTCATTCTTTGGAGCGTCCCGATGTCTGC
AAAGATGTGGATTGGACGTCTCGTGGAAGCCCTAAAGCCCGTGGGGACATTTAAGAAGATCGGCAAGGTGTTT
CGCAAGGAGGAGGACTCCACGGTGGGGATGCTGCAGATCGGGGAGGACGTCGACTATTTGCTCATCCCCGGGAG
GTCAGGCTGGCTGGGGCGTCTGGAGAGTCATCTCTAAGCCCGCCACCAAGGAAGCAGAATTCGGGAGCGGCTG
ACCCAGTTCCTGGAAGAAGAGGGCCGACCCCTGGAGGACGTGGCCCCGCATCATGGAGAAGAGCACCCCGCACCCG
CCCCAGCCCCCAAAAAGCCCCAAGGAGCCCCGAGTGAGGAGGAGAGTGCAGCAGATGGTGACTCTCCGCCCCGG
CTGGTCTGGGACGTACGACAGCAGCAACGCCAGCGACAGCGAGTTTTCAGCGACTTCGAGACCTCCAGAGACAAG
AGCCGCCAGGGCCCGCGCGGGGCAAGAAGGTGCGCAAAATGCCCGTCAGCTACCTGGGCAGCAAGTTTCTGGGA
AGCGACCTGGAGAGTGAGGATGATGAGGAAGTGGTCGAGGCCCTTCTCCGGCGACAGGAGAAGCAGCCCCAGCGCG
CCGCTGCCCCGCCCGCGCTCAACCTGCCAGTGCCCATGTTTGAGGACAACCTGGGGCCTCAGCTGTCCAAAGCG
GACAGGTGGCGGGAGTATGTACGCCAGGTGTCTGGGGGAAGCTGAAGCGGAGGGTGAAGGGTTGGGCGCCGAGG
GCGGGCCCCGGGTGGGCGAGGCCCCGGCTGGCCTCCACCGCAGTGGAGAGCGCAGGGGTATCATCGGCGCCAGAG
GGCACCAGCCCCGGGGATCGCTTGGGAAACGCGGGAGATGTTTGTGTGCCCCAGGCTTCCCCTAGGCGATGGAGG
CCCAAGATCAACTGGGCCTCCTTTGCGCGCCGAGGAAGGAGCAGACAGCACCCACAGGTCAGGGGGCAGACATC
GAGGCTGATCAGGGGGGAGAGGCTGCAGATAGTCAAAGGGAAGAGGCCATAGCTGACCAGCGGGAAGGGGCTGCA
GGTAATCAGAGGGCAGGGGCCCCAGCTGACCAGGGGGCAGAGGCTGCAGATAATCAGAGGGAAGAGGCTGCAGAT
AATCAGAGGGCAGGGGCCCCAGCTGAGGAGGGGGCAGAGGCTGCAGATAACCAGAGGGAAGAGGCTGCAGATAAT
CAGAGGGCAGAGGCCCCAGCTGACCAGAGGTACAGGGGCACAGATAACCACAGGGAAGAGGCTGCAGATAATCAG
AGGGCGGAGGCCCCAGCTGACCAGGGGTACAGAGTTACAGATAATCAAAGGGAAGAGGCCGTACATGACCAGAGG
GAAAGGGCCCCAGCTGTCCAGGGTGCAGATAATCAGAGGGCACAGGCCCCGGGCTGGCCAGAGGGCAGAGGCTGCA
CATAATCAGAGGGCAGGGGCCCCAGGTATCCAGGAAGCTGAAGTCTCAGCTGCCCAAGGGACCACAGGAACAGCT
CCAGGAGCCAGGGCCCCGAAACAGGTCAAGACAGTGAGGTTCCAGACCCCTGGACGCTTTTCGTGGTTTTTGCAAG
CGCCGGAGAGCCTTCTGGCACACTCCCCGTTGCCAACCTGCCCAAGAGAGTCCCAGGGCAGGAGAGGCCAGG
AACCTCAGGGTGCTGAGGGCCGAGGCCAGAGCAGAAGCTGAGCAGGGAGAGCAAGAAGACCAGCTGTGAGGTTGAG
GGCTAGAGACAGCCCACGGGCCCTCCCTCCAAGTGTGGGAGGGAGAGATGCTCTGCCTCTGAACTTCAAAGTGGA
GGTGGAGTGCTGGCCACGTCTCCACCTAACCAACCTCTTTATTCTCTTGTAAAGTTTTGTTTCATGCTTTGATTT
TTTTTTAAATTTTTTAGAGACAGGGTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCATGATCATAACTCACT
GCAGCCTCAAAGTTCTGGCCTCAAGTGATCCTCTGCTCGGCTCCCAAAATGCTGGGATTACAGATGTGAGCC
ACCACACACACCATCTGATTAAAAAATACTGATTCTTGTAGCAACCC

4377/5332
FIGURE 3808

CGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGCGCGATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCCAAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGCTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCCGGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCAAGTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCTTACCAGATTCTGGTACAGGTCAAAGAGGTCTCTCCAAGCTGAGCACGCTCGTGGAACACACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAG
CTCAACGGTTTACCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTGTGA
GAAGTGATCCTCACCCTTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCCAAGTGCATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTCACCCCTGGATGACATCCGGAATTTGAGCGGAATCGACAACCCCCAGATTACAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTGAG
TTTGGGCCTGACGTACCAAGGCCTTCTTGGAGAGAACAACTGGACTATATCATCCGAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTGCCCCAACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCCACCAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGGC
GGCCTGCATCCAGGGCCCCCTCCAATCCCACCGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCTTTTACTTTGTAAAGTTTGTATTTATTTCCCTTTAGGTTTGCAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCC,GGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCGATAGGAAGACCCCCAGAGAGAGGGTCAGCAGGGGGGGCCCC
GCCTGCGCCTCCCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAATAAAGTCATTATCGG

4378/5332
FIGURE 3809

CCGCCGAGCCGCCGAGCAGCAGCAGCAGCCGCCGCCAGGCCCGCCCGATGAGCCCGAGGCCCGGATTCCCGC
AAGAGGCCCCCTCGAAACGCCCCCGAGGTGGTCTGCACCAAGCGCAGCAACACGGGAGAGGAAGGCGAATACTTC
CTGAAGGTGCTGATCCCCAGCTACGCGGCGGGCTCCATCATTGGCAAGGGCGGGCAGACCATCGTGCAGCTGCAG
AAGGAGACCGGAGCCACCATCAAGCTCTCCAAGTCCAAAGACTTCTACCCCGGAACCACAGAGCGGGTATGCCTA
GTACAGGGCAGGGCAGAGGCCTTGAATGCTGTGCACAGCTTTATTGCCGAGAAGGTCCGAGAAATCCACAAGCG
ATGACCAAGCCTGAGGTGGTCAACATCCTTCAACCCCAAACCACGATGAACCCCGACAGAGCCAAGCAGGCCAAG
CTGATCGTCCCCAACAGCACGGCGGGCTGATCATCGGCAAGGGAGGCGCCACGGTGAAAGCCGTGATGGAACAG
TCAGGAGCATGGGTGCAGCTGTCCCAGAAGCCGGAGGGCATCAACCTGCAGGAGCGCGTGGTGACGGTCAGCGGC
GAGCCCGAGCAGGTGCACAAGGCCGTGAGCGCCATCGTGCAGAAGGTACAAGAAGACCCCCAGAGCAGCAGCTGC
CTCAACATCAGCTACGCCAACGTGGCAGGCCCCGTGGCCAACTCCAACCCACCGGCTCTCCGTACGCCAGCCCC
GCGGATGTGCTGCCAGCCGCGGCCGAGCGTCGGCCGCGCGCCCTCCGGCCTGCTGGGCCCCGCGGGGCTGGCT
GGCGTGGGGGCTTTCCCGCCGCGCTGCCCCGCTTCTCAGGCACCGACCTGCTGGCCATCAGCACGGCGCTTAAC
ACGCTGGCAAGTTACGGCTACAACACCAACTCCCTGGGCCTGGGCCTCAACTCGGCCGAGCTTCCGGCGTCCCTG
GCCGCCGTGGCCGCGGGGCCAACCCAGCAGCCGCGCGCGCCGCAACCTCCTGGCATCCTACGCGGGCGAGGCC
GGGGCCGGGCCAGCCGGAGGGGCCGCCCGCGCGCCCCGCGCTCCCGGAGCCCTGGGGTCCCTTTCGTTGGCC
GCAGCCGCCAACGGCTACCTCGGGGCCGGGGCGGGCGGGCGGGCGGGCGGAGGGGGCGGCCCGCTGGTGGCCGCT
GCAGCCGCGGCCGGGGCGGGCGGGGGCTTCCTGACGGCGGAGAAGCTGGCGGCTGAGAGTGCCAAGGAGCTGGTG
GAGATTGCGGTGCCTGAGAACCTGGTGGGAGCCATCCTGGGGAAGGGGGGCAAGACGTTGGTGGAGTACCAGGAG
CTGACGGGCGCTCGCATCCAGATCTCCAAGAAGGGCGAGTTCTTGCCAGGCACGCGGAACCGGCGGGTCACCATC
ACGGGCAGCCCCGCGGCCACGCAAGCCGCTCAATACCTCATCAGTCAGCGGGTCACCTACGAGCAGGGAGTGAGG
GCCTCAAACCCCCAGAAAGTGGGATGAGGCCTGTGGTGTGTGCTCCACCCCTTTCTCTCCTCCCATCTCCTCCT
CTTCCCTCTCCTCCTCCCCCAACTCCTGACCTCAGCTTGGTGTAGTCTGCTCCTCTTGGGATGGGGCTGGGG
TAGGCCCCGACTGCACCCTCCCCTTCTGGTAGTCATAGGCAGGATTGAGTGACGGTTGGGAAGGGGGCTCAGAAGC
CCCCTCCCCAGCCCGGAACGACCCCTCCTTCCTCCCTCCCTGTGCTTGGCTGGGCCTGACCCTTCCTGTCCCAG
GGCCCAGGTCTGTGTGATATCTGTATATATTGCATTTTGTGATTTTAATAGAAAAC

4379/5332
FIGURE 3810

ATGAGGATGGCAGTTGGGGCGTCCAGGCTGCTGACTGAGTGCCCGCCTGTCGGTACAGCCAGCCAGGCCTTCGAC
AAGCACCTGCCTGGAAACCGGGCTCGCTGTCCTGAAAGCCTGGACTGGATGTCACGATGGGGAGAACGGGATCGC
GATACCCAAGCTGGGGCACAGGCGAGCCAGGGACACTGGTTTACTGGGGTGATAACACCCAGCCCTGCTATCGCG
ATCCGTTTGCACTGTGAGACGCCGCCCGCCTCCTGCCCACCACCTCCAGAAGCTCCTGGCTGGGGTGCACTGCCG
TCTCCTCCCACTCCCCACATTGCCATGCCCTGGGCCACGCCCACCCACCCACTCACCCACCCCAAGTGTCCGTTG
TGTGACCTACGCTCAGAAAGGGCCGTCCAGGAACCGCTGCTCCTCCTGCGCGATCAGGAAGCCGCCAGCCGGCTC
CACCGCCGACGCTCTCGCCGGGATCTGCACTGGCCTTCGGGCTGCCTCTCGCCAGCTTACTTCGCTGCCACCC
TTCGACATGTGGAAGGACTACTTCAACCTGAGCCAGGTGGTGTGGGCGCTGATCGCAAGTCGGGGTCAAAGGCTG
GAGACCCAAGAGATTGAGGAGCCAAGTCCCGGGCCTCCGCTGGGGCAGGATCAGGGGCTGGGGGCGCCAGGGGCC
AACGGGGGCTGGGGACCTGTGCAACTTCTGCAAGCACAAACGGGGAGTCCCGCCACGTCTACTCCTCACACCAG
CTGAAGACACCGGATGGCGTGGTGGTGTGTCCCATCCTGAGGCACTACGTGTGTCCCGTGTGCGGGGCCACCGGT
GACCAGGCCCATACGCTCAAGTACTGCCCGCTTAACGGTGGCCAGCAGTCCCTCTACCGCCGCAGCGGGCGCAAC
TCGGCCGGACGCAGGGTCAAGCGCTTGA

4380/5332
FIGURE 3811

GTGGGACTTCAGCGAGGCCGTGTGTCGCGGCTGCGTGAACCTTCGAGGGCGCGGACCGCATCGAACTGCTCATCGA
TGCCGCCCCGAGCTCAAGCGCAGCCACGTGCTCCCCGAGGGCCGCTCGCCCGGGCCCCCGGCCCTTAAGCACCC
GGCCACCAAGGACCTGGCGGGCGGACCGCACAGGGGCCCCAGCTGCCGCCCCCGCAGGCCCCAGCCCCAGCCGTC
AGGGACCGGCGGGCGGTGTGCGGGCCAGGACCGCTATGACAGGGCCACATCATCAGGCCGCCTCCCCCTGCCCTC
GCCCCCCTGGAGTACACTCTGGGGTCCCGCTGGCCAATGGGCTGGGCGGTGAGGAGGCCGTGGCTGAGGGGGC
GCGAAGGGCCTTGCTTGGCTCCATGCCTGGCTTGATGCCCCCTGGGCTGCTGGCAGCTGCAGTGTCTGGCTGGG
AAGCCGAGGCCTGACGCTGGCACCCGGCTTGAGTCTGCCCGTCCCCCTCTTCGGCTCCGATTTGAGAAAGAGAA
GCAGCAGAGGAATGCGGACTGTCTGGCAGAACTGAACGAGGCCATGCGAGGCCGGGCAGAGGAATGGCACGGGCG
CCCCAAAGCAGTGCGGGAACAGCTACTGGCGCTGTCCGCTGCGCCCCGTTCAATGTGCGCTTCAAGAAGGATCA
CGGGCTGGTGGGGCGAGTGTTCGCCTTCGATGCTACTGCCCGTCTCCAGGATACGAGTTCGAGCTGAAGCTCTT
CACCGAATACCCCTGTGGTTCCGGCAATGTGTACCGCGCGTCTGGCAGTGGCTCGCCAGATGTTCCACGATGC
TCTGCGGGAGCCGGGCAAGGCACTGGCTTCTTCGGGCTTCAAGTACCTCGAATATGAACCGCGCATGGATCAGG
AGAATGGCGGCAGCTGGGCGAGCTGCTTACCGACGGCGTCCGAGCTTCCGCGAGCCAGCTCCCGCGGAGGCCCT
GCCCCAGCAGTACCCAGAGCCGGCCCCCTGCGGCTCTCTGTGGCCACCCCCGCGAGCCCCATCCCGGAACCTGGC
GCCACGCGCGCGCTCGCAAGGCATCCCCGAGCCGAGGGGCGAGGCGGCTGGGAAGATGACCACCGAGGAGCA
GCAGCAACGGCACTGGGTGGCACCCGGCGGCCGTACTCCGCTGAGACCCCTGGTGTGCCCTCGCCCATTGCCGC
CCTGAAGAATGTGGCCGAAGCCCTGGGCCACTCACCAAGGACCCTGGCGGAGGCGGGGGGCTGTGCGTGCAGG
GGGCGCCAGCCCTGCAGCTCCTCCACGGCCCCAGCCGCAACCCAGCATCGCCTTGTGGCCCGCAACGGCGAAGC
AGAAGTCAGTCCCACAGCGGGGGCCGAAGCTGTCAGCGGGGTGGCAGCGGCACTGGGGCGACCCCTGGGGCCCC
CCTGTGCTGTACCCTGTGCAGGGAGCGGCTAGAAGACACCCACTTCGTCCAGTGGCCCTCGGTGCCCGGACACAA
GTTCTGCTTTCCCTGCTCCCGGAGTTCATCAAGGCGCAGGGCCCGGCCGGGAGGTGTACTGCCCGAGCGGAGA
CAAGTGGCCGCTGGTTCGGCTCCTCCGTGCCCTGGGCCTTCATGCAGGGCGAGATGCCACCATCCTTGCTGGAGA
CATCAAAGTTAAGAAAGAACGGGACCCCTAGGCTACCACTGCCTCCAGGCTACTGCCCTCTGCCCTTTGCCACC
CACCGCTGCCGCGGATAAATTATTCCTCCCCGACCCAGCCAGTGCCACCTCTATCTGTGTACATACTCCCTTC
TTCCACCCAGATGGGTCCCCCTGGGGTAGATGCATTGTGGGTGGGGGGAGAAAGCTTGTGGCTCCTGTCCGAGGGG
GTGTTTGGGGTCCCTTGGCCCCCTCCAGTTTCCCTCTGTCTCCTTGGCTTGGCTTTGCTGCTGCTTGTAGTTGGG
GGAGAGGTGCCCCCTCCTCCTTGAGAAAGGACCTCCTGAAAACCTCGCTCTTTATAAACGAGGCAAAGCATTTA
ATTCCACCCCCCACCCCCGCTCCCTTCTGCTCCTTCAATAAACCGAAAGATGGGTT

4381/5332
FIGURE 3812

ATGCTGGGCTCAGTGAAGATGGAGGCCCATGACCTGGCCGAGTGGAGCTACTACCCGGAGGCGGGCGAGGTCTAC
TCGCCGGTGACCCAGTGCCACCATGGCCCCCTCAACTCCTACATGACCTGAATCCTCTAAGCTCTCCCTAT
CCCCCTGGGGGGCTCCCTGCCTCCCCACTGCCCTCAGGACCCCTGGCACCCCCAGCACCTGCAGCCCCCTGGGG
CCCACTTTCCAGGCCTGGGTGTCAGCGGTGGCAGCAGCAGCTCCGGGTACGGGGCCCCGGGTCTGGGCTGGTG
CACGGGAAGGAGATGCCGAAGGGGTATCGGCGGCCCTGGCACACGCCAAGCCACCGTATTCTATATCTCACTC
ATCACCATGGCCATCCAGCAGGCGCCGGGCAAGATGCTGACCTTGAGTGAAATCTACCAGTGGATCATGGACCTC
TTCCCTTACTACCGGGAGAATCAGCAGCGCTGGCAGAACTCCATTGCGCCACTCGCTGTCTTTCAACGACTGCTTC
GTCAAGGTGGCGCGTTCCCCAGACAAGCCTGGCAAGGGCTCCTACTGGGCCCTACACCCAGCTCAGGGAACATG
TTTGAGAAATGGCTGCTACCTGCGCCGCCAGAAACGCTTCAAGCTGGAGGAGAAGGTGAAAAAGGGGGCAGCGGG
GCTGCCACCACCACCAGGAACGGGACAGGGTCTGCTGCCTCGACCACCACCCCGCGGCCACAGTCACCTCCCCG
CCCCAGCCCCCGCTCCAGCCCCCTGAGCCTGAGGCCCAGGGCGGGGAAGATGTGGGGGCTCTGGACTGTGGCTCA
CCCGCTTCTCCACACCCTATTTCACTGGCCTGGAGCTCCAGGGGAGCTGAAGCTGGACGCGCCCTACAACTTC
AACCACCCTTTCTCCATCAACAACCTAATGTCAGAACAGACACCAGCACCTCCCAAAGTGGACGTGGGGTTTGGG
GGCTACGGGGCTGAAGGTGGGGAGCCTGGAGTCTACTACCAGGGCCTCTATTCCCGCTCTTTGCTTAATGCATCC
TAG

4382/5332
FIGURE 3813A

TAGGAAGAGGACACTGCTGAGGGGGCGCGAGGGGAACGGAGGCCAGAGCTGCGCTGACAGCACCATGGCGAGCGG
CAGTGGAGACAGCGTCACCCGTCGGAGCGTGGCATCACAGTTTTTCTCAAGAGGAGGGGCGGGGCATCGATGG
CATGACCACCTCAGAGAGGGTGGTGGATCTTCTGAACCAGGCGGCGTGATCACCAATGACTCAAAGATCACAGT
GCTCAAACAGGTCCAGGAGTGATCATCAACAAAGACCCACACTACTGGACAACCTCTCTGGATGAGATCATCGC
ATTCCAAGCAGACAAGTCAATCGAAGTGCGAAAATTTGTTCATCGGCTTCATCGAGGAGGCATGCAAGCGAGACAT
TGAGTTGCTGCTGAAACTCATTGCAAACCTCAACATGCTCTTGAGGGACGAGAATGTGAACGTGGTGAAGAAGGC
TATCCTCACCATGACCCAGCTCTACAAGGTGGCCCTGCAGTGGATGGTAAAGTCACGGGTCAATTAGCGAGCTACA
GGAGGCCTGCTGGGACATGGTATCTGCCATGGCGGGGGACATCATCTGCTATTGGACTCTGACAATGACGGCAT
CCGCACCCACGCCATCAAGTTTGTGGAGGGCCTCATTGTACCCCTGTACCCCCGCATGGCTGACTCAGAGATACC
CCGACGCCAGGAGCATGATATCAGCCTGGACCGCATCCCTCGTGACCACCCCTACATCCAGTACAACGTGCTATG
GGAAGAGGGCAAGGCAGCCTTGGAGCAGCTGCTTAAGTTTCATGGTGCACCCCTGCCATCTCCTCCATCAACCTGAC
CACAGCGCTGGGCTCCCTTGCCAAATATCGCCCCGCCAGAGACCCATGTTTCATGTCTGAGGTGATCCAGGCCTATGA
AACTCTGCATGCCAACCTGCCCCGACGCTGGCCAAATCGCAGGTGAGCAGTGTGCGTAAGAATCTGAAGCTGCA
CCTGTTGAGTGTGCTGAAGCACCCGGCTTCTTGGAGTTCAGGCCCAGATCACACCCTGCTGGTGGACCTGGG
CACACCTCAGGCCGAGATCGCCCCGAACATGCCGAGCAGCAAGGACACCCGCAAGCGGCCCGCGATGACTCGGA
CTCCACACTCAAGAAGATGAAGCTGGAGCCCCAACCTGGGGGAGGACGATGAGGACAAAGACTTGGAGCCAGGCCC
GTCGGGGACCTCGAAGGCCATCAGCGAGATCTCCGGCCAGTCAGACACGGACATCACAGCTGAGTTCCTGCAGCC
TCTGCTGACGCCTGATAATGTGGCTAATCTGGTCTCATCAGCATGGTGATCTTACCTACCCGAGGCCATGCCAGCCTC
CTTCCAGGCCATCTACACCCCCGTGGAGTCAGCAGGCACGGAAGCCAGATCAAGCAGTCTGGCTCGGCTCATGGC
CACACAGATGACAGCTGCCGGACTGGGACCAGGTGTAGAGCAGACCAAACAGTGCAGGAGGATCCCAAGGAGGA
GAAGGTGGTGAAGACAGAGAGCGTCTGTATCAAGCGGCGCTGTGACGCCAGGGCCAAGCCATCTCGTGGTGGG
TTCCCTGAGCTCCATGTCCCCCCTGGAGGAAGAGGCACCGCAGGCCAAGAGGAGGCCAGAGCCATTATTCCTGT
CACTCAGCCCCGGCTGGCAGGCGCTGGTGGGCGCAAGAAAATTTTCCGTCTCAGCGACGTGCTGAAGCCCTTAC
CGATGCCCAGGTGGAAGCCATGAAGCTGGGCGCTGTGAAGCGGATCCTGCGGGCTGAGAAGGCTGTGCCTGCGAG
CGGGGCAGCCAGGTCCGCATAAAGATCTTGCCAGCCTGGTGACACAGTTCAACTCGGGCCTGAAGGCGGAGGT
CCTGTCTTTCATCTTGAGGATGTGCGGGCCCGCCTGGACCTGGCCTTCGCCTGGCTCTACCAGGAGTACAACGC
CTACCTGGCCGAGGTGCCTCGGGCTCCCTGGACAAGTATGAGGACTGCCTCATCCGCCTGTTGTCTGGCCTGCA
GGAGAAACCAGACCAGAAGGATGGGATCTTACCAAGGTTGTGCTGGAGGCGCCACTCATCACAGAGAGTGCCCT
GGAGGTGGTCCGCAAGTACTGCGAGGATGAGAGTCGCACCTATCTGGGCATGTCCACACTTCGAGACCTGATCTT
CAAGCGCCCGTCCCGCCAGTTCCAGTACCTGCATGTCTCTCTCGACCTCAGCTCCCATGAGAAGGACAAGGTGCG
CTCCCAGGCCCTGCTGTTTCATCAAACGCATGTATGAGAAGGAGCAGCTGCGGGAGTATGTGGAGAAATTTGCCCT
CAACTACCTGCAGCTCCTGGTGCACCCCAACCCACCGTCTGTGCTGTTTGGAGCTGACAAGGACACAGAGGTGGC
AGCACCCCTGGACGGAGGAGACAGTGAAGCAGTGTCTGTACCTCTACCTGGCCCTCCTGCCTCAGAACCCACAAGCT
GATCCACGAACCTGGCGGCCGTGTACACTGAAGCCATCGCCGACATCAAGCGGACGGTGCTGAGGGTCAATTGAGCA
GCCGATCCGAGGAATGGGCATGAACTCCCCGGAGCTGCTCCTGCTGGTGGAAAATTGTCCCAAGGGAGCAGAGAC
ACTGGTCACGAGATGTCTGCACAGCCTCACAGACAAAGTCCCACCCCTCCCAGAGCTGGTGAAGCGGGTCCGGGA
TCTCTACCACAAGCGACTGCCAGACGTCCGCTTCCCTCATCCCGGTGCTCAATGGGCTGGAGAAGAAAGAGGTGAT
CCAGGCCCTGCCTAAACTCATCAAACCTCAACCCCATCGTGGTGAAGGAAGTCTTCAACCGCCTGCTGGGCACCCA
GCATGGTGAGGGAACCTCAGCCTTGTCCCCGCTGAACCCCTGGAGAGCTCCTGATCGCATTACACAACATTGACTC
CGTGAAGTGCAGCATGAAATCCATCATCAAAGCCACCAACCTGTGCTTTGCGGAGCGGAACGTGTACACGTCAGA
GGTGTGCGCCGTGGTGATGACAGCAGCTGATGGAGCAGAGCCCCCTGCCATGCTGCTCATGAGGACCGTCATCCA
GTCCCTGACCATGTACCCCGCCTGGGGGGCTTCGTATGAACATCCTGTCCCGCCTCATCATGAAGCAGGTGTG
GAAGTACCCCAAGGTGTGGGAGGGCTTCATCAAGTGCTGCCAGCGCACAAAGCCCCAGAGCTTCCAGGTCATCT
GCAGCTGCCGCCCCAGCAGCTGGGAGCCGTCTTTGACAAAGTGCCAGAGACTCCGGGAGCCCTGCTGGCCCCATGT
CCGCTCCTTACACCCCCACCAGCAAGCTCACATCCCTAACTCCATCATGACCATCTTGGAGGCCAGCGGCAAGCA
GGAGCCAGAGGCCAAGGAGGCGCCTGCGGGGCCCTTGGAGGAGGATGATCTGGAGCCCTGACCTTGGCCCCGGC
CCCAGCACCCCGGCCCCCTCAGGACCTCATCGGCCTGCGACTGGCCAGGAGAAGGCCTTAAAGCGGCAGCTGGA
GGAGGAACAGAAGCTGAAGCCGGGAGGAGTGGGAGCCCCCTCCTCTTCTCCCCCTCTCCCTCTCCGTGCGCCG

4383/5332
FIGURE 3813B

GCCAGGCCCGCCCCGTCTGAGGAAGCCATGGATTTCGGGAGGAGGGGCCTGAGTGCGAGACCCCGGGCATCTT
CATCAGCATGGATGACGACTCGGGGCTGACCGAGGCCGCGCTGTTGGACTCTAGTCTCGAGGGCCCCCTACCCAA
GGAGACGGCAGCGGGCGGGCTGACCTTGAAGGAGGAGCGGAGCCCCCAGACCCTCGCACCTGTTGGAGAAGATGC
TATGAAGACTCCCAGCCCGGCTGCCGAGGACGCCAGGGAACCCGAGGCCAAGGGGAACAGCTGACGGGGCTCGAG
GGGGAAGGGGTGGGACAGGGACTCGGGGCTGGGGGACGGGCGGGGCTTGACCTGCGGGTGCTTTGCCTTAAA
AAGAAATAAA

4384/5332
FIGURE 3814

GGAGACCGCTCTGCTTCAACTTGGGCCGTGAGCTCTATTCTACCCAGGCTGCTGTCGTCGTGGGAGCCAACGG
TCCATTGACCTCAACAAGCCAATTGACAAGCGGATCTACAAGGGCACCCAGCCACCTGCCACGATTTCAACCAG
TTCACTGCTGCCACCGAGACCATCTCGCTGCTGGTGGGCTTCTCAGCGGGTCAAGTGCAGTACCTGGATCTCATC
AAAAAGGACACCAGCAAGCTGTTCAATGAGGAGCGGTTGATCGACAAGACCAAGGTGACATATCTGAAGTGGCTG
CCTGAGTCGGAGAGCCTGTTCTTGGCATCACACGCCAGTGGCCACCTGTACCTGTACAACGTCAGCCACCCCTGC
GCCTCGGCCCCGCCCCAGTACAGCCTGCTGAAGCAGGGCGAGGGCTTCTCTGTCTATGCTGCCAAGAGCAAGGCA
CCCCGCAACCCGCTGGCCAAGTGGGCGGTGGGTGAGGGGCCCCCTCAACGAGTTCGCCTTCTCGCCCCGATGGCCGG
CACCTGGCCTGTGTGAGCCAGGATGGCTGCCTGCGCGTCTTCCACTTCGACTCCATGCTCTCGCTGGGCTCATG
AAGAGCTACTTTGGGGGCTGCTGTGTGTGTGTGTGCTGGAGCCCTGACGGCCGCTACGTGGTGACGGGTGGCGAAGAT
GACCTGGTGACCGTGTGGTCTTACCGAGGGCCGCGTGGTGGCTCGAGGCCATGGCCACAAGTCTGGGTCAAC
GCTGTGGCTTTGACCCCTACACCACAAGGGCAGAGGAGGCGCGACAGCAGCCGGTCTGATGGGGAGCGGAGC
GGCGAAGAGGAGGAGGAGGAGCCGAGGCTGCGGGCACAGGCTCGGCCGGGGGCGCCCCGCTCTCTCCACTGCCC
AAGGCTGGCTCCATTACTTACCGCTTTGGCTCGGCGGGCCAGGACACGCAGTTCTGCCTGTGGGACCTCACTGAA
GACGTGCTCTACCCGCACCCCCCTGGCCCGCACCCGCACCCCTCCCTGGCACACCTGGCACCAACGCCACCGGCC
GCCAGCAGCTCGAGGGGTGGCGAGCCTGGCCCAGCCCCCTGCCTCGCTCGCTGTCCCGCTCCAACAGTCTCCCG
CACCCAGCTGGCGGGGGCAAGGCGGGCGGGCCGGGTGTGGCGGCAGAGCCTGGCACACCATTACGATTGGCCGC
TTCGCCACGCTCACACTGCAGGAGCGGCGGGACCGGGGGGAGAGAAGGAGCACAAGCGCTACCACAGCCTGGGC
AACATCAGCCGGGGTGGCAGTGGCGGCAGTGGCAGTGGTGGGGAGAAGCCAGCGGCCCTGTTCCCCGAGCCGC
CTGGACCCCGCCAAGGTGCTGGGCACTGCGCTGTGCCCGCGCATCCACGAGGTGCCCTGCTGGAGCCCCCTGTG
TGCAAGAAGATCGCCAGGAGCGGCTCACAGTCTCTGTTCTTGGAGGACTGCATCATCTGCTGCCAGGAG
GGCCTCATCTGCACCTGGGCCCCGGCCGGGCAAGCGTTACAGACGAGGAGACCAGGCCCAGACAGGGGAAGGA
AGTTGGCCAGGTACCCAGCAAGTCAGTGGTAGAGGGCATCTCTCCCAACCAGGCAACTCCCCGAGTGGCACA
GTGGTTGAAGCCATGGATATCGGGCCCCCAACCCCATGCCCCAGCCTCCTAGCCATAACCCCTCCCTGCTGA
CCTCACAGATCAACGTATTAACAAGACTAACCATGATGGATGGACTGCTCCAGTCCCCCACCTGCACAAAATTT
GGGGGCCCCCAGACTGGCCCCGACACGGGCGATGTAATAGCCCTTGTGGCCTCAGCCTTGTCCCCACCCACTG
CCAAGTACAATGACCTCTTCTCTGAACATCAGTGTTACCCCTCATCCCTGTCCCAGCATGTGACTGGTCACTC
CTGGGGAGAGACTCCCCGCCCCCTGCCACAAGAGCCCCAGGTCTGCAGTGTGCCCCCTCAGTTGAGTGGGAGGGCC
GGGGGTGGTCCAGCCCTCGCCCCGGCCCCCACCCAGCTGCCCTTGCTATTGTCTGTGCTTTTGAAGAGTGTTAAA
TTATGGAAGCCCCCTCAGGTTCCCTCCCTGTCCCGCAGGACCTCTTATTTATACTAAAGTTCCCTGTTTTCTCAGCG
GGTCTGTCCCCCTTCGGAGGAGATGATGTAGAGGACCTGTGTGTGTACTCTGTGGTTCTAGGCAGTCCGCTTTCCC
CAGAGGAGGAGTGCAGGCCTGCTCCCAGCCCAGCGCCTCCCACCCCTTTTCATAGCAGGAAAAGCCGGAGCCCAG
GGAGGGAAACGGACCTGCGAGTCACACAACCTGGTGACCCACACCAGCGGCTGGAGCAGGACCCTCTTGGGGAGAAG
AGCATCCTGCCCCGAGCCAGGGCCCCCTCATCAAAGTCTCGGTGTTTTTTAAATTATCAGAACTGCCCAGGACCA
CGTTTCCAGGCCCTGCCAGCTGGGACTCCTCGGTCTTGCCTCCTAGTTTCTCAGSCCTGGCCCTCTCAAGGC
CCAGGCACCCCAGGCCGCTTGGAGGCCCGACTTCCACTCTGGAGAACCGTCCACCCTGGAAAGAAGAGCTCAGA
TTCTCTTGGCTCTCGGAGCCGCAGGGAGTGTGTCTCCCGCGCCACCCTCCACCCCCGAAATGTTTCTGTTTC
TAATCCCAGCCTGGGCAGGAATGTGGCTCCCCGGCCAGGGGCCAAGGAGCTATTTGGGGTCTCGTTTGGCCAGG
GAGGGCTTGGCTCCACCACTTTCTCCCCAGCCTTGGGCAGCAGGTACCCCTGTTCAAGGCTCTGAGGGTGCC
CCCTCCTGGTCTGTCTCACCAACCCCTTCCCCACCTCCTGGG

[illegible]

4386/5332
FIGURE 3816

CGGGAGTGAACGGAGAGCGTAGTGACCATCATGAGCCTCCTCAACAAGCCCAAGAGTGAGATGACCCCAGAGGAG
CTGCAGAAGCGAGAGGAGGAGGAATTTAACACCGGTCCACTCTCTGTGCTCACACAGTCAGTCAAGAACAATACC
CAAGTGCTCATCAACTGCCGCAACAATAAGAACTCCTGGGCCGCGTGAAGGCCTTCGATAGGCACTGCAACATG
GTGCTGGAGAACGTGAAGGAGATGTGGACTGAGGTACCCAAGAGTGGCAAGGGCAAGAAGAAGTCCAAGCCAGTC
AACAAAGACCGCTACATCTCCAAGATGTTCTGCGCGGGGACTCAGTCATCGTGGTCCTGCGGAACCCGCTCATC
GCCGGCAAGTAGGGGCCGCTGTCTGTTGACAGAACTCACTCCTCTGTCCTATGAAGACCGCTGCCATTGGTGT
GAGAATAATAAGCTCTGTGTTTTTTTCT

4387/5332
FIGURE 3817

GGCAGCGGTGGCAGGGGCTGCAGGAGCAAGTGACCAGGAGCAGGACTGGGGACAGGCCTGATCGCCCCTGCACGA
ACCAGACCCTTCGCCGCCCTCAGGATGACTACCTCTCCGATCCTGCAGCTGCTGCTGCGGCTCTCACTGTGCGGG
CTGCTGCTCCAGAGGGCGGAGACAGGCTCTAAGGGGCAGACGGCGGGGGAGCTGTACCAGCGCTGGGAACGGTAC
CGCAGGGAGTGCCAGGAGACCTTGCGAGCCGCGGAACCGCCTTCAGGCCTCGCCTGTAAACGGGTCTTTCGATATG
TACGTCTGCTGGGACTATGCTGCACCCAATGCCACTGCCCCGTGCGTCCTGCCCTGGTACCTGCCCTGGCACCAC
CATGTGGCTGCAGGTTTCGTCTCCGCCAGTGTGGCAGTGATGGCCAATGGGGACTTTGGAGAGACCATAACAA
TGTGAGAACCCAGAGAAGAATGAGGCCTTTCTGGACCAAAGGCTCATCTTGGAGCGGTTGCAGGTCATGTACACT
GTCGGCTACTCCCTGTCTCTCGCCACACTGCTGCTAGCCCTGCTCATCTTGAGTTTGTTTCAGGCGGCTACATTGC
ACTAGAACTATATCCACATCAACCTGTTACAGTCTTTTCATGCTGCGAGCTGCGGCCATTCTCAGCCGAGACCGT
CTGCTACCTCGACCTGGCCCCCTACCTTGGGGACCAGGCCCTTGCGCTGTGGAACCAGGCCCTCGCTGCCTGCCGC
ACGGCCAGATCGTGACCCAGTACTGCGTGGGTGCCAACTACACGTGGCTGCTGGTGGAGGGCGTCTACCTGCAC
AGTCTCCTGGTGCTCGTGGGAGGCTCCGAGGAGGCCACTTCCGCTACTACCTGCTCCTCGGCTGGGGGGCCCCC
GCGCTTTTCGTCAATCCCTGGGTGATCGTCAGGTACCTGTACGAGAACACGCAGTGCTGGGAGCGCAACGAAGTC
AAGGCCATTTGGTGGATTATACGGACCCCCATCCTCATGACCATCTTGATTAATTTCCCTCATTTTTATCCGCATT
CTTGGCATTCTCCTGTCCAAGCTGAGGACACGGCAAATGCGCTGCCGGGATTACCGGCTGAGGCTGGCTCGCTCC
ACGCTGACGCTGGTGCCCTGCTGGGTGTCCACGAGGTGGTGTGTTGCTCCCGTGACAGAGGAACAGGCCCGGGGC
GCCCTGCGCTTCGCCAAGCTCGGCTTTGAGATCTTCTCAGCTCCTTCCAGGGCTTCCTGGTCAGCGTCTCTAC
TGCTTCATCAACAAGGAGGTGCAGTCGGAGATCCGCCGTGGCTGGCACCCTGCCGCTGCGCCGAGCCTGGGC
GAGGAGCAACGCCAGCTCCCGAGCGCGCTTCCGGGCCCTGCCCTCCGGCTCCGGCCCGGGCGAGGTCCCCACC
AGCCGCGGCTTGCTCCTCGGGGACCCTCCAGGGCCTGGGAATGAGGCCAGCCGGGAGTTGGAAAGTTACTGCTAG

GGGGCGGGATCCCCGTGTCTGTTCACTTAGCATGGATTTATTGAGTGCCAACTGCGTGCCAGGCCAGTACGGAG
GACGCTGGGGAAATGCTGAAGGAAACAGAAAAAGGTCCCTGCCCTTCTGGAGATGACAACTGAGTGGGGAAAAC
AGACCGTGAACACAAAACATCAAGTTCCACACACGCTATGGAATGGTTATGAAGGAAGCGAGAAGGGGGCCTAG
GGTGGTCTGGGAGGCGTCTCCAAGGAGGTGACACTTAAGCCATCCCCGAAAGAGGTGAAAGAGATCACTTTGGGG
AGAGCTGGAGAACAGGATTCTAGGCGGAAGCGATAGCATAGGCAAAGGCCCTTGGGCAGGAAGGCGCTCAGCCTT
GGCTGGAGTAGAATTAAGTCAGAGCCAACAGGTGGGGAGAGACAGAGAAGTGGGCAGGGGCACCCAAGTTGGGAT
TTCATTTTCAGGTGCATTGGAGATTCTTAGGAGTGCTCTTGGGGTAATATTTTATTTTTTAAAAAATGAGGAT

4388/5332
FIGURE 3818

AGACCCAGGAAGGCGGGAGGGACCCCTTGGGCACTGGAGCTCCTGGGTGGCCCTGCAGCCGGCACTCCCCGTCT
TCCAGATGACAATTTGTCGGGCACGAGCGGTATGGAAGTGGACGACCGCGTGTGCGCGCTGGAGCAGCGGCTGCA
GTTACAGGAAGACGAGCTGGCGGTCTTAAAGGCGGCGCTGGCGGATGCTCTGCGTCGCCTGCGGGCATGCGAAGA
ACAGGGAGCGGCGCTACGCGCGCGGGGCACCCCAAGGGCCGGGCGCCTCCGCGCTTAGGCACCACTGCCTCGGG
TATCCCCGTTAGACTGGAGGGGTGGGATGGGGAGGACCGGGGCTTGGTCCTTATACTCACCCCTCTCTGTCCCCT
AACCCCATCCCTCCAGTGTGTGAGCTCTTGAAAGGCCCTTCCACAGGACGCCCCCTTAATGGCTCGGGACCCCG
CGGCGCGTGGGTGGCTATGCCACGTCCCCATCCTCTCCCAAGAAGGAGGCGACCTCCGGGCGCAGGTAAGGCACA
AGGCCGGGACCCCGAGCCTCTTCCAAGACCTCGTGGGAGACAGAGGTGGTTTGTGCTGAGCTCCAGCAGCAG
AGGGTGCAGGGAGAATCTCGCTTGCTCACGGCACTCGCCTGCTGGCCTAGAAGGCTCTGCCCCACCTGTGTGCT
CTCTTTTAGCAGTGTCCGCGCTACTTGTACCAGAGCGCCTCGCCTCGGTGCGCCGTGAGGACCCCGCAGCCG
GACCACATCCTCCAGCAGCAACTGTAGCGCCAAAAAGGAAGGGTAAGGACTGGGGCGGCGTCAAGCCGAGAAAG
AGATAGGGAGGAAATGGTCGAGAAATGTAGTCATGCCCCAGGCCACGAGGTGCTAACCTAGAGTGGGGCCAGCTA
GTTCAAAAGCGGGGACGGTGCCAGAGCCTTGGAGGGACCAATCTTGAGGTGGCACGGTAACAGTGGAAGGTCTGG
GAGGGCGGAGTCAATATTGAGGGGCGTGGCCAGAGTTTTTAGAAGCTGGACGGTCAGGTCTACTGGGTGAGGAAG
TCAGGGAGGAGCTTGGCTTATGGGCGTGGTTATTAAGGTACAGGAGAGGCCCCGTTGAGTTTCAGGGATGAAGTC
AAGGCAGCAGCCACAGAGTTTCTACAAGGAAAGAGGGAGTCTGAGGAATTTAAGGGTGCAGCCACAGTGTTCCGC
TGGGCGAAATTAATACTGGGGTACGGAGTAACAGAGGCTGAGACCAGGTGGAGGCATTCCAGATTCCAGAAGCT
TTGACATCAAAATCGGGGGGCACTGCCAGGTTGAAAAGGCGTGGCTTAAAGGTTGGGCGGGGCCGTAGGGGCGT
GGTCAAAATGCCAAGAGGTGCAGCCAACCTTGGAGGCCTCGAAGGTATTACATAAGGAATACGTGAAAATGGACGT
AATCAGAATGCCTGGCGGGCCGAGAAGGAGCGTTGGCGGGAGGTAGCAGTCAATTCTCAAGCAACTGAGTCAAC
TCAGGGACAGGGTTAGAAGGGAGGCTCAGAATGACAGGCGTGGTCAACTCCAGAGGCGGGGCCATACTGAAGATC
TGGACAGAGTCAAAAATAAGGCTATATAATTCTAGCAGTTTGGGAGGCGGAGGCGGGAATCATCGCTTGAGCTC
AGGAGTTCGAGACCAGGCTGGGCAAAATAGCGAGCCCTCGTCTTTACTAAAAATGAAAAATAATTAGGCCTGGCG
CGGTGGCTCACGCCTGTAATCCCAGCACTTCGGGAGGCCTAGGCGGGTGGATCACAAGGTCAAGAGATCGAGACC
ATCCTGGCCAACATGGTGAAACCCCTGTCTATTAATAATACAAAAATGGGCGTGGTGGCGCGTGCCTGTAGTCC
CAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTCAACCCGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGCGC
CACTGCACTCCAGCCTGCTGACAGAGCAAGACTCCGTTAAACAAACAAACAAAAACAAAAACA

4389/5332
FIGURE 3819

CCACCCCGGGCCCGAAGCTCCGCCACCCGCCGCCATGAGTAGCTTTGGAGCTGGCAAAACCAAAGAAGTTATCT
TCAGTGTGGAGGATGGCTCCGTGAAAATGTTCTGAGGGGCCGCCCTGTGCCCATGATGATCCAGACGAGCTGG
CACCCACCTACAGCCTGGACACACGCTCGGAGCTGCCTTCTTGCCGGCTCAAGCTGGAGTGGGTCTATGGCTACC
GTGGCCGAGACTGCCGGGCCAACCTTTATTTGCTGCCCACCGGGGAGATAGTGTACTTTGTGGCCTCCGTAGCCG
TGCTATACAGCGTGGAGGAGCAGAGGCAGCGACACTACCTGGGACACAACGATGACATCAAATGCTTGGCCATCC
ACCCAGATATGGTCAACATCGCCACGGGACAGGTGGCGGGAACCACTAAGGAAGGGAAGCCGCTGCCGCCCCACG
TGCGCATCTGGGACTCAGTTTCCCTCTCCACCTTACACGTGCTGGGCTTGGGGGTGTTTGACAGAGCCGTGTGCT
GTGTGGGCTTCTCAAATCTAATGGAGGCAACCTGCTGTGTGAGTGGATGAATCCAATGATCACATGCTCTCGG
TGTGGGACTGGGCCAAGGAGACCAAGGTGGTGGATGTCAAGTGTCCAATGAGGCTGTATTGGTGGCCACCTTCC
ACCCACGGACCCCACTGTGCTTATCACCTGCGGGAAATCTCACATCTACTTCTGGACCTTGGAGGGGGGACGCT
TGAGCAAGCGGCAAGGCCTCTTTGAGAAACATGAGAAACCGAAGTATGTGCTGTGTGTGACCTTTTGAAGGTG
GCGACGTGGTCACGGGGGACTCTGGGGGGAACCTCTATGTTTGGGGCAAAGGTGGGAACCGTATCACACAGGCGG
TGCTGGGCGCCCCACGACGGCGGCGTGTTTGGGCTCTGCGCCCTGCGGGACGGGACGCTGGTGTCTGGAGGGGGCC
GTGATCGGCGGGTGGTCTCTGCGGTTCTGACTACAGCAAGCTGCAGGAAGTGGAGGTCCCTGAGGACTTTGGCC
CTGTGCGCACCGTGGCAGAGGGCCACGGAGACACACTGTACGTGGGGACCACCCGCAATTCCATCCTGCAGGGCT
CCGTGCACACAGGCTTCTCACTGCTGGTCCAGGGCCATGTGGAAGAGCTGTGGGGCTGGCCACACACCCCACTC
GGGCCCAGTTTGTGACCTGCGGGCAGGATAAGCTGGTGCATCTATGGAGCTCAGATTCCACCAGCCCCCTGTGGA
GCAGGATCATCGAGGACCCTGCCGCTCAGCCGGCTTCCACCCCACTGGCTCTGTCTGGCTGTGGGTACAGTGA
CTGGCAGATGGCTGCTGCTGGACACGGAGACCCATGACCTGGTGGCTATCCACACAGACGGCAATGAACAGATCT
CAGTGGTCAGCTTCTCCCCAGACGGGGCGTACCTGGCCGTGGGCTCCCACGACAACCTTGGTGTACGTGTACACGG
TGACACAGGGCGGGCCGAAGGTACGCCCTGGGCAAGTGCTCGGGCCATTCCAGTTTATCACCCACCTGGATT
GGGCCCAGGACAGCAGCTGCTTTGTCAACCAACTCCGGGGGACTATGAGATTCTGTACTGGGACCCGGCTACCTGTA
AGCAGATCACCAAGTGCAGGATGCTGTGAGGAACATGGAATGGGCCACAGCTACTTGTGTCTAGGGTTTGGGGTGT
TTGGGATCTGGTCTGAGGGGGCGGACGGCACTGATATCAACGCTGTGGCCCGCTCTCATGATGGGAAGTTGCTGG
CTTCAGCTGATGACTTTGGCAAAGTTCACCTGTTTAGCTACCCCTGCTGTGTCAGCCTCGAGCCCTCAGCCACAAGT
ACGGTGGACACAGCAGCCATGTGACAAATGTGGCCTTCTTGTGGGATGACAGCATGGCCCTGACCACAGGGGGCA
AGGACACCAGTGTGCTACAGTGGCGGGTGGTCTGATGCGGCCAGGGAAGAGTCAGGTGTCAGGGCAGGAATTCTA
TTTTCGGGAGATGTCTATTGCCGAGTAGAGTAATATATACCCAGAGTATGTCTATAGCAGAGGGGGTTATGGGGG
CGGGAGGGTAGACTGACATACAGAAGTCTCTATTTATCCGGGTGGGAAGAGGGAGTCACATCGCTTTGGGGATCC
ATTGGTGTGTTGGTTTGGGGTGTTTTTTAAGTTTTTCTTTTATATCATCCAGAAATAAAGACACGTACACT

4390/5332
FIGURE 3820

GTTGAGGCGCCCCGCCAGTCAGCAAGGTTGCGCGTGCCCTGTGAGACCGCCAAGATGGTGGTGGGCGCGTTCCC
TATGGCGAAGCTGCTATACTTGGGCATCCGGCAGGTCAGCAAGCCGCTTGCCAACCGTATTAAGGAGGCCGCCCC
CCGAAGCGAGTTCTTCAAGACCTATATCTGCCTCCCGCCGGCTCAACTGTATCACTGGGTGGAGATGCGGACCAA
GATGCGCATCATGGGCTTCCGGGGCACGGTCATCAAGCCGCTGAACGAGGAGGCGGCAGCTGAGCTGGGCGCAGA
GCTGCTGGGCGAAGCCACCATCTTCATCGTGGGCGGCGGCTGCCTAGTGCTGGAGTACTGGCGCCACCAGGCGCA
GCAGCGCCACAAGGAGGAGGAGCAGCGTGCTGCCTGGAACGCGCTGCGGGACGAGGTGGGCCACCTGGCGCTGGC
GCTGGAAGCGCTGCAGGCGCAGGTGCAGGCGGCGCCGCCACAGGGCGCCCTGGAGGAACTGCGCACAGAGCTGCA
AGAGGTGCGCGCCAGCTCTGCAATCCCGGCCGGTCCGCTTCCCACGCAGTGCTGCGTCCAAGAAAATAGGAGCT
TGCTGGATGGAACCTGAATTTGGACATGGCCTATGTACCTAACGTGGCCTTCTTCCCGCACCACCCTTGCTGCG
CTGGCCCAGTGGAACCACCAGGATCTTGATGCAACTTGGCATTGTTACCCCTGCTGATAAGAGCAGCCGTTA
CCTGCCACTGGGACCAGCAGGTGAAGCGTTGCAACATAGCCCCCTCCATCATCCTTCACCTCCTATCCCCACTC
CAAACCAGGACGACCTGCAAGGTCCCAGCCAGCAGGACACCGTGGGCACTCTGGCAAATGAAAAAATGGAACCTG
GTCTTGAGCTGAATCAATGTGTTATTGTTACCCCCACCCCGGTTTACCTGATCAGTGTTAACCTTTACTGGGAC
ACTCATCTGTTACACTGGAACACCTTCTTCTTTTGTCAATCGGCACAGACCACTGTAAGGAAATGCAGTGTGTT
GCAGTGGCCTTTTCTCCCCCTCACCTTCTAAGGTCAGCTCTAGCTGAGCATCAGTGCTCTCTTAAGGAGGAAAA
AACGGTGCGGCTGGGAGCGGTGGCTCACGCCTGTAATCCTAGCACCTTGGGAGGCCGAGGCGGGCGGATCACTTG
AGGTCAGGAGTTCCAGACCAGCCTGGCCAACATGGTGAAACTCCGTCTCTACTAAAAATACAAAAATTAGCCGGG
TGTGGTGGGGTGCGCTTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCATGAGGTGGA
GGTTGCGGTGAGCCAAGATGGCACCATTGCACCCTAGCCTGGGCAACAGAGCAAGACACCGTCTTAAACCAAAA
GTTAACCGGGCGTGGTGGTGGGTGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTT
GGGAGGTGGAGGCCAAGATTGTACCACTGTATTCCAGCCCGGCTGACAGAGCAAGACTGTGTCTC

4391/5332
FIGURE 3821

GTGCCCTGTGAGACCGCCAAGATGGTGGTGGGCGCGTTCCTATGGCGAAGCTGCTATACTTGGGCATCCGGCAG
GTCAGCAAGCCGCTTGCCAACCGTATTAAGGAGGCCGCGCCGAAGCGAGTTCTTCAAGACCTATATCTGCCTC
CCGCCGGCTCAACTGTACCACTGGCTGGAGATGCGGACCAAAATGCGCATCATGGGTTTCAATGCCGCTGCCATC
AAGCCGCTGAACGAGGGTGCAGCCGCCGAGCTGGGCGCGGAGCTGCTGGGCGAGGGCATCATCTTCATCACCGCC
TGCAGCTGCCTGATGCTGGAGTATTGGCGCCACCAGTTGCAGCAGCGCCGCAAGGAAAAGGAGCGACGTGTTGCC
AGGGAGGCGCTGCGGGGCGAGGTGGGCCACTTGGGGCTGGCGCTCGAGGAGTTGCAGGCGCAGGTGCAGGCGACG
TCGACGCAGCTCGCCCTGGAGGAGCTGCGCGCTCAGCTGCAGGAGGTGCGAGCCACCTCTGCCTCCGAGACCCG
CCGCCTGCACCCCAAGTTGCGCCGGCGTCCGAGAAATAGGAGGTCTCGGGGCCCTGGTCTTGGAGGTGACTGCTG
TCTGGACTGCGAAGTCTCTGTCTTGGCCTATTCTCCGCACTGTCCCATCCTGGACCGGCCAGCTGACACCACCC
AGTCCTTCGGGGGCGCCGGAGAGATCCTGG

4392/5332
FIGURE 3822

GCATCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCC
GGTCCACATTCTCCCCAGGAAGCCGGACTCTATGGGGCGGGACCTGGGGGAGCCTGAGCCGAGCCCGGAGCCAG
CCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCGTGGGCGAGCCGCCCCGCCCCGAG
CAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTTATGATGATGGCAACAAGCGATGGC
TCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCGTCCAGATCTACCACAACCCACGGCCAATTCTTTTCGCG
TCGTGGGCGCGAAGATGCAGCCCGACAGCAGGTGGTCATCAACTGTGCCATCGTCCGGGGTGTCAAGTATAACC
AGGCCACCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCCTCAACTTCGGCAGCAAGGAGGATG
CGGCCCAGTTTGGCCGCGGCATGGCCAGTGCCCTAGAGGCGTTTGAAGGAGGTGGGCCCCCTCCACCCCAAGCAC
TTCCACCTGGTTCGGTCCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGCAGAAAAGGCAGCAGCCCGGCCGT
CGGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCACCTGCTCCCCCGCTGGGGGTCCACCCCAACCAC
CAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCAAGGTTTGGCCCCCTCGGGGGTCCAGCTGCAGCGCAG
GAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGGCAGCACAGGGCCCTGGTGGTGGGGGAGCTGGGGCCC
CAGGCCTGGCCGCAGCTATTGCTGGAGCCAAACTCAGGAAAGTCAGCAAGCAGGAGGAGGCCTCAGGGGGGCCCA
CAGCCCCCAAAGCTGAGAGTGGTCTGAAGCGGAGGTGGGGGACTCATGGAAGAGATGAACGCCATGCTGGCCCCGA
GAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCAAGGATGAATCTGCCAATCAGGAGGAGCCAGAGGCCAGAG
TCCCGGCCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAACCTTGCCAAGGATGAAGTCGTCTT
CTTCGGTGACCACTTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATTACTCGGACCTACAGAGGGTGAAC
AGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAATCATTGAAGCCTTCGTCCAGGAGC
TGAGGAAGCGGGGTCTCCCCGACACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCACACCCGGCCTGTCAC
CCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATC
CCACTTGGAACCTCCAAGGGGGTGTGGCTTCCCTGCTCACACCCCACTGGCTGCTGATTGGCTGGGGAGGCCC
CCGCCCTTTTCTCCCTTTGGTCTTCCCTCTGCCATCCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAAT
GAACCCCAACAGGAAGGGGGAAGGAAGGAGGGAATTTACATTCCCTTGTCTAGATTCACTTTAACGCTTAATGC
CTTCAAAGTTTTGGTTTTTTTAAAGAAAAAAATATATATATATTTGGGTTTTGGGGGAAAAGGGAATTTTTT
TTCTCTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCTGGGCTTGCCCCATTGGGGCA
GCTATTTAAGGGGAGGGGATGTCTACCGGGCTGGGGGTGAGATATCCCCCAACCCAGGGACTCCCCTTCCCTC
TGGCTCCTTCCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACTCAGTTTTTTGATTTTTTATTT
GGGTAGGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATGAGGGAGAAAGGAGAAGGGGAG
GAAACTTCTCCCCTCCCACCTTCACCTTTAGCTTCTTGAAAATGGGCCCCCTGCAGAATAAATCTGCCAGTTTTTA
T

4393/5332
FIGURE 3823

CGAGCCGAGCACCAGGGCGGCGGGCGGGCGGGCGGGCGGGCGGGCTGGAGCAGCCCGGGAGGAGGAGGCGGC
GAGAATGGCAGCGGCGTCTGTGGGCGGGCGGAGATGAGCGCCCGCGACCCCGGGGCCAGGGCGGCACAGCCGGAG
TGGGCGGGGGTCCCGATGCAGGCCCGAGGGGGGCCATCGGGCAGGTCTTGCCGGTCTTCGCCCACTGCAAAGAAG
CTCCGTCTACAGCCTCTCAACTCCTGATTCCACAGAAGGAGGGAACGACGACTCTGATTTTCGAGAGCTGCACA
CAGCCCGGGAATTCTCAGAGGAGGACGAGGAGGAGACCACGTGCGAGGACTGGGGCACCCCCCGGGAGCTGACCT
TCTCCTACATCGCCTTTGATGGTGTAGTGGGCTCCGGGGGCGCGAGGGATTCAACTGCCCCGCCGCCCGCCCCC
AGGGCCGCTCAGTCTCGGAACCACGAGACCAGCACCTCAGCCAGCCTGGGCGACAGCTTGGAGAGCATCCCCA
GCCTGAGCCAATCCCCGAGCCTGGACGACGGGGTGATCCTGACACCGCGCCTCCATCCGAGCGCCCTCTGGAAG
ACCTGAGGCTTCGGTTGGACCATCTGGGCTGGGTGGCCCGGGGAACGGGATCCGGGGAGGACTCTTCCACCAGCA
GCTCCACCCCGCTGGAAGACGAAGAACCCCAAGAACCCAACAGATTGGAGACAGGAGAAGCTGGGGGAAGAAGTGG
ACCTACGACTCCGACTTGCTCAGCCCTCATCGCCGAGGTCTTGACTCCCAGCTCAGTCCGGGCTCTGGGACAC
CCCAGGCCGGTACTCCGTCCCCATCCCGATCGCGAGATTGGAACCTCTGGGCCCCGAAGAGCCATTGCTGGAAGAGG
AAGAAAAGCAGTGGGGGCCACTGGAGCGAGAGCCAGTAAGGGGACAGTGCTCGATAGCACGGACCAATTAGAAT
TCACGGTGGAGCCACGCCCTTCTAGGAACAGCTATGGAATGGTTAAAGACATCATTGCTTTTGGCTGTTTACAAGA
CGGTTCCAATTTTGAATTGTCCCCACCTCTGTGGACAGCCATTGGCTGGGTCCAAAGGGGCCCCACCCCCCTA
CTCCTGTCTCTCCGGTTTCTACTGAAGTGGGCAAAATCCCCGAGAAGCAGCGGTGTCCCCAGCCTCTCACTCGGAG
CCGATATGGGGAGTAAAGTGGCGGACCTGCTGTACTGGAAGGACACGAGGACGTGAGGAGTGGTCTTACAGGCC
TGATGGTCTCCCTCCTCTGCCTCCTGCACTTTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCTGCTCT
GCGGCACCATCTCTCTCAGGGTTTACCGCAAAGTGTGTCAGGCCGTGCACCGGGGGGATGGAGCCAACCTTTCC
AGGCCTACCTGGATGTGGACCTCACCTGACTCGGGAGCAGACGGGAACGTTTGTCCCACCAGATCACCTCCCGCG
TGGTCTCGGGCGGCCACGCAGCTGCGGCACCTTCTTCTGGTAGAAGACCTCGTGGATTCCCTCAAGCTGGCCCTCC
TCTTCTACATCTTGACCTTCGTGGGTGCCATCTTCAATGGTTTGACTCTTCTCATTCTGGGAGTGATTGGTCTAT
TCACCATCCCCCTGCTGTACCGGCAGCACCAGGCTCAGATCGACCAATATGTGGGGTTGGTGACCAATCAGTTGA
GCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGACCGGAGCCCTGGCCTCTGCAGCAGCCGCAGTCTCCG
GATCCAAAGCCAAAGCCGAATGAGAACGGTGTCTCTGCCCGCAGGACGCCTGCCCCCAGCCCCCGCAGCCCTCTG
GCCCCCTCCATCTCTGTCCGTTCCCACCCACCCCCCTCCTCGGCCCGAGCCTTTTCCCGGTGGGTGTCAGGATC
ACTCCCCTAGGGACTCTGCGCTAATTACCTGAGCGACCAGGACTACATTTCCCAAGAGGCTCTGCTCCAGGAGT
CCAGGAAAGACGAGGCACCTTGCCCGCGGGGCTGCTGGGACTTGTAGTTGCCTAGACAGGACACCACCTGCAC
TTCCGGACCCGCGCTGGAGGCGCCGTGAGGCGTTGGTGTCTCCTGGATGCTACTAGCCCCAACGCCGGGGCTTT
GCATGGGGCCCAGGGGAGGCCTGAGCTTGGATTTACACTGTAATAAAGACTCCTGTTGAAAACCCGAGGCCTCT
TGTGCTTCCAGAACCCTCCAGTTGTTACCTTTCTGCACCTGAAAGGCACTTAAGTGACACTCCAGGAGAACCTTC
CCCATCTCTGGAGAAGGAGCTCCCTCTGCCATCTGTGTAGGTTATGAAATGATTGAGGGGAGGCCGGGCGCAGTG
GCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGAGGGCGGATCACTTGAGACCAGAAGTTCAAGACCAGC
CTGGCCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAATTTAGCCGGGTGTGGTGGTGCATGCCTGTAAT
CACAGCTACTCGGGAGGCTGAGGCATGAGAGTCGCTTGAATCTGGGAGATGGAGGTTGTAGTGAGCCAAGATTGC
GCCACTGCACTCCAGCCTCGGCGACAGAGCGAGATTCTGTCTCAAAAAAAAAAAAAAGAAAGAAATGATTGAGGG
GAAGATGCTGACAGACCACCCATTCCAGGGTTAGCCAAGCCTTGGCAGCCACTTCCCATGCCTGTGCTCAAGGCA
GACATCACTAATGGATCCACACCCCTGCCTACTGTGCAGCCACCTCAACTGAGCCCAAACCCACGTGTCCAACGG
CCTCTGGATGCCCTTCCACCCTAAATCTAACCAA

4394/5332
FIGURE 3824A

CATT CATAAGACTCAGAGCTACGGCCACGGCAGGGACACGCGGAACCAAGACTTGGAAACTTGATTGTTGTGGTT
CTTCTTGGGGGTTATGAAATTTTATTAAATCTTTTTTTTTTCCGGGGAGAAAGTTTTTGGAAAGATTCTTCCAGATA
TTTCTTCATTTTCTTTTGGAGGACCGACTTACTTTTTTTTGGTCTTCTTTATTACTCCCTCCCCCGTGGGACCC
GCCGGACGCGTGGAGGAGACCGTAGCTGAAGCTGATTCTGTACAGCGGGACAGCGCTTTCTGCCCTGGGGGAGC
AACCCCTCCCTCGCCCTGGGTCTACGGAGCCTGCACTTTCAAGAGGTACAGCGGCATCCTGTGGGGGCCTGGG
CACCGCAGGAAGACTGCACAGAACTTTGCCATTGTTGGAACGGGACGTTGCTCCTTCCCCGAGCTTCCCCGGAC
AGCGTACTTTGAGGACTCGCTCAGCTCACCGGGGACTCCCACGGCTCACCCCGGACTTGACCTTACTTCCCCAA
CCCGGCCATAGCCTTGCTTCCCGGGCAGCTCAGCGTGGTCACAGGGGCCCCCTGTGCCAGGGAATGTTTCA
GGCTTCCCCGAGACTACGACTCCGGCTCCCGGTGCAGCTCCTACCCCTCTGCCGAGTCTCAATATCTGTCTTC
GGTGGACTCCTTCGGCAGTCCACCCACCGCCGCCGCTCCAGGAGTGCGCCGGTCTCGGGGAAATGCCCGTTC
CTTCGTGCCACGGTCACCGCGATCACAACCAGCCAGGACCTCCAGTGGCTGTGCAACCCACCCTCATCTCTTC
CATGGCCAGTCCCAGGGGCAGCCACTGGCCTCCAGCCCCGGTCTGTGACCCCTACGACATGCCGGGAACAG
CTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGGAGCGAGTGGCAGTGGTGGGCCTTCCACCAGCGGAAC
TACCAGTGGGGCTGGGGCTGCCCGCCAGCCCGAGCCCGGCTAGGAGACCCCGAGAGGAGACGCTCACCCAGA
GGAAGAGGAGAAGCGAAGGGTGCGCCGGGAACGAAATAAATAGCAGCAGCTAAATGCAGGAACCGCGGAGGGGA
GCTGACCGACCGACTCCAGGCGGAGACAGATCAGTTGGAGGAAGAAAAGCAGAGCTGGAGTGGAGATCGCCGA
GCTCCAAAAGGAGAAGGAACGTCTGGAGTTTGTGCTGGTGGCCACAAACCGGGCTGCAAGATCCCTACGAAGA
GGGGCCCGGGCCGGGCGCTGGCGGAGGTGAGAGATTGCCGGGCTCAGCACCGGCTAAGGAAGATGGCTTCAG
CTGGCTGTGCGCCCCCGCCACCACCGCCCTGCCCTTCCAGACCAGCCAAGACGCACCCCCAACCTGACGGC
TTCTCTCTTACACACAGTGAAGTTCAAGTCTCGGCGACCCCTTCCCCGTTGTTAACCTTCGTACACTTCTTC
GTTGTCTCTACCTGCCCGGAGGTCTCCGCTTCGCCGCGCCCAACGCACCAGCGGCAGTGACCAGCCTTCCGA
TCCCTGAACTCGCCCTCCCTCCTCGCTCTGTGAACTCTTTAGACACACAAAACAAACAAACACATGGGGGAGAG
AGACTTGGAAGAGGAGGAGGAGGAGGAGAAGGAGGAGAGAGAGGGGAAGAGACAAAGTGGGTGTGTGGCCTCCCT
GGCTCCTCCGTCTGACCTCTGCGGCCACTGCGCCACTGCCATCGGACAGGAGGATTCTTGTGTTTTGTCTGTC
CTCTGTTTCTGTGCCCCGGCGAGGCCGAGAGCTGGTGACTTTGGGGACAGGGGGTGGGAAGGGGATGGACACC
CCCAGCTGACTGTTGGCTCTCTGACGTCAACCAAGCTCTGGGGATGGGTGGGAGGGGGCGGGTGAACCCAC
CTTCGGGCACTCCTGTGTGAGGATTAAGGGACGGGGTGGGAGGTAGGCTGTGGGTGGGCTGGAGTCTCTCCA
GAGAGCTCAACAAGGAAATAATGCCACTCCCTACCAATGTCTCCACACCCACCCTTTTTTGGGGTGCCTAGG
TTGGTTTCCCTGCACTCCCGACCTTAGCTTATGATCCACATTTCCATGGTGTGATCCTCTTACTCTGGG
CAGAAGTGAGCCCCCCCCCTTAAAGGGAATTGATGCCCCCTAGAATAATCTCATCCCCCACCAGCTTCTTTT
GAAATGTGAACGTCTTCTTCTGACTGTCTAGCTACTCCCTCCAGAAAACCTGGCTCTGATTGGAATTTCTGGCC
TCCTAAGGCTCCCCACCCGAAATCAGCCCCAGCCTTGTCTGATGACAGTGTATCCCAAGACCCTGCCCCC
TGCCAGCCGACCCTCCTGGCCTTCTCGTGGGCCGCTCTGATTTAGGCAGCAGGGGCTGTGTGATGCCGTCC
TGCTGGAGTGATTTATACTGTGAAATGAGTTGGCCAGATTGTGGGGTGCAGCTGGGTGGGGCAGCACACCTCTGG
GGGGATAATGTCCCCACTCCCGAAAGCCTTTCCTCGGTCTCCCTTCCGTCCATCCCCCTTCTTCTCCCTCAAC
AGTGAGTTAGACTCAAGGGGGTGACAGAACCAGAGAAGGGGGTGACAGTCTCCATCCACGTGGCCTCTCTCTCTC
TCCTCAGGACCCTCAGCCCTGGCCTTTTTCTTAAAGGTCCCCGACCAATCCCCAGCCTAGGACGCCAATTCTC
CCACCCCTTGGCCCTCACATCCTCTCCAGGAAGGGAGTGAGGGGCTGTGACATTTTTCCGGAGAAGATTTGAGA
GCTGAGGCTTTGGTACCCCAAAACCCCAATATTTTTGGACTGGCAGACTCAAGGGGCTGGAATCTCATGATTCC
ATGCCCGAGTCCGCCATCCTGACCATGGTTTTGGCTCTCCACCCCGCGTTCCCTGCGCTTCATCTCATGAG
GATTTCTTTATGAGGCAAATTTATATTTTTTAATATCGGGGGTGGACCACGCCGCCCTCCATCCGTGCTGCATG
AAAAACATTCCACGTGCCCTTGTGCGCGTCTCCCATCCTGATCCAGACCCATTCTTAGCTATTTATCCCTT
TCCTGGTTTTCCGAAAGGCAATTATATCTATTATGTATAAGTAAATATATTATATATGGATGTGTGTGTGTGCGTG
CGCGTGAGTGTGTGAGCGCTTCTGCAGCCTCGGCCTAGGTACAGTTGGCCCTCAAAGCGAGCCGTTGAATTGGAA
ACTGCTTCTAGAACTCTGGCTCAGCCTGTCTCGGGCTGACCTTTTTCTGATCGTCTCGGCCCTCTGATTGTTT
CCGATGGTCTCTCTCCCTCTGTCTTTTCTCTCCGCTGTGTCCATCTGACCGTTTTCACTTGTCTCTCTTCTGA
CTGTCCCTGCCAATGCTCCAGCTGTCTGTGACTCTGGGTTCGTTGGGGACATGAGATTTATTTTTTGTGAGTG
AGACTGAGGGATCGTAGATTTTTACAATCTGTATCTTTGACAATTCTGGGTGCGAGTGTGAGAGTGTGAGCAGGG

4395/5332
FIGURE 3824B

CTTGCTCCTGCCAACCACAATTCAATGAATCCCCGACCCCCCTACCCCATGCTGTACTTGIGGTTCTCTTTTGT
ATTTTGCATCTGACCCCGGGGGGCTGGGACAGATTGGCAATGGGCCGTCCCCTCTCCCCTTGATTCTGCACTGTT
GCCAATAAAAAGCTCTTAAAAACGC

4396/5332
FIGURE 3825

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCCTGTGGACACCTCGGC
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAATGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCTTGCGGGTCTGCTTGTCCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAGCCCGGAGGCTGTTTGATGTCCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCAGCTGCC
AAGGAAACCCCCAGTGTAATAATAAATCGTCCTCCCAGGCCAGGCTC

AAGTTCTGAACTTGTGAGGCATCTGGGCTCCCCAGAAGACATTTAACACAGAAAGCACAGCCCTACTAAGTAGT
 ATTCTTACCTGTCTCTTCAAGAATTTAGACCAATCGACCGTCTGTCTCTTTAAGGCTTAGGAAGAGCAGTGTG
 GCTGCCCCCTTTAAGGAGGCGTTGCAACAAACCATATTGGACAGACGATGGGGCGACCCATCGGGACCCGACGGG
 CCTCTGACTCCAGCAATACAGCGAATCAGCGGCTTTTCGGGAATACATTTTTTCGGAAAAAGACTTCTTCTCGGTT
 TTCTGCTCTGCACACGTTGAAATTTTTCCCAGTTTTTCTGTCAGATCGGGAGTCGAGCAATGCCTACCCCCGCGC
 TCCCGCACCAGTTGGGCGCTCCCGGATGATGCCCTACCCCTTTGGATCCACGTGGTCTGCAACCTGGTGCAGCA
 GCGCGGGCTACAGGGTTGCCTGAGGTGTGGGTCCAGGATGGAGAGCCCCAGGCCGGCGATGCTGCTCGGTTCT
 CTTGTCCCCCAACTTTACCGGAAGCCCCCAGCCTCAGAGTCCCTCGTTTTCTCTTGGAGGCGCTGACGGGT
 CAGATACGGAGCTGTGGCTTATTCAGGCCCCCTGCAGACTTTGCCCCAGAATGCTTCAATGGGCGGCATGTGCCT
 TCTCTGGCTCCCAGATCGTCAAGGGCAAATTGGCAGGCAAGCGGCACCCTATCGAGTCTCAGCAGCTGTCCCC
 AAGCTGGAGAAGCGACCTGCTGGCCCCCTCAACGGAGGCAGGAGGTGGACTACCTGTGCCTCAGCCCCCAGG
 GCACCTTAAGGATCCTTGAGGGTCCCCAGCAATCCCTGTGAGGGAGCCCTCTGCAGCCCATCCAGCAAGTCCCC
 CACCACAGATCCCTCCTGGCCTGAGGCCTCGGTTCTGTGCCTTTGGGGGAACCCACCAGTCACAGGGCCTAGGT
 CAGCCTTGCCCCCAACCTGCTCACCTCAGGGAAGAAGAAAAAGGAGATGCAGGTGACAGAGGCCCCAGTCACTC
 AGGAGGCAGTGAATGGGCACGGGGCCCTGGAGGTGGACATGGCTTTGGGGTCGCCAGAAATGGATGTGCGGAAGA
 AGAAGAAGAAAAAAATCAGCAGCTGAAAGAACAGAGGCAGCAGGGCCTGTGGGGACAGAGCCCACAGTGGAGA
 CACTGGAGCCTCTGGGAGTGCTGTTCCCGTCCACCACCAAGAAGAGGAAGAAGCCCAAAGGGAAAGAAACCTTCG
 AGCCAGAAGACAAGACAGTGAAGCAGGAACAGATTAACTGAGCCTCTAGAAGACACAGTCTGTCCCCGACCA
 AAAAGAGAAAAGAGGCAAAAGGGGACGGAAGGGATGGAGCCAGAGGAGGGGTGACAGTTGAGTCTCAGCCACAG
 TGAAGGTGGAGCCACTGGAGGAAGCCATCCCTCTGCCCCCTACGAAGAAGAGGAAAAAAGAAAAGGGACAGATGG
 CAATGATGGAGCCAGGGACGGAGGCGATGGAGCCAGTGGAGCCGGAGATGAAGCCTCTGGAGTCCCCAGGGGGGA
 CCATGGCGCCTCAACAGCCAGAAGGAGCGAAGCCTCAGGCCCAGGCAGCTCTGGCAGCTCCCCAAAAGAAGACGA
 AGAAAGAAAAACAGCAAGATGCCACAGTGGAGCCAGAGACAGAGGTGGTGGGGCCTGAGCTGCCGGATGACCTTG
 AGCCTCAGGCAGCTCCACATCCACCAAGAAGAAGAAGAAGAAGAGAGAGGTACACACAGTGAAGTGAAGCAA
 TTCAGCCACTAGAGCCTGAACTGCCAGGGGAGGGACAGCCTGAAGCCAGGGCAACTCCGGGATCCACCAAGAAGA
 GGAAGAAGCAGAGTCAGGAAAGCCGGATGCCAGAGACAGTGCCCCAAGAGGAGATGCCAGGGCCGCCACTGAATT
 CAGAGTCTGGGGAGGAGGCTCCACAGGCCGGGACAAGAAGCGGAAGCAGCAGCAGCAGCAGCCTGTGTAGTCTG
 CCCCCGGGAAACTGAGGAATAAAGAAAGCTGAAGGTGCCACCTGGGCCACCAGAAGGTGACACCCCCAGAATC
 CCTCCCCAGAGACTGCACCAGCGCAGCCAGCAGGAGCCTGGCCTGGGAGGACGATTTATTATTACTGGGGGTT
 TCCTTGGCAGCTGGGGTCATCAGGGTACTTTCAAGAAGGGCTCGTGCAGGACATCAAACAGCCTCCGGGCCCTGGA
 TGGGAGGGAGAAAAAATGAGGAACCAGTCATTAAAGGAGCTGTTTCTGGGTAAATCTAGAGTGGGGTTTTGGT
 TCTTTATTTTCCCTATACCTCAAGCATTTATCCATTGAGTTACAAACAATCCAGTTACAATCTTTTAAAGTTA
 TTATTATTATTATTATTTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTGCGCCAGGTTGGAGTGCAGTGGCGCA
 ATCTCGGCTCACTGCAAGCTCCGCCTCCGGGTTACGCCATTCTCTGCCTCAGCCTCCTGAGTAGCTGGGACT
 ACAGGCCCTGCCCAGCTAATTTTTTTGTATTTTTTTTTTAGTAGAGATGGGGTTTACCACGTTAGCCAGGATGGT
 CTCGATCTCTGACCTCCTGATGCGCTCGCTCAGCCTCCAGTGCTGGGATTATAGGTGTGAGCCACTGCGCCT
 GGCTAAGTTATTATTATTTTTTTTGGAGACAGTCTCCTGGTGTACCCAGGCTGGAGTGCAGTGGGTGTATCTTGGC
 TCACTGCAACCTCCGCCTCCTGGGTTCCAACGATTCTCTGCTCAGCCTCCCGAGTGTAGCTGGGCTAAAGGTGC
 CCACCATAATACCCGGCTAATTTTTGTATTTTTTAGTAGAGACAGGGGTTTACCATATTGGCCAGGCTGGTCTCG
 AACTCTGACCTCGTGATCCACCTGCCTTGACCTCCCAAAGTGCTAGGATAACAGGTGTGAGCCACCGCACCTCG
 CCAAGTTATTTTAAATGTACCATTATTATTGACTATAGTACCTGGTTGTGTTATCAAATAGTATGTCTTATTC
 ATTCTTTCTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTACCCATTAACCTTCCCCTATCTCCCTGCCAGC
 CCTAACTACCTCCCCAGCCTCCAGGAACATCCATCCACTCTTATCTCCATGAGTTCAATTGTTTTGATTTTT
 AGATACACAAATAAATAAGAACATGCAATGTTTGTCTTTCTGTGCCTGGCTTATTTCACTT

4398/5332
FIGURE 3827

GGCTGGAGTGCAGTGGTGCAGTGGTGC AATCTCGGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCGATTCCCTG
TGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCATGTGCCACCACGCCAGCTAATTTTTTTTTTTTTTTTTTTT
TTTTTTGTATTTTAGTAGAGACAGGGTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGATCTCAAGAGAT
CTGCCTGCCTCGGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACTCGACTCAGCCAATAATGCATATTTTT
ATTTCCACCTGCTTTACTGTGAGAATGAGTAAGACAGAGAAGAAATCATTAAACACCAGGATTCTACTTCCTGCT
GGAGTTTTCTGCCTGAGATGTTAGGAGAGGAACTCTCAGGATCTCAGAAAATCACATCTATCACGGTTGGTAGA
AGTAGATTCTAGAGTCAGCCAGA ACTGAGTTCAAGTCCCAACTGCATGGCTTTGGGCAACTGACTTGTCTCTCT
GAGGCCCAGATTCCCTTTTCGGTAATGTGGAGATGGCAGTGTATCTACCTCACAAAGCAGTGGTGAGATTACAATA
AGGTAGGCATGTAAAGCGCCAGGCACATACTAACTGCTCAATAAATGGGAGGCATCATAATTGTATATTATTAC
AGCCCAAGGAAAGTGTAGCCAGAGAGGGCAAGGAACCTCCCTGAGGTCACACAGAAAATCATGTGCTGGTTGTA
TGCCCTGGAAAGTTGTGGAGAGGGAGTGTGGGTGTCTCCTGGGGACCTGTCTCTGATGGGCTCTTGTTCGGCT
AGGACCCCCCAAACCCCCACCGAGCTGGAGCCTGAGCCGGAGATAGAGGGGCTGCTGACACCAGTGTGGAGGC
TGGCGATGTGGATGAAGGCCCTGTAGCAAGGCCTCTCAGCCCCACGAGGCTGCAGCCAGCACTGCCACCGGAGGC
ACAGTCGGTGCCCGAGCTGGAGGAGGTGGCACGGGTGTTGGCGGAAATTCCTCGGCCCTCAAACGCAGGGGCTC
CATGGAGCAGGCCCTGCTGTGGCCCTGCCCCCTACCCACAAGAAACAGTACCAGCAGATCATCAGCCGCCCTCTT
CCATCGTCATGGGGGGCCAGGGCCCGGGGGCCGGAGCCAGAGCTGTCCCCATCACTGAGGGATCTGAGGCCAG
GGCAGGGCCCCCTGCTCCTGCCCCACCAGCTCCCATTCACCCCCGGCCCCGTCCAGAGCAGCCACCAGAGCA
GCCGCAGAGCATGGAGATGCGCTCTGTGCTGCGGAAGGCGGGCTCCCCGCGCAAGGCCCGCCGCGCGCGCTCAA
CCCTCTGGTGCTCCTCCTGGACGCGGCGCTGACCGGGGAGCTGGAGGTGGTGCAGCAGGCGGTGAAGGAGATGAA
CGACCCGAGCCAGCCCAACGAGGAGGGCATCACTGCCTTGCAACGCCATCTGCGGCGCCA ACTACTCTATCGT
GGATTTCCCTCATCACCGCGGGTGCCAAATGTCAACTCCCCGACAGCCACGGCTGGACACCCTTGCACTGCGCGGC
GTCGTGCAACGACACAGTCATCTGCATGGCGCTGGTGCAGCACGGCGCTGCAATCTTCGCCACCACGCTCAGCGA
CGGCGCCACCGCCTTCGAGAAGTGCGACCCTTACCGCGAGGGTTATGCTGACTGCGCCACCTACCTGGCAGACGT
CGAGCAGAGTATGGGGCTGATGAACAGCGGGGCAGTGTACGCTCTCTGGGACTACAGCGCCGAGTTCGGGGACGA
GCTGTCTTCCGCGAGGGCGAGTCCGTACCGTGTGCGGAGGGACGGGCCGGAGGAGACCGACTGGTGGTGGGC
CGCGCTGCACGGCCAGGAGGGCTACGTGCCGCGGA ACTACTTCGGGCTGTTCCCCAGGGTGAAGCCTCAAAGGAG
TAAAGTCTAGCAGGATAGAAGGAGGTTTTCTGAGGCTGACAGAAACAAGCATTCTGCCTTCCCTCCAGACCTCTC
CCTCTGTTTTTTGCTGCCTTTATCTGCACCCCTCACCTGTGCTGGTGGTGGTCTTGCCACCGGTTCTCTGTTCTC
CTGGAAGTCCAGGGAAGAAGGAGGGCCCCAGCCTTAAATTTAGTAATCTGCCTTAGCCTTGGGAGGTCTGGGAAG
GGCTGGAAATCACTGGGGACAGGAAACCACTTCCTTTTGCCAAATCAGATCCCGTCCAAAGTGCCTCCCATGCCT
ACCACCATCATCACATCCCCAGCAAGCCAGCCACCTGCCAGCCGGGCCTGGGATGGGCCACCACACCACTGGA
TATTCCTGGGAGTCACTGCTGACACCATCTCTCCAGCAGTCTTGGGGTCTGGGTGGGAAACATTGGTCTCTACC
AGGATCCCTGCCCCACCTCTCCCAATTAAGTGCCTTCACACAGCACTGGTTTAATGTTTATAAACAAAATAGAG
AAACTTTCCTTATAAATAAAAGTAGTTTGCACAGAAA

4399/5332
FIGURE 3828

GCTCAACGTGGACGGGCTCCTGGTCTACTTCCCGTACGACTACATCTACCCCGAGCAGTTCTCCTACATGCGGGA
GCTCAAACGCACGCTGGACGCCAAGGGTCATGGAGTCCTGGAGATGCCCTCAGGCACCGGGAAGACAGTATCCCT
GTTGGCCCTGATCATGGCATAACGAGAGCATATCCGCTGGAGGTGACCAAACCTCATCTACTGCTCAAGAACTGT
GCCAGAGATTGAGAAGGTGATTGAAGAGCTTCGAAAGTTGCTCAACTTCTATGAGAAGCAGGAGGGCGAGAAGCT
GCCGTTTCTGGGACTGGCTCTGAGCTCCCGCAAAAACCTTGTTATTACCCCTGAGGTGACACCCCTGCGCTTTGG
GAAGGACGTCGATGGGAAATGCCACAGCCTCACAGCCTCCTATGTGCGGGCGCAGTACCAGCATGACACCAGCCT
GCCCCACTGCCGATTCTATGAGGAATTTGATGCCCATGGGCGTGAGGTGCCCTCCCCGCTGGCATCTACAACCT
GGATGACCTGAAGGCCCTGGGGCGGGCCAGGGCTGGTGCCCATACTTCTTGCTCGATACTCAATCCTGCATGC
CAATGTGGTGGTTTATAGCTACCACTACCTCCTGGACCCCAAGATTGCAGACCTGGTGTCCAAGGAACTGGCCCG
CAAGGCCGTCGTGGTCTTCGACGAGGCCCCACAACATTGACAACGTCTGCATCGACTCCATGAGCGTCAACCTCAC
CCGCCGGACCTTGACCGGTGCCAGGGCAACCTGGAGACCCTGCAGAAGACGGTGCTCAGGATCAAAGAGACAGA
CGAGCAGCGCCTGCGGGACGAGTACCGGCGTCTGGTGGAGGGGCTGCGGGAGGCCAGCGCCGCCGGGAGACGGA
CGCCACCTGGCCAACCCCGTCTGCCCCAGCAAGTGTGTCAGGAGGCAGTGCCTGGCTCCATCCGCACGGCCGA
GCATTTCTGGGCTTCTGAGCGGCTGCTGGAGTACGTGAAGTGGCGGCTGCGTGTGCAGCATGTGGTGCAGGA
GAGCCCGCCCGCTTCTGAGCGGCTGGCCCAGCGCGTGTGCATCCAGCGCAAGCCCCCTCAGATTCTGTGCTGA
ACGCTCCGGTCCCTGCTGCATACTCTGGAGATACCGACCTTGCTGACTTCTCCCCGCTCACCTCCTTGCTAA
CTTTGCCACCTTGTCAGCACCTACGCCAAAGGCTTACCATCATCATCGAGCCCTTTGACGACAGAACCCCGAC
CATTGCCAACCCCATCCTGCACTTCAGCTGCATGGACGCTCGCTGGCCATCAAACCCGTATTTGAGCGTTTCCA
GTCTGTATCATCACATCTGGGACACTGTCCCCGCTGGACATCTACCCCAAGATCCTGGACTTCCACCCCGTCAC
CATGGCAACCTTACCATGACGCTGGCACGGGTCTGCCTCTGCCCTATGATCATCGGCCGTGGCAATGACCAGGT
GGCCATCAGCTCCAAATTTGAGACCCGGGAGGATATTGCTGTGATCCGGAACCTATGGGAACCTCCTGCTGGAGAT
GTCCGCTGTGGTCCCTGATGGCATCGTGGCCTTCTTACCAGCTACCAGTACATGGAGAGCACCGTGGCCTCCTG
GTATGAGCAGGGGATCCTTGAGAACATCCAGAGGAACAAGCTGCTCTTTATTGAGACCCAGGATGGTGGCGAAAC
CAGTGTGCCCCGAGAGAACTACAGGAGGCCTGCGAGAATGGCCGCGGGGCCATCCTGCTGTGAGTGGCCCGGGG
CAAAGTGTCCGAGGGAATCGACTTTGTGCACCACTACGGGCGGGCCGTCATCATGTTTGGCGTCCCTACGTCTA
CACACAGAGCCGCATTCTCAAGGCGCGGCTGGAATACCTGCGGGACCAAGTTCAGATTCTGTGAGAATGACTTTCT
TACCTTCGATGCCATGCGCCACGCGGCCAGTGTGTGGGTCGGGCCATCAGGGGCAAGACGGACTACGGCCTCAT
GGTCTTTGCCGACAAGCGGTTTGCCCGTGGGGACAAGCGGGGGAAGCTGCCCGCTGGATCCAGGAGCACCTCAC
AGATGCCAACCTCAACCTGACCGTGGACGAGGGTGTCCAGGTGGCCAAGTACTTCTGCGGCAGATGGCACAGCC
CTTCCACCGGGAGGATCAGCTGGGCCTGTCCCTGCTCAGCTGGAGCAGCTAGAATCAGAGGAGACGCTGAAGAG
GATAGAGCAGATTGCTCAGCAGCTCTGAGTGGGGCGGGTGGGGCCATAAACGGTTCTTGGTGA

4400/5332
FIGURE 3829

TGTCACCTCCAGGATACAGACAGCCCCCTTCAGCCCAGCCCAGCCAGGTCTCCTACACCGCCACCATGCCATTC
GGTAACACCCACAACAAGTTCAAGCTGAATTACAAGCCTGAGGAGGAGTACCCCGACCTCAGCAAACATAACAAC
CACATGGCCAAGGTACTGACCCCTTGAAGTCTACAAGAAGCTGCGGGACAAGGAGACTCCATCTGGCTTCACTGTA
GACGATGTCATCCAGACAGGAGTGGACAACCCAGGTCACCCCTTCATCATGACCGTGGGCTGCGTGGCTGGTGAT
GAGGAGTCTACGAAGTTTTCAAGGAAGTCTTTGACCCCATCATCTCGGATCGCCACGGGGGCTACAAACCCACT
GACAAGCACAAGACTGACCTCAACCATGAAAACCTCAAGGGTGGAGACGACCTGGACCCTAACTACGTGCTCAGC
AGCCGCGTCCGCACTGGCCCGCAGCATCAAGGGCTACACGTTGCCCCCACACTGCTCCCGTGGCGAGCGCCGGGCG
GTGGAGAAGCTCTCTGTGGAAGCTCTCAACAGCCTGACGGGCGAGTTCAAAGGGAAGTACTACCCTCTGAAGAGC
ATGACGGAGAAGGAGCAGCAGCAGCTCATCGATGACCACTTCCTGTTTCGACAAGCCCGTGTECCCGCTGCTGCTG
GCCTCAGGCATGGCCCCGCGACTGGCCCGACGCCCGTGGCATCTGGCACAATGACAACAAGAGCTTCCTGGTGTGG
GTGAACGAGGAGGATCACCTCCGGGTCATCTCCATGGAGAAGGGGGGCAACATGAAGGAGGTTTTCCGCCGCTTC
TGCCTAGGGCTGCAGAAGATTGAGGAGATCTTTAAGAAAGCTGGCCACCCCTTCATGTGGAACCAGCACCTGGGC
TACGTGCTCACCTGCCCATCCAACCTGGGCACTGGGCTGCGTGGAGGCGTGCATGTGAAGCTGGCGCACCTGAGC
AAGCACCCCAAGTTCGAGGAGATCCTCACCCGCTGCGTCTGCAGAAGAGGGGTACAGGTGGCGTGGACACAGCT
GCCGTGGGCTCAGTATTTGACGTGTCCAACGCTGATCGGCTGGGCTCGTCCGAAGTAGAACAGGTGCAGCTGGTG
GTGGATGGTGTGAAGCTCATGGTGGAAATGGAGAAGAAGTTGGAGAAAGGCCAGTCCATTGACGACATGATCCCC
GCCCAGAAGTTAGGGCGCTGCCACCTGCCACCGACTGCTGGAACCCAGCCAGTGGGAGGGCCTGGCCCACCAGAG
TCCTGCTCCCTCACTCCTCGCCCCGCCCCCTGTCCCAGAGTCCCACCTGGGGGCTCTCTCCACCCTTCTCAGAGT
TCCAGTTTCAACCAGAGTTCCAACCAATGGGCTCCATCCTCTGGATTCTGGCCAATGAAATATCTCCCTGGCAGG
GTCTCTTCTTTTCCCAGAGCTCCACCCCAACCAGGAGCTCTAGTTAATGGAGAGCTCCCAGCACACTCGGAGCT
TGTGCTTTGTCTCCACGCAAAGCGATAAATAAAAGCATTGGTGGCCTT

4401/5332
FIGURE 3830A

CGCCTCCCTCCGCCCGCGCTTGGGCCGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCGCCCGCTGCCCGCGCCC
CCATGGCGCCCGGGGTCCCCGCTGCACGGGGCCACTAGGACCCCTCGGCGTCCCTTCCCTCCCGCCCTGCCCG
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGAGCTCGCGTCCCAGGCCGGCGGGGGGGA
GGGGAAGAGAGGGGACCTGGGACCCCCGCCCCCCCCACCCGGCCGCCCTGCCCGCCGGGACCCGGAGAAGATG

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCTTGGTCCAGCCGCTCACTGGGTGCCCGTTGCCGGAACCTCCATCGCCTCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCTGCTGAGGACCATTGGGAAGGGCAACTTTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTCCGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCTGGAGAAGTGTGACTACCTCGTGTGCGATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCGACAGATTGTTTCGGCTGTGCACTATTGTCAACAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTCACGCTGGGATCGAAGCTGGACAGTTCGCGGGAGCCCCCATATGCCGCCCCGGAGCTG
TTTCAGGGCAAGAAGTACGACGGGCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTGGTGCTGAACCCAGCTAAACGCTGACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCCTGGCACGGGTGCGGGCGCCACGGACACCACCAACGGAACAAGTTCAGCAAA
GGCACCAGCCACAGCAAGGGCAGCGGAGTTCCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCCCTGCACCCCTGCACCCCAAACGCAGCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGGAGTGGGAGTTCGAGGGCTGCCCCCTCCAGCCCCATGGTC
AGCAGCGCCCAACCCCAACAAGGCAGAGATCCCAGAGCGGCGGAAGGACAGCACGAGCACCCCAACAACCTC
CCTCCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAACGCCCCGGGGGCTGAGCGCCGTCAGTGTG
CCAAATGGGAAAAGAAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGGAGCGGAGCCGCTGGCACGTGGTTCCACCATCCGCAGCACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGTGGGGGTGGTGGGGGTGTGCAGAAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCGCCGGGCGGCCCGCCCCACCACCAACCTCTTACCAAGCTGACCTCCAACTGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTTCGACAGCAACCTGAGAGAATCGGGGGACCTGAGGTCAAAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCTGGAGTGTGAAGCTGACAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCCTGC
ACGGGGGTGCGGGCGGGCCCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCCGGCCAGGCTTGC
GGGAGTTCTCTTCGCGCTGTGGCGGGCACCGCCCTGGCCTTCCGCACCTCTGTACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCACGGTCCCAGGGCCCTTACTCTTCTCTCCCTTGTGCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACTCAGTTTCCCTGAATTATATTGGGGGCAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGATGAGGGGGCTCAGCGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAAACTGAGGAAATCTTCAATTCCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC
GTCCCCTACGCTCAAAACCCCACTTCTTCCCCAGGCTGGCGCGGGGCACCTTTGTACAAATCCTTGTAATAACC
CCACACCTTCCCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCTCTCTCTGTGACCCCCCTACCTGCAGCCTGTTGCCCAATAAAATTTAAGAGAGTCCCCCTCCCCAATGC
TGACCTTAGGATTTTCTTCCCTGCCCTACCTGCAAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGAGCCTCGGTTTTCTCATCTGCAGAAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG
AAGAAGGCAGGATGGAATCGGCCTCATCCCCAGGCCCCAGTTTCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCCAGCCACCATGTTACTGACTGACTOTAAGCCACTTCTTACTCCAGTAGTAAATTTATTCAATAAACAATCA

4402/5332
FIGURE 3830B

TTGA

4403/5332
FIGURE 3831

GGAGGGGGCATGGCGGATACTGTGTTGTTTGAGTTTCTTCACACGGAGATGGTGGCTGAGCTGTGGGCTCACGAC
CCCGACCCCGCCCCGGGGGTGAGCGCCGGGCTCCGTGGGGAGGAAGCGGGGGCCACCAAGGGACAGAAGATGAGC
CTGTCGGTCCTGGAGGGTATGGGGTTCCGTGTGGGCCAGGCTCTAGGCGAGAGGCTGCCCCGGGAGACGCTGGCC
TTCAGGGAGGAGCTGGATGTCCTCAAGTTCTTGTGCAAAGACCTGTGGGTGGCGGTGTTCCAGAAGCAGATGGAC
AGCCTGCGCACCAATCACCAAGGGGACCTACGTCTGCAAGACAACAGCTTCCCCCTCCTCCTCCCGATGGCCTCT
GGCCTGCAGTATCTGGAGGAAGCACCCAAGTTCTTGGCCTTCACCTGCGGCCTCCTGCGCGGCGCCCTCTATACC
CTGGGCATTGAGAGCGTGGTCACCGCCTCCGTGGCAGCCCTGCCCCGTCTGTAAGTTCCAGGTGGTGATTCCGAAA
TCCTTAAGCCTGCCTCGCACCTGCTGAGCCGCACTGCTGCCCTGGCCTCACCGGCCTCAGGAGACGGTGGGGCCG
CTGCATTTGCGGGGTGGTCTTGGGAATCCCAGGCCCTAGGGGTACATTTGCTCAGGAAGTGGGTATCAAATTGAG
GTGGGGGTGTGAGAGGAGGCAAAGGGGTCCCAGCTGCGGTGAGGACTGTGGTGGGATTCCCGCCTCGGCAGCGTC
ACTGCCCAGTAGCTGCTCAATAAAGGCTGTGTGTGTGGAATCTG

4404/5332
FIGURE 3832

CGCCGTCAGGGCCCCAGCAGGGCGGCTCGGTCCCCTCCCATGAGCCCCGCCCTGGTAGGCGGAGCCACGGGGCCCG
GCCAGCACGTGTAAGAGTTCGCGGCGGGTCGCCGCAGTCACTCACCTGAGCGCGCACGGTCCGCGCGTCCCTCCGC
TCGTGCGTCCCTCCGCCCCCGCCGCTGCCTGCCTGCCCGCCCGCTCGCTCGCCCGGCCCCGCGACTCATGTCCTCCGCC
GCAAGGCCGGCAGCGCGCCCCGCGAGTAGAGCCCGCGCCCCGCCCAACCCAGACGACGAGATGGAAATGCAGG
ACCTCGTCATCGAACTCAAGCCCGAGCCAGACGCGCAGCCCCAACAGGCCCAAGGCTGGGGCCCTTCTCCCCGA
AGGAGGTGTCTCGGCGGGGCGGTTTCGGCGGCGAACCCACCCTCCCTGGCCCCATGCCCGCCGGGCGCGCC
TCCTCGCCCTCGGCCCCGCGAACCCGTGGACCCTGTGGACGCCGTGACCCCGAACTATCCCGACCGCCAGCCCT
GGAÇCGACAAACACCCAGATCTGTTGACCTGCGGCCGCTGCCTGCAGACCTTCCCGTTGGAGGCCATCACTGCCT
TCATGGACCACAAGAAGCTGGGCTGTCAGCTCTTCAGAGGCCCCAGCCGCGGCCAGGGCTCAGAACGAGAGGAGC
TGAAGGCCTTGAGCTGCCTGCGCTGTGGCAAACAGTTCACAGTGGCCTGGAAGCTGTGCGTCACGCCCAGTGGG
ACCACGGACTGTCCATCTACCAGACAGAATCAGAGGCCCGGAGGCCCGCTCCTGGGCCTGGCCGAGGTGGCTG
CAGCCGTGTGCGCAGTGGTGGGGCCAGCAGCTGAGGCCAAGAGCCCCCGTGCAAGTGGCAGCGGCCTACCCGGC
GGAGCCCCACCTGTCTGTGTGCAAGAAGACCCCTCAGCTCCTTCAGCAACCTCAAAGTGCACATGCGCTCACACA
CAGGCGAGCGGCCCTATGCTTGCAGCAGTGTCCCTACGCCTGCGCCCAGAGCAGCAAGCTCAACCGCCACAAGA
AGACCCACCGGCAGGTGCCGCCCCAGAGCCCCCTCATGGCCGACACCAGCCAGGAGCAGGCCTCTGCAGCCCCCTC
CGGAGCCGGCTGTCCATGCTGCTGCCCCCACCAGCACCCCTTCCATGCAGCGGTGGTGAGGGGGCTGGAGCCGCGC
CCACAGCAGGTGTCCAGGAACCCGGGGCTCCTGGCAGTGGGGCTCAAGCCGGCCCTGGTGGAGACACTTGGGGAG
CCATCACCAACGGAACAAAGAACTGACCCTGCAAACAGCCAGAAGGCATCACCAAAAAGATGCCCAAGTCAGGGG
GCAAGAGCCGCGGGCCCCGGGGGAGCTGTGAGTTCTGCGGGAAGCATTATACCAACAGCAGCAACCTGACGGTGC
ACCGGCGCTCACACACCGGGGAGCGCCCCCTACACCTGTGAGTTCTGCAACTACGCCTGCGCCCAGAGCAGTAAGC
TCAACCGCCACCGCCGATGCACGGCATGACGCCTGGCAGCACCCGCTTCGAGTGGCCCCACTGCCATGTGCCCT
TCGGCCTGCGAGCCACCCTGGACAAACACCTGCGGCAGAAGCACCCCTGAGGCGGCCGGCAGGÇCTGAGCCCAAGG
AAAGCCCCCTCACTGTCCCTGGTACCGCTGCCAACACCCATTGACCTCCTCGTTTTTGGCCGCCTTCTCCAAGT
AAATTTTCCCTTTTATT

[illegible]

4406/5332
FIGURE 3834

CCCCCGCGCCCGCCCCGCGCCCCGCGCAGCCCCGGGCGCCGCGCTCCTGCCCCGGCCTGCGGCCCCAGCCCTT
GCGCCGCTCGTCCGACCCGCGATCGTCCACCAGACCGTGCCTCCCGGCCGCCCCGGCCCGCCGCTGCATGCTTC
GGTCTGGGCCAGCCTCTGGGCCGTCCGTCCCCACTGGCCGGGCCATGCCGAGTCGCCGCGTCGCCAGACCGCCGG
CTGCGCCGGAGCTGGGGGCTTAGGGTCCCCGACCTCTCCTCACTCTCGCTCGCCGTTTCCAGGAGCACAGGTG
AAGAGATCATCGACGAGTACATCAAGGAGAACGGCTTCGGCCTGGACGGGGGACAGCCGGGCCCCGGGCGAGGGGC
TGCCACGCCTGGTGTCTCGCGGGGCTGCGTCCCTGAGCACGGTCACCCTGGGCCCTGTGGCGCCCCCAGCCACGC
CGCCGCTTGGGGCTGCCCCCTGGGCCGACTAGTGTCCCCAGCGCCGGGCCCCGGGCCCCGAGCCGCACCTGGTCA
TCACGGAGCAGCCCAAGCAGCGCGGCATGCGCTTCCGCTACGAGTGCAGGGCCGCTCGGCCGGCAGCATCCTTG
GGGAGAGCAGCACCAGAGCCAGCAAGACGCTGCCCGCCATCGAGTCCGGGATTGTGGAGGGCTGCGGGAGGTGG
AGGTGACTGCCTGCCTGGTGTGGAAGGACTGGCCTCACCAGTCCACCCCCACAGCCTCGTGGGGAAGACTGCA
CCGACGGCATCTGCAGGGTGCGGCTCCGGCCTCAGTTCAGCCCCGGCACAGTTTTAACAACCTGGGCATCCAGT
GTGTGAGGAAGAAGGAGATTGAGGCTGCCATTGAGCGGAAGATTCAACTGGGCATTGACCCTACAACGCTGGGT
CCCTGAAGAACCATCAGGAAGTAGACATGAATGTGGTGAGGATCTGCTTCCAGGCCTCATATCGGGACCAGCAGG
GACAGATGCGCCGGATGGATCCTGTGCTTTCGAGCCCGTCTATGACAAGAAATCCACAAACACATCAGAGCTGC
GGATTTGCCGAATTAACAAGGAAAGCGGGCCGTGCACCGGTGGCGAGGAGCTCTACTTGCTCTGCGACAAGGTGC
AGAAAGAGGACATATCAGTGGTGTTCAGCAGGGCCTCCTGGGAAGGTCGGGCTGACTTCTCCAGGCCGACGTGC
ACCGCCAGATTGCCATTGTGTTCAAGACGCCGCCCTACGAGGACCTGGAGATTGTGAGCCCGTGACAGTCAACG
TCTTCTGCGAGCGGCTCACCGATGGGGTCTGCAGCGAGCCATTGCCTTTCACGTACCTGCCTCGCGACCATGACA
GCTACGGCGTGGACAAGAAGCGGAAACGGGGGATGCCGACGTCTTGGGGAGCTGAACAGCTCTGACCCCCATG
GCATCGAGAGCAAACGGCGGAAGAAAAAGCCGGCCATCCTGGACCACTTCTGCCCCAACACGGCTCAGGCCCGT
TCCTCCCGCCGTGAGCCCTGCTGCCAGACCTGACTTCTTCTTGGCACCGTGTCCCTGCCCGGCCCTGGAGCCCC
CTGGCGGGCCTGACCTCCTGGACGATGGCTTTGCCTACGACCTACGGCCCCCACACTCTTACCATGCTGGACC
TGCTGCCCCCGGCACCGCCACACGCTAGCGCTGTTGTGTGTCAGCGGAGGTGCCGGGGCCGTGGTTGGGGAGACCC
CCGGCCCTGAACCACTGACACTGGACTCGTACCAGGCCCGGGCCCCGGGGATGGAGGCACCGCCAGCCTTGTGG
GCAGCAACATGTTCCCAATCATTACCGCGAGGGCGGCTTTGGGGCGGCTCCTATCCCCGGGGCCTGAAGCCA
CGTAGCCCCCGCATGCCAGAGGAGGGGCACTGGGTGGGGAGGGAGGTGGAGGAGCCGTGCAATCCCAACCAGGAT
GTCTAGCACCCCCATCCCCCTTGCCCTTCTCATGCTTCTGAAGTGGACATATTCAGCCTTGGCGAGAAGCTCCG
TTGCACGGGTTTCCCTTGAGCCCATTTTACAGATGAGGAACTGAGTCCGGAGAGGAAAAGGGACATGGCTCCC
GTGCACTAGCTTGTACAGCTGCCTCTGTCCCCACATGTGGGGGCACCTTCTCCAGTAGGATTCGGAAGATTG
TACATATGGGAGGAGGGGGCAGATTCTGGCCCTCCCTCCCCAGACTTGAAGGTGGGGGGTAGGTTGGTTGTTCA
GAGTCTTCCCAATAAAGATGAGTTTTTGGGCCTC

4407/5332
FIGURE 3835

ACCCGGAGCGGGAAGATGCGGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCAGCCGGCACCCAATGCCTGGCAGGTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCGCCGAGGGCGGGCCCTCAGGACCAGGCGGGCCCCGGAGGAGCTCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAAGTCAAGCGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCGGCGAGAAGGCCCTGTACCGCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCCATTTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTCCCCCTCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCCCTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTCCTGGGTGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTCACAGTGTCTTC
GAGTTCTTGGCCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCCAGTCATTCTGTTGCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCAATTGGGGTCTTCATCGACCTCTGGAAGATCACCAAGGTGATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTGTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTCATCGACGACCTGTTTCGCTTTGTATCAAGATGCCGTTATGTACCGGATCGGC
TGCCTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCACAGCAGCAGGGGCC
CTCAGCCCCACACCTGCACCCACCAGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCTACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCTCGCCTCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCTCAGGTCAGGGCCAGCGTGTGATGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACCCTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCCGTTATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTC

4408/5332
FIGURE 3836

CAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGGGC
TGCGTTGCTGGTCACATTCCCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGA
GCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTCGCTTTTGGGATTACCTGCG
CTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCACCCAGGAAGTGAAGGCGCT
GATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTGAACCCGGTGGCGGAGGA
GACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGCGG
CCGCTTGGTGCAGTACCGCGGGCAGGTGCAGGCCATGCTCGGCCAGAGCACCAGGAGCTGCGGGTGCGCCTCGC
CTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTACCA
GGCCGGGGCCCCGCGAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGAACAGGG
CCGCGTGCGGGCGGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCCCAGGCCTGGGGCGAGCG
GCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCGGA
GGTGCAGCGCAAGCTGGAGGAGCAGGCCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAG
CTGGTTCGAGCCCCCTGGTGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGG
CACCAGCGCCGCCCCCTGTGCCCAGCGACAATCACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCC
GTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCCTA
GTTTAATAAAGATTACCAAGTTTCACGC

4409/5332
FIGURE 3837

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCGCCGAGGATGGG
GCCTGCGGCTGCCAACC CGGCACATTGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTACG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCTGAAGTTTGTAAGTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCCTGGGGAACCCAGACGTCCTCGTGGGTTTCAAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCAAGGCCAACCTCCTCTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCTCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTTCGGGGGGGACATTGGAAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAAGTGAATG
GCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGAG
GGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCAT
CCTCCAAAGGGCCTGGGCCCCGCCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCCTGCCC
CGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACC GGACATTTTACAGAAAAAA
AACAAAAACAACAAAAAATATACGTGGG

4410/5332
FIGURE 3838

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCGGAGCCCCACAGGCACCTACTAA
ACCGCCCAGCCGATCGGCCCCCACAGAGTGGCCCCGCGGGCCTCCGGCCGGGCCAGTCCCCTCCCGGGCCCTCCA
TGGGCCCCGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGTCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGG
AGTGCCCGTGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCCAGCCCCGAAGCCTGGCAGCG
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCCAAGAACCAAGCTGAGGCCCAGAAGGTCACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCACCTGCCCGGATCTCCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTCAGGGACCCTGGCCGGAAGTGTACTGTACCCAGCCGCTTACCTTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCCAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCA
GGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGTCTGCTTCTGG
CTGGGGGGTCCCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTGACCTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACACTGCCTCCCACCTTTCTTGG
GACTTGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCGCCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCCTGGCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAAC

4411/5332
FIGURE 3839

AGTCTCCGCCGCCGCCGTGAACATGGAGCCCCCGGACGCACCGGCCAGGCGCGCGGGGCCCCCGGGCTGCTGTT
GCTCGCAGTCTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCAATTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCCT
TACCGACCGCTCGGGAGCTCGCCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA
CGACACCCGGGGCCGCGAGTCCCCATAACAGCTGGACTCCAGGGGCGCCTGGTGCTGGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT
GCCCGAGGGCCGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCACTATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTTGACCCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCCCTTACCTCTAAACAGCAGTGCAGTCTGTAAGTCTGCTCCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATT
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCCACAGTCCCGGTCTCAGCCGCACCCAGAACTTCACGTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGCCATCCAGACCCCAAACTCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCACCGGTGACCCCCA
GACCTCCCAGGCTGGAGTGGCCGTATGGCCGTGGCCGTGAGCGTGGGCCTCCTGCTCCTCGTCTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCCTGCTGCCGCCAGCGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTGCGGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGCTGAGCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCGCCGCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCC
AGCCCTCCCTTCCTTCCCTCTGCCGGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCCAGCCTGGGACAAGGCTCCGAGGGTCGGCTGGCCGGAGCTATTTTACCTCCCGCCTCCCTGC
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCTGGTCCCACT
CCTGCCCCCGCCCTACCTCCGCCCCACCCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTGTCACA
TC

4412/5332
FIGURE 3840

ACTCTGGGCGAGGCCGCCCTATCCAGCCGCACCGGTCCTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCG
GTGGCCCCGTGGGGGCGACAGTGGGAAGAGGCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAA
GAGCAATGCGTCGACCCCCGGCTGTCCGTGAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTG
CTTCGAGAGGTGGCCATTCTCGGCGGGCGGCCGGGAGGCGGCCCGGGGTCCCGCGGGCTCTGGGGACTTT
CTACTCATCTACCTGGCCAATCTGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGG
AGTGCCAACGACGAGCTCTTCGGGCGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGC
CACATGCACGCAGAGCTGCACGCACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCC
CCCGCCACACCTTCTGGAGGGAAAGTTGCGGAGCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTG
GGCACCTGCCACCCTGTGGAACCAGGCTGCACAGCCCTGGCCTTGCGCACCAACCATTGACCTCACCTGCAGCGGG
CACGTGTCCATCTTCGAGTTCGACGTCTTCACCAGGCTCTTTAGCCATGGCCAACACTCCTCAAGAAGTGGCAG
CTCCTGGCAGTCAACCACCCAGGCTACATGGCCTTCTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGC
AGGGACAAGCCAGGCAGTTACATCTTCCGGCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGC
TCAGATGGCAGCATCCTGCAGACCATCCCTGCCAACAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGAC
GGCTTCTACCTCTACCCAGATGGAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAG
CGCATCCACGTGTGAGAGGAGCAGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGT
GCTGAGAGCAACAAGGATGTGAAGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAG
CACTCGGACAGCCAGACCTGCCCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTC
CACGGTCAGGCTACTGCTGAGGACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTG
CCCCTTTCGGCTCCTCCATTGCCCCACGGCCAGATCTGCCCECCAGGAAGCCAGAAATGCCAGCCGAAAGTG
AGACTCCTAAAGGGGAACCTCCCTCCAGCTGCGCTGGGACCCAGGACCCTGCCCCGGCCTGAAGGCCAGGGCAC
CCAGATGTGCTGCTCAAGGGAGCCCCAAGGGCTGGAAGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTC
TGTCTCCA

4413/5332
FIGURE 3841

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCCCGTGGA CTGCGCACCCGGGCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCCGGAGCCCGCCGCTCCCCGCGGGCGCTG
CGGGCCTTGTCGTCCCCCTGGACCCCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCCACGGCC
TGGCCCGCCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGAAAAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCCGGCTCCTCCCGCTGGTGCG
CACGCTGGTCCGCAGCGGCGCTGACAGCAGCCTCAAGAAGTCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCAGCCAGACCCCTCCCCTGA
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCCCTGGATTCCCCTATGGCTCCTCCCAATTTCTTCTTCTTCCCC
ATCTCCACCCGCCCTTCTGCCCCCTTGCTGGGGTCTCTCCGAGGCCCTGGCCGGCCGGTGCCCCCTCCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGCAGATCTTGGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAAACTGTGAAGATCTCACTCTGCCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCCATCTCGCTCCCTCCCAGGACTCTGACCCAGCAT
TCTCAGGCACCAAGTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCGGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAAATAAATATTTTTGTACCAT

4414/5332
FIGURE 3842

GCCAACTCCCCTCCGCTCCAGTCACTTGTCTGGAGCTTGAAGAAGTGGGTATTCCCCTTCCCACCCAGGCACTG
GAGGAGCGGGCCCCCGGGGATTCCAGGACCTGAGCTCCGGGAGCTGGACTCGCAGCGACCGCGGCAGAGCGAGCG
GGCGCCGGGAAGCGAGGAGACGCCCGGGGAGGCCAGCTGCTCGGAGCAACTGGCATGGCCCCGAGCCATGGCCG
CCGCGTGGCCGCTGCTGCTGGTGGCGCTACTGGTGTCTGCTGGCCACCCCAAGGAACCGGGGACGTCGTCGTGC
AGGCGCCACCCAGGTGCCCGGCTTCTTGGGCGACTCCGTGACGCTGCCCTGCTACCTACAGGTGCCCAACATGG
AGGTGACGCATGTGTACAGCTGACTTGGGCGCGCATGGTGAATCTGGCAGCATGGCCGTCTTCCACCAAACGC
AGGGCCCCAGCTATTTCGGAGTCCAAAACGGCTGGAATTCGTGGCAGCCAGACTGGGCGCGGAGCTGCGGAATGCCT
CGCTGAGGATGTTTCGGGTTGCGCGTAGAGGATGAAGGCAACTACACCTGCCGTGTCGTACGTTCCCGCAGGGCA
GCAGGAGCGTGGATATCTGGCTCCGAGTGCTTGCCAAGCCCCAGAACACAGCTGAGGTTTCAAGGTCCAGCTCA
CTGGAGAGCCAGTGCCCCATGGCCCGCTGCGTCTCCACAGGGGGTGGCCCGCCAGCCCAAATCACCTGGCACTCAG
ACCTGGGCGGGATGCCAATACGAGCCAGGTGCCAGGGTTCCTGTCTGGCAGCTCACTGTACCAGCCTCTGGA
TATTGGTGGCCCTCAAGCCAGGTGGACGGCAAGAATGTGACCTGCAAGGTGGAGCACGAGAGCTTTGAGAAGCCTC
AGCTGCTGACTGTGAACCTCACCGTGTACTACCCCCAGAGGTATCCATCTCTGGCTATGATAACAACCTGGTACC
TTGGCCAGAATGAGGCCACCCCTGACCTGCGATGCTCGCAGCAACCCAGAGCCACAGGCTATAATTGGAGCACGA
CCATGGGTCCCCTGCCACCCCTTGTCTGTGGCCAGGGCGCCAGCTCCTGATCCGTCTGTGGACAAACCAATCA
ACACAACTTTAACTGTCAACGTACCAATGCCCTAGGAGCTCGCCAGGCAGAACTGACCGTCCAGGTCAAAGAGG
GACCTCCAGTGAGCACTCAGGCATATCCCGTAACGCCATCATCTTCTGGTCTGGGAATCCTGGTTTTTCTGA
TCCTGCTGGGGATCGGGATTATTTCTATTGGTCCAAATGTTCCCGTGAGGTCTTTGGCACTGTCTGTGTCT
CCTCGAGTACAGAGCATGCCAGCGCTCAGCTAATGGGCATGTCTCCTATTCAGCTGTGAGCAGAGAGAACAGCT
CTTCCCAGGATCCACAGACAGAGGGGCACAAGGTGACAGCTCGGGACTGAGAGGGGAGAGAGACTGGAGCTGGCA
AGGACGTGGGCCTCCAGAGTTGGACCCGACCCCAATGGATGAAGACCCCTCCAAAGAGACCAGCCTCCCTCCCT
GTGCCAGACCTCAAACGACGGGGGAGGTGCAAGTTCATAGGTCTCCAAGACCACCTCCTTTTATTGTCTAGA
AGGACTCACTAGACTCAGGAAAGCTGTTAGGCTCACAGTTACAGTTTATTACAGTAAAGGACAGAGATTAAGAT
CAGCAAAGGGAGGAGGTGCACAGCACACGTTCCACGACAGATGAGGCGACGGCTTCCATCTGCCCTCTCCCAGTG
GAGCCATATAGGACGACCTGATTCTCACAGCAACATGTGACAACATGCAAGAAGTACTGCCAATACTGCCAACC
AGAGCAGCTCACTCGAGATCTTTGTGTCCAGAGTTTTTTGTTTGTCTTGAGACAGGGTCTGGCTCTGTTGGCAGA
CTAGAGTACAGTGGTGAGATCACAGTTTATTGCGCCTTGACTTCTCAACGCCAAGTCATCCTCCACCTCAGCC
TCCTGAGTAGCTATGACTACAGGTATGTGCCACCACGCTCTGGCTAATCTTTTTATTATTGTAAAGTCGAGGTTT
CCCTGTGTTGCCAGGCTGGTCTTGAACCTTTGGCTCCAAGTGATACTTCTGCCTTGGCCTCCCAAAGTGCTGAA
TTAAGCAGCTCACCATCCACACGGCTGACCTCATACTCAAGCCAATACCGTGTGGCCCAAGACCCCCACCATAA
ATCACATCATTAGCATGAACCAACCCAGAGTGGCCCAAGACTCCAGATCAGCTACCAGGCAGGATATCCAAGGG
CTTAGAGATGAATGCCAGGAGCTGAGGATAAAGGGCCGATCTTCTTTGGGCAAGGTTAAGCCTTTACTGCAT
AGCAGACCACACAGAAGGGTGTGGGCCACCAGAGAATTTGGTAAAAATTTGGCCTCTGGCCTTGAGCTTCTAAA
TCTCTGTATCCGTGAGATCTCTGTGGTTACAAGAAACAGCCACTGACCTGGTCACCAGAGGCTGCAATTCAGGC
CGCAAGCAGCTGCCTGGGGGGTGTCCAAGGAGCAGAGAAAATACTAGATGTGAACTTGAAGAAGGTGTGACGT
GCAGCCACTTTCTGCCAGCATCTGCAGCCACTTTCTGCCAGCATCTGCAGCCAGCAAGCTGGGACTGGCAGGAAA
TAACCCACAAAAGAAGCAAAATGCAATTTCCAACACAAGGGGGAAGGGATGCAGGGGGAGGCAGCGCTGCAGTTGC
TCAGGACACGCTCCTATAGGACCAAGATGGATGCGACCCAAGACCCAGGAGGCCAGCTGCTCAGTGCAACTGAC
AAGTTAAAAAGGTCTATGATCTTGAGGGCAGACAGCAGAATTCCTCTTATAAAGAAAATGTTTGGGAAAATACG
TTGAGGGAGAGAAGACCTTGGGCCAAGATGCTAAATGGGAATGCAAAGCTTGAGCTGCTCTGCAAGAGAAAATAA
GCAGGACAGAGGATTGCTCTGGACAGAGATGGAAGAGCCGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCA
GCAGGATGGCAGGGGCAAAGGGCTCAAGGGTGAGGAGGCCAGTGGGACCCACAGAGTTGGGGAGATAAAGGAAC
ATTGGTTGCTTTGGTGGCACGTAAGCTCCTTGTCTGTCTCCAGCACCCAGAATCTCATTAAAGCTTATTTATTGT
ACCTCC

[illegible]

4416/5332

FIGURE 3844

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCCTACTGTGGAAATTCCTTGCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTATCCTTCCAAGGCTCAAAGAGAGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCCCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAACCTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGGAAGAAGCTGTACTCGAC
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGGTGTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAGCATGTGCTGTGAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCCTCCATGAGAATGAGTATGTTTCATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCTAGGTGGAATCCAGAACCTTCCATTTGCAGTGTGC
AACAGAAAAAAAAAATGAAGTAATGTGACTCAAGGCCTGCTGTTTAATCACAGATAAGCTTCTAGAACAAGCCC
TGGAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCCGGAGGGCCCCAGTTTCC
CTCCCGTGAATGTGAAGTTCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGGGGTTG
GGCCGGCCACAGGGGGGACCCCTCCTACCCCTTGACACCTCTGTGCTTTGGTAATAAATGTTTTACAGAG

4417/5332
FIGURE 3845

TCATTCCCTGTCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCCGCTCTGCCTGCGTAGCCCCGGCCATGG
CTCTGTAGCCTCGACCCCTTTGTGCCCCGGCCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCACCTT
CTTTCTTCAGCCGAGGCCGCCGCCCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTGCGCTTGGTGCCTGT
CTTCGCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCCCA
GCACCTGTGCTACAGCCATGTCCTGCGCACCCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCAGCTAGTG
GGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGGGG
GAGCCCTGGAGGGCGGGCTTCCAGTGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGAGC
GAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCTTACCCCCGGCACCCCTCCCCAACCTTCCCCAACCC
CACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCTAGATGCCC
CGCCCTCCCAACCCTCCCCGCCGCCACTACCACCACCACCCTACCACCAGCCCTCCCTCCCCCTGTCCC
TCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGAGG
CCGGGCAGGAGGAAGTGGGGATGCCGCCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACCTT
CTCGCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAAGT
CGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGCTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGAGG
CACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCATCG
AGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAAAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTCTT
CAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATGCT
TGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGGAGCCAGGAGGTCAATACCAGCCTGGGCAAC
ATAGTAAGACCCTGTCTCTATTAAAAAAAAAAAAATCAACCCTTCTTCCCCACCAAACCACCAACTCCTCTCTAC
TCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTCGT
CCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCCGTACATAACAGCCGAGGCACCGAGGCCACAGG
GAAGCAGCTGGGAGCTTGGAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGTGG
GTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGGGA
CCCATATCCTACAGGCAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGGCC
AGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGTGT
TCATTTTAGCTCTAAGAAAAAAATCAGTGTTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGATGG
CGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTG

4418/5332
FIGURE 3846

CGGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGGCGGGCGGCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAAACCCACCTTGTCCTCCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCTTCCCAGTCCTGACAAATGGCCTTTCCTTAAGTTTCCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCT
TGATTCCGCACATGCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCCATCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAAA
AGGGCCACTCGCCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACCTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGCCCG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAN
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAAA
CACCGATCGCCCGTCCGCGCATGATTTCTACCCGCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCAGCGTTGCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTGTCAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGGCGAGCACACCGCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCC
AGTCCAAGGCCAGTTATCTCTCAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGGAAA

4419/5332
FIGURE 3847

GAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCGGCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTACGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACT
TTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTCACTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCCTGGTGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTCAGCCAGCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTGCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCC
ACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAAACCACTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCCTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAAATGGAGAAAAGATCACCAGCCTG
CACC GCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAAGTCCGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTCATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG
GCAAGATACTTGTGTTGTTGTTCTTTCTTTTACA

4420/5332
FIGURE 3848

GTGGAATAACCCCTTCTGAAAAATGGTTTCACCCGCTCCGTCTCTAGAACGGGTGCGGCGGCTACCACTGTCCG
GCCCGGAGGGGAAGTGTCTTCTCCGGAAGTGACAACACGCTGACTAGGAAAAGGAGGAGGCGGGGCAGTGGGGCC
TTCGGCGGCGACTATGGAAGGAGCCGGCTACAGGGTGGTGTGTTGAGAAGGGCGGAGTGTACCTGCACACCAGCGC
TAAGAAGTATCAGGACCGAGACTCTCTCATCGCTGGTGTTCATCCGTGTCGTGGAAGGACAATGACGTCTCTCT
GCACTGGGCTCCTGTAGAGGAGGCTGGAGATTCCACCCAAATCCTCTTCTCCAAGAAGGACTCCAGTGGGGGTGA
CTCATGTGCTTCTGAGGAGGAACCAACCTTTGACCCCGGCTATGAACCTGACTGGGCTGTTCATCAGCACTGTGCG
GCCACAGCCCTGCCACTCAGAGCCACGAGAGGTGCAGAGCCAGCTGCCCCAGGGCTCCTGGGCTTCTCAGT
GAGTCTGGGGGAGCTAAAGTCCATCCGCCGCTCCAAGCCAGGCCTCAGCTGGGCCTACCTGGTTCTGGTGACCCA
GGCTGGAGGTTCCCTGCCCCGACTGCACCTCCACCGCGGGGGCACCCGCGCCCTGCTCCGCGTCTCAGCCGCTA
CCTGCTGTTGGCCAGCTCCCCGAGGACTCCCGCCTCTACCTTGCTTCCCCACGACTCCTCTGCTCTCTCCAA
CTCCTTCCACCACCTGCAGCTCTTTGACCAGGACAGCTCCAATGTGGTGTACGCTTCCTCCAGATCCCTACTCC
ACCAACTTCAGCAGCTTCTCCCGAGTGACCAACTTCTTCCGGGGTGCCCTGCAGCCACAGCCTGAGGGAGCCGCC
TCCGACCTTCCCCCGCCACCCGACGATGAGCCCGAGCCTGGATTGAGGTCATTTCTGTGTGGAGCTGGGGCCT
CGGCCAACCGTGGAGCGGGGCCCTCCAGTTACAGAGGAGGAGTGGGCACGCCACGTGGGCCCTGAAGGTCGCCTG
CAGCAGGTCCCTGAGCTGAAGAACCGGATCTTCTCGGGGGTCTGAGCCCCAGCCTGCGGCGCGAGGCCTGGAAG
TTCCTCCTAGGGTACCTCAGCTGGGAAGGCACAGCTGAGGAGCACAAGGCCACATACGCAAGAAAACGGATGAG
TATTTCCGCATGAAGCTGCAGTGGAATCTGTGAGCCCTGAGCAGGAGCGGAGAACTCACTTCTGCATGGATAC
CGCAGCCTCATCG

4421/5332
FIGURE 3849

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACCACAGCCACCCAGTCCCACACCCAGCCCCACCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCGCGGCCCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTTCATCAGAT
GAGGAGAATGGGCCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATGAAGTCCAGGGAGGGAGCGCCCCGGGGCGCGTCCGCCCCGTCCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCCTCCTTGCGTCTCCCATTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCCGTCTTCCAGCCCACGACCTGCCGCGCCGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTGTTTTCCGCCTAGCGACAAGGGATTTGCTCGCACGGCATTGGCTCCATCCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTCTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGGCGTGGCCAAGCCCTCCTCTTCCAGAATTGGCCCGGGGCC
TTCAATTTACGTTCTTTACACTACGGGGACTGGGGTCGTCTTTGCCCACGTCCCGACAATTGTTCCCTGACCCC
CTCAGGGATGGCCCCAACTGTCCCTGCCTCTGGCACCCCTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTACCTCTGAGAT

4422/5332
FIGURE 3850

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCGGGCCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCC
CATCTTCTGCCCCGACGGGCAAGCCCTGGTCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCCAAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGACTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCCTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTAACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACCTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT
GTCGCAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAACCGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCGAGCCGCGGGCGTC
CCCTGCCGCTGCTTCTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTGAGACATGGTCATGTATGGCTACAGGAAGCAGTTTCGAGGCCCCAACGCTGGGTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCCTCCACAATAACGCTGTTTCTCCTTG

4423/5332
FIGURE 3851

ATGGTCCGTCCGCGCCGTGCCCCGTACCGCTCCGGCGCCGGGGCCCCCTCGGGGGTCGCGGCCGCCCTCCGCGG
CCCCTCGTGGTGCGCGCCGTCCGCTCGCGCTCCTGGCCTGCCAGCCCCGAGGCCCGCAGCCTCCGCGGATCCGG
GCCCGCTCGGCCCCCTCCCATGGAAGGTGCTCGGGTCTTCGGGGCACTGGGTCCCATCGGTCCCTCCTCACCTGGG
CTCACCCCTCGGGGGTCTGGCCGTGAGCGAGCACCGGCTCAGCAACAAGCTGCTGGCTTGGAGCGGCAAGCGCAGA
CCCTACTCTGACTCCACTGCAAAGCTGAAGCGGACCCTGCCCTGCCAAGCCTACGTGAACCAAGGCGAGAACCTG
GAGACCGACCACTGGCCGCAGAAGCTGATCATGCAGCTGATCCCTCAGCAGCTGCTGACCACCCTGGGCCCCCTG
TTCCGGAACCTCCAGTTGGCACAGTTCCACTTCACCAACAGAGACTGCGACTCGCTCAAGGGGCTCTGCCGCATC
ATGGGCAACGGCTTCGCGGGCTGCATGCTGTTCCCCCACATCTCCCCCTGTGAGGTGCGCGTGCTCATGCTCCTG
TACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCTACGACCAGAGCGGCTTCGTCACTGCCATCCGGCAG
GTCATCACCACCCGCAAGCAGGCAGTGGGACCTGGTGGTGTCAACTCAGGCCCAGTCCAGATCGTCAACAACAAG
TTTCTGGCATGGAGTGGTGTATGGAGTGGCAGGAGCCAGGCCTGAGCCCAACAGTCGGTCCAAGAGGTGGCTG
CCATCCCACGTCTACGTGAACCAGGGGGAGATCCTGAGGACCGAGCAGTGGCCAAGGAAGCTGTACATGCAGCTC
ATCCCGCAGCAGCTGCTGACCACCCTAGTGCCGCTGTTCCGGAACTCGCGCCTGGTCCAGTTCCACTTCACCAAG
GACCTGGAGACACTGAAGAGCCTGTGCCGGATCATGGACAATGGCTTCGCCGGCTGCGTGCACTTTTCTACAAA
GCATCGTGTGAGATCCGCGTGCTTATGCTCCTGTACTCTTCAGAGAAGAAAATCTTCATTGGCCTCATCCCCAT
GACCAGGGCAACTTTGTCAACGGCATCCGGCGTGTCATTGCCAACCAGCAGCAGGTCTGCAGCGGAACCTGGAG
CAGGAGCAACAGCAACGAGGGATGGGGGGGTAGTGGTTACCCCGGGCTGGGCCCCCTCCAGGAGTCACAGATGAGG
CCCCCGCAGAGACTGGTGACACGCTTCTGAGCAGGGGCCCTGGGGACTTCAACTGCCAGCAACATGGAGGATG
GTGTCCTGAGGCCTCCAAGGACGGTCCCCACCCCTCTACGTTCCCAATAAAGCCTTTTAAAAACC

4424/5332
FIGURE 3852

ACAAGCTCCCGGGAAACCAGGAGTGACAAGGGCGCCTGTCCCTGAGGAGTGAGAGCGCGGAGTTGGTGCTGAGT
CAGCCCTGATGTGGCAGAGGAGGAGCAGGCCCGCAGAACAGGGCTCTTCAGTGTCTCCAGGTCCTTGGTGAA
GTGGAAC TGACCAGGCGCAGATTCCGGAACAGCGGCACTAGGGTGGTCTGCGGGGAAGCGAGGGGACCCCCAGC
TCTGGCTTCTCCCAACACGGCCTCCCGGCTCCAGCCCGCTGAGTCCCCCGGGCCAGGACCAAAGTACTGAGTCC
CCTGTCTCCCTACCTCAGGAAACGTATCTCCACCGCTCAACCAGCCCCAACCTGGAGTGTGTGGGAAGCCGCT
CTCAGATCCCTTGGCAGCCCCCAGGTGCAGGTCTGTGGCTGCCCTGCCCGCTCAGTCCCTGCACAGCCACCAG
CTGGCTGCCTGGGACCCCTTGAAGCCAAGCCTGAGGAGTACCCACCACACCTGCTTCAGCACCCCTCAGTCCGC
TCCCTCAGAGCCAGCTCAGGCCACCTGGGGAGGCGCTCTTGCCCCAGCCCCGCCCTCTGGAAGAGCTACTGCGT
GCAGGCTCCAGCACCCGGCCCCAGCCCTCACCAGCAGTGTGCGGGATGAGCTGCATGTACAGCTTCCTTGGC
CACTGTCTCGTCTCTGTGGGGCACAAAGGGACGAGGGTCAGGAAGCCCCAGTCCCTGGATGTGTCTCCAC
CCCCAGCCCAGCACTCAGGATCTCCCCCTGGTTACGTAGACGTGGGATGGCAGCCACCTCTTGGACCGACT
GTTGGGCTCAGGCTGGGCTTTTGGGGGAGAGGCAAAGAGGAGCCCTCAGGGCTGGAGACCCCAATGCCAGTGT
CCCCCTCCAGCCACAGTCCGTGAGGATCTGGGGGTCCCAAGTCCCTGGGCTGCCGAGTGTCTACCTCCTGCCACT
CCATGACACCACTCCATGCCAGAACTTGTGTGACGATCTGGACTGGGCTGAGTTGACACCACCAGGTCCCA
CTGCCTGTTGGAAGGGAACGGGGTGGGAAGAGGGGCCAGGCTCTGGGAAACCTGTCTGTCTGTCTGGGGCT
GCCATCCCTCCCTCCGAGCCTTGGCCTGTAGCCCCAGTGGGTCCATTCTCTAGTCCCAGGGGAACAGGCCCTG
CCCTCATCTGCTCAGCCCCCATGGCTCCCAAGTGGCTGAGACAGGTCCCGGCCCTCACCTGGTGCACAGG
ACCTGCAGAGTCTGCCTCAACTGGCAAGGCATGACCAGGACACGTGGTTACCAGGCAGGGCCTTCCAGCCGCAGG
ACGATCCCAACCCCTGCCAGCTCCCCGCTCCGCTGGCTTCCCTGCCCGCGCCAAGACCCACCCTCCAGCCCT
GCAGAGCCGCCCAGTGCCCGCTTTTCCATGGAGCCCTGGTGGGAACCCGCGGCATCCTCCGGGCTCCCTTGCA
GCTCCTTGCTCCAGCCATCGCATCACACTCCGCCACACCAAGTCTGGCTGCCCAACCAGGGCAGTGGGGTCTTAA

TCCCCCTCTGTCCCCAGAGGGGCTGTGCTTGGCTGGCACACCTGCTTGCGGGTGGTGATGACCTGCCGGATGGCA
CTGACGAAGCCGCTCTGGTCTGAGGGGATGAGGCCCATGAAGATCTTCTTCTTGACGAGTACAGGAGCATGAGC
ACGCGCACCTCACAGGGGAGATGTGGGGGAACAGCATGCAGCCCGCTGCGGGGGCCGCGGGTCAGGACCCTGT
GGTCACTGCCCGGGGCCACTGTGCCCCACACCTGGACCGCCCCACCTGTAGGGGATGAAGGGAGATCATCGG
TGGACAGAGGCCCCACAGTCAAGGCCATGGCCATAGGTGAGGGGCTCTGAGAGCCCGTGCAGCGCCCATCGGC
ATCCCCGACCCTGCCATGGCTGAGGTGAGGTGAGTGGCACCCGGCACCCAGGCTGCGGTGAGAATGCCAAGAAGGCA
CTACCTCCCACCCACATCACCCCTGCCGCCAGCCCTCCTGACTGCCTGATGGGGTGAATGGCCTGGGGGTAA
GAGCACAGGCAGCGCCCCACCGTTCTGCTGCCTCCTAGCTGTGTGACCTAACACCAGCCACCTCCTGCTTCTGGG
CCTCCATCATCTGTAAACCGGGTAATAGTGCACACAGTTGGTGCCACATAAAGGCTCAACAGATAAA

4425/5332
FIGURE 3853

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTTAATGGTGGTCTCCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTCAACACAGTGGACTGCGTCCCGAGTCTACGTACAATGTACGCTCC
CACCAGCAGCGCCTATGAGTTTGTCACTGGCTCGATGGCATTAAAGTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGACAGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCCTCCTCATCTGCAACTCACCCCCATACTTGTGCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAACCTGAGAATCTTGTGCAGCAGATTGGGGAGCGGGGATCCACTTCTCCATTGTGTCTCCCCGAA
GCTGCCTGCGCTTCGGCTTCTGTTGAGAAGGCAGCCCCCGGCCCTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTGTTGCGGGACTCGTGTGCTGTTGGGGGTGGCTCAGCCCCAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCCAGGACCCCTGGCGCCCCCAA
GCCACCACCTGCTTCCCAGCCCAGTCTGGTCTCCACTGTGGCCCTGGCTCCGGCCTGGCTCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCAGTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCACTCTCCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCCATTTCAACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCATTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGTCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTCAACCAACCACAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCAGGGCTGGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCCC
ACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCCA
GCCCCCGCCAGGTGCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGGCCACCCCTCCTGGACCCATCCTTCGGCC
CCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGCTGGGGTGGCCCC
ACCCAGGCCTCCCTCCACCACCTGCCCAGTCTGGCCCGCAACTTCCCCCTCGGGCTCCACTGCCAGGTAAG
GGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAAGACCGAGTGCT
CCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTCCCCAGCCGGGCTGCAGCCCAGCGTCATGGAGGAC
GACATCCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCTTTTAAACAC

4426/5332
FIGURE 3854

AGGGTTTGAGGGTCTGTTTGAGTTGGGTGAAGAAGGCGGGAAGTTAATCCTCTTCCAATCAGCTCCCCATCTCGC
CCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCACTGACAGTCCCC
ACGTGAGGGACCGCGGTGGGAGTCCTAAATCGGGGAGGAGGGGACGGGCGGCACTGTGCATCTGCTGTGCCTCGC
GGCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGGCGGCGCCCCGCCCCGTCAGCAGCTCCCGTTCTC
TGTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCTGCGAGGACCGA
GAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATACCCTCATTGTTCTGTCTGAGGTGGGCATCTC
TGAGCTGAGGCTGGAGAGACTACTCAAATGGTGTGGAGCCATGGTCCTTCTGTGGGACTTGAAGAACTGAC
CAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGCTTCCTGGGGGA
CTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTCTTGAGGAAGC
CCTCTCCGGGTTTCGCTGAGGCCGCGGGCAGACCTTCGTAGTCTGGTGGTGTCCGGCCGGGTGGTGGCAGCAAC
AGAGGGTTGGTGGCGGCTGGGGACGCCCCGAGGCCGTGCTGCTCCCTGGCTGGTGGGGTCCCTGCCGCCGAGAC
CGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACCCTGACTCTGCT
GCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCACCCCTCAGCCAGTTGTATCCACAGCTTCTGGAGCG
CTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCAGTGGCTTCCC
CCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAAGTGAAGCGCTGCCTCTTCACCGTGGAGCCCTT
GGGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCCTGGTCACTCCACGCA
CTTCCCACAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCAGAGCTTGCTA
CCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCGTCTGGTGGCCTTGCACTGGGGCTTCGGCGGCTGCT
GCTGCTGCTGTCTCCCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCATGCCCTCACCC
ACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTTTATTGCTCAC
AATAATACACAGCCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGGGAGGAGACATC
CACTTCCCTGGCCCCTCTCCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGACTCCCCCTAACCCCCAGAA
TGTAACAGCAGCAGATGAACAAAAATAAAAAACAAAAGGCCGGAGGAAAGTCCCAGGCATCCCCC

4427/5332
FIGURE 3855

CGCCCCGGTCCCCGCTTGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCAT
CATGCCGGCCGCTGTCCAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGTAAAGAG
CAAAGAGGGCGGAAATTAAGAGAATCAACAAGGAACTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTT
GGATGGCTACAGTAAGAAAAAATATGTGTGTAACTGCTTTTCATCTTCCTGCTTGCCATGACATTGACTTTGG
GCACATGGAGGCTGTGAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTTCTGT
GCTGGTGAACCTCGAAGCTCGGAGCTGATCCGCCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCC
CACCTTCATGTGCCTGGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGA
CATCCCCCGCATCCTGGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGCCCTGTGCCTCCTTCGACT
GTACAAGGCCTCGCCTGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCA
CATGGGTGTGGTCACGGCCGCCGTCAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTG
CGTCTCTCTGGCTGTGTGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTA
CTTCGTCCCAGCACCTGGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGTACCCGCTCCAGAGGATGCGGC
TGTGAAGGGGCGGCTGGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGT
GCAGCATTCCAACGCCAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCAA
CCTCCTGGTTCGGGCTGCAACCAGCTGGGCCAGTTCTGTCAGCACCGGGAGACCAACCTGCGCTACCTGGCCCT
GGAGAGCATGTGCACGCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAA
TGCCCTCAAGACGGAGCGGGACGTGAGCGTGGGCAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAG
CAATGCCAAGCAGATCGTGTGCGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGT
CCTGAAGGTGGCCATCCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCAT
CCGCATTGCGGGCGACTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCACCAACCGTGATGACGT
CCAGGGCTATGCCGCCAAGACCGTCTTTGAGGCGCTCCAGGCCCCCTGCCTGTACGAGAACATGGTGAAGGTTGG
CGGCTACATCCTTGGGGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGACGTTCTCCCT
GCTCCACTCCAAGTTCCATCTGTGTCAGCGTGGCCACGCGGGCGCTGCTGTGTCACCTACATCAAGTTTCATCAA
CCTCTTCCCCGAGACCAAGGCCACCATCCAGGGCGTCTGCGGGCCGGCTCCAGCTGCGCAATGCTGACGTGGA
GCTGCAGCAGCGAGCCGTGGAGTACCTACCCCTCAGCTCAGTGGCCAGCACCGACGTCCTGGCCACGGTGCTGGA
GGAGATGCCGCCCTTCCCCGAGCGCGAGTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGGCCAGGGGCCGG
CAGCGCCCTGGACGATGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGCATGGAGCCCCACCCCGAGCAC
TGTGTGACGCCCCCTCGCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCCCTCCCCGGCAGCACCCCGGCTTC
TGCAGGAGCAGGGAACCTTCTGGTGGACGCTTTCGATGGCCCGGCCGCCAGCCAGCCTGGGGCCACCCCGGA
GGAGGCCTTCTCAGCGAGCTGGAGCCGCCTGCCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGC
TGCTGACCCAGGTCTGAGGACATCGGCCCTCCCATTCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGTAA
GAACAACGGGGTCTGTTCGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCG
CATGTATCTCTTCTATGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTCACCCACTGTGGTTTACCCGGGAGA
CCTCCAGACTCAGCTGGCTGTGCAGACCAAGCGCTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGT
GCTCAATATCGAGTGCCTGCGGGACTTCTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCC
CCAGGCCCTCACCTGAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCCACCGAGATGGCGGCCAGGATTT
CTTCCAGCGCTGGAAGCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCACCCCATGGA
CGCAGAAGTTACTAAGGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCCAACCTGAGAA
CTTCGTGGGGGCGGGGATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCCA
GGCCAGATGTACGGCTGACCTGCGCACCAAGGAGCCCGTCTCCCGTCACCTGTGTGAGCTGCTGGCACA
GCAGTTCTGAGCCCTGGACTCTGCCCCGGGGATGTGGCCGGCACTGGGCAGCCCCCTGGACTGAGGCAGTTTGT
GTGGATGGGGGACCTCCACTGGTGACAGAGAAGACACAGGGTTTGGGGGATGCCTGGGACTTTCTCCGGCCTT
TTGTATTTTTATTTTTGTTTATCTGCTGCTGTTTACATTCTGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTC
CCCCCAAGCACAGAGGGGAGAGGGGCCAGGGAAGTGATGTCTCCTCCCTCCACCCCAACCTGTTGTAGCCC
CTCTACCCCTCCCATCCAGGGGCTGTGATTATTGTGAGCGAATAAACAGAGAGACGCT

4428/5332
FIGURE 3856

ACCCACACCAATGGCGAGCGTGGTGGTGAAGACGATCTGGCAGTCCAAAGAGATCCATGAGGCCGGGGACACCC
CCACGGGGGTGGAGAGCTGCTCCCAGCTAGTCCCAGAGGCTCCCCGGAGGGTGACCAGCCGGGCCAAGGGGATCC
CGAAGAAAAAGAAGGCCGTGTCGTTCCACGGGGTGGAGCCCCAGATGTCCCATCAGCCCATGCACTGGTGCCTGA
ACCTCAAACGGTCCTCGGCCTGCACCAACGTGTCACTGCTCAACCTGGCCGCCATGGAGCCCCACTGACTCCACGG
GGACAGACTCCACAGTGGAAGACCTCAGCGGCCAACTCACACTGGCTGGGCCCCCTGCCTCCCCCTACCCTACCCT
GGGATCCGGATGACGCAGACATCACGGAATCCTGAGTGGGGTCAACAGTGGATTGGTCCGCGCCAAAGACTCCA
TCACCAGCTTGAAGGAAAAGACCAACCGGGTTAACCAGCACGTGCAGTCTCTGCAGAGCGAGTGTTCTGTGCTGA
GCGAGAATCTGGAGAGAAGGCGGCAAGAGGCAGAAGAGTTGGAGGGGTACTGCATTCAACTCAAGGAGAAGTGCT
GGAAGGTGACCCGGTCTGTGGAAGATGCTGAAATCAAAACCAACGTCTTGAAGCAGAATTCTGCCCTGCTGGAGG
AGAAGCTGCGCTACCTCCAGCAGCAGCTGCAGGATGAGACGCCGCGACGGCAGGAGGCCGAGCTGCAGGAGCCGG
AGGAGAAGCAGGAGCCGGAGGAGAAGCAGGAGCCGGAGGAGAAGCAGAAGCCGGAGGCTGGCCTCTCCTGGAACA
GCCTGGGCCCCGCCGCCACGTCCCAGGGCTGCCCCGGCCCGCCAGGGAGTCCCGACAAACCTCGCGGCCACACG
GCCTGGTCCCCGCAGGCTGGGGAATGGGGCCTCGGGCTGGCGAGGGCCCCCTACGTGAGCGAGCAGGAATTGCAGA
AGCTGTTACCCGGCATCGAAGAGCTGAGGAGAGAGGTGTCTCACTGACCGCCCGGTGGCATCAGGAGGAGGGGG
CGGTGCAGGAAGCCCTGCGGCTGCTCGGGGGCCTGGGCGGCAGGGTCGACGGCTTCCTAGGCCAGTGGGAGCGGG
CACAGCGCGAACAGGCACAGACGGCGCGGGACTTGACAGGAGCTGCGAGGTGCGGCGGATGAGCTGTGCACCATGG
TGGAGCGGTGAGCAGTGTCTGTGGCTTCACTGAGGAGCGAACTGGAGGGGCTGGGCCCCACTGAAACCCATTCTGG
AGGAGTTCGGGCGGCAATTTAGAAGCTCTCGAAGAGGGCCTGACCTCTCCATGAACCTGGATCGGTCCCACCAAG
GCAACTGTGCCCCGCTGTGCCAGCCAGGGGTGCGAGTTGTCTACGGAGTCCCTGCAGCAGCTGCTGGACCGAGCAC
TGACCTCACTAGTGACGAGGTGAAGCAGAGGGGCCTGACTCCTGCCTGTCCCAGCTGTGAGAGGCTACACAAGA
AGATTCTGGAGCTGGAGCGCCAGGCCTTAGCCAAACACGTGAGGGCAGAGGCCCTGAGCTCCACCCTTCGGCTGG
CCCAAGACGAGGCCCTGCGGGCCAAGAACCTACTGCTGACAGACAAGATGAAGCCAGAGGAGAAGATGGCCACTC
TGGACCATCTACACTTGAAGATGTGCTCCCTCCACGATCATCTCAGCAACCTGCCACTTGAGGGGTCCACGGGAA
CAATGGGGGGAGGCAGCAGTGCAGGAACCCCCCAAAACAGGGGGGCTCAGCCCCTGAACAATAAATGGCCTCTC
ATGCTAGCATGA

4429/5332
FIGURE 3857

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACCTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

4430/5332
FIGURE 3858

GGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCCGCC
TCTTGAAGAAGTGTCCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGATTA
CTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTACCG
CAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCATCCT
CTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGAGTGTTCCAGTATCTCTGATTATGCGGT
GAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCTCCC
AGTGGAGAAGGTGGACATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACCGT
GCTCTATGCCCCGGGACAAGTGGGCGCCCGATGGCCTCATCTCCAGACCGGGCCACGCTGTATGTGACGGCCAT
CGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCATCAA
AGATGTGGCCATTAAAGGAGCCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCATAAA
GGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCGGAA
TGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTCCAC
CAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTTCTACATGGAGGACTACCTGACCGTGAAGACGGG
CGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGACCT
GGACTTCAAGGGCCAGCTGTGCGAGCTGTCCTGCTCCACCGACTACCGGATGCGCTGAGGCCCGGCTCTCCCGCC
CTGCACGAGCCCAGGGGCTGAGCGTTCCTAGGCGGTTTCGGGGCTCCCCCTTCCTCTCCCTCCCTCCCGCAGAAG
GGGGTTTTAGGGGCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTTTAT
ATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

4431/5332
FIGURE 3859

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACGTGTAAG
CCTCTACCTCCTGCACCTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTTC
CAACACAGAACTTCCATTCAATTCCCTCCGACTGCCCGCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACTACCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCTCCTCTTT
TCCTCTTTCCCTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTCCCGCTTACCTACGATGGAAGGTCGGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCGGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCGCAGGCGCGGGAAAGTTGAACTAATAAAGTTGTACGAGTTCACTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGGACAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCTGAGCCGCTTCGAAGATGCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCCTCGGCCTTGCTCTCTGCCCCATCCGCCCCCTGCTATGGTTTAGAGCCTGGCCCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCAGCGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTTCGCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCCAAGCCGAGCATGCCCCGGGGCCCCCGCCTCCTTC
CCGGAGCCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCGTGGCCGGGCTGGGGGGCACCCCTGGC
CGGACTCAGCGTGGAGCACGTGCACAGCTTCACGCCCTGGATCCAGGCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTTACCCGTGGACTTGAACCTTGCCATTGGACTGA

4432/5332
FIGURE 3860

GGTTCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACCATGGGAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTGCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTCCGAATCTTCCAGGCCCTGGGCCGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCGAGGTGACAGCCTTCTA
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCAGGGGCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTGACCTGGGGCCCTTATTGTAGATCTGATTACCTTACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCGGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCTGAGCCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGA

4433/5332
FIGURE 3861A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGCTCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCCAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCCAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCCTCGCAGGGCTGGTGAGTGTCTGGATCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCCGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCGTCTCAGGGCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCAACTCCTCTAGGCCACCTGTGCCCGTCACTCACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCCCTCCTCTGCATCCTCCTCCCTTCCCTTCTCCTCATCTTCTCCCTTCCCTCCCC
CACCCACCGCCCCCTGCACCCACAGCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG
ACGAGGCTACTCTCCACCGCTGCTCCGGAGCAAAAGTACGACCTTTTGAGCCACCGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCGCGCCGACGCGCAGCCACACAGCCGACTCCCGCCCTGGAA
CGCCGCCCCAGGTGGACTCCACCCGGGCTGATGGAGCATGCGCCGGCGGGTCTTCGTGGTGGGACCGAGGCAG
AGGCTTGTGCGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGGAGCCGCCCTCCCGCCGCCCTGCTGC
CGCCCGGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGGAGGAGGAGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCCGGCGGGCGGGCCGCCGGCTACACCGCCGCCCTCGGCCACCCACCGGCCAGCCCTTCTCTAGC
CTCCCGCTCCCGGGGCCCCGAGGGGGACGACTTCTTGTCCTGTCATGCGGAGTCCGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCGCCGCGGACTCGCGCTGGGGCGGCCTGGACCTGCGCCGCA
AGATCCTGACCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGGCGCCCGCGCCGCCCGGGCGCCG
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGC~~CG~~GGAACGCAAGCGCAGCGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCCGGGACCCAGCCAGCGCCGCCGCCCGCCGGCTCGCCCTGGGACTCCAAGAAGCACCCTCGCGGGACC
GCAAGCCCGGCTCCACGCCTCGTCTCGTCCGCCGCCGCCGCGCTCCCGCTCCCGCTCCCGCTCCACCCGCC
GCCGCTCGCGCAGCACCGACCGCCGCCGCCGGGGGAGCCGAGGTGCGGCTCCCGGGAGAAGCGGCGACGGCGGC
GGCGCTCCGCCTCCCGCCCCCGGCCACTTCTCATCGTCTGCTCGAGGCGCGAGCGGCACCGCGGGAAACACC
GGGACGGTGGCGGCAGCAAGAAGAAGAAGAAGCGGTGCGGTTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCGGGCGCCGCCGCCGCCCTCTGGTCCACCTCGTGTGGTGACCGCGACAGCCGCCCGCGGGGGG
CCGTGCCACCTCCATCCAGGACCTACGGACCAGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCGGGC
TTGACAAGTCCGACCCCGAGGACCTCTCTGCTCCGGCTCCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGACTGAGCGGCGAGGAGCGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCGCTCGGGGGCCGCTCCTCCT
CCTCCTCTTCCCGGGAGAAGGGGTCTCGTTCGGAAGGCGCTGGACGGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTCAATCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCGCCAA
AGCCACCACTGAGCAGCGGCTCAGGCTCTCATCTCGTCTGCTCCTCTGTTCTTCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTGAGCAGCACACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTCCGCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGACGACCAAGCCCAAGGATCAAGGCCAAGGCAGGGGCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCAAGACCAGGAAAAAGGTCCGAGTGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTGCTGAAGAAGTCAAGGCGGATAGCTGCAGCCAGGCGGCAGGACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGAGGAGCGGGCAGCCAAGGTTCTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCTGCCCTCACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGGTGA~~CT~~CGGGGGCGGAGGACGGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACAGCGGCTCTGGCCTTGA~~CT~~GCATTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

4434/5332
FIGURE 3861B

TCAGCCACAGAAAGCCACCCCTCAAGTCTGGGGATGACCCCAGCTCCTGTGCCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTCGACCCCCCCCACCCCCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTGTCCCCAGTGCCCTCCCTTCTGTTTGTGCCCTCTCCCC
AATTCATTAAAGATTTCATGAAACATT

4435/5332
FIGURE 3862

GGCTCCCCCGCAGGCGGTAGCGAAGGCAGCAGCAGCGGTGGCGACATGAGCAGCGGGGCGGCGTCCGGGACAGGG
CGGGGGCGGCCCCGGGGCGGGGACCTGGGCCCCGGGGACCCCCCGCCAGCGAGACACACAAGCTGGTGGTTCGTG
GGCGGCGGCGGCGTGGGCAAGAGCGCGCTGACCATCCAGTTCATCCAGTCTACTTCGTGTCTGACTACGACCCC
ACTATTGAGGACTCCTACACGAAGATCTGCAGTGTGGATGGCATCCCAGCCCGGCTGGACATCCTGGACACCGCG
GGCCAGGAAGAGTTCGGGGCCATGAGAGAGCAGTACATGCGTGCTGGCCACGGCTTCCTGCTGGTGTTCGCCATT
AACGACCGGCAGAGTTTCAACGAGGTGGGCAAGCTCTTCACGCAGATTCTGCGGGTCAAGGACCGCGACGACTTC
CCCGTTGTGTTGGTCGGGAACAAGGCAGATCTGGAGTCACAGCGCCAGGTCCCCCGATCAGAAGCCTCTGCCTTC
GGCGCCTCCCAACACGTGGCCTACTTTGAGGCCTCGGCCAAACTGCGTCTCAACGTGGACGAGGCTTTTGAGCAG
CTGGTGCGGGCTGTCCGGAATAACAGGAACAAGAGCTCCCAACGAGCCCTCCCACTGCCCCCAGGAAGAAGGGC
GGGGGCTGCCCTGCGTCCTCCTGTAGCCCCAGGCAAGAGAGAAGCAACCACCACAAGCTCTCGGGACTAGCTGCC
TTCGCACCTTGCTGTGTGACCTGAGGCCCTCACTGAGCCTCAATTCCTCATCTGGGTCTCCCAGGACACATCAC
ATACCCACCCTTACTTCTGTCCTCTTCTGGGCTACTGCCACTGTGTGCCTTCTGCCAACGCCTCCTGTCCCCAC
CTAAGCCTGGTGGGGGTGAGGGCTCCGGGTCACTGCTGTATATAACTCCCTCCCCAGAAAAATAAATGTCAC
TGCCAACGTC

4436/5332
FIGURE 3863A

GTGGTTATGGAGCAGCTGCCGGGGGTGCCACCAGGCCCCCCCCACCCCGTTTCGACCGCCACCCCCGCCTCCACCA
CCCATGCCCTGCAGCTCGAGGCCACCTCCGCAGCCATGGCCTGGAGCCCGCGCCCCAGCCCCGCCTGCGA
CCCGAGGAGAGCCTGGATCCGCCAGGCGCCATGCAGGAATTGCTCGGGGCTCTGGAGCCGCTGCCCGCGCCT
GGGGATACTGGCGTAGGCCCCACAACTCGGAGGGCAAGGATCCCGCAGGCGCTACCGCAGCCCCAGCCGCAA
GGCACCAAGGCGCCGCTTTCGTGCCGCTCACCTCCATCTGCTTCCCTGACTCCTTGCTCCAAGACGAGGAGCGC
AGCTTCTTCCCCACCATGGAGGAGATGTTCCGTGGAGGGGCGCGGACGACTACGGCAAGGCCGGGCCACCTGAG
GACGAGGGGGACCCCAAGGCTGGCGCTGGGCCACCCCCGCCCCCTGCTTATGATCCCTATGGGCCCTACTGT
CCTGGCCGGGCGTCGGGAGCCGGGCCGAGACACCGGGCTGGGCTGGACCCCAACAAACCGCTGAAGTGGCC
TCCACGGTCAACGCCGAGCCGCTGGGCTGATCCAGAGTGGCECCACAGCGGCGCCACCACCCCCGCTCCG
CCACCGCCGCTCCCGCGCCGCTCCGAACCCAAGGGTGGCCTCACCTCGCCCATCTTCTGCTCTACCAAGCCA
AAGAAGCTGCTCAAGACATCTCTTCCACCTGCTGCGGCGCCGCGACCCACCTTCCAGACCCCCAAGAAGCTG
TACGCCCAGGAGTACGAGTTCGAGGCGGACGAGGACAAGGCCGATGTTCCCGCCGACATCCGCTCAACCCCCG
CGCTTGCCCTGACCTGGTCTCCAGCTGCCGCTCCCGTCCGGCCCTCTCGCCACTGGGGGACATCGACTTCTGCCCCA
CCCAACCCAGGACCCGATGGCCCCCGGCGCCGTGGCCGCAAGCCACGAAGGCGAAACGTGATGGGCCACCCCG
CCACGGGGGAGGCCCGGATCCGCCCCCTGGAGGTCCCGACCACTGCGGGGCGCCGCTCGGCTCCACGCCACC
GATGGCGCCAAGAAACCCCGGGGCGGGGCCGAGGCCGGGTGCAAAGGCTGAGGAGGAGGGGGACCCGGTTG
GAGCCCTGAAGCCACTTAAGATCAAGCTGTCTGTGCCAAGGCTGGCGAGGGTCTGGGAACCTCATCGGGTGAT
GCCATATCAGGCACTGACCACAACAGCCTGGACTCGAGCCTGACTCGGGAAGATCGAGGCCAAGATTAAAGGAG
GTGGAGGAGAAGCAGCCGGAGATGAAGTCGGGTTTCATGGCCTCCTTCTTGGAATTCCTCAAGTCAGGCAAGCGC
CACCCACCACTCTACCAGGCGGGCCTGACGCTCCGCTCAGCCCTCCCAAGAGTGTGCCACCCTCTGTGCCAGCC
CGAGGCTGCAGCCCCAGCCCCCTGCCACCCCTGCTGTGCCACATCCCCACCTTCCGGAGCCTTTGGGCTTGGG
GGCGCCCTGGAGGCTGCAGAGAGTGAAGGTCTGGGGCTTGGCTGCCCTTACCCTGCAAGCGGCTTGATGAGGAG
CTGAAGCGGAACCTCGAGACGCTGCCCTCCTTCTCCTCGGATGAGGAAGACTCTGTGCGCAAGAACCAGACCTG
CAGGAGAGCATCTCCTCCGCCATCTCTGCCCTCGATGACCCACCCCTTGCTGGGCCAAAAGACACTTCCACCCCA
GATGGGCGCCCTTGGCCCCCGGGCTGCAGTTCAGGGCCACCCCTCTTCCGGGGCTCCCCAGTGCCAACAGC
AATGGCACTCCCGAGCCCCCGCTGCTGGAGGAGAAACCECCACCCACTCCACCTCCTGCCCGACTCCTCAGCCT
CAGCCTCCGCCACCCCTCCGCCGCCACAGCCAGCCCTGCCCTCGCCACCCCGCTGGTGGCCCCACGCCAGC
TCACCACGCCACCGCCGCTGCCGCCGCCACCTCCACCAGCCATGCCCTCGCTCCACCACCACCCACCAGCC
GCTGCCCACTGGCTGCTCCTCCTGAGGAGCCCGCCGCCCGCTCTCCGAAGACCCCGAGCTGCCGGACACCCGG
CCCTGCACTTGCCAAAAAGCAGGAGACGGCGGCAGTGTGTGGGGAGACGGACGAGGAGGCCGGCGAGAGTGGC
GGAGAGGGCATCTTCCGGGAACGGGACGAGTTCGTATCCGTGCTGAGGACATCCCTTCCCTCAAGCTGGCGTTG
CAGACGGGGCGTGAACCCCCACCATCTGGCGAGTCCAGAAGGCCCTTCTGCAGAAATCACTCCGGAGATCAAG
GACGGCCAGAGGCAGTTTTGTGCCACCAGTAATTATTGGGGTATTTGGGGATGCAAAAAATCGGTACCAGCGC
CTCTATGTAAAGTTCTTGAAATGTCAATAAGAAGGACTACGTGAGGGTCTGTGCTCGGAAACCTGGCATCGG
CCCCAGTGCCAGTCAGACGCTCTGGGCAGGCCAAGAACCCGATCTGCTGGGGTAGCTCTGCACCTCCCCCT
AAGGCCCCAGCACCACTCCCAAGCCTGAGACCCCTGAAAAGACGACATCTGAGAAGCCCCAGAGCAGACTCCT
GAGACGGCCATGCCTGAGCCCCCTGCCCCCGAGAAGCCCTCCCTCCTGCGGCTGTTGAGAAGGAAAAGGAGAAG
GAGAAGGTGACACGTGGAGAGCGGCCATTGCGGGGTGAGCGGGCCACCAGCGGACGGCAGACACGGCCAGAGCGG
AGTCTCGCCACGGGACAACCTGCCACATCCCGGTGCCCAAAGCCCGGCTACCAAGGTGAAGGCTGAACCGCCC
CCTAAGAAGAGGAAGAAATGGCTGAAGGAGGACGGCGGCAACGCTACAGCAGGCGGGGGCCACAGGCAGCTCC
TCGGACTCGGAGTCTCCTCCCTGGAGCCCCACGAGGACGAGCGGGCAGTACCTGGGCGTCTGCTCAAAACCTCC
GCGATGCGGGAGATGTACCGAGCTACGTGGAGATGTTGGTGAGCACAGCACTTGACCCAGACATGATCCAGGCC
CTGGAGGACACGCATGACGAGCTGTACCTGCCCCCATGCGGAAGATAGACGGCTGCTGAATGAGCACAAGAAG
AAAGTCTGAAGCGGCTGTGCTAAGCCAGCCCTGCAGGATGCTCTGCACACGTTCCACAGCTGCAAGTGGAG
CAGAGTGGGGAGGGCTCTCCGGAAGAGGGGGCTGTGCGGCTGCGGCTGCTGGGGAACCTACAACCGCAAGACG
CTCAGCAAGCTCAAGAGGAGCGTGGTCAGAGCCAGGAGTTCAAGGTTGAGCTGGAAAAGTCGGGATACTATACA
CTCTACCATTCGCTCCACCACTATAAATACCACACCTTCTGCGCTGCCGGGACCAGACCTGGCCATCGAGGGC
GGCGCCGAGGACCTGGGCCAGGAGGAGGTGGTCCAGCAGTGCATGCGGAACCAGCCGTGGCTGGAACAGCTCTTT

4437/5332
FIGURE 3863B

GACTCCTTCAGTGACCTGCTGGCCCAAGCACAGGCCACAGCCGCTGCGGGTGACCCCGCCCCAGCTTGTGAGGG
GGGCGCCTCCTCCATGAACCGAGAATTGGGACAGAACCGTGTCTCAGGAGCTAACACCTGGGCTCCATCGCCGG
GGAAAGGGGGTCATGGGTCAGGGTGTGTCTGTGCTGCCCCCTCCAGGGCAGGGTTCAAAGTCCGACTCCCCCCT
CTCCAAGCCCCCTCCACTCCCTCCCCATTCCCTCCCACTGTTGCGGTGTACAGAGAAATTATTTATATATATGTAT
AAATGTCTATTTAGTAACGGTTTCCCTCTCCCCTTGCCCCGACCCCCCTCCACAGCCACAGCCCCGCCCCCTC
CACCTTGTACATAATGTATAGGAAAAGTCTATGTATGGCTGGGGGGGGTGGGGTGGCTTCAGAGAGCTGGGGGAC
CCCTTCCCCCAAGTCCCCCTGCAGGCCAAGATCTTTGCTAAAGGCCATTCCCTCCGCAGGGCATTGGCGTCG
GGTGGGAGGGGAAAACGCATCTTGTTAATTATTTTAACTTATTTATTGTACATACCTGGGGCAGGGGCTTGGG
GAGGTGGAGGGGGGAGAAGGGTCCCTCTCTGCCCCCTCCCACTCCTTTTCTACGGCGATTGTCTGTCTGTG
CCCCACCCACTGCCCATCCCCATTGTTGTCTGGATGTGGTTCTATTTTTATCGGTCTCCTTTCCCTCCTCC
CCGTTCTCGCCCCCGCCCCACCCCTGCTCCCACTACCCCTTGTCTCTTGCTCTTTCTTGGGCTTCTGTACAAC
CAACTTGTATACACTGTGTACACACAACCAGCCAAACGAAACCCAACGGCAAACACTTT

4438/5332
FIGURE 3864

GAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAATGGTGCGAT
CTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCATTTCAGCCTCCCGAGTAGCTGGGATTAC
AGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGGACACAGCG
GCCTCGGGCTATGGGACCCAGAACATTCGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTTGTCTCTCC
CTGCAGCCTTGCCACGATCCTGTTGTACCCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGGAGTACATT
CTGCACCAGAAGAAGGAGATTGCCCCGGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCGAGGAGCAG
AAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCGTGAGCCGG
CCCCTCAACCTTTTACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCAGTGTGGGT
CCTCCAAGTAAGGACAAGGACAAAGTGCTGCCCCAGCTTCTGGATCCCGTCGCTGACGCCCCAAGCCAAGGCCACC
AAGCTGGAGAAGCCGTCCCGCACGCTGACCTGCCCCATGTAGGGAAGCCCCCTGCGCATGTGCGACCTGACGCCC
GTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGGGGCTCATCACCCGCAGCGAGCGCTACGTGTGTGCC
GTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTACCCTCGAA
TGCGTGGAGAAGCTGATTGGAAGGACATGGTGGACCTGTGACTGGAGACAACTCACAGACCGCGACATCATC
GTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGCCGGTGATG
CAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGC

4439/5332
FIGURE 3865

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACCTAAGGA
GGCTTCCAGAAGATTTTGATTAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAATTCCCTGAGCGGCAG
ACACCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACCAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACCTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTCGTCTCTCAGCATGGGGGTCCCGCGGCCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCCGAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCTGGTATTGGGAGAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACCTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTGCGCCTGAACGGCGA
GGAGTTTCATGAATTTTCGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCCTGCTATTCTCCTGCCCGCACCGCCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCTCCGGAGCTGCAACTTCGGTTTCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCCT
AACAGTCAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCCCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCTGCCCCACCCAGGGGAGGCCAGGATGCTGATTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGCCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCCCTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTCTGGGCCTAGTTGTCCTCCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCC

4440/5332
FIGURE 3866

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTGAGACTGAGCGTGCCTACCAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCAGAAAGTTCTGAGGCTGGACATCGGCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

4441/5332
FIGURE 3867

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCTTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCGG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCGCGAAGGTGGTGGTCTGACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCTTCCCG
AGGCCCCTACCACCTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCCTGCTGCCCTCAAGGTCTGTCGTCTGAAGCCTACAAGAAAGTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTGTAAATCAGAAATAAATTGCTTTTAAAG

4442/5332
FIGURE 3868

GTCTCTGGCTGTCACCCGGCTTGGCCCTTCCACACCCAACTGGGGCAAGCCTGACCCGGCGACAGGAGGCATGA
GGGGCCCCCGGCCGAAATGACAGTGCTGGCGCCAGCCTGGAGCCCAACAACCTATCTCCTCCTGCTGCTGCTGCT
GAGCTCGGGACTCAGTGGGACCCAGGACTGCTCCTTCCAACACAGCCCCATCTCCTCCGACTTCGCTGTCAAAAT
CCGTGAGCTGTCTGACTACCTGCTTCAAGATTACCCAGTCACCGTGGCCTCCAACCTGCAGGACGAGGAGCTCTG
CGGGGGCCTCTGGCGGCTGGTCCTGGCACAGCGCTGGATGGAGCGGCTCAAGACTGTCGCTGGGTCCAAGATGCA
AGGCTTGCTGGAGCGCGTGAACACGGAGATACACTTTGTCACCAAATGTGCCTTTCAGCCCCCCCCCAGCTGTCT
TCGCTTCGTCCAGACCAACATCTCCCGCCTCCTGCAGGAGACCTCCGAGCAGCTGGTGGCGCTGAAGCCCTGGAT
CACTCGCCAGAACTTCTCCCGGTGCCTGGAGCTGCAGTGTGAGCCGACTCCTCAACCCTGCCACCCCATGGAG
TCCCCGGCCCCCTGGAGGCCACAGCCCCGACAGCCCCGACAGCCCCCTCTGCTCCTCCTACTGCTGCTGCCCGTGGG
CCTCCTGCTGCTGGCCGCTGCCTGGTGCCTGCACTGGCAGAGGACGCGGCGGAGGACACCCGCCCTGGGGAGCA
GGTGCCCCCGTCCCCAGTCCCCAGGACCTGCTGCTTGTGGAGCACTGACCTGGCCAAGGCCTCATCCTGCGGAG
CCTTAAACAACGCAGTGAGACAGACATCTATCATCCATTTTACAGGGGAGGATACTGAGGCACACAGAGGGGAG
TCACCAGCCAGAGGATGCATAGCCTGGACACAGAGGAAGTTGGCTAGAGCCGGTCCCTTCCTTGGGCCCTCTC
ATTCCCTCCCCAGAATGGAGGCAACGCCAGAATCCAGCACCGGCCCATTTACCCAACCTCTGTACAAAGCCCTTG
TCCCCATGAAATTGTATATAAATCATCCTTTTCTACCA

4443/5332
FIGURE 3869

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGAATGGGCGGGCTGTTC
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCCATGGGAGTAATTGGCCTCATCCTGCCACCCACATTCTCCTTCTTGAGA
TGATGTGGAGGATTGCCCCGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCGGCCTCCCCGGCGC
CCCTCCTCCTGGCCAGCTGGCGGGGAGCTGGGCCCTTCCCGGAATCCTGAATGTCCTCAGTGGCCCTGCGT
CCCTGGTGGCCATCCTGGCCTCCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTGCCTGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGGACGCCCTGGTCCGACCGCGGCCCGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCAGAGCCAGGGTGACAGGTGTTCCAGGCTGGTGTGCTTTCGGAACGCCATTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTCTGTGGCCT
CCCCCTTCCGCACAGCCAAGGAGGCACTGTTGGTGGCAACGGGACGCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTCTGGCACGGGGGCCAGACGGGTGT
ATGAGTATCTGCGGCCCTCAGGAGCCCTGCCCGCTGTCTGCCTCTCCAAGAACCTGAACTATGACACCTTG
GCCTCGCTGTTCCCTCAACCCTGCCGCTGGGCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCCGTTTCCAGGCTCCTGGGGCCGAAGCTCCAGGCCATCCGGGATTCTGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGCTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCCTGG
CCTCGAGGCTGGAGAGGCGAGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGGTGCAGGCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCTGCTTGCCCTTCGTGTCCCTGCTGG
CTCCCGCCCTGGCCTACGGCAACACTGTGGTCATGGTGGCCAGTGGCGCCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCCAGGGTTCCAGTTTGTTCAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGGCCTGGGACCAGGAGGCCAGGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGACTGATGCCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACCACACCTGGCTCGAGGCCATTTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTTGTGAAACAGAGAAAGGGGACCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTGCTCTGTGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACTCTCTGGAATAAAATTAAAGTCCTCCT

4444/5332
FIGURE 3870

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCCG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTTCGGATCCTGGGCAAAGTTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTCCG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTTGACGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCC
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAACTGGATGGAGCCCTGGGGCTGTGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTT

4445/5332
FIGURE 3871

CCCAC TTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCCCAGATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGGCCGCCGAAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGAAGACCCG
AACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCGAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTTCAGACAATGGCAACCATGTCTCTGCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAAACTGGGTCCCACTGGTCTCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTACCTTGTCAGTACTCCCCATCTACTGA
CCTCCCAGGGTACGAGCCCCCCCCAAGCCCTCTCACCCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTC
TTACCAGAGGCACCTGTTCTGTCACATCAGCCAGCACTGCCCCAGCCCCGAGCGCCGCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATTCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA
TGCCTTCTTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGGCCGGTGGCAG
CATCAGCAGTGGTGGCTTCTACGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCTCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGCAGATT
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTTGAAAACTTCACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT
GCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCCAGCATCACATTTACCGCCTGGT
CAGGGACTGAAGGGGGACCCCCAAAACCTGGCTCACCCCCAGAACACCCTCCTCCCAGGGAGGGTCTCTCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCCCATTAGAGGGGGCCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTTCAGCCCCTGACAGGCCACCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCCTTTACTTTTTTCCAGCCACCCCTCCCCCTGAAATTTCTGCCCT
CTCTACCACCTCACTCCATGACCTGTGAGATCACAAGTGAAGATGAACCCTTCTGTGCAGGAGCAGAGCCAG
GTGGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCGCTGCACAAGCAGTGTGTTGAACTTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCTTCCCCTCTCAAAGTTGTTTGTGTTCTGACAGAGGATAAAGCTATTTTACC

4446/5332
FIGURE 3872

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCTCTTCGTTTTCAACCTCTTCTTCTTCGTCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATTGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTGCCACACAGATCACCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCAGCTGCGCTGCTGCGGC
TGGCACTACCCGAGGACTGGTTCCAAGTCCTCATCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACCTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCTGTGCAGAAACCTGGACCACGTCTACAACCGGGCTCGCTCGA
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTACCTCTCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTGGGCCTAC

4447/5332
FIGURE 3873A

GAGGGAGCGCCGGGGCCCTGGGCTGCAGGAGGTTGCGGCGGCCGCGGCAGCATGGTGGTGCCGGAGAAGGAGCAG
AGCTGGATCCCCAAGATCTTCAAGAAGAAGACCTGCACGACGTTTCATAGTTGACTCCACAGATCCGGGGAGCCTG
GATTGTCACTGGGGGTCTGCACACGGGCATCGGCCGGCATGTTGGTGTGGCTGTACGGGACCATCAGATGGCCAG
CACTGGGGGCACCAAGGTGGTGGCCATGGGTGTGGCCCCCTGGGGTGTGGTCCGGAATAGAGACACCCTCATCAA
CCCCAAGGGCTCGTTCCCTGCGAGGTACCGGTGGCGCGGTGACCCGGAGGACGGGGTCCAGTTTCCCTTGGACTA
CACTACTCGGCCTTCTTCTGGTGGACGACGGCACACACGGCTGCCTGGGGGGCGAGAACCCTTCCGCTTGCG
CCTGGAGTCTTACATCTCACAGCAGAAGACGGGCGTGGGAGGGACTGGAATTGACATCCCTGTCTCTCTCTCT
GATTGATGGTGTATGAGAAGATGTTGACGCGAATAGAGAACGCCACCCAGGCTCAGCTCCCATGTCTCTCTCTCT
TGGCTCAGGGGGAGCTGCGGACTGCCTGGCGGAGACCCTGGAAGACACTCTGGCCCCAGGGAGTGGGGGAGCCAG
GCAAGGCGAAGCCCCGAGATCGAATCAGGCGTTTCTTTCCCAAGGGGACCTTGAGGTCTGCAGGCCAGGTGGA
GAGGATTATGACCCGGAAGGAGCTCTGACAGTCTATTCTTCTGAGGATGGGTCTGAGGAATTCAGACCATAGT
TTTGAAGGCCCTGTGAAGGCCCTGTGGGAGCTCGGAGGCCTCAGCCTACCTGGATGAGCTGCGTTTGGCTGTGGC
TTGGAACCGCTGGACATTGCCAGAGTGAACCTTTTCGGGGGACATCCAATGGCGGTCTTCCATCTCGAAGC
TTCCCTCATGGACGCCCTGTGAATGACCGGCTGAGTTCTGTGCGCTTGCTCATTTCCACGGCCTCAGCCTGGG
CCACTTCTTGACCCGATGCGCCTGGCCCAACTCTACAGCGCGCGGCCCTCCAACCTCGCTCATCCGCAACCTTTT
GGACCAGGCGTCCACAGCGCAGGCACCAAAGCCCCAGCCCTAAAAGGGGGAGCTGCGGAGCTCCGGCCCCCTGA
CGTGGGGCATGTGTGAGGATGCTGCTGGGGAAGATGTGCGCGCCGAGGTACCCCTCCGGGGGCGCCTGGGACCC
TCACCCAGGCCAGGGCTTCGGGGGAGAGCATGTATCTGCTCTCGGACAAGGCCACCTCGCCGCTCTCGCTGGATGC
TGGCCTCGGGCAGGCCCCCTGGAGCGACCTGCTTCTTTGGGCACTGTTGCTGAACAGGGCACAGATGGCCATGTA
CTTCTGGGAGATGGGTTCCAATGCAGTTTCTCTCAGCTCTTGGGGCCTGTTTGCTGCTCCGGGTGATGGCACGCT
GGAGCCTGACGCTGAGGAGGCAGCACGGAGGAAAGACCTGGCGTTCAAGTTTGAGGGGATGGGCGTTGACCTCTT
TGGCGAGTGCTATCGCAGCAGTGAGGTGAGGGCTGCCGCCCTCCTCCTCCGTGCTGCCCCGCTCTGGGGGGATGC
CACTTGCCCTCCAGCTGGCCATGCAAGCTGACGCCCCGTGCTTCTTTGCCCAGGATGGGGTACAGTCTCTGCTGAC
ACAGAAGTGGTGGGGAGATATGGCCAGCACTACACCCATCTGGGCCCTGGTTCTCGCCTTCTTTTGCCCTCCACT
CATCTACACCCGCTCATCACCTTCAGGAAATCAGAAGAGGAGCCACACGGGAGGAGCTAGAGTTTGACATGGA
TAGTGTCATTAATGGGGAAGGGCCTGTGCGGACGGCGGACCCAGCCGAGAAGACGCCGCTGGGGGTCCCGGCCA
GTGCGGCCGTCCGGGTTGCTGCGGGGGCCGCTGCGGGGGGCGCCGGTGCTACGCCGCTGGTTCCACTTCTGGGG
CGCGCCGGTGACCATCTTCATGGGCAACGTGGTCACTACCTGCTGTTCTCTGCTGCTTTTCTCGCGGGTGCTGCT
CGTGGATTTCCAGCCGGCGCCGCCCGGCTCCCTGGAGCTGCTGCTCTATTCTGGGCTTTACAGCTGCTGTGCGA
GGAAGTGCGCCAGGGCCTGAGCGGAGGCGGGGGCAGCCTCGCCAGCGGGGGCCCCGGGCTGGCCATGCCTCACT
GAGCCAGCGCCTGCGCCTTACCTCGCCGACAGCTGGAACAGTGCGACCTAGTGGCTCTCACCTGCTTCTCCTCT
GGGCGTGGGCTGCCGGCTGACCCCGGTTTGTACCACCTGGGCCGCACTGTCTCTGCATCGCACTTTCATGGTTT
CACGGTGC GGCTGCTTACATCTTACGGTCAACAAACAGCTGGGGCCCAAGATCGTCATCGTGAGCAAGATGAT
GAAGGACGTGTTCTTCTTCTTCTTCTTCTTCTCGGCGTGTGGCTGGTAGCCTATGGCGTGGCCACGGAGGGGCTCCT
GAGGCCACGGGACAGTGACTTCCCAAGTATCCTGCGCCGCGTCTTCTACCGTCCCTACCTGCAGATCTTCGGGCA
GATTCCCCAGGAGGACATGGACGTGGCCCTCATGGAGCACAGCAACTGCTCGTGGAGCCCCGGCTTCTGGGCACA
CCCTCCTGGGGCCAGGCGGGCACCTGCGTCTCCAGTATGCCAACTGGCTGGTGGTGCTGCTCCTCGTCATCTT
CCTGCTCGTGGCCAACATCCTGCTGGTCAACTTGCTCATTGCCATGTTTCACTTACACATTTCGGCAAAGTACAGGG
CAACAGCGATCTCTACTGGAAGGCGACGCTTACCGCCTCATCCGGGAATTCCTCTCTCGGCCCGCTGGCCCC
GCCCTTTATCGTCATCTCCACTTGCCTCCTGCTCAGGCAATTGTGACGGCGACCCCGGAGCCCCAGCCGTC
CTCCCCGGCCCTCGAGCATTTCCGGGTTTACCTTTCTAAGGAAGCCGAGCGGAAGCTGCTAACGTGGGAATCGGT
GCATAAGGAGAACCTTTCTGCTGGCACGCGTAGGGACAAGCGGGAGAGCGACTCCGAGCGTCTGAAGCGCACGTC
CCAGAAGGTGGACTTGGCACTGAAACAGCTGGGACACATCCGCGAGTACGAACAGCGCCTGAAAGTGTGAGCG
GGAGGTCCAGCAGTGTAGCCGCGTCTGGGGTGGGTGGCCGAGGCCCTGAGCCGCTCTGCTTGTGCCCCAGG
TGGGCCGCCACCCCTGACCTGCCTGGGTCCAAAGACTGAGCCCTGCTGGCGGACTTCAAGGAGAAGCCCCACA
GGGGATTTTGTCTCTAGAGTAAGGCTCATCTGGGCTCGGCCCGCACCTGGTGGCCTGTCTTGAAGGTGAGC
CCCATGTCCATCTGGGCCACTGTGAGGACCACCTTTGGGAGTGTATCCTTACAAACCACAGCATGCCCGGCTCC
TCCAGAACCAGTCCAGCCTGGGAGGATCAAGGCTGGATCCCGGGCCGTTATCCATCTGGAGGCTGCAGGGTGC

4448/5332
FIGURE 3873B

CTTGGGGTAACAGGGACCACAGACCCCTCACCCTCACAGATTCCTCACACTGGGGAAATAAAGCCATTTCAGAG

G

4449/5332
FIGURE 3874A

GTGGGATTTGGGGGGCGCTGGTGGGCACCCCTGGATCTGGCGGCTGCGGCCTCGCGGGGGAGGCTGATCGGTGA
CAGGGGCAGGGGGCTATTTTGGGGGTAGAAGGCAGTGAGAGCGTGAGGGGGAGGGGGGTCCCCAGCGCCCAAGCC
GGAGCCAGAGACGCGGAGCCCGCGCGAGCGTCGGAGACAGGGCTCCAGGGCTCCGAAGCGACAGAGCCGGGCCCC
GGCCGCTGCCAGGGGGCCCCGCGCGCCCCCACTCCACCCACGTCCTCCTGCAGCCAGCTCCGCCCCGAGC
CGCCGCGGACCAGGCAGGCCCGCACCCGCCCATGATGTGCGAGGTGATGCCCACCATCAGCGAGGATGGCCGGC
GGGGCTCGGCGCTGGGCCCGGACGAGCGGGCGGGGAGCTGGAGCGCCTCATGGTCACGATGCTCACGGAGCGCG
AGCGCCTGCTGGAGACGCTGCGCGAGGCACAGGACGGGTGGCTACAGCGCAGCTGCGGCTGCGCGAGCTCGGCC
ACGAGAAGGACTCGCTGCAGCGCCAGCTCAGCATCGCGCTGCCCCAGGAGTTTGCAGCTCTGACGAAGGAGCTGA
ACTTATGTGCGGAGCAGCTGCTGGAGAGGGAGGAAGAGATTGCAGAGCTGAAGGCGGAACGGAACAACACGCGGC
TGCTCCTGGAACACCTGGAGTGCCTGGTGTCCAGGCACGAGAGGTCACTGCGCATGACCGTGGTGAAGCGCCAGG
CCCAGTCCCCGGGTGGGGTCTCCTCGGAGGTAGAAGTGCTCAAAGCTCTAAAGTCTCTCTTCGAGCACCACAAGG
CCCTGGATGAGAAGGTCCGGGAGCGGCTGCGGATGGCGCTGGAGCGCGTGGCAGTGCTCGAGGAGGAGCTGGAAC
TGAGCAATCAGGAGACTCTGAACCTTCGAGAACAGCTGTCTAGGCGGCGGTGAGGGCTGGAAGAGCCGGGCAAGG
ATGGGGATGGGCAGACTCTTGCCAATGGCCTGGGTCTGGCGGGGATTCCAACCGGCGCACAGCAGAGCTGGAGG
AGGCCCTGGAGCGGCAGCGCGCCGAGGTGTGCCAGCTGCGGGAGCGCCTGGCGGTGCTGTGCCGTGAGATGAGCC
AGCTGGAGGAGGAGTTGGGCACCGCGCACCGTGAGCTGGGCAAGGCAGAGGAAGCCAACCTCCAAGCTGCAGCGCG
ACCTCAAGGAGGCGCTGGCGCAGCGGGAAGATATGGAGGAGCGGATTACAACACTGGAGAAGCGCTACCTGAGCG
CCCAGCGGGAGGCCACGTCTCTGCACGACGCCAACGACAACTGGAGAACGAGTTAGCTAGCAAGGAGTCGTTGT
ATCGGCAGAGTGAAGAGAAGAGCCGTGAGCTGGCCGAGTGGTTGGACGACGCCAAGCAGAAGCTGCAGCAGACGC
TGCAGAAAGCGGAGACCTTGCCCGAGATAGAGGCGCAGCTGGCGCAGCGCTGGCGGGCGCTCAACAAGGCCGAGG
AACGTCATGGGAATTTTGGAGAGCGGCTTCGGCAGCTGGAGGCCAGCTGGAAGAGAAGAATCAAGAGCTGCAGC
GGGCCCCGGCAGCGGGAAGATGAACGATGACCACAATAAGCGGCTGTCCGAGACGGTGGACAAGCTGCTGAGCG
AGTCCAACGAGCGCTTACAGCTTCACTCAAGGAGCGCATGGGGGCGCTGGAGGAGAAGAACTCCCTGAGCGAGG
AGATAGCCAACATGAAGAAGCTTCAAGATGAGTTGCTGCTAAACAAGGAGCAGCTCTTGCCGAAATGGAGCGGA
TGCAGATGGAGATCGACCAGCTGCGGGGGAGGCCACCATCCTCTACTCCAGGTCTCTCCCTGGCAGTGCCCTGG
AGCTCCGTTACTCTCAGGCACCCACTTTACCTTCTGGTGCCACCTGGATCCCTATGTGGCTGGCAGTGGTCCGG
CAGGCAAGAGGGGCGCTGGTCAAGGGTCAAGGAGGAGCCCTCCAAGGATTGGGAGCGGTCTGCCCCCTGCGGGCT
CCATACCACCCCATTCCTTGGGGAAGTGGACGGCTCCGATGAGGAGGAGGCAGAGGGGATGTTTGGGGCCGAGC
TGCTGTCCCCAGTGGGCAGGCTGACGTGCAGACGCTGGCCATCATGCTTCAAGGAGCAGCTGGAGGCCATCAACA
AGGAGCTCAAGTGATCCAAGAGGAGAAGGACAACAGAACAGAGGGCAGAGGAGCTGGAGAGTCGGGTGTCCA
GCTCTGGCTTGGACTCGTTGGGCCGCTACCGCAGCAGCTGCTCCCTGCCCCCTCCCTCACCACCTTACCCTTG
CCAGCCCTCCCTCCAGCTCTGGCCACTCAACACCCGCTGGCACCCCTAGCCCTGCCGTGAGGGCACCG
ACAAGGCTAATCATGTCCCTAAGGAGGAAGCTGGAGCTCCACGAGGGGAGGGGCCGGCCATCCAGGAGACACCC
CACCACCCACTCCCGCTCTGCCCGTCTTGAGAGAATGACCCAGGCCCTTGGCACTGCAGGCGGGTCCCTGGAAG
ATGGGGGACCCCAAGGGAAGTGAGGGCACCCAGATTCTCTGCACAAAGCCCCAAGAAGAAGAGCATCAAGT
CATCCATAGGCCGTCTCTTGGCAAGAAAGAGAAGGGACGAATGGGACCCCAAGGCCGGGACAGCTCTTCTCTGG
CTGGAACACCCTCAGATGAGACACTGGCCACTGACCCTCTGGGCTAGCCAAGCTGACAGGCCAGGAGACAAGG
ACCGAAGGAACAAGAGGAAGCATGAACTCCTGGAGGAGGCCGCCGCCAGGGCCTACCTTTTGCTGCCCTGGGACG
GGCCACCGTGGTGTCTTGCTGGCTGGAGCTGTGGGTGGGCATGCCCTGGCTGGTATGTGGCCGCTGCCGGCCAATG
TCAAGAGCGGTGCCATCATGGCCAACCTGTGACACAGGAGATCCAGCGCAGATCGGCATCAGCAACCCGCTGC
ACCGACTCAAGCTACGCCCTGCCATCCAGGAGATGGTCTCGCTCACTCGCCCTCAGCCCCGCGCTCTCCCGCA
CTTCCACAGGAAACGTGTGGATGACACACGAGGAGATGGAGTCCCTTACGGCCACGACCAAGCCCCGAGACCAAGG
AGATCAGCTGGGAGCAGATCCTGGCATATGGCGACATGAACCACGAGTGGGTGGGGAACGACTGGCTGCCAGCC
TGGGGCTGCCCCAATACCGCAGCTACTTTCATGGAGTCGCTGGTGGACGCTCGAATGTTAGATCACCTTAACAAGA
AGGAGCTCCGGGGCAACTCAAGATGGTGGACAGCTTTCACAGGGTGAGTCTACATTATGGGATTATGTGCTGA
AACGGCTCAACTATGACCGGAAGGACCTGGAGCGGAGGCGGGAAGAAAGTCAGACCCAGATCCGAGACGTGATGG
TGTGGTCCAATGAGCGGTGATGGGTGGGTGTCCGGGCTGGGCTGAAGGAATTTGCCACGAACCTCACGGAGA
GCGGGGTACACGGGCACTGCTCGCCCTGGACGAGACCTTCGACTACTCCGACCTGGCCTTGCTCCTGCAGATCC

4450/5332
FIGURE 3874B

CCACGCAGAATGCACAGGCCCGGCAGCTTCTGGAGAAGGAATTCAGCAACCTTATCTCCTTAGGCACAGACAGGC
GGCTGGACGAGGACAGCGCCAAGTCTTTCAGCCGCTCCCCATCCTGGCGGAAGATGTTCCGGGAGAAGGACCTCC
GAGGCGTA~~ACT~~CCCGACTCAGCTGAGATGTTGCCCCCAACTTTCGTTTCGGCTGCAGCGGGAGCCCTGGGCTCTC
CGGGGCTCCCTCTCCGCAAGCTGCAGCCAGAAGGCCAGACTTCTGGGAGTTCCCGGGCAGACGGCGTTTCGGTCC
GGACCTATTCTGCT~~AGT~~GCAGGCCTCCAGGTGACCTCACTCGGACGGAAGAATCTTCCCGAGGCTGGGCTGTTT
CCTCTCCTGCCCCGACTGTGGCCTCGCCGGGGAGAGCGGGCGGGGGAGCTCGCGCCGAGGACTGGACCATCTGTA
CAGACCAGCGGGAGTGCGCGCGCCCGCCTCGCACAGGGCCGGGGCCTGGACCAAACCACATGAACTGGACTGAGA
GGGGGAAGAAGCGGGGAGGAAGAAATCCCGCCCCAAACGTCCGCTTTCCTTTCTCTACTTTGTAATTTATTGAT
CAGTTTCTGTTGGGAGACGGGTGTCCTTTACCCGCGGGAAGGGGGCGGGGCTTCCCTCCCGGGCCGCATGCGGGG
AGAGGCTGCTCCCTCCCTTTTTCTGCCCAGTCGCGGGGCCCAAGTCTTCCTTCTTCGTCCGAAAGGAGGGGAG
GGGGGACTCGCTGCTACAAGCCTCGCCCCCTGTGCCACTCAGCTCCGCCCCGCCGCTCCGGTCGCCGGTCCCCC
GGGTATCTGCGGGCGGGTTCCCTCTCCCTCCCCCGTGTCTCGTGTCCCCGGGGCCTCACCGCCCCCGTGTCTG
TGGCCGTGTCCGTGCCCCGGGGGTAGGGGGCGCAGAATGGCGCTTCCCTTCTCCTCTGGCTCCGGGGTTTGAT
GGGAGAATCCTCTTTCCACGATGCCGCTGGGCGACGTGGCGTGGGGGCAGGGGGACGGTGGGGGAGCCCTCGCCC
CCGACTCTCGGTTCGGCTCCCCGCCCCAGGCGTCACTCAGTGATCACGGGTAAAGAGAACTGTTTC

4451/5332
FIGURE 3875

CATGGCTGCGCTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTGTCCCGGGCGGTTGAGCTCCTCGAGCGGCTCCA
GCGCAGCGGGGAGCTGCCGCCGAGAAAGCTGCAGGCCCTCCAGCGAGTTCTGCAGAGCCGCTTCTGCTCCGCTAT
CCGAGAGGTGTATGAGCAGCTTTATGACACGCTGGACATCACCGGCAGCGCCGAGATCCGAGCCCATGCCACAGC
CAAGGCCACAGTGGCTGCCTTCACAGCCAGCGAGGGCCACGCACATCCCAGGGTAGTGGAGCTACCCAAGACGGA
TGAGGGCCTAGGCTTCAACATCATGGGTGGCAAAGAGCAAACTCGCCCATCTACATCTCCCGGGTCATCCCAGG
GGGTGTGGCTGACCGCCATGGAGGCCTCAAGCGTGGGGATCAACTGTTGTCGGTGAACGGTGTGAGCGTTGAGGG
TGAGCAGCATGAGAAGGCGGTGGAGCTGCTGAAGGCGGGCCAGGGCTCGGTGAAGCTGGTTGTCCGTTACACACC
GCGAGTGCTGGAGGAGATGGAGGCCCGGTTGAGAAGATGCGCTCTGCCCGCCGGCGCCAACAGCATCAGAGCTA
CTCGTCCTTGGAGTCTCGAGGTTGAAACCACAGATCTGGACGTTACGTGCACTCTCTTCCTGTACAGTATTTAT
TGTTCTGGCACTTTATTTAAAGATATTTGACCCTC

4452/5332
FIGURE 3876

AAGTACCTATTGGATCACCAGCTGTGTGCCGGGCTTCTAGTTGAGCAACACAGAGGCAGCCTCTGCCCTCTGAGC
CTCCTGCATTTCGGTCTCCTCATTGTCAATTTGCTGTCTCAGGCAAGGTCAGTTTGGCTGCAAGTATCAGAAATAAA
CTTGAGCTTCCTGAAACATAAAGGGCCCTGTTGATGTAGAATCATGGGCATCCTTTGGAGTTCGGAGGTATGTGA
TGTCCTGGACCTGAGAACCTGGTAGCTGACGCTGTTAAGAGCTGGGGCAACCAGGCCAGGCGTGGTGGCTCGCC
TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGTTCGAGACCAGCCTGGCCAAGAT
GTTGAAACCGCATCTCTACTAAAAATACAAAAATTAAGTGGGCGTGGTGGCGGGTGCCGTGAATCCCATCTACTC
GGGAGGCTGAGGCAGAGAATTGCTTAAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATAGAGTCACTGCATTC
CATCCAGCCTGGGTGCCAGAGCAAGACTCTGTCTCAAAAAAACAACAAAAAACAACAAAAAAGTGGGGCGACCCAC
CTGTGATGTGTGACAGCCACAGCTTGCTTCTGCCCTCGTTTGCTTCCATGCAGCTAGGTCGGTCCCATGCCTCTT
TGCATGGCCAGCGCAGCAGGCCACAGGCCAGCTTTACACTCAGTCCTGGATGAGTCTCTTGTTCGGGGTG
GGCACATTTGATTGACTCAGTGTTGGGCTGGGGTCTGTGTGCTCAGGCATGCTTATTGAGGACTGAATCCTGCA
AAGCTGAGTGACAGTTGTGAGAGAAGATGATGGTCCCTGGGCGAGACACCCAGGCAGTAGTAGCCACTTGGGGCTC
CTGTCTGCTCCCTCCAGCCCTGTGTCTGGCTCTGGACTCGCCTGTGCTAGGGAGACCACGCTCTCAGCTGCTGAG
CCTCGGAGCTTACCAGGCATGTTCTTACCTTACTCTGGTCTCTCTGGGGTGGAGTGGGTCTTATAGCTCTGCTG
TTTCTGTGGGGCGGGAAAATGCTAGAATCTCAGTCTTCCAGAATCTCAGAATCTTCTAGTTCAATTGCCATT
CAAACCTTTTTGTGGTGTAGCCAATAACATCTTGACTCGGTGCACCCGAGAAATACTGTAACTAAAGTTTGA
GGAAACAGTTTTTTCTATGTAGTAAGTATATAGTTGTATTCTGCTGTTTTGTTTCTTAAGATGTTGGTTGCAACC
CATCAGATTGATGATGGGACTCATTTCTGGGTCTGACCTGAATATAGGAAAGGCTAGTCTAGCTGCCCTGTGCC
TGTGACATGGCAGGTGCTTGGTCCGCTGCTGCTTCTATAAGAATGTCTCCCTGCAGCCTCTTTCTATACAGAA
CTCAGCCCTGCCCTCACGGAAGCTTTTCCAGGCAGTGCAGATAGAGGAGCGCTTGAGAAGGCAGGTTTGCAGCA
GACGGCAGTGACAGCCAGTTCTGCACCTTCTTTGCTGAGTCACTGTGGGCCAGTGACTTGATCTGAGATTGTTT
CCCCATCAGAACCATGAGGTTATCATCTGTGCCTTGGGGCTGTTCATCTATCTATTCACTTGACACACACATC
CACCTTTCTATACCAGCTGCAGCGCCACCTGCTGGTACCGTGAGCAAGAGCTGGGCATGCCACGTTCCGGTGC
CCTGCAGTCTGGTGGGAGAGGCAGGTAGGGGTCGACTCAGGTAGCAAACCTGAAACTCCAGGGGAAGGAAGCGTT
TCTGCAACTGTGAGTACATAGGACTGTGAGGAGAGACTTCCCGAGAAAGGATGTTCCGGCTAGCGTTAAGGGTGA
GCGTGAGTTCACCAGAGAAGGAAGGGGAGACCAGTCCAGGGCAAGGAGAATGCACAGACACTGGCAGGAAGGTGA
GCGTGGGGACACTGGGAAAGGCCTGGGACACGCAGCCAAGAGCCGCGCTCAGACGCTAGCAGGGCCCGCTCTTG
CTGCCTCTACCACAGTTGACGAGGAGTTTGGACCTTAGGCTGGGGGACGCCAGCAAAGGCTTCTAAGCAGATCA
CATTTTTGGGTGGAAGATCATTGGCTTCGGGTTTTCTGTGAGGGCGAGGATGATTGGAAGGGAGGGTTTTGAGGA
GGCTGTGAAGTGCCTATGGTTAAGATGATGCGCTTTGGGGCCAGACATGGGTTCCAGTAACGGCTGTTGCCTAG
CGAACGCTTTGTGTGAGTTAATTAGAGAAGACGTGGCTGTCTTGTGATGGGAGTGCAGCGGATGAAGTGCACGGG
GGGACCCGGCCCTGTGAACACTAAGCCAGGGGCTGCCTTCCCTGCCCTTTGCTCTTGGAGTGGGCTCATTTCTGCT
CCTCCGGGCCCTGTCCCTGCCAGATTACCCCTCTGTCCGTCTGCCCTGCCCCAGGAGGAGGCTCGGTGGTACC
AGAAGAGGAGGGGCTGATGTGAACATCCGGCATTAGGCCGCGATGACACCTCCCGCTACGATGAGAGGCCCGGC
CCCTCCCCGCTTCCGCACAGGGACCGGGACCGGGACCGTGAGCGGGAGCGCAGAGAGCGGAGCCGGGAGCGAGAC
AAGGAGCGAGAACGGCGACGCTCCCGCTCCCGGGACCGGCGGAGGCGCTCACGGAGTCGCGACAAGGAGGAGCGG
AGGCGCTCCAGGGAGCGGAGCAAGGACAAGGACCGGGACCGGAAGCGGCGAAGCAGCCGGAGTCGGGAGCGGGCC
CGGCGGGAGCGGGAGCGCAAGGAGGAGCTGCGTGGCGGCGGTGGCGACATGCGGGAGCCCTCCGAGGCGGGTGAC
GCGCCCCCTGATGATGGGCCTCCAGGGGAGCTCGGGCCTGACGGCCCTGACGGTCCAGAGGAAAAGGGCCGGGAT
CGTGACCGGGAGCGACGGCGGAGCCACCGGAGCGAGCGAGCGGCGCCGGGACCGGGATCGTGACCGTGACCGT
GACCGCGAGCACAAACGGGGGGAGCGGGGCAGTGAGCGGGGCAGGGATGAGGCCCGAGGTGGGGCGGTGGCCAG
GACAACGGGCTGGAGGGTCTGGGCAACGACAGCCGAGACATGTACATGGAGTCTGAGGGCGGCGACGGCTACCTG
GCTCCGGAGAATGGGTATTTGATGGAGGCTGCGCCGGAGTGAAGAGGTCGTCTCTCCATCTGCTGTGTTTGGAC
GCGTTCTGCCAGCCCTTGTGTCTATCCCTCCCCAACCTTGGCCACTTGAGTTTGTCTCCAAGGGTAGGT
GTCTCATTTGTTCTGGCCCTTGGATTTAAAAATAAAATTAATTTCTGT

4453/5332
FIGURE 3877

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACCTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACCTGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCCGCTCCTTCACACGCGCCCGGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCACTAATCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTCAATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCCCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTGAGTTGGATGTCATCCCCCGAC
CCCACCCTGTTTCCACCAGAGTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

4455/5332
FIGURE 3879

ACCATAAAAGAAGCCGCCCTAGCCACGTCCCCTCGCAGTTCGGCGGGTCCCGCGGGTCTGTCTCTTGCTTCAACAG
TGTTTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACCGCCCTCCGATTTCCTCTCCGCTTGCAACCT
CCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAGCACCGTTTTTGTGGTTAGCTCCTTCTTGCC
AACCAACCATGAGCTCCCAGATTTCGTCAGAATTATTCCACCGACGTGGAGGCAGCCGTCAACAGCCTGGTCAATT
TGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTGACCGCGATGATGTGGCTCTGGAAGGCG
TGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCCTGAAGATGCAAAACCAGC
GTGGCGGCCCGCGCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTGGGGTAAAACCCAGACGCCATGA
AAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGGATCTTCATGCCCTGGGTTCTGCCCCGACGG
ACCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGGAAGTGAAGCTTATCAAGAAGATGGGTGACC
ACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGGGCGAGTATCTCTTCGAAAGGCTCACTCTCA
AGCACGACTAAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGC
CTCTCCCTCCAGCCAATAGGCAGCTTCTTAACTATCCTAACAAGCCTTGGACCAATGGAAATAAAGCTTTTTTG
ATGC

4456/5332
FIGURE 3880

ATGGACGGGTCGGGGAGCAGCCCAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTT
TTGCCTTCAGGGTTTTTCATCCAGGATCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTG
CCTCAGGATGCGTCCACCAAGAAGCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACTGGACAGTAACATGGAG
CTGCAGAGGATGATTGCCGCCGTGGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTT
TCTGACGGCAACTTCAACTGGGGCCGGGTTGTCGCCCTTTTCTACTTTGCCAGCAAACCTGGTGCTCAAGGCCCTG
TGCACCAAGGTGCCGGAACATGATCAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGC
TGGATCCAAGACCAGGGTGGTTGGGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCC
CCTGCCCCACCGTCCCTGCCCCCGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTACAGTGGTGCCCT
CTCCCCATCTTCAGATCATCAGATGTGGTCTATAATGCGTTTTCTTACGTGTCTGA

4457/5332
FIGURE 3881

ATAAGTGGGCGTGGTCTAGGGGGGAAGTCACCAAGAACGCACCGGAGGTCTTGCCCGCCCTGGAAAACGCCCTC
TGCGGTGAAGGAGAGACCACACTGCCATGCCTCCCTCTGGGCCCCGAGGAACCCCTCCTTCTGTTGCCGCTGCTGC
TGCTGCTCCTGCTTCGCGCCGTGCTGGCTGTCCCCCTGGAGCGAGGGGCGCCCAACAAGGAGGAGACCCCTGCGA
CTGAGAGTCCCGACACAGGCCCTGTACTACCACCGGTACCTCCAGGAGGTTCATCGATGTACTGGAGACGGATGGGC
ATTTCCGAGAGAAGCTGCAGGCTGCCAATGCGGAGGACATCAAGAGCGGGAAGCTGAGCCGAGAGCTGGACTTTG
TCAGCCACCACGTCCGCACCAAGCTGGATGAGCTCAAGCGACAGGAGGTGTCACGGCTGCGGATGCTGCTCAAGG
CCAAGATGGACGCCGAGCAGGATCCCAATGTACAGGTGGATCATCTGAATCTCCTGAAACAGTTTGAACACCTGG
ACCCCTCAGAACCAGCATACATTGAGGCCCCGCGACCTGGAGCTGCTGATCCAGACGGCCACCCGGGACCTTGCCC
AGTACGACGCAGCCCATCATGAAGAGTTCAAGCGCTACGAGATGCTTAAGGAACACGAGAGACGGCGTTATCTGG
AGTCACTGGGAGAGGAGCAGAGAAAGGAGGCGGAGAGGAAGCTGGAAGAGCAACAGCGCCGGCACCGCGAGCACC
CTAAAGTCAACGTGCCTGGCAGCCAAGCCAGTTGAAGGAGGTGTGGGAGGAGCTGGATGGACTGGACCCCAACA
GGTTTAACCCCAAGACCTTCTTCATACTGCATGATATCAACAGTGATGGTGTCTGGATGAGCAGGAGCTGGAGG
CACTCTTCACCAAGGAGCTGGAGAAAGTGTACGACCCAAAGAATGAGGAGGACGACATCGGGGAGATGGAGGAGG
AGCGACTGCGCATGCGGGAGCÀGTGATGAAGAATGTGGACACCAACCAGGACCGCCTCGTGACCCCTGGAGGAGT
TCCTCGCATCCACTCAGAGGAAGGAGTTTGGGGACACCGGGGAGGGCTGGGAGACAGTGGAGATGCACCCCTGCCT
ACACCGAGGAAGAGCTGAGGCGCTTTGAAGAGGAGCTGGCTGCCCCGGGAGGCAGAGCTGAATGCCAAGGCCCAGC
GCCTCAGCCAGGAGACAGAGGCTCTAGGGCGGTCCCAGGGCCGCTGGAGGCCCAGAAGAGAGAGCTGCAGCAGG
CTGTGCTGCACATGGAGCAGCGGAAGCAGCAGCAGCAGCAGCAAGGCCACAAGGCCCCGGCTGCCACCCCTG
AGGGGCAGCTCAAGTTCCACCCAGACACAGACGATGTACCTGTCCCAGCTCCAGCCGGTGACCAGAAGGAGGTGG
ACACTTCAGAAAAGAACTTCTCGAGCGGCTCCCTGAGGTGAGGTGCCCCAGCATCTGTGATCCTCCGGGACCC
CAGCCCTCAGGATTCTGATGCTCCAAGGCGACTGATGGGCGCTGGATGAAGTGGCACAGTCAGCTTCCCTGGGG
GCTGGTGTGATGTTGGGCTCCTGGGGCGGGGGCACGGCCTGGCATTTCACGCATTGCTGCCACCCAGGTCCACC
TGTCTCCACTTTCACAGCCTCCAAGTCTGTGGCTCTTCCCTTCTGTCTCCGAGGGGCTTGCCTTCTCTCGTGT
CAGTGAGGTGCTCAGTGATCGGCTTAACCTTAGAGAAGCCCGCCCCCTCCCTTCTCCGTCTGTCCCAAGAGGGTC
TGCTCTGAGCCTGCGTTCCCTAGGTGGCTCGGCCTCAGCTGCCTGGGTGTGGCCGCCCTAGCATCCTGTATGCCC
ACAGCTACTGGAATCCCCGCTGCTGCTCCGGGCCAAGCTTCTGGTTGATTAATGAGGGCATGGGGTGGTCCCTCA
AGACCTTCCCTACCTTTTGTGGAACCAAGTGTGCTCAAAGACAGTGTCCCTCCACAGCTGGGTGCCAGGGGC
AGGGGATCCTCAGTATAGCCGGTGAACCTTGATACCAGGAGCCTGGGCCTCCCTGAACCCCTGGCTTCCAGCCAT
CTCATCGCCAGCCTCCTCCTGGACCTCTTGCCCCCAGCCCCCTCCCCACACAGCCCCAGAAGGTCCCAGAGCT
GACCCCACTCCAGGACCTAGGCCCAGCCCCCTCAGCCTCATCTGGAGCCCCCTGAAGACCAGTCCCACCCACCTTC
TGGCCTCATCTGACACTGCTCCGCATCCTGCTGTGTGTCCTGTTCCATGTTCCGGTTCCATCCAATAACACTTC
TGGAAC

4458/5332
FIGURE 3882

CCCAGTTGTTGATCTTATGCAAGACGCTGCACGACCCCGCGCCGCTTGTCGCCACGGCACTTGAGGCAGCCGGA
GATACTCTGAGTTACTCGGAGCCCCGACGCTGAGGGTGAGATGAACGCGCTGGCCTCCCTAACCGTCCGGACCTG
TGATCGCTTCTGGCAGACCGAACGGCGCTCCTGCCCCGGGGTGACGCGCAGCTCCAGCCGCCAGACACATG

GCCCCAGGCCAAGCACCCCATCAGGCTACCCCGTGGAGGGATGCCACCCTTTCTTCCTCCTGTCCCCAGTGATG
GGCTCCTCAGCCGCGCCTGGAGCCGCTGAGGGGCTGGGACCTCTAGAGCCCTGGCTGGTGGGAAGCAGTAAAA
GGAGCAGCTCTGGTAGAAGCTGGCCTGGAGGGAGAAGCTAGGACTCCTCTGGCAATCCCCCATACCCCTTGGGGC
AGACGCCCTGAAGAGGAGGCTGAAGACAGTGGAGGCCCTGGAGAGGACAGAGAAACACTGGGGCTGAAAACCAGC
AGTTCCCTTCTGAAGCCTGGGGACTTTTGGATGATGATGATGGCATGTATGGTGAGCGAGAGGCAACCAGTGTC
CCTAGAGGGCAGGGAAGTCAATTTGCAGATGGCCAGCGTGCTCCCCTGTCTCCAGCCTTCTGATAAGGACACTG
CAAGGTTCTGATAAGAACCAGGGGAGGAGAAAGCCGAGGAAGAGGGAGTTGCTGAAGAGGAGGGAGTTAACAAG
TTCTCTTATCCACCATCACACCGGGAGTGTTGTCCAGCCGTGGAGGAGGAGGACGATGAAGAAGCTGTAAAGAAA
GAAGCTCACAGAACCTCTACTTCTGCCTTGTCTCCAGGATCCAAGCCCAGCACTTGGGTGTCTTGCCAGGGGAG
GAAGAGAATCAAGCCACGGAGGATAAAAGAACAGAAAGAAGTAAAGGAGCCAGGAAGACCTCCGTGTCCCCCGA
TCTTCAGGCTCCGACCCAGGTCTGGGAGTATCGTTTCAGGAGAGGCGTCCGAGGAGAAGGAGGAAAAGGCACAC
AAAGAACTGGGAAGGAGAAGCTGCCCCAGGGCCGCAATCCTCAGCCCCAGCCAGAGGCCCCAGCTCAAGTCC
TGGTGGTGCCAAACCAGTGATGAAGAGGAGGGTGAGGTCAAGGCTTTGGGGGAGCTGAGAAGGATGGAGAAGCT
GAGTGTCTCCTGCATCCCCCACCAAGTGCCTTCTGAAGCCCTGGGTGTATTGGCCAGGAGAGGACACAGAG
GAAGAGGAAGATGAGGAAGAAGATGAGGACAGTACTCTGGATCAGATGAGGAAGAGGGAGAAGCTGAGGCTTCC
TCTTCCACTCCTGTACAGGTGTCTTCTTGAAGTCTGGGTCTATCAGCCAGGAGAGGACACAGAGGAGGAGGAA
GATGAGGACAGTGATACAGGATCAGCCGAGGATGAAAGAGAAGCTGAGACTTCTGCTTCCACACCCCTGCAAGT
GCTTTCTTGAAGGCCTGGGTGTATCGGCCAGGAGAGGACACGAGGAGGAGGAAGATGAGGATGTGGATAGTGAG
GATAAGGAAGATGATTGAGAAGCAGCCTTGGGAGAAGCTGAGTCAGACCCACATCCCTCCCACCCGGACCAGAGG
GCCCACTTCAGGGGCTGGGGATATCGACCTGGAAGAGACAGAGGAAGAGGAAGCTGCTGAGGACTGGGGAGAA
GCTGAGCCCTGCCCCTCCGAGTGGCCATCTATGTACCTGGAGAGAAGCCACCGCCTCCCTGGGCTCCTCCTAGG
CTGCCCCCTCCGACTGCAAAGGCGGCTCAAGCGCCAGAAACCCCTACTCATGATCCGGACCCTGAGACTCCCCTA
AAGGCCAGAAAGGTGCGCTTCTCCGAGAAGGTCACTGTCCATTTCTTGGCTGTCTGGGCAGGGCCGGCCAGGCC
GCCCGCCAGGGCCCTGGGAGCAGCTTGCTCGGGATCGCAGCCGCTTCGCACGCCGCATCACCAGGCCAGGAG
GAGCTGAGCCCTG CCTCACCCCTGCTGCCCCGGGCCAGAGCCTGGGCACGCCTCAGGAACCCACCTTTAGCCCC
ATCCCTGCCCTCACCCAGACCTTGCTTCTCCTCTGTCCCTTCGTCCCCAGTCCAGACCACGCCCTTGAGCCAA
GCTGTGGCCACACCTTCCCGCTCGTCTGCTGCTGCAGCGGCTGCCCTGGACCTCAGTGGGAGGCGTGGCTGAGAC
CAACTGGTTTGCTATAATTTATTAATACTATTTATTTTTCTAAGTGTGGGTTTATATAAGGAATAAAGCCTTTTG
ATTGT

4459/5332
FIGURE 3883

AAACTGGGAGAGGGAGGAAGGGAGAAAGTGAGAAGGGAAATCGGAAAGAGAAAAGGGAGGAAACGGCAGAGCCAG
AGAGAAAGAGGAAGAGACTGAGTGTGAAGGAGAGAGGACACAGGGGATGACTGAGAGACAGAGAGAGAGAGAGAG
AGAGAATGAGACAGAGACTTAAGGAAGAGACCCTGTGAGTCTGACAATAAAAGATTTGGACAGAAACAGAAAGAT
TGGAGAGAGAGAGAGAGGGAGAGAATGAGTGAGAGAGAGACTGGAAGAGACAGAGATCAGAGGGAGACACAGAAA
GTGAGAGTGGGGAGAGAGGTAGTGTAAAAGGAAGAGAGAGAGAGAGAGACCGTAAGAGACAGGAGACAAAGAGAC
AAAAAGTGTGAGTGAGCAGGTGAGGAGAGAGATTGAGAACTATGAGAGACAGCAGCTAAGAGACAAAGGAGGCGG
GAGACTGCCTAGGTGCCGAGCACCACACCGTCTCTTGCCCCCCCCGTCAGTGGGACCCCAAGCTGGCCCTTG
ATGGAGGGGAGCCGACCTCGCAGCAGCCTGAGCCTGGCCAGCAGCGCCTCCACCATCTCCTCGCTCAGCAGCCTG
AGCCCCAAGAAGCCACCCGGGCAGTAACAAGATCCACGCCTTTGGGAAGAGAGGCAATGCGCTCAGGAGGGAT
CCCAACCTTCCCGTGACATCCGAGGCTGGCTTCATAAGCAGGACAGCTCGGGGCTCCGTCTCTGGAAACGCCGC
TGGTTCTGCTCTCCGGCCATTGCCTCTTTTATTACAAGGACAGCCGCGAGGAGAGTGTCTTAGGCAGCGTCTTG
CTCCCCAGCTACAATATTAGACCAGATGGGCGGGAGCCCCCGAGGGCGGGCGCTTCACCTTCACCGCAGAGCAC
CCGGGCATGAGGACCTACGTTTTTGGCCGCTGACACCTTAGAAGACCTGCGGGGCTGGCTACGGGCGCTGGGCCGG
GCCTCCCGTGCGGAGGGGGACGACTATGGGCAACCCAGGTACCTGCACGACCCAGCCCGGGAGGGCCCCGGC
GGCCCCGTTGGTCCCCCGGAGGTGAGCAGAGGGGAAGAGGGGCGCATCTCAGAATCACCGGAAGTGACTCGACTC
TCCAGAGTCTGTTAGTACCCAGGCTGCTCACTCCCAGCCCCACAACCGACCTCCACTCTGGACTCCAGATGCGG
AGGGCGAGGAGCCCCGACCTGTTTACCCCCCTCTCTCGCCCTCCCTCGCCTCTGAGCCTCCCCGTTCCCGTTCT
GCCCTTGCGCGGCGACCCCTGCCCCCTCAGGAGACACAGCACCCTGCCCCGACCTCACACCCGTTGAGTCGC
ATTGATGTCCGACCTCCTCTGGATTGGGGCCCCAACGCCAGACCTCTCCCGACCCCTACTCCCCGCGGAGGA
CCTCCCTCTGAGGCTGGGGGAGGAAAGCCCCCAGGAGTCCCCAGCACTGGAGTCAGGAGCCCAGAACACAGGCA
CACTCTGGCTCCCCCACTTATCTCCAGCTCCCCCGCGGGCCCCCTGGGACCCGGGCCTCCATGGTTTTATTGCCG
GGTCTCCCTGGAGTCAACTTTCCACCAAAGCTTGGAGACAGATACGCTGCTGACCAAGTTGTGCGGGCAGGAC
CGGCTTCTGCGGAGGCTGCAGGAGGAGATAGACCAGAAGCAGGAGGAGAAGGAGCAACTAGAAGCAGCTCTGGAG
TTGACCCGGCAACAGCTGGGCCAAGCCACCAGGAGGCTGGGGCTCCCGGGAGGGCTGGGGTCCGACGCGCCTC
TTGAGGACCGGCTGGTCACTGTGAGGGCCACCCTCTGTCACTTGACTCAGGAGCGAGAGAGGGTTTGGGACACG
TACAGTGGCTGGAGCAGGAGCTGGGCACCTTAAGAGAGACGCTGGAGTACCTGCTGCACCTTGGTTCTCCCCAG
GACAGAGTGTCTGCTCAGCAGCAGCTGTGGATGGTGAAGACACGCTGGCAGGTCTGGGTGGCCCCCAGAAACCG
CCCCACACACTGAGCCTGACTCCCCATCTCCCGTGCTCCAGGGCAGGAGTCTCAGAGAGGGAGAGCCTGCCA
GAGTCTTTGGAAGTGAAGTCCCTAGGTCCCCCGAGACTGACTGGGGGCGGCCTCCTGGAGGCGACAAAGACCTC
GCCAGCCCTCACTTAGGTCTTGGGTCTCCGAGGTCTCCCGGGCTTCCAGCCCTGAGGGTCCGCACCTCCCTTCC
CCACAGCTAGGAACCAAGGCCCGGTGGCCCGGCCCGGATGAGTGCCAGGAGCAGCTGGAGCGGATGCGCAGA
AACCAGGAATGTGGACGGCCCTTCCCTCGCCCGACCTCCCCCGGCTTCTCACCTGGGAAGGACACTGTCCCCA
GCCAGACGCCAGCCTGACGTGGAGCAAAGGCCTGTCTGAGGACACTCGGGAGCCCAGAAATGGCTCAGAAGCTCT
GGGTCTTGAGTAGTCCAAGGAACACCACCCCTTACTTGCCGACTTCCGAAGGTACCCGGGAGCGGGTCTCAGC
CTCTCCCAAGCCCTGGCTACTGAGGCGTGCAGTGGCACAGAATGATGACAGGTGGAAATTTGGAATCCAGGGA
GACCCTCTTCCCGGTGTGCCGTGCTCCTTCCGACCCACGCGCCAGGAGACCCCTCCCCCAGATCTCCCCCG
GTGGCTAATTCCGGTTCCACGGGTTCTCTCGCCGAGGGAGTGGGCGTGGAGGAGGTCCACCCCTGGGGGCC
GCGTGGGATGCCGGGATCGCCCTCCGGTCTGCCACAAGACGAGGGGGCATGGCCTCTGCGAGTCACTCTGCTA
CAATCCAGCTTCTTAATCCGCCCAAAAGCGGCAGCCAATCGGAGCGCGAGGACGTGGTCTGGAGGTACCGCCGGAG
ATCTGGGACCACTCAGGGCATCAGGGGGCGTGGTCTGGTCCCCATTGCGGGCCCGGAGGGGAATGGTTTCTATG
GCCAAAGTTTGGTTTTCTCAACACTGTCTAAATTTGGATTAAACTTTGAACTTT

4460/5332
FIGURE 3884

ATGGCCGAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCTGGTGTGTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCACGCGCGCGCTCCTGTTGTCATTCTCTGCCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCACCCTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCCTCTGGCTGTATGGGCCCGACCACCAGCTCACCAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGCTGGAGCTGGTGACGCCCCCGTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCCTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCGCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCACATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGAATACGAAA
TAAAAGGCCAGCGGGCGGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCTCGTCGCGGGTTCAGGTCCGCCCATTAATCCTTGTCTGTCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTCTC
TGTCCTTGCTGCAATTTTGAAATAAAATGCCAAAGAACACA

4461/5332
FIGURE 3885

CCATCTTTAGGACCGCGGCCCTTTAAGCGGCGCCCTTTTCCCCCATCACCCCCCTCGCCATCAGGCAGCACG
AGCAGAGCCATGTGCTTCCCCCTCCCGCTGCCTCATTGGCCAAACTGGGTACGGTCCCGCCCCCAGTACCG
CCTCCCATTTGGGCAAATGTAGGTCAAGTGTCCCGCTCCACCGAAAGGCAAGGCAACTTCACGCGCTGAGCCCCCT
CACGCGCCCTCCTGGGCCCTGGCGGACCCAGAGGCCCATTTGGCTGTGCGTCTCAAGGTGTGCGAGACGATTGGT
CCGTGTTTGACGCCGAGGGAGGCACGCGGTGGGTGTCATGCCCATAGAGGCTGGCGGGGCTGGACGCGCCGGG
CGGGGACCCGGAGGAGGGGCGCGCTGTGGCGTGGGTGTTTTGGTTTGATTTTTTTTTCCGCGAAAGAAGTT
TGCTTTGGCCACGCTCAAGGCGGCCCTCCTCCTGCCCCCTCCTCCGCCCTCCGCGCACACCTCTCGGTGCA
GATTGCAAAGCGCCTTCCGTTGCGAGAGCTGCAGATTTGCAAGAGCCAGGCTCGCCACCTTGTAAGAGGAGCG
CCTTGAGTCCCCCTCTCACCTCGGTTGCAAAGAGCCGACCGCTTGATCTGGACACCCCTCGCCAGATTGCATG
ATCTCCCGGGACCCCTCTTGAGTTGCAGTTTCTGCACCGAGGACCTCAAATCCCGTCGCTCCTAGGATTTGCAG
CGTTCTGGATACTGGAGGGTGCAGGCTACACTCGCCCGCCCTGGGCAGACACTCGTCAAACCACTGGAGTGT
GCTGGTGACTGGCAGGCCAGCCCTTCGCTCTCCATGAACCCGTGAGCCTGGGGGCAGGTGCCAGGCGATGGCGC
GGCCTGTGAGCGACAGGACCCCGGCCCTCTGCTGCTGGGCGGCCCGGCCGACACCCCTGGCGGGGGAGCGC
TGCTTGGGTTGCGGAGCCTTCTGCAGGGGACAGCAAGCCCAAAGAGCCGCGCAGCTGTCTCCTGAAGGAAAAGG
AGCGCAAGGCGGCCCTGCCTGCAGCCACAACCCCTGGGCCAGGCCTGGAGACTGCGGGCCCGCGGATGCCCGG
CTGGGGCAGTGTTGGGCGGAGGGTCCCCGCGGGGGCGCCCGGGGCGGTTGCCCGCCCGGGTCTGTTGGCGCCAC
TGCTGTGGGAGCGCACGCTGCCGTTCCGCGATGTGGAGTACGTAGACCTGGACGCTTCCCTGCTGGAGCACGGG
TCCCGCCAGCCCGCCGCCCCCGGTGGCCCGTGCCTGGAGCCGTGCGCCGCGCGGACGCCCCGACCCCTGCCAG
GGCCGGGTTGCTGCGGCTCGGCTTCCCCCGCTCCTCTCCTGGGCACGCCCCCGCCGGGCTGCCCTCGGGACCG
CCAGCGGCCACCGCGCAGGCCTGACCTCTCGGGACACACCCAGCCCTGTGGACCCAGACACCGTGGAGGTGTGA
TGACCTTTGAACCCGACCCAGCTGATCTTGCCCTATCAAGCATTCCTGGCCACGAGACCTTTGACCTCGAAGAC
ATCGCTTCTCAGAAGAGGAACCTAAGCCCCAGCCAATCATGAAGAAGGCAAGAAAAATCCAGGTGCCGAGGAGC
AGAAGGATGAGAAATACTGGAGCCGCGGTTACAAGAACAACGAGGCAGCCAAGCGGTCCCGTGACGCCCGCGGC
TCAAGGAGAACCAGATATCGGTGCGGGCGGCCTTCTGGAGAAGGAGAACGCCCTGCTGCGGCAGGAAGTTGTGG
CCGTGCGCCAGGAGCTGTCCCACTACCGCGCCGTGCTGTCCCGATACCAGGCCAGCACGGGGCCCTGTGAGGCT
GCCCCACATCCCCACCTGGCGGAGCTCTCCTCCGCTTGTGAGACTTACGCCCTGTTCCCTTCCCTGCCCTGTGG
CCCACGGGCGGCCAGCTGGGTGCCCCAGGGACGTGATAATGCAGATAAATACATTTATATTTTAAGAAAAAGC
GAGCCTCCCCCTCCCTTGCGGGGCGGGGAGGGTTCTCTGTGTGTGTCCCCGGCACGTCAGGGACCTATCCTC
CCACCGCCTCCGTTAACACGATCCTGAATAAATCTTGAGAACCCAGAGCCAGCTGTTGTGGAAGAAGAGGGCAG
CTCCCTGGCATACTGGCTGCAGCCCGTGGGCAGCTCCGGGCTGTCTCCATAGAGGGCAGGCGCTGCTGGAAGTG
CTGGAGTCTGAGTCTCCCGCGGGCTGTCCGATGGAGGAAGGGCAGAAGGTCTGAGAGGAATGAAGCGACTGCCT
TTATTGCATAGACCTTTTCAATTGCTTTTAGATTGGGGACGGAGGACGCGCATGAGACGAACAGGGGATATGAA
TTTCCCCGCCCCACCCGCGGGGAGAGGAACATTAGTGCAATCCTAGCGCCGGCCCCGGGAACCTGCCCTCC
TGGGCTGATTGGCCAGCTAAATGGAGGCACCGGAGTGGATGGGGCGAGGCTGCGGGCCCTGACCGGCCGACTCAC
TGAGGCCTACCCAGCCAGTACATTCCAGGTCTGTATTGGGCGACGCGTAAATAGACTCCGCCCTCAGCCAT
CCTGGCCGGGTAGGAGCAGGTGGCAAGCGTCAGGACTGAGCCCTGCCCGTAA

4462/5332
FIGURE 3886

GGGGAACAAAGGTGAGCGAAAGGAGGAGGCAGAATCCGGGCAGAGGGCAGGGAGAGGGCCTGTGGGGAAGGGACC
TCAGTCCTGCTCCCACCCGCTCCCTGGAGAGCAGGCGGCCAGACACCCAGAGGCCAGACCAGGAGCTGACCGGGA
GCTGGGGCCACGGGCTAGGAGCACCCCTGGTCAGGGCTAAGGCCATGGCCCCGCCCCACCGCCACTGGCTGCCA
GCACCCCGCTCCTCCATGGCGAGTTTGGCTCCTACCCAGCCCGAGGCCACGCTTTGCCCTCACCCTTACATCGC
AGGCCCTGCACATACAGCGGCTGCGCCCCAAACCTGAAGCCAGGCCCGGGGTGGCCTGGTCCCGTTGGCCGAGG
TCTCAGGCTGCTGCACCCCTGCGAAGCCGAGCCCTCAGACTCAGCGCCTACTTCTGCATCTACACCTACCCTC
GGGGCCGGCGCGGGGCCCGGCGCAGAGCCACTCGCACCTTCCGGGCAGATGGGGCCGCCACCTACGAAGAGAACC
GTGCCGAGGCCAGCGCTGGGCCACTGCCCTCACCTGTCTGCTCCGAGGACTGCCACTGCCCGGGGATGGGGAGA
TCACCCCTGACCTGCTACCTCGGCCGCCCCGGTTGCTTCTATTGGTCAATCCCTTTGGGGGTGGGGCCTGGCCT
GGCAGTGGTGTAAAGAACACGCTGCTTCCCATGATCTCTGAAGCTGGGCTGTCTTCAACCTCATCCAGACAGAAC
GACAGAACCACGCCCCGGGAGCTGGTCCAGGGGCTGAGCCTGAGTGAGTGGGATGGCATCGTCACGGTCTCGGGAG
ACGGGCTGCTCCATGAGGTGCTGAACGGGCTCCTAGATCGCCCTGACTGGGAGGAAGCTGTGAAGATGCCGTGTGG
GCATCCTCCCCCTGCGGCTCGGGCAACGCGCTGGCCGGAGCAGTGAACCAGCACGGGGGATTGAGCCAGCCCTGG
GCCTCGACCTGTTGCTCAACTGCTCACTGTTGCTGTGCGGGGTGGTGGCCACCCACTGGACCTGCTCTCCGTGA
CGCTGGCCTCGGGCTCCCGCTGTTTCTCCTTCCCTGTCTGTGGCCTGGGGCTTCGTGTGAGATGTGGATATCCAGA
GCGAGCGCTTCAGGGCCTTGGGCAGTGCCCGCTTCACACTGGGCACGGTGTGGGCCTCGCCACACTGCACACCT
ACCGCGGACGCTCTCCTACCTCCCCGCCACTGTGGAACCTGCCTCGCCACCCCTGCCCATAGCCTGCCTCGTG
CCAAGTCGGAGCTGACCTAACCCAGACCCAGCCCCGCCCATGGCCCACTACCCCTGCATCGTTCTGTGTCTG
ACCTGCCCTCTTCCCCTGCCCCAGCCTGCCCTGGCCTCTCCTGGCTCGCCAGAACCCTGCCCATCCTGTCCCTCA
ACGGTGGGGGCCAGAGCTGGCTGGGGACTGGGGTGGGGCTGGGGATGCTCCGCTGTCCCCGGACCCACTGCTGT
CTTACCTCCTGGCTCTCCCAAGGCAGCTCTACACTACCCGCTCTCCGAAGGGGCCCCGTAATTCCCCCATCCT
CTGGGCTCCCACTTCCCAACCCCTGATGCCCGGGTAGGGGCTCCACCTGCGGCCCGCCGACCACCTGCTGCCTC
CGCTGGGCACCCCGCTGCCCCCAGACTGGGTGACGCTGGAGGGGGACTTTGTGCTCATGTTGGCCATCTCGCCCA
GCCACCTAGGCGCTGACCTGGTGGCAGCTCCGCATGCGCGCTTCGACGACGGCCTGGTGCACCTGTGCTGGGTGC
GTAGCGGCATCTCGCGGGCTGCGCTGCTGCGCCTTTTCTTGCCATGGAGCGTGGTAGCCACTTCAGCCTGGGCT
GTCCGAGCTGGGCTACGCCGCGGCCGCTGCCCTCCGCCTAGAGCCGCTCACACCACGCGGCGTGTCTACAGTGG
ACGGGGAGCAGGTGGAGTATGGGCCGCTACAGGCACAGATGCACCTGGCATCGGTACACTGCTCACTGGGCCTC
CTGGCTGCCCCGGGGCGGGAGCCCTGAACATAAACAAGCTTGGTACCCGCGGGGGCGGGGCCTACATTCCAATGG
GGCGGAGCCTGAGCTAGGGGGTGTGGCCTGGCTGCTAGAGTTGTGGTGGCAGGGGCCCTGGCCCCGTCTCAGGAT
TGCGCTCGCTTTCATGGGACCAGACGTGATGCTGGAAGGTGGCGCTCGTCACGGTTAAAGAGAAATGGGCTCGTC
CCGAGGGTAGTGCTGATCAATGAGGGCGGGGCTGGCGCTGATCTGGGGCCGCCCTTACGGGGCAGGGCTCAG
TCCTGACGCTTGCCACCTGCTCCTACCCGGCCAGGATGGCTGAGGGCGGAGTCTATTTTACGCGTCGCCCCAATGA
CAGGACCTGGAATGTACTGGCTGGGGTAGGCCTCAGTGAGTCCGGCCGGTCAGGGCCCGCAGCCTCGCCCCATCCA
CTCCGGTGCCTCCATTTAGCTGGCCAATCAGCCCAGGAGGGGCAGGTTCCCCGGGGCCGGCGCTAGGATTTGCAC
TAATGTTCTCTCCCCGCGGGTGGGGGCGGGGAAATTCATATCCCCTGTTCTGTCTCATGCGCGTCTCCGTCCCC
AATCTAAAAAGCAATTGAAAAGGTCTATGCAATAAAGGCAGTCGCTTCATTCTCTC

4464/5332
FIGURE 3888

TGTCAGAACAGTGTGGCAGGGGCTGCTGCAGGGAGCCATTTGGACATCTGCAGGGCCCCGCCGGAGGCCTCGGAT
GGCCACGTAGGGTCTGCCTATCAGGAGAACCCCCAGATGATCACAGTCCCCAGAGACAGCCAGACCCCCGGGGAC
CCAGCCTCTCACAGTCAGTCCTCCACCCGAGTGACCCCGATGGCGGCCTCCCAGCTGGCGGCGCTGGAAGGAGT
GGACTCCGGTCCCAGGGTGCCCCGGGCCAGCCCCGGCTTTCTATATTCCGAGGGCCAGCGGCTGGCACTGGAGGC
TCTGTTGAGCAAGGGCGCGGAGGCGTTCCAGACCTGCGTGACGCGAGGAGCTGTGGCCCTTCCTCAGTGCGA
TGAGGTTTCAAGGCTTGGCAGCGGCAGCTGAAGACTGGACAGTGGCCAAGCAGGAGCCCAGCGGGATGGCAGAGG
AGCCACCACCACCGATGTGGACGCGGGCAGCCTGAGCTACTGGCCTGGGCAGTCCGAGCAGCCGGCGCCCGTCT
GCGGCTGGGCTGGCCAGTGGACTCTGCGTGGAAGGCATCACCCGGGCGCAGCTGTACCCAGCCTCCTGGAGA
GGGTACGCCGCCCTCAAGGAGCTGGTGCGGCTGGAGATCCAGGCTGCCACAAGCTGGTGGCCGTGGTCAATGGA
CGTCTTCACTGACCCAGACCTGCTTTTGGACTTGGTGGATGCTGCCACGCGCCGCTGGGTACCTGTCTACCTGCT
CCTGGACCGCCAGCAGCTGCCTGCCTTCTGGAAGTGGCCAGCAGCTGGGGGTGAACCCCTGGAACACGGAGAA
CGTGGATGTCCGTGTCGTGCGGGGCTGCAGCTTCCAGAGCCGCTGGCGACGGCAGGTGAGCGGCACCGTGCGGGA
GAAGTTTGTGCTGCTGGACGGCGAGAGGGTCACTCAGGATCCTACAGCTTACGTGGAGTGACGCACGCCTGCA
CCGAGGCCTGGTGACCCTGCTGACTGGTGAAATTGTTGACGCCTTACGCCTTGAGTTCCGGACGCTGTACGCGGC
CTCCTGCCCCGCTCCCACCTGCGCCCCCCCCAGAAACCCTCGGTATAGGTGGCCTGCAGCGGGGCCGAGCCCCGA
CCGCGTGTCCCGCCCGCGCTCCGTGGCCCCCGCGTGCCTCCGCCGCTGACGGCCCCGCTGGCCCCACCGCCTGGC
CGCCTGCGCGTCTCCCTGCTACCCCGGGGCCGGCACTCAGTGACATTCTAAGGAGTGTGCAGCGCGCCCGGAC
CCCCAGCGGGCCCCCGGCCCGGCCAGCCGCTCCATGTGGGACCTAAGCCGCTGTCCCAGCTGTCTGGCTCCAG
TGATGGGGACAACGAGCTCAAGAAATCCTGGGGCTCCAAGGACACTCCAGCCAAGGCTCTGATGAGGCAGCGGGG
CACTGGAGGAGGCCCCCTGGGGGAAGTGGACTCCCGACCTCCGTGGGGCGGTGCCCTGCCCCCTGCCCCCGCCCA
CCGCCTCCGCTATCTGTCCCCAGCCCCGAAGGCGGTTCCGTGGGGATGCTACATTCAAACCTTCAAGAGCCCAGAGG
CGTCAGGCCGTGAGCTGGGCCCCCGGGCAGGACTTGGGGGGCAACCCCTGAACAGGAGCCCAAGCCAAATCTGC
TGGCCACCCCAAGGAGCAGTCCCGGACAAGTGTGGGCTCAGAGCCCTCTGCCTCAATGCCCTGCCTTGGACAAGG
CTTCTGGCCTCGGCGTCTGTCAAGCAGAAGGGATGTTTGTCACTTGTCTGCAACTTGGGCCGGGAGTGGTGGCT
CATGCCTGTAATCCCTGCACTTTGGGAGGCTAAGGTGGGAGGGTTGCTTAAGGCCAGGAGTTGGAGACCAGCCTG
GGCAACATAGTGAGACCCCATCTCTACAATTAACAAAAACAATTAGTTGGG

4465/5332
FIGURE 3889

AGACGCTGTCGCTGCGCACACCTGGCCTCTGTGCCGCCTGCTCCCTGCTCGTCCTCCCTCCCCACCTCACC
CCTGCCATGGACGGGCCCCGCCGAGCCCCAGATCCCGGGCTTGTGGGACACCTATGAAGATGACATCTCGGAAATC
AGCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCTTCCCGTCGGCCTGTACTCGCTCGAGAGC
ATCAGCTTGGCGGAGAACACCCAAGATGTGCGGGACGACGACATCTTTATCATCACCTACCCCAAGTCAGGCAG
ACCTGGATGATCGAGATCATCTGCTTAATCCTGAAGGAAGGGGATCCATCCTGGATCCGCTCCGTGCCCATCTGG
GAGCGGGCACCTGGTGTGAGACCATTGTGGGTGCCTTCAGCCTCCCGGACCAGTACAGCCCCCGCCTCATGAGC
TCCCATCTTCCCATCCAGATCTTACCAAGGCCTTCTTCAGCTCCAAGGCCAAGGTGATCTACATGGGCCGCAAC
CCCCGGGACGTTGTGGTCTCCCTCTATCATTACTCCAAGATCGCCGGGCAGTTAAAGGACCCGGGCACACCCGAC
CAGTTCTTGAGGGACTTCCTCAAAGGCGAAGTGCAGTTTGGCTCCTGGTTTCGACCACATTAAGGGCTGGCTTCGG
ATGAAGGGCAAAGACAACCTTCTATTTATCACCTACGAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAGCGC
ATCTGTGGGTTTCTGGGCCGTCCGCTGGGCAAGGAGGCACTGGGCTCCGTTCGTGGCACACTCAACCTTCAGCGCC
ATGAAGGCCAACACCATGTCCAACACACGCTGCTGCCTCCCAGCCTGCTGGACCACCGTCGCGGGGCCTTCCTC
CGGAAAGGGGTCTGCGGCGACTGGAAGAACCACTTCACGGTGGCCCAGAGCGAAGCCTTCGATCGTGCCTACCGC
AAGCAGATGCGGGGGATGCCGACCTTCCCTTGGGATGAAGACCCGGAGGAGGACGGCAGCCCAGATCCTGAGCCC
AGCCCTGAGCCTGAGCCCAAGCCCAGCCTTGAGCCCAACACCAGCCTGGAGCGTGAGCCCAGACCCAACTCCAGC
CCCAGCCCCAGCCCCGGCCAGGCCTCTGAGACCCCGCACCCACGACCCTCTAATAAAACACGTCGATTCTGTC

4466/5332
FIGURE 3890

GCAGAGGTGGCTGTACCGCGTGGCTCCGCCTCCGCGCGACACTTTCCGGGGCTTCTCATTGGAGAGCAAGCCTG
TCAAGTGCTTTCTGTTGTTTCGGAGGCGGGGCTGCTGCCCTGCCTGCACTCCGATTGGCCCCGCGGGCCGTCTA
CCTCTGGCCGGACATACCTACACCGGCTTTTTGTACGACTGTTGGCCCTGGAGAACGATCCTTTGGTGGCGAGGG
CGGGGAGGACGAAAGCGCCCACTGTGGATTGGACAGTGTCAAAAAGAGGGGCGGTCCCTACTGAAGGGGCGGTTG
GGCGACGAAGGGAAGAGTCTTTTCAGCGCTGAGGACTGGCGCTGAGGAGGCGGCGGTGGCTCCCGGGGCGTTTGA
GCGGGCTCACCCGAGCCCCGCGGGCCAACGCGGATCCAGGCCGACTGGCGGGACCGCCCCGATTCCCCGCGGGC
CTTCCTAGCCGCCATGGAGGACGGCGTCTATGAACCCCCAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAA
CATCCGGCGGCGGAAGCAGGAGCTGCTGGTGGAGATTACGCGCTGCGGGAGGAGCTCAGTGAAGCCATGAGCGA
GGTGGAGGGGCTGGAGGCCAATGAGGGCAGTAAGACCTTGCAACGGAACCGGAAGATGGCAATGGGCAGGAAGAA
GTTCAACATGGACCCCAAGAAGGGGATCCAGTTCTTGGTGGAGAATGAACTGCTGCAGAACACACCCGAGGAGAT
CGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATCGGGGACTACCTGGGGGAGAGGGAAGAACT
GAACCTGGCAGTGCTCCATGCTTTTGTGGATCTGCATGAGTTCACCGACCTCAATCTGGTGCAGGCCCTCAGGCA
GTTTCTATGGAGCTTCGCCTACCCGGAGAGGCCAGAAAATTGACCGGATGATGGAGGCCTTCGCCCAGCGATA
CTGCCTGTGCAACCCTGGGGTTTTCCAGTCCACAGACACGTGCTATGTGCTGTCTTCGCCGTATCATGCTCAA
CACCAGTCTCCAAATCCCAATGTCCGGGACAAGCCGGGCCTGGAGCGCTTTGTGGCCATGAACCGGGGCATCAA
CGAGGGCGGGGACCTGCCTGAGGAGCTGCTCAGGAACCTGTACGACAGCATCCGAAATGAGCCCTTCAAGATTCC
TGAGGATGACGGGAATGACCTGACCCACACCTTCTTCAACCCGGACCGGAGGGGCTGGCTCCTGAAGCTGGGAGG
GGGCCGGGTGAAGACGTGGAAGCGGCGCTGGTTTTATCTCACAGACAACTGCCTCTACTACTTTGAGTACACCAC
GGACAAGGAGCCCCGAGGAATCATCCCCCTGGAGAATCTGAGCATCCGAGAGGTGGACGACCCCCGGAACCGAA
CTGCTTTGAACTTTACATCCCCAACAAAGGGGCGAGCTCATCAAAGCCTGCAAACTGAGGCGGACGGCCGAGT
GGTGGAGGGAAACCACATGGTGTACCGGATCTCGGCCCCCACGCAGGAGGAGAAGGACGAGTGGATCAAGTCCAT
CCAGGCGGCTGTGAGTGTGGACCCCTTCTATGAGATGCTGGCAGCGAGAAAGAAGCGGATTTTCACTCAAGAAGAA
GCAGGAGCAGCCCTGACCCCCTGCCCCCAACTCCATTATTTATTACGGAGCTGCCCCGCCTGGGTGGCCGGACCC
CTGGGCCTTGGGGCTGTGGATCCTGGTTCCTGTTTGGAAAATTCACCACCTCTAGCTCCTCACTGTTCTTTGTA
ATTAACACGCTGTTGGTAATCTTATTAATTATTTAACCCTTGG

4467/5332
FIGURE 3891

GAGGGTTCTGAAGATCGCGGCGCGCAAGGGTCGGCGGCGCACGTGTGAAACCGGGGAACCCATGGAAGCCGAGTCC
GGCGACACAAGTTCCGAGGGCCCCGGCCAGGTCTACCTGCCCGGCCGGGGCCGCGCTACGCGAAGGGGAGGAG
CTGGTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTGACATA
GTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCTCTTACACTTTACTTGTGTGCTGGGACCCAGGCTGAG
AGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCTCAGAGGGC
AGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCATGGTG
CCCCACTATGGTGGCATCAACCGAGTTCGGGTGTCATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGTCAGAG
AAGGGCCAGGTGGAGGTGTTTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAGCCTTC
CTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCCCTTGAC
TGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTACGGAC
GGCGGCTCCTGGCAGTGGACAGCGGCCATTCTGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGTCACCG
ACTGAGAACACGGTGTGCTCCTGCTCAGTGCAGCCTCCATCCGCATCTGGGACATCCGGGCAGCCCCAGC
AAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGGAGCCC
TTCCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCCCAGTG
GCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTCGAGTGGCAGCCCCAGGACAGCGGGGTCTTTGCAGCC
TCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCCTGAGGCGGGCGACGTGGAGGCC
GACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACCAGGGCGAGACCGAGCTGAAGGAGCTGCAC
TGGCAGCCCGCAGTGGCCAGGGCTCCTGGTCAGCACGGCGCTGTGAGGCTTCACCATCTTCCGCACCATCAGCGTC
TGAGGCGTCCCCTGCTGATCTTGCTTCTGCTTGGAACTGAAGTCGAATTGGGCTCCCCCTGGAAGGGGTT
CATTACAGGTCTGTTGACTGAGACTGGCCGGCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTTCTCTA
GAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACCAAAGAAGTTCGGTTTAACCAGGGCTCTGTAAGACCACTCCC
ACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCTCTGTCAGCTGTGACCCATTTGACCTGT
GTCCCCAGAACCCAGTTTTTTTGTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCGCCAGGCTGGAGTGCAGTAG
CACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTAGCTGG
GATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTACCATGTTGGCCA
GGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCCGGCCTCCAGAGTGCTGGGTGGGATTACAGGC
GTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCCAGCAGGGGACTCGGGGGATATACAGTG
GCTGCACCAAATTGGAGGTGTGGGTTCTCCAACACAATTTGCTTCTGCCCGTTGCTTCTGCCAGCTGGGTTT
GGCCAGGATTTCTCCGTGTGGGGGTACATGCGACCCCTCTCCCTCCTCCCTGACTTTAGAGGCTGGTGCTGTGT
CGGGAGGAAGGTACGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTA

4468/5332
FIGURE 3892

GTCCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTCCAGACCAGCA
GCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGAATCTC
TTCCGATTCTGGGAGACCTCTCCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCCGCTCG
TGCGCCGGAATTTAGGGAAGAGCCAGGTCCTGTTTGCTGTGGTGTTCAGTCCCCGATATCTGGACCTCTTCACC
AACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGTTGATT
TATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTAGAGTGGAGTTCCTGGTCGTTCCACAGCC
ATTCTGGCGTTCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGGAGTCA
GTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACTTGTTT
GCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCGACCTC
ATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAGTCCTA
AAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAGGCAGA
GGAAGGCGGCAGAAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGTGCTCCCAT
CCCGCCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGTTTGTA
GTTTTTTGCCTTTTAGACAAGAAAAAAATCTTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTTTCTTC
TACTCTGTGGCCCCAATTTTATAAAGTG

4469/5332
FIGURE 3893

GCCGAACCTCGGGAGCCCAGGACGCCCTCCTGCACATGCGCAGGAGGCTCAATGACAGTCGAGCTTTGGCTAAGG
CTCCGGGGAAAGGGTCTAGCCATGCTGCATGTGACCCGGGGGGTCTGGGGGTCCAGGGTCCGAGTATGGCCACTG
TTGCCCCGCGCTCCTCGGGCCCCCGGGCCCTCTCATCGCTGGCAGCCAAAATGGGGGAGTATCGCAAGATGTGG
AACCCAGGGAGCCCCGCGACTGGGCCCAGCAGTACCGCGAGCGCTTCATTCCCTTCTCCAAGGAGCAGCTGCTC
CGCCTCCTAATACAGGAATTCCTCTCGAGTCCGGCAGAGAAGGCGGCTTTGGAGGCGTTCTCGGCCACGTGGAC
TTCTGCACCCGTGTTCCACTACCACCAAATCCTGGCCCGGCTGCAGGCCCTTATATGACCCCATCAACCCTGACAGG
GAGACCTCGATCAGCCATCACTAACGGATCCCCAGCGTCTGTCTAATGAGCAGGAGGTGCTTCGGGCTCTGGAG
CCCCTGCTGGGCCAGGCCAATCTCTCCCGCTGTCTGAGGACACCCTGGCCTACGCGCTGGTGGTCCACCACCCT
CAGGATGAGGTCCAGGTGACAGTAAATTTGGATCAGTATGTCTACATTCACTTCTGGGCCCTGGGCCAGCGAGTC
GGGCAGATGCCCCGTAAGTCCAGCGTGGGCTCCAGGCGTGGCTTCTTACCAAGCTGCCCCCTGCGGAGAGGAGA
TACTTTAAGCGGGTGGTCTTGGCAGCCCGGACCAAACGGGGACACCTGGTACTGAAGAGTTTCAAGGACACGCCG
CTGGAAGGCCTGGAGCAGCTGCTGCCGGAGCTGAAGGTGCGCAGCCCAACCCTGCAGCGCGCCCTGCTCAACCTC
ATGCTGGTAGTCTCCGCGTGGCGATCTTCGTCAACGTGGGCATGGTGGTGCTAACCGACCTCAAGGTGGCCACC
TCCCTGCTGCTGCTGCTCTTCGTCATCTTCATGGGCCTGCGGGCCTCCAAGATGTTTCGGGCAGCGGCGCAGCGG
CAGGCGTTGGAGCTGGCGCACATGCTGTACTATCGCAGTACGTCCAACAACCTCGGAGCTGCTCAGCGCCCTGGCC
CTGCGCGCGCAGGACGAGCACACCAAGGAGGCGCTGCTGGCTCACAGCTTCTTGGCCCGGCGGCCAGGGGGCACT
CAAGGCTCGCCCGAAGAGACCTCCAGGTGGCTCCGGTCCGAGGTGGAGAAGTGGCTCCTAGCCAAGTCAGGCTGT
GAGGTGACCTTCAACGGAACCTCGGGCCCTGGCGCATCTGCAGGCCCTGACCCCCAGCATGGGATTGTACCCACCC
CCGGGTTTCCCCAACTAGACCCAGTGGCTCCGATCACTTCCGAGCCCCCGCAAGCCACGCCCAGCAGTAACATC
TCTGAGTAGAACCTACCTCCCTGCCCAGTCAGCAGGCTAGGAACTAAGCCCCGCCTCCTTCACGACAGGCTGTC
AATTACGGTTATTATACTTTTCACTCCAACCTTCCAATAACTGACAGGTGATTATTTTTGCTGCACTGTGTGCTTA
AGCAAAGCAGCCAATCAAAGCAGCTAGCAGTTGTTAAGTCTTCCCCGCCCCCTTCGATGAACAGCCAATCAAAGCG
ATTTAGCTCTGCTTCTGTTCCATTTCTTAGTCCCACCCTCACCATAAACATCCAAGTGTGGTTTGGCTGAGGAGC
TGAGGGTGTCTGCCAATCACAGCTGCTCAGCTCTGGCTTCTGTAAACCGCCAGGTAGAAGAGTTAAAGCTGCGCC
CTCCCGAGACTATATATCATTGTCTTTTTAGCCCCGCTCCGGGCAAACCTGCCCATCATGTGCACCAAGGCCGTTA
GCCCTGCCTCCTGGCAAACGTCCAGTGACAGCTGCTGGGTCCATCAACTTTGGGCAGCCGGTTGTGCTGCAGG
GAAGGAACCAATAAGAATTTCTAAAGGAAACCTGATCTTGCTATCAATTGCTGCTGCTTAAATGGCAGGCCAACT
GGTCAGCTGCTGATCAGGGTGTCTAGGCTGAAGGAGTTGGAGACCTTGTGCTAGGTAGGTGAACCAGAAACCACC
CTCGCCACCAAGACTCGCTCCCAACCTGGCTCCCGGCAACCTCAGGTGCCTTCTCGCCAGGTCTTTCACCCCTT
TCTACAGAACTACCTCGGTCTGGATCTCCCAACACCAGCAGCCTGTGCAATATTTATTGGTCTATCAATTTCT
CCGCTCTCCTGTCCCAAAGTAATAAATCATGTTTAATAAGTCTG

4470/5332
FIGURE 3894

GAAGGAGGCCCAGACAGTGAAGGGCAGGAGGGAGAGAAGAGACGCAGAAGGAGAGCGAGCGAGAGAGAAAGGGTTC
TGGATTGGAGGGGAGAGCAAGGGAGGGAGGAAGGCCGGTGAGAGAGGCGGGGGCCTCGGGAGGGTGAAAGGAGGGA
GGAGAAGGGCGGGGCACGGAGGCCCCGAGCGAGGGACAAGACTCCGACTCCAGCTCTGACTTTTTTCGCGGCTCTC
GGCTTCCACTGCAGCCATGTCACTCCTCTTGCTGGTGGTCTCAGCCCTTCACATCCTCATTCTTATACTGCTTTT
CGTGGCCACTTTGGACAAGTCCTGGTGGACTCTCCCTGGGAAAGAGTCCCTGAATCTCTGGTACGACTGCACGTG
GAACAACGACACCAAAACATGGGCCTGCAGTAATGTCAGCGAGAATGGCTGGCTGAAGGCGGTGCAGGTCCTCAT
GGTGCTCTCCCTCATTCTCTGCTGTCTCTCCTTCATCCTGTTTCATGTTCCAGCTCTACACCATGCGACGAGGAGG
TCTCTTCTATGCCACCGGCCTCTGCCAGCTTTGCACCAGCGTGGCGGTGTTTACTGGCGCCTTGATCTATGCCAT
TCACGCCGAGGAGATCCTGGAGAAGCACCCGCGAGGGGGCAGCTTCGGATACTGCTTCGCCCTGGCCTGGGTGGC
CTTCCCCCTCGCCCTGGTCAGCGGCATCATCTACATCCACCTACGGAAGCGGGAGTGAGCGCCCCGCCTCGCTCG
GCTGCCCCCGCCCCCTTCCCGCCCCCCTCGCCGCGCGTCTCCAAAAATAAAACCTTAACCGCGG

4471/5332
FIGURE 3895A

GTTCTCAACTTCTTTTGAATAATGTTTCATAGAGAAGGAGGGCTGTCTGAGATTTCGAGGGAAACAAGCTCTCAGG
ACTTCCGGTCGCCATGATGGCTGTGGGCGGTAAACGCGGTAGTGCAAGCATCTGGGCCATCTTCAATGGTAAAA
AAGATACAGTAAAGACATAAATACCACATTTGACAAATGGAAAAAAGGAGTGCCAGAAAAAGAGTAGCAGCAGT
GAGGAAGAGCTGCCGAGACGGGTATACAGGGAGCTACCCTGTGTTTCTGAGACCCTTTGTGACATCTCACATTTT
TTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCCCTGAGTGCTCAACTATCTGGGGG
GACATTCCCAGGAGACATTTGCTCAGAAGAGAATCAAATAGTTTTCTCTTATGCTTCTAAAGTCTGTTTTGAGAT
CGAAGAAGATTATAAAAAATCGTCAGTTTCTGGGGCTGAAGGAAATGTGGATGTTGAGTTGATTGATAAGAGCAC
AAACAGATACAGCGTTTGGTTCCCCACTGCTGGCTGGTATCTGTGGTCAGCCACAGGCCCTCGGCTTCTGGTAAG
GGATGAGGTCACAGTGACGATTGCGTTTGGTTCTGGAGTCAGCACCTGGCCCTGGACCTGCAGCACCATGAACA
GTGGCTGGTGGGCGGCCCTTGTGTTGATGTCAGTGCAGAGCCAGAGGAGGCTGTCGCCGAAATCCACCTCCCCA
CTTCATCTCCCTCCAAGGTGAGGTGGACGCTCTCTGGTTTCTCGTTGCCCATTTAAGAATGAAGGGATGGTCCT
GGAGCATCCAGCCCGGTGGAGCCTTCTATGCTGTCTGAAAGCCCCAGCTTCTCTCTGATGGGCATCTGTCT
GCGGATCGCCAGTGGGACTCGCCTCTCCATCCCCATCACTTCCAACACATTGATCTATTATCACCCCCACCCCGA
AGATATTAAGTTCCACTTGTACCTGTCCCCAGCGACGCTTGCTAACAAAGGCGATAGATGATGAGGAAGATCG
CTTCCATGGTGTGCGCTGCAGACTTCGCCCCAATGGAACCCCTGAACCTTGGTTCCAGTTATATTGTGTCTAA
TTCTGCTAACCTGAAAGTAATGCCAAGGAGTTGAAATTGTCTACAGGAGCCCTGGAGAAATTCAGCACTTCTC
AAAATTCTATGCTGGGCAGATGAAGGAACCCATTCAACTTGAGATTACTGAAAAAGACATGGGACTTTGGTGTG
GGATACTGAGGTGAAGCCAGTGGATCTCCAGCTTGTAGCTGCATCAGCCCTCCTCTTCTCAGGTGCAGCCTT
TGTGAAGGAGAACCACCGGCAACTCCAAGCCAGGATGGGGGACCTGAAAGGGGTGCTCGATGATCTCCAAGACAA
TGAGGTTCTTACTGAGAATGAGAAGGAGCTGGTGGAGCAGGAAAAGACACGGCAGAGCAAGAATGAGGCCTTGCT
GAGCATGGTGGAGAAGAAAGGGGACCTGGCCCTGGACGTGCTCTTCAGAAGCATTAGTGAAAGGGACCTTACCT
CGTGTCTCTATCTTAGACAGCAGAATTTGTAATAGATCAGTTAGGTAGTCTGGAAGAGAGAATCCAGCGTTCTC
ATTGGAATGGATAAACAGAAATGTGATCATTGATTTTCAAGTGTTCAGACAGAAGAAGACTGGGTAACATCTATC
ACACAGGCTTTCAGGACAGACTTGTAACCTGGCATGTACCTATTGACTGTATCCTCATGCATTTTCTCAAGAAAT
GTCTGAAGAAGGTAGTAATATTCCTTTTTAAATTTTTTCCAACCATTGCTTGATATATCACTATTTTATCCATTGA
CATGATTCTTGAAGACCCAGGATAAAGGACATCCGGATAGGTGTGTTTATGAAGGATGGGGCCTGGAAAGGCAAC
TTTTCTGATTAATGTGAAAAATAATTCCTATGGACACTCCGTTTGAAGTATCACCTTCTCATAACTAAAAGCAG
AAAAGCTAACAAAAGCTTCTCAGCTGAGGACACTCAAGGCATACATGATGACAGTCTTTTTTTTTTTTGTATGTT
AGGACTTTAACACTTTATCTATGGCTACTGTTATTAGAACAATGTAAATGTAATTTGCTGAAAGAGAGCACAAAAA
TGGGAGAAAATGCAACATGAGCAGAAAATATTTTCCCACTGGTGTGTAGCCTGCTACAAGGAGTTGTTGGGTAA
AATGTTTATGGTCAACTCCAAGGAATACTGAGATGAAATGTGGTAAATCAACTCCACAGAACCACCAAAAAGAAA
ATGAGGTAATTCAGCTTATTCTGAGACAGACATTCTGGCAATGTACCATACAAAAAATAAGCCAACTCTGACA
TTTGGATTCTACCATAGACTCTGTCAATTTGTAGCCATTTAGCTGTCTTTTGATTAAATGTTTTCTGGGCACACA
TATTTCCATCCTTTTATGTTTAAATCTGTTTAAACAAGTTCCCTAGTAGACACCATCTGGTTGAGTCAGTTTTTT
TATGGTGTATTTGAACCCATTCTGATAGTCTCTTTTAACTGGAAGATTTCATTACTTACGTTAATGTAATTAT
TAATATGTTAGGATTTATCCTCAGTCAGCCAGTTTGTATGCTTTTCTATTCTACTGTTATCACATTTGTACCA
CTTAAAGTGGAACTTAGGCACCTTATCACCATTTAGATCCTATTACCTTTTCTCATCTAGGATATAGTTATCTTC
TACATAATCTTCTGTATCTTAAACCCATCAATAAATTATTATATATTTTCTACTTTTAACTACTCAGAAGATT
TAAAAAATCTCATGAGAAGAGTAATCTGTTATGTTTTTCCAGATAATTACCATTTCTGTTGCTCTTCCTTCATTAT
TTTCCAAATTTCTGTTCTGCAAAATTTCCACTTCTCTGATAGACGTTTTTTAGTTCTTTTAGAGTGGTTCTGATAG
GTACAGATTCTCTTATTTTTTGTCTTCTCTGAGGACATCTTTTCTCACCTTCATTCTCAGTGATGTTTTTGTCT
TGATGATTTTTTAGTTGACATTGTTTTCTGTTTCCAGAGTTTCTTTAGCTTCCGTATTTCTGTATGAGAAATCT
GCAGTCATTCAAATTTGTTGTTTTCCCTGTATGTAGTGTCTATTTTCTGTCTCAGATTTCAGGTAATTTATCTTTAG
TTTTAGCCATTTTATTATGTTGGGGATGAGTTTCTTGTATTTATTCCTTTTGAATTTGCTCCAATTCATAAAT
TTGCAGTTTTATGTCTTTTACCAAATTTAGAGGTTTTTCCAGCTAATTTCTAAAAATACTTTTTATTAGCCTGATT
TTCTATCTTTATAGGAAATAGTTTAAAGTATGACAAGTTCCAATAGCTTATATGCCAGAAGGCCTTCAAATAAG
AATTTTGAAGAATAACAGAAAACAACTTTTATATCCTTCTCATGTCTTCTACTGTAAAATTCATATGCTTTGTCT
ACTCTAAACCTAGTTTGAATCAACAGTCTTGAGAATAGATGAAAATTTTGATGAATAGTGGAATCTTTTTAAAT

4472/5332
FIGURE 3895B

GGAAACCTCTTACATGTGATTTTCCITGCCATCTAGAAATAAACCATAGTATTTATGTTGAATCAATCAATATTA
TATTTTGTTTTTTTCTCCTCTTCTGAGACTCTTATTGTGGAAATGTTAGACTTTTATGTTTTCTAAATGTCCC
TGATATTCTACTTATTTAGAACATCTTTTCATTTTTTCCATTATTCTGATTGGGTAATTTTAAATTTGTCTATTTT
CAAATTTGCTGGAGTGTTACCTGTTGTTATCTGTGTGCTCCCACTGAGTGCATTACCACCTTTTAAATTTTG
TCACTGTATGTATCAGTTCTAAAATTTCCATTTTGTCTCTATATTTTAAATTTCTTGCCTTATATTCTATTTT
CTGCAAATGTGTCAGCATTTGCTTGTGAGCTTTTTTTTTTTCAAGACAGGGTCTCAACTCTGTTACCCAGGCT
GGAGTGCAGTGGTGCGATCTCAGCTCACTGCAACCTCTGCCTCCTGGTTCAAGCGATTATTGTGCCTCAGCCTCC
AGAGTAGCTGGGATTACAGGCATGCACCACCACAGCCCAGCTAATTTTTTGTATTTTAGTAGAGACAGAGTTTT
GCTATGTTGGCCAGGCTGGTTTTGAACCTCTGGCCTCAAGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGA
TTACAGGCCACTACACCTGGCACATTTGAGTATTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCTCT
GTCATCTAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTGCAGCCTCTGTCTCCCGGGCTCAAGCGATTCTCT
TGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGCATGCCAACACGCCCGGCTAATTTTTTTTTTAAAAATATTT
TTAGTAGAGACAGGGTTTACCATTTTGGCCAGGATGGTCTTGATCTCCTGACCTCATGATCCACCCGCTCGGC
CTTCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCTGGCCTCATTTGAGTATTTTATAATGTCTCTTTT
AAAGTCTTTGTGATATAATTTCACTGTACATGTTATTAGTGTGTTGGTGTCCACTGAGTTGTCATTTGCCAGACA
AGTGGAGATTTTTGCAGCTCATCCTTGTATTCTCAGTAGTCCGATATGTACCCTCGAAATGTGAATGTTATCTT
ATGAGACTCTGTTTTATTTGTATCCAACAGAAGATGTTTATTATTTATTTGGCTTTCTGTGAACCTGAGGTCTTAA
TATCAGCTCATTTTAAAAGTCTTTGCAGTGGTATTCCGATCTATCCTGTGTGTGCCTATGAGATTGGGTGCAGTG
TATCCTGTTAGCTCCATTCTCAGGGCGTTTGAATGTGAATTAGGACCAGCGCAATGAATGCTCAAGTTGGGGTTG
GGCGTTAGAATTCATAAAAGTCTTTATATGCTCAG

4473/5332
FIGURE 3896

GACGTCTGCGCGGAATGCCGTGGCGCGAACTTGGGACTGCAGAGGCGCGCCTGGCGGATCTGAGTGTGTGCCC
GGGCAGCGGCGCGCGGGACCAACGCAAGGAGCAGCTGACAGACGAAGAAAGTGTGGACAGGAAGGGAGAATTC
TGACGCCAACATGCAGCGAAGTATCATGTTCATTTTTCCACCCCAAGAAAGAGGGTAAAGCAAAGAAGCCTGAGAA
GGAGGCATCCAATAGCAGCAGAGAGACGGAGCCCCCTCCAAAGGCGGCACTGAAGGAGTGGAAATGGAGTGGTGTC
CGAGAGTGAATCTCCGGTGAAGAGGCCAGGGAGGAAGGCGGCCCGGGTCTGGGCAGCGAAGGGGAAGAGGAGGA
TGAAGCCCTTAGCCCTGCTAAAGGCCAGAAGCCTGCCCTGGACTGCTCACAGGTCTCCCCGCCCCGTCTGCCAC
ATCTCCTGAGAACAATGCTTCCCTCTCTGACACCTCTCCCATGGACAGTTCCCATCAGGGATTCCGAAGCGTCG
CACAGCTCGGAAGCAGCTCCCGAAACGGACCATTACAGGAAGTCTTGAAGAGCAGAGTGAGGACGAGGACAGAGA
AGCCAAGAGGAAGAAGGAGGAGGAAGAAGAGGAGACCCGAAAGAAAGCCTCACAGAGGCTGAAGTGGCCACAGA
GAAGGAAGGAGAAGACGGGGACCAGCCACCACGCCCTCCCAAGCCCCCTAAAGACCTCCAAAGCAGAGACCCGAC
GGAAAGCGTTTCAGAGCCTGAGGTGGCCACGAAGCAGGAAGTGCAGGAGGAGGAAGAGCAGACCAAGCCTCCCCG
CAGAGCTCCCAAGACGCTCAGCAGCTTCTTACCCCCCGAAGCCAGCAGTCAAAAAAGAAGTGAAGGAAGAGGA
GCCAGGGGCTCCAGGAAAGGAGGGAGCTGCTGAGGGACCCCTGGATCCATCTGGTTACAATCCTGCCAAGAACAA
CTATCATCCCGTGAAGATGCCTGCTGGAAACCGGGCCAGAAGGTTCTTACCTGGCTGTGGCCCCGACGTTTGA
GAAGATCGAGGAGGTGTCTGCTCGGCTCCGGATGGTGGAGACGCTGAGCAACTTGTGCGCTCCGTGGTGGCCCT
GTCGCTCCAGACCTCCTCCTGTCTCTACCTCAGCCTCAACCACCTTGGGCCACCCAGCAGGGCCTGGAGCT
TGGCGTGGGTGATGGTGTCTTCTCAAGGCAGTGGCCCAGGCCACAGGTCGGCAGCTGGAGTCCGTCCGGGCTGA
GGCAGCCGAGAAAGGCGACGTGGGGCTGGTGGCCGAGAACAGCCGACAGCCAGAGGCTCATGCTGCCACCACC
TCCGCTCACTGCCTCCGGGGTCTTCAGCAAGTTCGCGACATCGCCAGGCTCACTGGCAGTGCTTCCACAGCCAA
GAAGATAGACATCATCAAAGGCCTCTTTGTGGCTGCGGCCACTCAGAAGCCCGGTTTCATCGCTAGGTCCCTGAG
CGGACGGCTGCGCCTTGGGCTGGCAGAGCAGTCCGTGCTGGCTGCCCTCTCCAGGCAGTGAGCCTCACGCCCCC
GGGCCAAGAATTCACACAGCCATGGTGGATGCTGGGAAGGGCAAGACAGCAGAGGCCAGAAAGACGTGGCTGGA
GGAGCAAGGCATGATCCTGAAGCAGACGTTCTGCGAGGTTCCCGACCTGGACCGAATTATCCCCGTGCTGCTGGA
GCACGGCCTGGAACGTCTCCCGGAGCACTGCAAGCTGAGCCCAGGGATTCCCTGAAACCAATGTTGGCCCATCC
CACCCGGGGCATCAGCGAGGTCTGAAACGCTTTGAGGAGGCAGCTTTCACCTGCGAATACAAATATGACGGGCA
GAGGGCACAGATCCACGCCCTGGAAGGCGGGGAGGTGAAGATCTTCAGCAGGAATCAGGAAGACAACACTGGGAA
GTACCCGGACATCATCAGCCGCATCCCCAAGATTAACTCCCATCGGTACATCCTTCATCCTGGACACCGAAGC
CGTGGCTTGGGACCGGGAAGAGCAGATCCAGCCATTCCAAGTGCTCACCACCCGCAAACGCAAGGAGGTGGA
TGCGTCTGAGATCCAGGTGCAGGTGTGTTTGTACGCCTTCGACCTCATCTACCTCAATGGAGAGTCCCTGGTACG
TGAGCCCCCTTTCCCGGCGCCGGCAGCTGCTCCGGGAGAACTTTGTGGAGACAGAGGGCGAGTTTGTCTTCGCCAC
CTCCCTGGACACCAAGGACATCGAGCAGATCGCCGAGTTCTTGGAGCAGTCAGTGAAAGACTCCTGCGAGGGGCT
GATGGTGAAGACCTGGATGTTGATGCCACCTACGAGATCGCCAAGAGATCGCACAACTGGCTCAAGCTGAAGAA
GGACTACCTTGATGGCGTGGGTGACACCCTGGACCTGGTGGTATCGGCGCCTACCTGGGCGGGGGAAGCGGGC
CGGCCGGTACGGGGGCTTCTGCTGGCCTCCTACGACGAGGACAGTGAGGAGCTGCAGGCCATATGCAAGCTTGG
AACTGGCTTCAGTGACGAGGAGCTGGAGGAGCATCACCAGAGCCTCAAGGCCCTGGTGTGCCCAGCCCCACGCC
TTACGTGCGGATAGATGGCGCTGTGATTCCCGACCACTGGCTGGACCCAGCGCTGTGTGGGAGGTGAAGTGGC
TGACCTCTCCCTCTCTCCCATCTACCTGCTGCGCGGGGCTGGTGGATAGTGACAAGGGCATCTCCCTTCGCTT
CCCTCGGTTTATTTCGAGTCCGTGAAGACAAGCAGCCGGAGCAGGCCACCACCAAGTGCTCAGGTGGCCTGTTTGTA
CCGGAAGCAAAGTCAGATTCAGAACCAACAAGCGAGGACTCAGGCTCTGACCCTGAAGATACCTACTAAGCCCT
CGCCCTCCTAGGGCCTGGGTACAGGGCATGAGTTGGACGGACCCAGGGTTATTATTGCCTTTGCTTTTGTAGCAA
ATCTGCTGTGGCAGGCTGTGGATTTTGAAGTCAAGGGGAGGGGTGTGTGTGAGGGGGTGGCTTACTCCGGAGT
CTGGGATTTCATCCCGTCATTTCTTTCAATAAATAATTATCGGATAGCT

4474/5332
FIGURE 3897

CAAGCAGGGCCTACAAGCCGAGGAGGGCTGTTTAAAGGCGCAGGGGCCATTTTACCCTCCAGGTTGGCCCTGCTC
AGGACCAGGAGGAAACACCTCCAGCCCGCGACCTCCTCCACAGGGGGAAGGAAAGCAGGAGGACCACAGAAG
CTTTGGCACCAGGATCCCCGAGTCTTACCCGCGGAGATTCCGGCTGAAGGAGCTGTCCAGCGACTACACCGC
TAAGCGCAGGGAGCCCAAGCCTCCGCACCGGATTCCGGAGCCCAAGCCTCCGCACCGGATTCCGGAGCACAAGCT
CCACCGCGCATGCGCACACGCCCCAGACCCAGGCTCAGGAGGACTGAGAATTTTCTGACCGCAGTGCACCATGGG
AAGCTCTGAAGTTTCCATAATTCTGGGCTCCAGAAAGAAGAAAAGGCGCCGTGGAGAGACGAAGACTTCATGT
GCTGAAAGCTCTGAAGAAGCTAAGGATTGAGGCTGATGAGGCCCCAGTTGTTGCTGTGCTGGGCTCAGGCGGAGG
ACTGCGGGCTCACATTGCCTGCCTTGGGGTCTGAGTGAGATGAAAGAACAGGGCCTGTTGGATGCCGTCACGTA
CCTCGCAGGGGTCTCTGGATCCACTTGGGCAATATCTTCTCTCTACACCAATGATGGTGACATGGAAGCTCTCGA
GGCTGACCTGAAACATCGATTTACCCGACAGGAGTGGGACTTGGCTAAGAGCCTACAGAAAACCATCCAAGCAGC
GAGGTCTGAGAATTACTCTCTGACCGACTTCTGGGCCTACATGGTTATCTCTAAGCAAACCAGAGAAGTCCCGGA
GTCTCATTGTGTCATATGAAGAAGCCCGTGGGAAGAAGGGACACTACCTACCCGATATTTGCAGCCATTGACAA
TGACCTGCAACCTTCTTGGCAGGAGGCAAGAGCACCAGAGACCTGGTTCGAGTTACCCCTCACCACGCTGGCTT
CCCTGCACTGGGGGCCCTTGTGTTCCATAACCCACTTCGGAAGCAAATTCAGAAGGGAAGACTGGTCAGAACTCA
CCCTGAGAGAGACCTGACTTTCCTGAGAGGTTTATGGGGAAGTGCTCTTGGTAACACTGAAGTCATTAGGGAATA
CATTTTTGACCAGTTAAGGAATCTGACCCTGAAAGGTTTATGGAGAAGGGCTGTTGCTAATGCTAAAAGCATTGG
ACACCTTATTTTTGCCGATTACTGAGGCTGCAAGAAAGTTTACAAGGGGAACATCCTCCCCCAGAAGATGAAGG
CGGTGAGCCTGAACACACCTGGCTGACTGAGATGCTCGAGAATTGGACCAGGACCTCCCTGGAAAAGCAGGAGCA
GCCCCATGAGGACCCCGAAAGGAAAGGCTCACTCAGTAACCTTGATGGATTTTGTGAAGAAAACAGGCATTTGCGC
TTCAAAGTGGGAATGGGGGACCACTCACAACCTTCTGTACAAACCGGTGGCATCCGGGACAAGATAATGAGCAG
CCGGAAGCACCTCCACCTGGTGGATGCTGGTTTAGCCATCAACACTCCCTTCCCACTCGTGCTGCCCCGACGCG
GGAGGTTACCTCATCTCTCTTCGACTTCAGTGCCGGAGATCCTTTCGAGACCATCCGGGCTACCACTGACTA
CTGCCGCCGCCACAAGATCCCTTTCCCCAAGTAGAAGAGGCTGAGCTGGATTTGTGGTCCAAGGCCCGGCCAG
CTGCTACATCCTGAAAGGAGAACTGGACCAGTGGTGATGCATTTTCCCTGTTCAACATAGATGCCTGTGGAGG
TGATATTGAGGCATGGAGTGACACATACGACACATTCAAGCTTGCTGACACCTACACTCTAGATGTGGTGGTGCT
ACTCTTGGCATTAGCCAAGAAGAATGTGAGGGAAAACAAGAAGAAGATCCTTAGAGAGTTGATGAACGTGGCCGG
GCTCTACTACCCGAAGGATAGTGCCCGAAGTTGCTGCTTGGCATAGATGAGCCTCAGCTTCCAGGGCACTGTGGG
CCTGTTGGTCTACTAGGGCCCTGATGTCCACCTGGCCTTCTGTTCTTCACTCCCTTCAGCCACACGCTTCATGG
CCTTGAGTTACCTTGGCTGTCTAACAGGGCCAATCACCAGTGACCAGCTAGACTGTGATTTTGATAGCGTCAT
TCAGAAGAAGGCGTCCAAGGAGCTGAAGGTGGTGAAATTTGCTCAGGTTCCCTCGGGAGATCCTGGAGCTGGA
GCATGAGTGTCTGACAATCAGAAGCATCATGTCCAATGTCCAGATGGCCAGAATGAATGTGATAGTTTACAGCCAA
TGCCCTTCACTGCTCCTTTATGACTGCACTTCTAGCCAGTAGCTCTGCACAAGTTAGCTCTGTAGAAGTAAGAAC
TTGGGCTTAAATCATGGGCTATCTCTCCACAGCCAAGTGGAGCTCTGAGAATACAACAAGTGCTCAATAAATGCT
TGCTGATTGACTGATG

4475/5332
FIGURE 3898

GACCGTGGATCGGCTGGAGCGGGCCGCCCGGCTGCAGCAGGAGCTGGACGACGCCACCATGGACCTGGAGCA
GCAGCGGCAGCTTGTGAGCACCTTGGAGAAGAAGCAGCGCAAGTTTGACCAGCTTCTGGCAGAGGAGAAGGCAGC
TGTACTTCGGGCAGTGGAGGAACGTGAGCGGGCCGAGGCAGAGGGCCGGGAGCGTGAGGCTCGGGCCCTGTCACT
GACACGGGCACTGGAGGAGGAGCAGGAGGCACGTGAGGAGCTGGAGCGGCAGAACCGGGCCCTGCGGGCTGAGCT
GGAGGCACTGCTGAGCAGCAAGGATGACGTGCGCAAGAGCGTGATGAGCTGGAACGAGCCTGCCGGGTAGCAGA
ACAGGCAGCCAATGATCTGCGAGCACAGGTGACAGAACTGGAGGATGAGCTGACAGCGGCCGAGGATGCCAAGCT
GCGTCTGGAGGTGACTGTGACGGCTCTCAAGACTCAGCATGAGCGTGACCTGCAGGGCCGTGATGAGGCTGGTGA
AGAGAGGCGGAGGCAGCTGGCCAAGCAGCTGAGAGATGCAGAGGTGGAGCGGGATGAGGAGCGGAAGCAGCGCAC
TCTGGCCGTGGCTGCCCGCAAGAAGCTGGAGGGAGAGCTGGAGGAGCTGAAGGCTCAGATGGCCTCTGCCGGCCA
GGGCAAGGAGGAGGCGGTGAAGCAGCTTCGCAAGATGCAGGCCCAGATGAAGGAGCTATGGCGGGAGGTGGAGGA
GACACGCACCTCCCGGGAGGAGATCTTCTCCCAAGATCGGGAAAGTGAAAAGCGCCTCAAGGGCCTGGAGGCTGA
GGTGTGCGGCTGCAGGAGGAAGTGGCCGCCTCGGACCGTGCTCGGCGGCAGGCCCAGCAGGACCGGGATGAGAT
GGCAGATGAGGTGGCCAATGGTAACCTTAGCAAGGCAGCCATTCTGGAGGAGAAGCGTCAGCTGGAGGGGCGCCT
GGGGCAGTTGGAGGAAGAGCTGGAGGAGGAGCAGAGCAACTCGGAGCTGCTCAATGACCGCTACCGCAAGCTGCT
CCTGCAGGTAGAGTCACTGACCACAGAGCTGTCTAGCTGAGCGCAGTTTCTCAGCCAAGGCAGAGAGCGGGCGGCA
GCAGCTGGAACGGCAGATCCAGGAGCTACGGGGACGCCTGGGTGAGGAGGATGCTGGGGCCCGTGCCCGCCACAA
GATGACCATTTGCTGCCCTTGTAGTCTAAGTTGGCCAGGCTGAGGAGCAGCTAGAGCAAGAGACCAGAGAGCGCAT
CCTCTCTGGAAGCTGGTGCGCAGAGCTGAGAAGCGGCTTAAAGAGGTGGTGCTCCAGGTGGAGGAGGAGCGGAG
GGTGGCTGACCAGCTCCGGGACAGCTGGAGAAGGGAAACCTTCGAGTCAAGCAGCTGAAGCGGCAGCTGGAGGA
GGCCGAGGAGGAGGCATCCCGGGCTCAGGCCGGCCGGCGGAGGCTGCAGCGTGAGCTGGAAGATGTCACAGAGTC
GGCCGAGTCCATGAACCGTGAAGTGACCACACTGAGGAACCGGCTTCGACGCGGCCCCCTCACCTTCACCACCCG
CACGGTGCGCCAGGTCTTCGACTAGAGGAGGGCGTGGCATCCGACGAGGAGGCAGAGGAAGCACAGCCTGGGTC
TGGGCCATCCCCGAGCCTGAGGGGTCCCCACCAGCCACCCCCAGTGAACCTACCCTGTCCCCAGATGCACTAA
CAGATGGGGCCAGCCCCCTTCTCCCTGGACCCACGGGCCCTGTCCCAGGAACCCGCCCCCTGTGACTTCTTG
CCCTTTGGAAATGGTGACAGCACTCTGGCATTATACCCCCACCTGGGTCCCCTGCAACCTCCCATCAAAGGATG
ACCCCTAAACACAGAGGAGCGGGGAGGAGGAGGCAATGACTGGAGCTACCTTGCTTGTGGGGGACTGGGTA
CAGTTGGCAAGCTGTGTTTCCATCAGCTCCCTGTCTCTTCTTCCCTCGTTATTGATCTATAGACATTAGGAA
GGGAGTGAGACGGCTCCTCCACCATCCTCAGCCAGTGCAACCCATTCCCTCTGCTTCTCTCTCTCTCTCTCTC
TCCCTCCCTCTCCTTCCCTACCTCTCACCATCTTTCTTGGCCTCTCTGAGGGTCTCTCTGTGCATCTTTTAGG
AATCTCGTCTCACTCTCTACGTAGCCACTCTCCTTCCCCATTCTGCGTCCACCCCTGAACCTCTGAGCGACA
GAAGCCCCAGGCCTCCACCAGCCTTGAACCTTGCAAAGGGGCAGGACAAGGGGACCCCTCTACTCCTGCTGCT
GCCCATGCTCTGCCCTCCCTTCTGGTTGCTCTGAGGGTTCGGAGCTTCCCTCTGGGACTAAAGGAGTGTCTTTA
CCCTCCAGCCTCCAGGCTCTGGCAGAAATAAACTCCAACCCGACTGG

4476/5332
FIGURE 3899

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGAGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCACCAT
GTCCTCTCTTACCACGAGTTCCCTGGATACCCCGCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCCGGGGTCCGGACCCTGATGTCCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCATCCCAGATCCCGAAGAGGAACCAAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCCTCCGGCTTCCACTACAACGT
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCCTCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTCCGAAACAGCAGCAGGA
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCCAAAGTCAGGCCCTG
GCCCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCCTGGTTTCTGTCAGCTGGGCGGGAGGACCAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCACCGTGCAGGCCTGCAGGTGGAGTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGCGGCTGGGCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCAACGTGCAGGAGCCGGGCCGCGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTACACGCGCATCAAGAGGCCGCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCTTGGCGGCTCCAGGACAAGAAGCTGCCGCCTCT
GCTGTGCGGAGATCTGGGACGTCCACGAGTGAAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCTGACCACCCTCCA
GCAGATAGACGCCGGCACCCCTTCTCTTCTTAGGGTGGAAAGGGGCCCTGGGCGGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGCTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCAGC
CAGTGCACCTTGAACAGAGGGAGGGGAGGCCATGGCTCTCCCCCTAGCCCCGGGAGACCAGGGCCTTCTCTT
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

4477/5332
FIGURE 3900

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAACGCTGTTTGAAGCGGGATCGATGGCAAGCGGCGGCCAG
GCCCAGGGCCCCGGGTGCCCCAAAGCGGGCCCCGTGGGGGCCCTCTGGGATGATGATGATGCACCTCGGCCATCCC
AATTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCAG
CGCAGCCTGTGCCTGGGGGGCCCCCACCATCCCGCGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCCTGTCTGTCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACTTGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCCGCGCTGTCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGCCCCCTCCC
CGTTCCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGCCCCCGGCCCGCCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGTTTCATGGTGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTAGCTTCGATATCGAGTGCGCCGGCCGCAAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTATCCAGATCTGTCTCGCTGGGCCGTGCGCTGGGGGGAGCCGGAGCCCTTCCCTACGCTGGCGCTCACCCCTGC
GGCCCTGTGCCCCCATCCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATGGACCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCGTACCTCATCT
CTCGGGCCCAGACCCTCAAGGTACAAACATTCCCTTTCTGGGCCGTGTGGCCGGCCTTTGCTCCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCCGGCGGGACACCAAGGTTGTCAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGTGCTGCGGGAGTACAAGCTCCGCTCCTACACGCTCAATGCCGTGAGCTTCCACTTCCCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATCACCGACCTGCAGATGGGAACGACCAGACCCGCCGCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGTGAGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAGGTCTGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGTGATGCCCCTGGTGAAGTCAGAGGGCGGCGAGGACTACACGG
GAGCCACTGTATCGAGCCCTCAAAGGGTACTACGACGTCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCACAACCTGTGTTACACCACGCTCCTTCGGCCCGGGACTGCACAGAACTGGGCCTGA
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCGGAAGGGGCTGTGCCCC
AGTCTCTGGAATGAGTGCCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCTGAGTGGCAGCGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCCTGGAGATCTCACAGAGCGTCACGGGGTTCGGACGTCAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTTCGGCGTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTTCGCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCATACCTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCGACGCCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAAGTCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTCACTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCTCCGACTATGCCGGCAAGCAGGCCCACGTGGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGAGTGCGCCACAGCTGGGCGACCGCTCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCTCCTGCGCATCTTCAGCCCATCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTACAGGGCAAGGTGGGCGGCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGCTCAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTCACTGACCAGCCGGGACTGCCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCTGGACCTGAGGCCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGCT

4478/5332
FIGURE 3901

GCCTCCTTCCGTCTGTAACTCACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCGGCAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTACGAGGATGGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCCCTCCAGGGACGTATCACAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCGCTCCGCATCATGACGTACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCTTGAAGTTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGAGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTGCGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCTCTCTGCTTCTGCTGTGCCCTTACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

4479/5332
FIGURE 3902

GCCGTCCTTCGCTGGTGGGAAGAAGCCGAGATGCGGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTGAGATCGATGACAG
TGCCAACTTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTCACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTCCGACCAGCTGACCCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCCTTCATTGAGCGCTGGAGATGGAACAGGCCCAAGAAGCCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCCTGTTTCCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCTTGTCCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGCTCCTGCGCCCGCCTCCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCCTGCCCATGGAGTAGAGCCCAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCGAGCCCATGCAGTCTGGGAACATGCCGCTTCTCTCCAGCCTCTGTGCCTTTGTTC
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCCTTGAGGGTACCCTGGGTCCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGACAGCCCCTGGGGTCTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTTGAAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCCTGATGTACAAGCTTGATTGAAATTCAGTCTCACTT
GATACGTTATTAGAAACCCAAGGAATGGCTGTCCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAACTGTCCCCCAGATCGACACGC

4480/5332
FIGURE 3903

CTTCAGGGCCACGCGGCCCCGGGCGTTCCGTGTGGAGCAGGAGTCCCGCGGGGCCCCACGGGAGTCGTAGTCCGGC
GCGCGGGGATCACCGGGAGCTGTAGTCCGTCCCGCCTGCCCAGTCAGCGCGGTGTTGCCCCCCCCGCACTCGGAG
CCCAGAGCCGCGCCCCAGGAAGGGGATGCGGAAACCCCTGGCTCGGTGGAGCGGAGAGGCAGGCGGGCAGGAGCC
GAGGACGGCATGTCCCAGGCCCCGGGAGCACAGCCGAGCCCCACCCACCGTGTACCACGAACGGCAGCGCCTGGAG
CTGTGTGCTGTCCACGCCCTCAACAACGTTCTGCAGCAGCAGCTCTTTAGCCAGGAGGCTGCCGATGAGATCTGC
AAGAGGTTGGCCCCAGACTCCCGGCTGAACCCTCATCGCAGCCTCCTGGGCACCGGCAACTATGATGTCAATGTG
ATCATGGCCGCTCTGCAGGGGCTGGGCCTGGCCGCCGTGTGGTGGGACAGGAGGAGGCCCCCTGTCCCAGCTGGCC
CTGCCCCAGGTACTGGGGCTGATCCTGAACCTGCCCTCGCCCGTGTGCTGGGGCTGCTGTCACTGCCGCTGCGC
CGGCGGCACTGGGTGGCCCTGCGCCAGGTGGACGGTGTCTACTACAACCTGGACTCCAAGCTGCGGGCGCCCCGAG
GCCCTGGGGGATGAGGACGGAGTCAGGGCCTTCCTGGCGGCTGCGCTGGCCCAGGGCCTGTGCGAGGTGCTGCTG
GTAGTGACCAAGGAGGTGGAGGAGAAGGGCAGCTGGCTGCGGACAGACTTGACCATGGCTGACCATCGGCGCCCCAC
AGCGCAGTCCCTGCGCATCCCCCTCCGGCTGCGCACACTGCATGCCTGGGAAAGGCCAGCACTTCATGGACCCCTG
GGGAGGCCCCGCCCCCTCCCCACACCCCTGCTCCCCACTGCCGCTGCTGCCTCAATAAATCTGCTGATTTC

4481/5332
FIGURE 3904

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCCACA
CCTGTACCTCCACGGTTGCCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCCACCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTGAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTGTTGGTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTTCTTGACCGCCCCCTGCCCCACCAGAGACATGGATGGAGGGTGTGTTTCGTCCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGCTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGACAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCTGTACTATTATTGATGTTATTATTATTAATAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCCCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCAGCCTCAAC
ACGCTGGAGCTTTTGACAACCGGCTGACCACGGTGCCACGCAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCCATCGAGAGCATCCCTCCTACGCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGCGGCCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCCTGGAGGAGCTGGAGCTGTCG
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCGCTGGAGGAGCTCAACCTGTCCCAAC
AACCTGATGTGCTGCCCCACGACCTCTTACGCCCTGCACCGCCTCGAGCGCGTGACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCCAGCAACACGACGTGCTGC
GCCCCGTGTCATGCGCCCCGCCGCCCTCAAGGGGCGCTACATTGGGGAGCTGGACCAGTTCGATTTCACCTGCTAT
GCGCCCGTCATCGTGAGCGCGCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG
GGCACCTCCATGACCTCCGTCAACTGGCTGACGCCCAACGGCACCCCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGTCATGACGGCACGCTTAACCTTACCAACGTACCGTGACGAGACACGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTACACGGTGACCGTGAGAGACCCTGGAGACGCAGCCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCCCACGACAGACGGTGTCTGGGGTGGGGGCCGG
CCTGGGGACGCGGCCGCCCTGCTCTGCTTCTACACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTCACGGTGCCCATCACGGATGTGACGGAGAACGCCCTCAAGGACCTGGACGACGTATGAAGACCACAAA
ATCATCATCGGCTGCTTCTGTGGCCATCACGTTTCATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACACGGGCCACGCGCACCGTGAGATCATCAACGTGGAGGACGAGCTGCCCGCC
GCCTCGGCCGTGTCCGTGGCCGCCGCGGCCGCGGTGGCCAGTGGGGGTGGTGTGGGCGGGACAGCCACCTGGCC
CTGCCCCCCTGGAGCGAGACCACCTCAACCACCACCTACGTGGCTGCCGCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAGGCCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCAAGGAGAAGCTGCAAGAGACGCAGATCTGA

4482/5332
FIGURE 3905

GACCAACGGACCGGACAGAGACGAGGAGAGGAACAGGAAGAGAGAAGCTGGGAGAATCGGGAACCTGGGGGCTAG
TGACCTGCACACAGGGCAGGGGCACTCGGCAGTTCCCAGAGGCCACCCCTCCCACCCCAGACATCCAGACATCTG
GAACTTTGGGTGCCAAGAGTCCAGCTTAATGCAGGCAGCCTGGCTTTTGGGGGCTTTGGTGGTCCCCAGCTCTT
GGGCTTTGGCCATGGGGCTCGGGGAGCAGAGAGGGAGTGGGAGGGAGGCTGGGGAGGTGCCCAGGAGGAGGAGCG
GGAGAGGGAGGCCCTGATGCTGAAGCATCTGCAGGAAGCCCTAGGACTGCCTGCTGGGAGGGGGGATGAGAATCC
TGCCGGAACGTGTGAGGGAAAAGAGGACTGGGAGATGGAGGAGGACCAGGGGGAGGAAGAGGAGGAGGAAGCAAC
GCCAACCCCATCTCCGGCCCCAGCCCCCTCTCCACCCCTGAGGACATCGTCACTTACATCCTGGGCCCGCTGGC
CGGCCTGGACGCAGGCCTGCACCAGCTGCACGTCCGTCTGCACGCGTTGGACACCCGCGTGGTCGAGCTGACCCA
GGGGCTGCGGCAGCTGCGGAACGCGGCAGGCGACACCCGCGATGCCGTGCAAGCCCTGCAGGAGGCGCAGGGTCG
CGCCGAGCGCGAGCACGGCCGCTTGGAGGGCTGCCTGAAGGGGCTGCGCCTGGGCCACAAGTGCTTCCTGCTCTC
GCGCGACTTCGAAGCTCAGGCGGCGGCGCAGGCGCGGTGCACGGCGCGGGGCGGGAGCCTGGCGCAGCCGGCAGA
CCGCCAGCAATGGAGGCGCTCACTCGGTACCTGCGCGCGGCGCTCGCTCCCTACAAGTGGCCCGTGTGGCTGGG
CGTGACGATCGGCGCGCCGAGGGCCTTACCTCTTCGAAAACGGCCAGCGCGTGTCTTCTTCGCTGGCATCG
CTACCCCGCCCCGAGCTCGGCGCCAGCCAGCGCCTCGCCGCATCCGCTCAGCCCGGACCAGCCCAACGGTGG
CACGCTCGAGAACTGCGTGGCGCAGGCCTCTGACGACGGCTCCTGGTGGGACCACGACTGCCAGCGGCGTCTCTA
CTACGCTGCGAGTTCCCTTCTAGCGGGGCGGTAACCCGCGCTCCCTGCCCATCCACCAACCCGGCCTTTCCCT
GCGCCGTGCCACCCCTCCTCCGGAATCTCCCTTCCCTTCCCTGGCCACGAATGGCAGCGTCTCCCCGACCCCGAG
TCTGGGCGCTTCTGGGAGGGCTCTTGCGGTGCCGGCACTCCTCCTTGTTAGTGTCTTCCCTGAAGGGGCGGGCA
CCAGGCTAGGTCCGGTGCCAATAAATCCTTGTGGAATCTG

4483/5332
FIGURE 3906

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTGTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA
CAGCCGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCACCCGGCTGCTGATGGCCT
GGTGCCAGCTGGGAGTCCCTCCCGGCACTTCGAGGGCACTGAGCCACCCTTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCCGCCAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGCACAAGGA
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCTTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCCTGGCCTGGTGCTCCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTTTTGAGCTGCATTCAAGGAAGTGCGGGACATGGTAGGGGAGGCAAAAAGCCTTGGGCACTACCCTCCCTGTGG
AGCTGTTTCGGTGTCCGTCGAGCTAGCCACACCCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCTGTGGGTGTCACTGGCCAGATGTGATGAGGGAAGCAGGCCTTGTGAGTGGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA
CATAAAAGCATCTTGAAGCTTTT

4484/5332
FIGURE 3907

TCCTCCACCTGCTGGCCCCCTGGACACCTCTGTCAACCATGTGGTTCTGGTTCTGTGCCTCGCCCTGTCCCTGGGG
GGGACTGGTGCTGCGCCCCGATTTCAGTCCCGGATTGTGGGAGGCTGGGAGTGTGAGCAGCATTCCCAGCCCTGG
CAGGCGGCTCTGTACCATTTTCAGCACTTTCCAGTGTGGGGGCATCCTGGTGCACCGCCAGTGGGTGCTCACAGCT
GCTCATTGCATCAGCGACAATTACCAGCTCTGGCTGGGTGCCACAACCTGTTTGACGACGAAAACACAGCCCAG
TTTGTTTCATGTCAGTGAGAGCTTCCACACCCTGGCTTCAACATGAGCCTCCTGGAGAACCACACCCGCCAAGCA
GACGAGGACTACAGCCACGACCTCATGCTGCTCCGCCTGACAGAGCCTGCTGATACCATCACAGATGCTGTGAAG
GTCGTGGAGTTGCCACCGAGGAACCCGAAGTGGGGAGCACCTGTTTGGCTTCCGGCTGGGGCAGCATCGAACCA
GAGAATTTCTCATTTCAGATGATCTCCAGTGTGTGGACCTCAAAATCCTGCCTAATGATGAGTGCAAAAAAGCC
CACGTCCAGAAGGTGACAGACTTCATGCTGTGTGTGTCGGACACCTGGAAGGTGGCAAAGACACCTGTGTGGGTGAT
TCAGGGGGCCCGCTGATGTGTGATGGTGTGCTCCAAGGTGTCACATCATGGGGCTACGTCCCTTGTGGCACCCCC
AATAAGCCTTCTGTGCGCGTCAGAGTGCTGTCTTATGTGAAGTGGATCGAGGACACCATAGCGGAGAACTCCTTGA
ACGCCCAGCCCTGTCCCTACCCCCAGTAAAATCAAATGTGCATCC

4485/5332
FIGURE 3908

GGGCACCAATGGCAAGATCCCTTCTCCTGCCCTGCAGATCTTACTGCTATCCTTAGCCTTGGA~~AA~~ACTGCAGGAGA
AGAAGCCCAGGGTGACAAGATTATTGATGGCGCCCCATGTGCAAGAGGCTCCCACCCATGGCAGGTGGCCCTGCT
CAGTGGCAATCAGCTCCACTGCGGAGGCGTCTGGTCAATGAGCGCTGGGTGCTCACTGCCGCCCCTGCAAGAT
GAATGAGTACACCGTGACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTC
ATTCCGCCACCCCGGCTACTCCACACAGACCCATGTTAATGACCTCATGCTCGTGAAGCTCAATAGCCAGGCCAG
GCTGTCTATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCGAACCCCTGGAACCACCTGTACTGTCTCCGG
CTGGGGCACTACCACGAGCCCAGATGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCCCC
CCAGGACTGCACGAAGGTTTACAAGGACTTACTGGAAAATTCATGCTGTGCGCTGGCATCCCCGACTCCAAGAA
AAACGCCTGCAATGGTGAAGTCAAGGGGACCGTTGGTGTGCAGAGGTACCCTGCAAGGTCTGGTGTCTGGGGAAC
TTCCCTTGCGGCCAACCAATGACCCAGGAGTCTACACTCAAGTGTGCAAGTTCACCAAGTGGATAAATGACAC
CATGAAAAAGCATCGCTAAAGCCACACTGAGTTAATTAACTGTGTGCTTCCAACAGAAAATGCACAGGAGTGAGG
ACGCCGATGACCTATGAAGTCAAATTTGACTTTACCTTTCCTCAAAGATATATTTAAACCAACCTCATGCCCTGT
TGATAAACCAATCAAATTGGTAAAGACCTAAAACCAAAACAAATAAAGAAACACAAAACCTCA

4486/5332
FIGURE 3909

ACCAGCGGCAGACCACAGGCAGGGCAGAGGCACGTCTGGGTCCCCTCCCTCCTTCTATCGGCGACTCCCAGATC
CTGGCCATGAGAGCTCCGCACCTCCACCTCTCCGCCGCTCTGGCGCCCGGGCTCTGGCGAAGCTGCTGCCGCTG
CTGATGGCGCAACTCTGGGCCGAGAGGCGGGCGTGTCTCCCCAAAACGACACGCGCTTGACCCCGAAGCCTAT
GGCTCCCCGTGCGCGCGCGGCTCGCAGCCCTGGCAGGTCTCGCTCTTCAACGGCCTCTCGTTCCACTGCGCGGGT
GTCCTGGTGGACCAGAGTTGGGTGCTGACGGCCGCGCACTGCGGAAACAAGCCACTGTGGGCTCGAGTAGGGGAT
GACCACCTGCTGCTTCTTCAGGGAGAGCAGCTCCGCCGGACCACTCGCTCTGTTGTCCATCCCAAGTACCACCAG
GGCTCAGGCCCCATCCTGCCAAGGCGAACGGATGAGCACGATCTCATGTTGCTGAAGCTGGCCAGGCCCGTAGTG
CTGGGGCCCCGCGTCCGGGGCCCTGCAGCTTCCCTACCGCTGTGCTCAGCCCGGAGACCAGTGCCAGGTTGCTGGC
TGGGGCACCAACGGCCGCCCGGAGAGTGAAGTACAACAAGGGCCTGACCTGCTCCAGCATCACTATCCTGAGCCCT
AAAGAGTGTGAGGTCTTCTACCCTGGCGTGGTCACCAACAACATGATATGTGCTGGACTGGACCGGGGCCAGGAC
CCTTGCCAGAGTGACTCTGGAGGCCCCCTGGTCTGTGACGAGACCCTCCAAGGCATCCTCTCGTGGGGTGTTTAC
CCCTGTGGCTCTGCCCAGCATCCAGCTGTCTACACCAGATCTGCAAATACATGTCCTGGATCAATAAAGTCATA
CGCTCCAACTGATCCAGATGCTACGCTCCAGCTGATCCAGATGTTATGCTCCTGCTGATCCAGATGCCAGAGGC
TCCATCGTCCATCCTCTTCTCCCCAGTCGGCTGAACCTCTCCCTTGTCTGCACTGTTCAAACCTCTGCCGCCCT
CCACACCTCTAAACATCTCCCCTCTCACCTCATTCCCCACCTATCCCCATTCTCTGCCTGTACTGAAGCTGAAA
TGCAGGAAGTGGTGGCAAAGGTTTATTCCAGAGAAGCCAGGAAGCCGGTCATCACCCAGCCTCTGAGAGCAGTTA
CTGGGGTCACCCAACCTGACTTCCTCTGCCACTCCCTGCTGTGTGACTTTGGGCAAGCCAAGTGCCCTCTCTGAA
CCTCAGTTTCTCATCTGCAAAATGGGAACAATGACGTGCCTACCTCTTAGACATGTTGTGAGGAGACTATGATA
TAACATGTGTATGTAAATCTTCATGGTGATTGTGATGTAAGGCTTAACACAGTGGGTGGTGAGTTCTGACTAAAG
GTTACCTGTTGTCGTG

4487/5332
FIGURE 3910

ATGCACCGAGCAAGAATATCTCAGGCTGTGACCATCTGGAGAGGGTTACGGTTTGAGAAAAGCAGCATTGAAGTT
GACGCTGATCTTGGTAATACATTTGCAGAGCATGCTTATGGTCAGACGTGGATGATGGCGCTCATTCTGCACGAC
GATGAGGTGACCGTCACGGAGGATAAGATCAATGCTCTCATTAAAGCAGCTGGCCTGGTCAATGTCAACATCGGG
AGCCTCATCTGCAGTGTAGAGGCTGGTGGAGCTGCTCCAGCTGAGGAGAAGAAAGTGAAGCAAAGAAAGAAGAA
TCCGAGGACGGTGATGATGACATGCGCTTTGGTCTTTTTCTACTGA

4488/5332
FIGURE 3911

CCGGCTCTGGCTGGGCGCCCGCCTCCACAGCCGCGCCAGGGTTCTCCCGCCACTGCCGCGCGACCCCGCC
CCCGCGGGGTTAAGATCACACACGCGCCACGCGGGCCCGCGGGGCGTGCACTTTCGCTGGGTTCCGTCCGCGCG
AGCCCAAACAGTTAACTGAACGGGGAGGGGAGGGGCGGGGCTTACCCGGGGTCACCGCCAGGGCCCTGCTGGGT
TCCACGCCACGTTCCGTGTCTCCGCAGGGCGTTTCGATCCCTAGAGGGAGGAGCCTGTCCAAACGGACGCTAACGGC
CTACCTCCCCCTCAGGTGCTCTTACAGCCTGTTCCAAGTGTGGCTTAATCCGTCTCCACCACCAGATCTTTCTCC
GTGGATTCTCTGTCTAAGACCGCTGCCATGCCAGTGACGGTAACCCGCACCACCATCACAACCACCACGACGTCA
TCTTCGGGCGCTGGGGTCCCCCATGATCGTGGGGTCCCTCGGGCCCTGACACAGCCCTGGGTCTCCTTCGCCTG
CTGCAGCTGGTGTCTACCTGCGTGGCCTTCTCGCTGGTGGCTAGCGTGGGCGCCTGGACGGGGTCCATGGGCAAC
TGGTCCATGTTACCTGGTGCTTCTGCTTCTCCGTGACCCTGATCATCCTCATCGTGGAGCTGTGCGGGCTCCAG
GCCCGCTTCCCCCTGTCTTGGCGCAACTTCCCCATCACCTTCGCCTGCTATGCGGCCCTCTTCTGCCTCTCGGCC
TCCATCATCTACCCACCCACCTATGTCCAGTTCTGTCCCACGGCCGTTTCGCGGGACCACGCCATCGCCGCCACC
TTCTTCTCCTGCATCGCGTGTGTGGCTTACGCCACCGAAGTGGCCTGGACCCGGGCGCCGCGGAGATCACT
GGCTATATGGCCACCGTACCCGGGCTGCTGAAGGTGCTGGAGACCTTCGTTGCCTGCATCATCTTCGCGTTCATC
AGCGACCCCAACCTGTACCAGCACCAGCCGGCCCTGGAGTGGTGGTGGCGGTGTACGCCATCTGCTTCATCCTA
GCGGCCATCGCCATCCTGTGAACCTGGGGGAGTGACCAACGTGCTACCCATCCCCTTCCCCAGCTTCCTGTCTG
GGGCTGGCCTTGCTGTCTGTCTCCTCTATGCCACCGCCCTTGTTCTCTGGCCCTCTACCAGTTCGATGAGAAG
TATGGCGGCCAGCCTCGGCGCTCGAGAGATGTAAGCTGCAGCCGCAGCCATGCCTACTACGTGTGTGCTGGGAC
CGCCGACTGGCTGTGGCCATCCTGACGGCCATCAACCTACTGGCGTAAGTGGCTGACCTGGTGCACCTCTGCCAC
CTGGTTTTTGTCAAGGCTTAAGACTCTCCCAAGAGGCTCCCGTTCCTCTCCAACCTCTTTGTTCTTCTTGCCCG
AGTTTTCTTTATGGAGTACTTCTTCTCCTCCGCCTTCTCTGTTTTCTCTTCTCTGCTCTCCCTCC

4489/5332
FIGURE 3912

GCCGCTGTCGCCGCCGCGGAGACAAAGATGGCTGCGAGAGTCGGCGCCTTCCTCAAGAATGCCTGGGACAAGGAG
CCAGTGCTGGTCGTGTCCTTCGTCGTCGGGGGCCTCGCTGTAATTCTGCCCCATTGAGCCCCTACTTCAAGTAC
TCCGTCATGATCAACAAGGCCACGCCCTACAAC TACCCAGTGCCCGTCCGTGATGATGGGAACATGCCCGACGTG
CCCAGCCACCCCCAGGACCCTCAGGGCCCCAGCCTGGAGTGGCTGAAGAACTGTGAGCACCTCCACTGACAGAG
GCGGCCCCCTCCCACGGCTCQCAATAAAAATGTGAAAACC

4490/5332
FIGURE 3913

AGAAACAGTGGTGC GCGGAGAGGAGAGGCCTCGGGATGCTCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTCA GTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATTA
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACCAACCTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA;
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCTTGGTCCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTTCGTCAGCGTCACCGCCTCCACCACCCAGGGGCGAGCAGCTGTCTGGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCTGCGACATGGCGCTGGAGCTGAACGCCCTCCAAGCACCGCATCTACGAGTATGTGGAGTCCCGGATGTCTCT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA
CCAACCTCTCCAAGATGCCCGCCTGCAACATCATGTCTCGGGGCCAGCGCAAGACGCTGTCTGGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGCTACATCTACCACAGTGACATCGTGAGTCCCTGCCACCGGATCTGCGGC
GGAAAGCGGGCCCGGCTGGTGGCCGCCAAGTGACACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTAGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTCACCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTGAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCCTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCGGGCCTGGCCTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGCTCTTTTTTAACTGAGAAAGGAGATTTTTTGAAAAGAGTACAATTAA
AAGGACATTGTCAAG

4491/5332
FIGURE 3914A

AAATTCTCCCTGGGGGTAAGGTACCAGCCCTGTCCTTTATGGGCTTCTTGTTCTAAAGCATATCCGTCCCATATG
GTTGCTGCTAGTCACATGTGGTGATTAGTAAGTAAATGAAAAATTCAGTTCCCTCCATTACACTTGCCAC
ATTTAGATGTTTTCAGTGGCCAAACAGATATGCGCAAATAGAGTGTTCAGCATTGCAAAGTTCTGTTGGATAGCA
CTGTTTGCCAGATGTTCCCTTCTTTGTGGGTGAGGACTCTTTTGGTGTGACTTCCCTCTGTATTGAGGCTCTGT
TCCTCAGTATGGGGCTGTTTCTGTCTTTACAGTAAGTGAAGTACTCCAGGGTTCCTTGCCTGTCACACGTAGAGTG
GGAGCGGCGCTGGATCCCAGGGAAGTGTGCTTTTATTGTAGGCCCCCTCCCTGGAGGGGAAGAGGGCAATCTC
CGCTGGTATCTCAGAAGTCTTCTTCTGAGGCATAAGCCTCTCTTCCCAGGGCTCCCTGGTCTCGCTGTCAGGCC
CTAAGGTATGCTTCCCTTGGACTAAAGCTCCTTGGAACTCCCTTTTGACCTCAGTCTTCTCTGGGTTCCAGGTA
ACTTCCCTTTAAATAAAGACGCTCCTCTCTTGAAGTTTTGGGTTCCCTGCCCTGATGGTCTATGTCTCCCTGACTC
TAAATTACCAATCCACTTGCTATGGGATTCCCTCCATGAGTGCAGATCGGCTCCCTCAGAGCTGCGGTACCTTTGC
ACCTCTTATCTTAGTAAGATTCTGTCTTCTCCAGGTCTCTCTTGGGTACTGCCTTCTGCCCCAAATCTCTA
AGCCTTCTTGGTATTAGCTTCTTGGGTTAGGAGTGTTATTTCCCTTTGGTTTAAAGATCCTGCTCTGGAATAAA
TGTCTTGGTGGTTTGGTCCCTTCTACTTGGCATTCAGCCCTGTCTGCATGAGCGGGTTCAGCTCTTCACAGCTT
TCGGCATCTCTGCTCGCCGTCGTTTTCCCCACCCCCAATCTTCTCTCTCTACCTACAGCTTACACACACACAC
ACACACACACACACACACACACACACGCCCCCTCTCTGTGAGCTGCCAGTTTCATTTGTCTCCTGACTTGTCTGAG
GGATGACCTCTCCTAGCCACCTCTGCCCAGCCCCCTCTGAGTAGGAAGTGTGATTTCAGGGCTAATGCCTCCATC
CCAGTCATCAGCTGTGTGCAGCATGACTGTCTGCTCTGAAAAACCTTTTGGTGTATTCTGGGGAGAAGGTAC
TCCATGCTCTAGGAATTTTCCACTTCCCTGAGTCAGAGGCACACAAAAAGTATGTAACCTTTCTTGTTCACAA
ACTTATGGGGTCCCTGTTGGCCAGACACTATGCTGGGCAGTCAAGCGAGCATCAGGAGAACTGGGGCTGGTCTC
TTGTGAGATAGCAATGCTTCTTCTTTACCAGTCCCACCTACCTCACTATGCTGACTAGGTCCATGTCTCTGG
GTTTTTACCAGCCAGGGAATACGTGTTAATTCCTCTCCAATCTCTCTAGCAGCGTCCGTCTCCAAGAGAGTATG
AAGAGAGTGCCTCTGTAGGGCAGGGAAGATGCGGACAAGCGCAAATCCAAGGTGAGATTGATCGCTGCCTCAA
GAAGGTGTCCGAGGGCGTGGAGCAGTTTGAAGATATTGGCAGAAGCTCCACAATGCAGCCAACGCGAACCAGAA
AGAAAAGTATGAGGCTGACCTAAAGAAGGAGATTAAGAAGCTACAACGGCTGAGGGACCAAATCAAGACATGGGT
AGCGTCCAACGAGATCAAGGACAAGAGGCAGCTTATAGACAACCGCAAGCTCATTGAGACGCAAATGGAACGGTT
CAAAGTTGTGGAACGAGAGACCAAAACCAAAGCTTACAGCAAAGAGGGCCTGGGCCTGGCCAGAAAGGTAGATCC
TGCCAGAAAGGAGAAGGAAGAGGTGGCCAGTGGCTCACGAATACCATCGACACGCTCAACATGCAGTGGACCA
GTTTGAAGTGAAGTGGAGTCACTGTGAGTGCAGACACGCAAGAAGAAGGGCGACAAGGATAAGCAGGACCGGAT
TGAGGGCTTGAAGCGGCACATCGAGAAGCACCGCTACCAGTGCAGTGTGAGAGACCATCCTGCGCATCTGGGA
CAATGACTCCATCTCGTTGACGCCATCCGCAAGATCAAGGACGACGTTGAGTACTATGTTGACTCATCCCAGGA
CCCCGACTTCGAGGAGAACGAGTTTCTCTACGATGACCTGGACCTCGAGGACATTCACAGGCGCTGGTTCGCCAC
CTCCCCCTCCCAGCCACAGCCACATGGAGGATGAGATCTTCAACCAGTCCAGCAGCACGCCCACCTCAACCACCTC
CAGCTCTCCCATCCCGCCAGCCCACTGTACCAGGAAAACCTCTGAAGATGATAAGAAGAGGGGACGTTT
CACAGACAGTGAAGTCAAGCTCTCCAGCCAAAAACGGCTCCAAGCCTGTCCACAGCAACCAGCACCCCTCAGTC
CCCAGCTGTGCGGCCACCTACCCCTCCGGCCCCCGCCTGCTGCCTCTGCCTTGAGCACCACTCCTGGCAACAA
TGGGGTCCCCGCCCCCGCAGCACCCCCAAGTGCCCTGGGCCCCAAGGCCAGTCCAGCTCCCAGCCACAACCTCGGG
CACCCTGCTCCCTATGCCCAGGCTGTGGCCCCACCAGCTCCCAGTGGGCCCCAGCACGACCCAGCCCCGCCCCC
CAGCGTCCAGCCTAGCGGAGGCGGAGGCGGCGGAGGCGGAGGTGGAGGGAGCAGCAGCAGTAGTAACAGCAGTGC
CGTGGAGGGGCTGGCAAGCAGAATGGCGCCACCAGTTACAGCTCAGTTGTGGCAGACAGCCCGGCAGAGGTGGC
TTTGAAGCAGCAGTGGGGCAACAATGCCAGCAGCCAGGCTTGGGCCCCCTTCCGGCCCCACAACCCACCTCC
CAGCACCTCGAAGGAACCCAGTGCAGGACGCCCCAACGGGGCTGGGGGCGTGGCCCCAGGCTCAGGGAACAACCTC
AGGGGGACCCAGCCTCTGTTGGTCCACTGCCTGTGAATCCTCCAGCTCCCCAACGCCAGCTTCAGTGATGCCAA
GGCAGCCGGTGCCCTGCTCAATGGGCTCCACAGTTCAGCACCGCCCCAGAAATCAAGGCCCTGAGCCTCTGAG
CTCCTTGAAGTCCATGGCGGAACGGGCAGCCATCAGCTCTGGCATTGAGGACCTGTGCCAACGCTGCACCTGAC
CGAGCGAGACATCATCTGAGCAGTACATCAGCACCTCCGGCCTCAGCCAGCCGCCCTGAGCTGTGAGAGGT
GAACATACCGCTGTGCTGGGTGTCTGTCCACTGGGCCCCGTGCCCCCTACCAAGGAGCAGCTCTATCAGCAGGC
CATGGAAGAGGGCGCCTGGCACCATGCCTCACCCCTCTGACTCTGAGCGTATTGGCAGTACCTCCCCCGGAA
CCCCGTGTCGACGCCCCCTACCACCACAGATGCCACCCCCACACTCGGACACTGTGGAATTCTACCAGCGCCT

4492/5332
FIGURE 3914B

GTCGACCGAGACACTCTTCTTCATCTTCTACTATCTGGAGGGCACTAAGGCACAGTATCTGGCAGCCAAGGCCCT
AAAGAAGCAGTCATGGCGATTCCACACCAAGTACATGATGTGGTTCCAGAGGCACGAGGAGCCCAAGACCATCAC
TGACGAGTTTGAGCAGGGCACCTACATCTACTTTGACTACGAGAAGTGGGGCCAGCGGAAGAAGGAAGGCTTCAC
CTTTGAGTACCGCTACCTGGAGGACCGGGACCTCCAGTGAACACCGGGCCCTCCCTCTACCCACCCCTTCCCCCG
CATGCTGATCCCCCTGCCCAGGTGAGGGCCCTGCCCTGGAAGACTGGAGGGAGGCCCCAAGCCACGGGGCATCC
CCCTCTCCCAGGAAGCAGGGAGGGGGCCGGGAGGTTTTCTCTCAGCCCCACCCTGGGGGCCCCGGGGCGAGGGC
TGCCCCCTCCTCCCCCTCCCCAGTGAGGGACATTTTTTGGTAAACCTATTTTCATTTTGAAAAATATTTATGAATA
AATAGTTTTATATG

4493/5332
FIGURE 3915

TGTCCTGCCTGGTGGCCACTAGAGACAGCCCAGCCTGGGCCATGGAAGAAAACCCGACCTTGGAATCAGAAGCCTG
GGGCTCCTCTAGGGGGTGGCTGGCCCCCGGGAGGCCAGAGGAGGCCCATCGCTGTCTTCTGTGCTGAACGAGCT
GCCCAGTGCTGCCACCCTTCGGTACCGAGACCCTGGGGTGTGCCTTGGGGGGCGCTGGAGGAGGAGGAGGAGGA
TGGAGGAAGGAGCAGAAAGGCCTTCACAGAAGTCACCCAGACAGAGCTGCAGGACCCTCACCCCTCCCGGGAAC
GCCCTGGCCCATGCAGGCCAGACGGGCACACAGGCAAAGAAATGCCAGCAGGGACCAGGTGGTCTATGGCTCTGG
AACTAAGACGGACCGATGGGCGCGGCTACTTCGGAGGTCCAAGGAGAAAACAAAGGAAGGCTTGCGAAGCCTGCA
GCCCTGGGCGTGGACACTGAAGAGGATCGGGGGCCAGTTTGGCGCCGGCACGGAGTCCTACTTCTCCCTGCTGCG
CTTCTGTCTCCTTCTTAACGTGCTGGCCTCTGTGCTCATGGCCTGCATGACGCTGCTGCCCACCTGGTTGGGAGG
CGCTCCCCCAGGCCCTCCCGGCCCGACATCTCCTCGCCCTGCGGCTCCTATAACCCCCACTCCCAGGGCCTGGT
CACCTTTGCCACCCAGCTCTTCAACTTGCTCTCGGGTGAGGGTTACCTGGAATGGTCCCCTCTCTTCTATGGCTT
CTACCCGCCCCGCCACGCTGGCGGTACCTACCTGTGCTGGGCCTTTGCCGTTGGCCTCATCTGCCTCCTGCT
CATCCTGCATCGCTCGGTGTCTGGGCTGAAGCAGACACTGCTGGCGGAGTCCGAGGCTCTGACCAGCTACAGCCA
CCGGGTGTTCTCGGCCCTGGGACTTCGGTCTCTGCGGGGACGTCCACGTGCGGCTGCGCCAGCGCATCATCTTGTA
CGAATTAAAGGTGGAGCTGGAGGAGACAGTGGTGCGGCGCCAGGCTGCGGTGCGGACGCTGGGCCAGCAAGCCAG
GGTTTGGTTGGTGCGGGTGTGCTCAACCTGCTGGTGGTTCGCGCTCCTGGGGGCAGCCTTCTATGGCGTCTACTG
GGCTACGGGGTGCAACCGTGGAGCTGCAGGAGATGCCCTTGTCCAGGAGTTGCCACTGCTGAAGCTTGGGGTGAA
TTACCTTCCGTCCATCTTCATCGCTGGGGTCAATTTTGTGCTGCCGCCCGTGTTCAGCTCATTGCTCCACTGGA
GGGCTACACTCGGAGTCGCCAGATCGTTTTTATCCTGCTCAGGACCGTGTTCCTCGCCTCGCCTCCCTGGTGGT
CCTGCTCTTCTCTCTCTGGAATCAGATCACTTGTGGGGGCGACTCCGAGGCTGAGGACTGCAAACCTGTGGCTA
CAATTACAAACAACTTCCGTGCTGGGAGACTGTCTGGGCCAGGAAATGTACAAACTTCTGCTCTTTGATCTGCT
GACTGTCTTGGCAGTCGCGCTGCTCATCCAGTTTCTAGAAAGCTCCTCTGTGGCCTCTGTCTGGGGCGCTGGG
TCGTCTGGCGGGGACCCAGGAGTTCAGGTGCCGACGAGGTGCTGGGGCTCATCTACGCGCAGACGGTGGTCTG
GGTGGGGAGTTTTTCTGCCCTTACTGCCCCGTGCTTAACACGGTCAAGTTCCTGCTGCTTTTCTACCTGAAGAA
GCTTACCCTCTTCTCCACCTGCTCCCCGGCTGCCCGCACCTTCCGGGCCCTCCGCGGCGAATTTCTTTTCCCCTT
GGTCTTCTCCTGGGTCTGGCCATCTCCAGCGTTCCCTGCTTTACAGCATCTTCTGATCCCGCCTTCTAAGCT
TTGTGGTCCATTCCGGGGGCGATCGTCCATCTGGGCCAGATCCCTGAGTCTATTTCCAGCCTCCCTGAGACCAC
CCAGAATTTCTCTTCTTCTGGGACCCAGGCTTTTGTGTGCCCCCTTCTGCTGATCTCCAGCATCCTGATGGC
GTACACTGTGGCTCTGGCTAACTCCTACGGACGCCTCATCTCTGAGCTCAAACGTCAGAGACAGACGGAGGCGCA
GAATAAAGTCTTCTTCTGGCACGGCGCGCTGTGGCGCTGACCTCCACCAAACCGGCTCTTTGACCCCCGAGCCCAC
GTCCCGCTTTTCCAGACCCAGGCCATTGTAAGCCTAGGTACAAACATCTGTAAACTAGGAGAACTGGAGAAGACT
CCACGCCCTTCCAGCTTTGGTATCTGGAGATTTCCAGGGCCCCCTCGCCGCCACGTCTGACTCTCGGGTGATCTT
CCTTGATCAATAAATACAGCCGAGGTGCTG

4494/5332
FIGURE 3916

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAG
CTCGGATCCCAAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCCGCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGCGGGCGCCAGAAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCGGCGAGCAGCTCAGACCATGTCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCTCGGGACCTGGGGCCCTCATTCA
GGCCCAGCCCTGCTCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCTATCTCCTGTCTTCCGAGCCCTCAG
CCTCTTGGGCTGCCCACTCCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGGCCACCCT
GGGGCTGCTGCCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCCTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGGCAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTGCTCTCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCCGCCGCTGCCCGCCCGCCTCTTCTACATGATCCCCGTCTTCTTCGC
CTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGGGCTGCATTGCCCGCGCTTTGGGGCCTACCC
CGTGGCCGCCAAAGCCCGGGCCGGAGGCGGCCCCACCCTCCAATGCCACCCCCCAGCAGTCCGGAGAAGGCGGC
TTCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCCTGCGGAGCGCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCTCCACCCGGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCTTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTTCTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCCTTCGGTACTGGGCCTCCATCTACTTCTGTATCCACTTCTTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGGCGAGCCCCAGCCGGCGGAAGGCAGCATCCCAGCCCACCAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGGAATTCTGTGAACCA
GGCTGCTGTCTCTCCCCAGAAAGAGTCCTTACCTTGGAGAGGGTCTGGAGAGAATTTCTCTTCCCCAGCTAA
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT
CCCCAAAACGGAAGGGGGCCCTGGGCAGTGGGTTTTGGGCAAATTCCCTTTCTTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTGCTCCACTTTTAGCTCATCGCACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCATTTACAAAGGGGAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTTCCAATAAAGTGTTCACAAAG

4495/5332
FIGURE 3917

CACCTCGACTGCGAATTACTGTTTATGAGGTGACTCGCTGGTTCTATCGGTGGACAGTGGGACATTCTGAAGGGA
GGCAAGGAGGCGGACTGAGCGCTCCCAATTGGGGAGGATGCTGGTGGTGGAGGTGGCGAACGGCCGCTCCCTGGT
GTGGGGAGCCGAGGCGGTGCAGGCCCTCCGGGAGCGCCTGGGTGTGGGGGGCCGCACGGTAGGCGCCCTGCCCCG
CGGGCCCCGCCAGAATCGCGCCTGGGCCTCCCGCTGCTGCTGATGCCCGAAGAGGCGCGGCTCTTGGCCGAGAT
CGGCGCCGTGACTCTGGTCAGCGCCCCGCTCCAGACTCTCGGCACCACAGCCTGGCCCTGACATCCTTCAAGCG
CCAGCAAGAGGAGAGCTTCCAGGAGCAGAGCGCCTTGGCAGCTGAGGCCCGGGAGACCCGTCGTCAGGAGCTCCT
GGAGAAGATTACGGAGGGCCAGGCTGCTAAGAAGCAGAACTAGAACAGGCTTCAGGGGCCAGCTCAAGCCAGGA
GGCCGGCTCGAGCCAGGCTGCCAAAGAGGATGAGACCAGTGATGGCCAGGCTTCGGGAGAGCAGGAGGAAGCTGG
CCCCTCGTCTTCCCAAGCAGGACCCTCAAATGGGGTAGCCCCCTTGCCAGATCTGCTCTCCTTGTCCAGCTGGC
CACTGCCAGGCCTCGACCGGTCAAGGCCAGGCCCCCTGGACTGGCGTGTCCAGTCTAAAGACTGGCCCCACGCCGG
CCGCCCTGCCCACGAGCTGCGCTACAGTATCTACAGAGACCTGTGGGAGCGAGGCTTCTTCCTCAGTGCGGCTGG
CAAGTTTCGGAGGTGACTTCCCTGGTCTATCCTGGTGACCCCCCTCCGCTTCCACGCCCATATATCGCTCAGTGCTG
GGCCCCCGAGGACACCATCCCACTCCAAGACCTGGTTGCTGCTGGGCGCCTTGGAACCAGCGTCAGAAAGACCCT
GCTCCTCTGTTCTCCGCAGCCTGATGGTAAGGTGGTCTACACCTCCCTGCAATGGGCCAGCCTGCAGTGAATCC
AGAGACCTAGGGGATGTGGCTGTGTCGGCAGCAAGAGCCTTTCTGGATGTTCCCCAGCTCTTCTCTGGGAGTCTA
GAACATCCTCCTACCTTTCTCCGCGGTTAGTTTTTGATTCCAGGTTTTCGAACACTACATCTTTTTTATGTTCTT
CCTTGTTTCAAAGCACTTATTGGCTGTGTTTTGTAGTTACCTATTTTCACACTGTGAGCTTCCCGAGAATGGGG
CCTGGGTTTGATTCTGTTTTCTACAGGGTTTAAGTCTCAGGAGGTCTCAATAAACTGGTATATAAATGTT

4496/5332
FIGURE 3918

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTCGAAAACCTTATGT
GACCCCGCGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCGGGAACCTGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

4497/5332
FIGURE 3919

CGAGGGTGTTCGGCATGAGGGGGTGGAGCAAGGAGCGCGTGGCGCGGTGCGCAGTGGGTGGCTCCACCTCGACTGC
GAATTACTGTTTTATGAGGAGGATGCTGGTGGTGGAGGTGGCGAACGGCCGCTCCCTGGTGTGGGGAGCCGAGGCG
GTGCAGGCCCTCCGGGAGCGCCTGGGTGTGGGGGGCCGCACGGTAGGCGCCCTGCCCCGCGGGCCCCGCCAGAAC
TCGCGCTGGGCCCTCCCGCTGCTGCTGATGCCCCAAGAGGCGCGGCTCTTGCCCCGAGATCGGCGCCGTGACTCTG
GTCAGCGCCCCGCGTCCAGACTCTCGGCACCACAGCCTGGCCCTGACATCCTTCAAGCGCCAGCAAGAGGAGAGC
TTCCAGGAGCAGAGCGCCTTGGCAGCTGAGGCCCGGGAGACCCGTCGTCAGGAGCTCCTGGAGAAGATTACGGAG
GGCCAGGCTGCTAAGAAGCAGAACTAGAACAGGCTTCAGGGGCCAGCTCAAGCCAGGAGGCCGGCTCGAGCCAG
GCTGCCAAAGAGGATGAGACCAGTGATGGCCAGGCTTCGGGAGAGCAGGAGGAAGCTGGCCCCCTCGTCTTCCCAA
GCAGGACCCTCAAATGGGGTAGCCCCCTTGCCCAGATCTGCTCTCCTTGTCCAGCTGGCCACTGCCAGGCCTCGA
CCGGTCAAGGCCAGGCCCTGGACTGGCGTGTCCAGTCTAAAGACTGGCCCCACGCCGGCCGCCCTGCCACGAG
CTGCGCTACAGTATCTACAGAGACCTGTGGGAGCGAGGCTTCTTCCTCAGTGCGGCTGGCAAGTTCGGAGGTGAC
TTCTTGGTCTATCCTGGTGACCCCTCCGCTTCCACGCCATTATATCGCTCAGTGCTGGGCCCCCGAGGACACC
ATCCCACTCCAAGACCTGGTTGCTGCTGGGCGCCTTGGAACCAGCGTCAGAAAGACCCTGCTCCTCTGTTCTCCG
CAGCCTGATGGTAAGGTGGTCTACACCTCCCTGCAATGGGCCAGCCTGCAGTGA~~ACT~~CTCCAGAGACCTAGGGGATG
TGGCTGTGTCGGCAGCAAGAGCCTTTCTGGATGTTCCCCAGCTCTTCTCTGGGAGTCTAGAACATCCTCCTACCT
TTCTCCGCGTTAGTTTTTGATTCCAGGTTTTCGAACACTACATCTTTTTATGTTCTTCTTGTTCCTTCAAGCAC
TTATTGGCTGTGTTTTGTAGTTACCTATTTTCACACTGTGAGCTTCCCGAGAATGGGGCCTGGGTTTGATTGAT
CTGTTTTCTACAGGGTTAAGTCTCAGGAGGTCTCAATAAACTTGGTATATAAATGTT

4498/5332
FIGURE 3920

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTCGCAAACTTATGTGACCCCG
CGGAGACCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAAGTGTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTCGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

4499/5332
FIGURE 3921

CCATGACGCCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCGCGTGCAGGCAGGGC
CCTTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGGAGCCCCGTGACCATCTGGTGTG
AGGGGAGCCTGGAGGCCCAGGAGTACCAACTGGATAAAGAGGGAAGCCCAGAGCCCTTGGACAGAAATAACCCAC
TGGAACCCAAAGAACAAGGCCAGATTCTCCATCCCATCCATGACACAGCACCATGCAGGGAGATACCGCTGCCACT
ATTACAGCTCTGCAGGCTGGTCAGAGCCCAGCGACCCCCCTGGAGCTGGTGATGACAGGAGCCTACAGCAAACCCA
CCCTCTCAGCCCTGCCAGCCCTGTGGTGGCCTCAGGGGGGAATATGACCCCTCCGATGTGGCTCACAGAAGGGAT
ATCACCATTTTGTCTGTATGAAGGAAGGAGAACACCAGCTCCCCCGACCCCTGGACTCACAGCAGCTCCACAGTC
GGGGGTTCAGGCCCTGTTCCCTGTGGGCCCCGTGACCCCCAGCCACAGGTGGAGGTTACATGCTATTACTATT
ATACAAACACCCCTGGGTGTGGTCCCACCCCACTGACCCCTGGAGATTCTGCCCTCAGGCGTGTCTAGGAAGC
CCTCCCTCCTGACCCTGCAGGGCCCTGTCTGGCCCTGGGCAGAGCCTGACCCTCCAGTGTGGCTCTGATGTG
GCTACAACAGATTTGTCTGTATAAGGAGGGGGAACGTGACTTCTCCAGCGCCCTGGCCAGCAGCCCCAGGCTG
GGCTCTCCAGGCCAACTTCACCCTGGGCCCTGTGAGCCCCCTCAATGGGGGCCAGTACAGGTGCTACGGTGCAC
ACAACCTCTCTCCGAGTGGTCGGCCCCCAGCGACCCCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCG
TCTCCCTGTGAGCACAGCCGGGCCCCACAGTGGCCCTCAGGAGAGAACGTGACCCTGCTGTGTGTCAGTATGGTGGC
AGTTTGACACTTTCTTCTGACCAAAGAAGGGGCAGCCCATCCCCCACTGCGTCTGAGATCAATGTACGGAGCTC
ATAAGTACCAGGCTGAATTCCTCATGAGTCTGTGACCTCAGCCACGCGGGGACCTACAGGTGCTACGGCTCAC
GCAGCTCCAACCCCCACCTGCTGTCTCACCCCACTGAGCCCCCTGGAGCTCGTGGTCTCAGGACACTCTGGAGGCT
CCAGCCTCCCACCCACAGGGCCGCCCTCCACACCTGGAGGTCTGAGGACCAGCCCCCTTAACCCCCCAGGGTCAG
GCCCTCAGAATGGTCTGGGAAGATACCTGGAGGTTTTGATTGGGGTCTCGGTGGCCTTCGTCTGTGCTCTTCC
TCTCCTCTTCTCCTCCTCCGACGTGACGCTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCC
AGCGTCTGACAGGGGCTGCGGAGACAGAGCCCCAAGGACAGGGGCTGCTGAGGAGGTCCAGCCCAGCTGCTGACG
TCCAGGAAGAAAACCTCTATGCTGCCGTGAAGGACACACAGTCTGAGGACAGGGTGGAGCTGGACAGTCAGAGCC
CACACGATGAAGACCCCCAGGCAGTGACGTATGCCCCGGTGAAACACTCCAGTCTTAGGAGAGAAATGGCCTCTC
CTCCCTCCTCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACACTG
AGGCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCCCAGCTGCACAGCTTGACCCTTAGACGGAAGGCAA
CTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGGCCATCCACTAGC
CCGGGGGTACGCAGACCCCACTCAGCAGAAGGAGACTCAGGACTGCTGAAGGCACGGGAGCTGCCCCAGTG
GACACCAGTGAACCCAGTCAGCCTGGACCCCTAACACAGACCATGAGGAGACGCTGGGAACCTGTGGGACTCAC
CTGACTCAAAGATG

4500/5332
FIGURE 3922

TGCGTCTCTGCTGATCTGAGTCCACCCTGCAGCATGGACCTGCATCTTCCCTGAAGGATCTCCAGGGCTGGAGGG
ACGACTGCCAGCACCGAGGGCTCATCCATCCGCAGAGCAGGGCAGTGGGAGGAGACGCCATGACCCCCATCGTCA
CAGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCACGTGCAGACAGGGACCATTCCCAAGCCCACCC
TGTGGGCTGAGCCAGACTCTGTGATCACCCAGGGGAGTCCCGTACCCTCAGTTGTCAGGGGAGCCTTGAAGCCC
AGGAGTACCGTCTATATAGGGAGAAAAAATCAGCATCTTGGATTACACGGATACGACCAGAGCTTGTGAAGAAGC
GCCAGTTCCACATCCCATCCATCACCTGGGAACACACAGGGCGATATGGCTGTCAGTATTACAGCCGCGCTCGGT
GGTCTGAGCTCAGTGACCCCCCTGGTGCTGGTGATGACAGGAGCCTACCCAAAACCCACCCTCTCAGCCCAGCCCA
GCCCTGTGGTGACCTCAGGAGGAAGGGTGACCCTCCAGTGTGAGTCACAGGTGGCATTGCGCGCTTCATTCTGT
GTAAGGAAGGAGAAGAAGAACACCCACAATGCCTGAACTCCCAGCCCCATGCCCGTGGGTCTGCCGCGCCATCT
TCTCCGTGGGCCCCGTGAGCCCGAATCGCAGGTGGTGCACAGGTGCTATGGTTATGACTTGAAGTCTCCCTATG
TGTGGTCTTCACCCAGTGATCTCCTGGAGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGC
CGGGTCTGTCTGCGTGGCCCCCTGGGGAAAGCCTGACCCTCCAGTGTGTCTCTGATGTCTGGCTATGACAGATTGTTC
TGTACAAGGAGGGGGAACGTGACCTTCGCCAGCTCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCAGGCCAACT
TCACCCTGGGCCCCGTGAGCCGCTCCTACGGGGGCCAGTACAGATGCTACGGTGCACACAACCTCTCCTCTGAGT
GCTCGGCCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGGCACACCCTTCATCTCAGTGCAGC
CAGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTCTGATCATGGCGGCAGTTCCACACTTTCCTTC
TGACCAAGGCGGGAGCAGCTGATGCCCCACTCCGTCTAAGATCAATACAGAAATATCCTAAGTACCAGGCTGAAT
TCCCCATGAGTCTGTGACCTCAGCCCACGCGGGGACCTACAGGTGCTACGGCTCACTCAACTCCGACCCCTACC
TGCTGTCTCACCCAGTGAGCCCCCTGGAGCTCGTGGTCTCAGGACCCTCCATGGGTTCAGCCCCCACCACCG
GTCCCATCTCCACACCTGCAGGCCCTGAGGACCAGCCCCCTACCCCCACTGGGTGCGATCCCCAAAGTGGTCTGG
GAAGGCACCTGGGGGTTGTGATCGGCATCTTGGTGGCCGTCGTCTACTGCTCCTCCTCCTCCTCCTCCTCTTC
TCATCCTCCGACATCGACGTGAGGGCAAACACTGGACATCGAGTCCAGCCCAGCTGCCGACGCCCAGGAAGAAAA
CCTCTATGCTGCCGTGAAGGACACACAGCCTGAAGATGGGGTGGAGATGGACACTCGGGCTGCTGCATCTGAAGC
CCCCCAGGATGTGACCTACGCCCAGCTGCACAGCTTGACCCTCAGACGGAAGGCAACTGAGCCTCCTCCATCCCA
GGAAAGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACCCTGGCCATCCACTAGCCCGGAGGGTACGCAGACTC
CACACTCAGTAGAAGGAGACTCAGGACTGCTGAAGGCACGGGAGCTGCCCCCAGTGGACACCAATGAACCCAGT
CAGCCTGGACCCCTAACAAAGACCATGAGGAGATGCTGGGAACCTTGGGACTCACTTGATTCTGCAGTCGAAAT

4501/5332
FIGURE 3923

CCAGAGCCAGCCGGGTGGCACAGCGGTGTCGTGGCCGTGTTGCTGATCGCCTGGGTGGTTGTTGGCGTGTCCTG
CAGCGAAGGATCCTGGCAGTGAAAAAGCAGTCTGGCTCCCGAGGTCCACCCCTTATACCCCAAGGTCCAGATGGC
GGCCAACGTGGGTGATCAACGTAGCACAGATTGGTCTTCTCAGTACAGCATGGTGGCTGGGGCAGGCCGAGAGAA
TGGCATGGAGACGCCGATGCACGAGAACCCGGAGTGGGAGAAGGCCCGTCAGGCCCTGGCCAGCATCAGCAAGTC
AGGAGCTGCCGGCGGCTCTGCCAAGTCCAGCAGCAATGGGCCTGTGGCCAGTGCACAGTACGTGTCCAGGCAGA
AGCCTCAGCTTTGCAGCAGCAGCAGTACTACAGTGGTACCAGCAGTACAACCTATGCCTACCCCTACAGCTACTA
CTATCCCATGCCCCAGTCCCCGGCATGGATGAGAGCATGTCTACCAGGCTCCCCCTCAGCAGCTGCCGTCCGC
TCAGCCCCCTCAGCCCTCAAATCCCCACATGGGGCTCACACGCTGAACAGTGGCCCTCAGCCTGGGACAGCTCC
AGCCACACAGCACAGCCAGGCGGGGCCCCGACGGGCCAGGCCTATGGGCCACACACCTACACCGAACCTGCCAA
GCCCAAGAAGGGCCAACAGCTGTGGAACCGCATGAACCGCCCTGGGACTGGAGGTCTCAAGTTCAACATCCAGA
AGCGACCCCTTGTCTGTACCACCCAGAGCTTTGGCTCCAACGCAGAGGGCCAGCACAGTGGTTTTGGCCCCCAGC
CCAACCCTGAGAAAAGTTGAGAACCACAGCGGGTCTCTGCCCGGGGGAACCTGTCTGGGAAGCCCCGATGACTGGC
CCCAGGACATGAAAGAGTATGTGGAGCGCTGCTTCACCGCCTGTGAGTCGGAGGAGGACAAGGACCGCACGGAAA
AGCTGCTCAAGGAGGTGCTGCAGGCGCGGCTGCAGGACGGCTCGGCCTATACCATTGACTGGAGCCGGGAGCCCT
TGCCGGGGCTGACCCGGGAGCCTGTGGCTGAGAGCCCTAAGAAGAAGCGGTGGGAGGCCGCTAGCAGCCTTACC
CTCCTAGAGGGGAGGCTCGGGCACAAGGGGCGGGGGTGGCCCTGCCAGCGAGGGACGCCCGGGGCTGGGGGTG
CCGGTCGAGCCCGGGGCAACAGCTTACCAAGTTTGGCAACCGCAACGTCTTCATGAAGGACAACAGCTCTTCTT
CCAGCACAGACTCCCGCTCCCGCTCCTCCTCCAGGTCCCCGACGCGCCACTTCCGCAGAAGTGAATCCCACTCAG
ACTCCGACAGCTCCTACTCAGGGAATGAGTGTACCCCTGTGGGCCGAGGAACCCGCCCTTAAGGGCCGGGGCG
GTGAGGGGGCCCATATGGATCGGGGCCGAGGCAGGGCGCAGCGTGGGAAGAGGCACGATCTGGCGCCACCAAGC
GCAGTCGAAAGAAGATGGCGGCGCTGGAGTGTGAGGACCCGGAGCGAGAGCTGAAGAAGCAGAAGCGGGCAGCCC
GCTTCCAGCACGGACACTCCCGCCGCCTGCGCCTCGAGCCCTGGTGCTGCAGATGAGCAGCCTGGAGAGCAGTG
GGGCTGACCCCTGACTGGCAGGAGCTGCAGATCGTGGGCACCTGCCCTGACATCACCAAGCACTACCTGCGCCTCA
CCTGTGCCCCCGACCCGTCCACCGTGCGCCCTGTGGCAGTTTTGAAAAAGTCGCTGTGCATGGTCAAGTGCCACT
GGAAAGAGAAGCAGGACTACGCGTTTGCCTGCGAGCAGATGAAGTCGATCCGGCAGGATCTGACGGTGCAGGGCA
TCCGCACCGAGTTCACGGTGGAGGTGTACGAGACCCATGCCCGGATCGCCTTGGAGAAGGGTGACCATGAAGAGT
TTAACCAGTGCCAGACGCAGCTCAAGTCGCTGTACGCCGAGAACTTGCTGGCAATGTGGGCGAGTTTACTGCCT
ACCGAATCCTCTACTACATCTTACCAAGAACTCGGGAGACATACCACGGAGCTGGCATACTCACACGAGAAC
TGAAGGCAGATCCTTGCGTGGCCCCACGCCTTGGCATTAAAGACAGCCTGGGCCCTGGGCAACTACCACCGCTTTT
TCCGGCTCTACTGCCATGCACCCTGCATGTCTGGCTACCTCGTGGACAAGTTTGCAGATCGGGAGCGCAAGGTCG
CCCTCAAGGCCATGATCAAAACGTATGTGGTGCCAAGCTCCCTTCTGCCCTTGGCTCTTCCCATCCTTCCGCCTCG
TCTCAAGTTGTATAAAGTTGTCTCCGTGTCCCCTCCTCCTCTGCCCCAGTGTTCCTTCTGATTTTTTTTTTCCC
CTTTCCCTCCCTCCCTCTCCGATTTCTCCCTTGGTTTCCAGCACAGGTAAAACGGTTCCCTCCCTCCCTCTTCTG
CCATGTAACTGGAGGATGTGCTATGAGTTTGCAAACAGCTGGAGTGTGAGGCTGCTTTTTTTCCAGATGTTCTC
CTCTGCCTCCCTTCCCTCCTCTCCCTCCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
GGAAGCTTGAGAGAAACCAAAATTAAAGAGAGAAAGAGAGAG

CTGGCCAGGTTGGCCCTCCATGTGAGGTTGTGGTACAGCATGGGGGCTTGAGAGCTGGCCAGGTGGCCCTCCA
CGTGAGGTCATGGTCACAGCATGGAGGCCTTGAGAGCCTGGCCAGGTGGCCCTCCGTGTGAGGTCATGGTCACAG
CATAGTTTGGAGCTAGGGAGGGACTGTACGCCTGGAGGTTTGGAGACTCATTCTGGAATCTAGTGTGGGTCAAGC
CAACTTCAGGGAGAGGCTGAGCCAGGGTAGGAGTCACAGGAGCAGACGAGGATGTGGGGTGCCGTGCACAGAGCT
CCATGACCAGCTTGGGAAGTTAGAAGGAAGGGGAGGCAGGAGGCTGCTTAGTCTGCTGCCATGATGGGCCCCATG
AATGGTGGCTCTCAAGCTTCTGTGCTACACAGGGGTGTGTGGTTGGGCGAGTGTCTTGTTAATTGATACCTAAT
TGGCCTTGGTTGGGAACATAGCCATGAGTGCCTCTCGTGGGTGGGGCGCCAGTCTGTCAATTGACCTCATTGTGT
AGCACCTTCCCCCTAAGGAGGCTGACCCTGCCCTGCCAGCTGAGACTGGGAGACGGAGTGGGCTCTGATCCCAGG
GCTTCCAGGAAAGCTCTGGCTTTGGAGCAGAAGCGGGTTCTAGGACTTAGTGCCCCCTCACTCGGTGCCTGGGTTT
CTGTGTGTGTGGAAGGGTAGGGCTGCACCCTGTGGAAGAGGGTTACAGGGAGCTCTGAGGACCTGGCTCGTGCTA
GATGCTCAGTCAGTAGTGTGTTTTAGCAGCAGCCGGAAGTGACTGCTTTAGTGTGTAGTGGTGAGTGCTAGCTG
GCACCCCTGCGCCTGGCTTCCCAGACACTGTAACGCAGGGGAGGGGAGGCAGCGAGGGCTGGGTCCCCACGGTGG
CCCTGGCAGCCCCGCCATCCCCATCCCCCTGCCACGTGCTGCTCCCTCCATCTGGTCCCTGCCCTCAGCCAGCGG
AGGAGCCCGCTGGGGCCTTCCCTGCCCCGTCCCCGCTCCTCCCTGGCCCCCGCACAGGTAAGTGAGGGTGAGGGGG
GCACAGGGGACTGGGGTCACTAACCCCCCCCCGGGCCCCCCCGAGCCCCCTGAGGTGGGGAGGCTGGGAGGCGGG
TGGGGAGCCAGCAGGCACTGTGCTGAGGAAATCCTGTGGGCACCCGAATGGGGGGGCTCCCCGCTCGTGGGGCC
TCCCCCTGCCCTCCCGCCCCGCCGCTCATCACCTTCTCCTCTTGCTCCATAGCTTCCGCCCTGCGCTGCCAGT
CTCCTACCTGCAGGCCGAGCTGGCCTTCGAGGGCGAGGCCGCTGCGGGGCTTCCCTAGAGCCCCCTGGGCTGGC
CTACACGGGCCCCGACAACTCCAGCATCGACTGCCGCTCAGCCTGGCGCAGCTGTCAGCCTTCTGAGACCCAG
CGAGGAGGGGCGGGGGCAGGGGCTGCAGCCCCAGCGCTGCCTTTGCGGATTCTGTTTTTGAAGCGTGAGCTTGG
GTTGTAAATTTATTTTGTGGGGAGTGCGCTCCAGGAAGAGCCACCATCCCTGCCCCGTTTTCCACCGGGGAGTC
TGACAGAGATTTTCTACGTTTTTATTTTTTGCCCTCAGAGGGATGGGATTGGGGAGGAGGGGATGGGCAGCGGA
GGGTGGGGGCATGGTCTGCAGGCTCATCTGTGTCCGCCTTCACTCCACTAATGCTGTCTCAGTGTTTTCTCTC
TCTCTTTCTGAGCTTGCACTCCGGTACCCGACCCGGCGCCCTGGCCATCCCATGCCGGGGGCCAGTGGAAG
AAGACAGGCCGTCCAGCCCGTGCCCGCTGCGGCGGGGGCACCCAGCAGACCCGCCACCCGCCCTGCCTCACC
TGCTTCGCCACAGACTTGTGTTCCAGCCCTTGGGGCCTCCGTGTTGGGTTGGGGAGCTGCTTAGAGACTGT
GCCCCCTCTCGGCCCCACCCTGTAAGTGCCAGCACCAGCACCAGATCCTCCGCCGCCACACCGCACTGAGG
ACACGCGCGGGCGGGCGCCCTCGTCTCAAGTTGTATAAAGTTGTCTCCGTGTCCCTCCTCCCTCTGCCCCAGTG
TTTCTTCTGATTTTTTTTTTCCCTTTCCCTCCCTCCCTCTCCGCATTCTTCCCTTGGTTTCAACAGGTAAGG
GTTCCCTCCCTCCCTGCTTCATGGATCACCAGCTCACGTATGTTGCCTTCTCTTTTCTTTGTGTGTGTGTTT
ATTTAAGTTATTTTTCTTCTCCTCTCCCTTTTCTTTTTGGCCCTCCCTCCCTCCCTCCTTCTGCCATGTAAGTGG
AGGATGTGCTATGAGTTTGCAAACAGCTGGACTGTGAGGCTGCTTTTTTTCCAGATGTTCTCCTCTGCCTCCCC
TCCCCCTCCTCTCCCCCTCCTTTTCCCTTCCCTTCCCTTCCCTTCCCTTGGAGCACTGAGCACCATTGGAAGCTTGAGA
GAAACCAAAATTAAAGAGAGAAAGAGAGAGCGTGCACGCTCCTGCTTTGTC

4503/5332
FIGURE 3925

GCCTTTACGCAGCTTGCTTTCTGGCGCTGGGGGAGGGCGCAGCCGGGAAGTCCCAGAGCAGCGGTGTCAGGCTC
TCCACCAAGGAGGGACTGGGCCAGAGTCCTCGCGAGGGCACGCGGCGTGTTCCCAAGAGCTAGGCCGGAGCGCGG
GCCGCTGACGCCACTGTGCGGTGAGGCTCGGTGCATCCATGGGGAGCCGCCCTCCGTGCGGGGCGACCTCGTCTG
CGCGGCGGGCGTGCCAGTTCCCCGCACCCATGGCAGCGGCCAGAGAGCCGGAGTTGCCGCAGGAAGCCCCCGCCA
CGGAACCCGCGCCCCCGCGGCTGCGCTTCTTCTGGAAGGCCGCTGCCGCTTCGGCGCCCGCTGCCGCCAGC
CCCACCCTGGGGCGCCGGCGCGGCTGGCCGCGAGGCGCAGCCGGAGGCCGGGGCCAAGAAGCCGCCGCTGCGCA
CAGCCGCGGACGTATCCAGCGCATCCGCTGGGACCCGCGCTCGACCCCGCGACTTCTCGGTGGGCTACGTCTG
ACCGCTTTCTGGGTGTGCGCGAGGAGCCCTTCAGCGCCTTTTGTGGGACCAGCCGCTGGCGGCGCTCGGGCCGG
GCGTGCTGGCAGTGCCCCAGCACCAGCGTGCGCTTCTCCGCTTCCATGGCCGCTTGTGTGGGACCAGCGCCTCGC
GCACCGACCTCGTCTTTGGCTCTGGCTCGGCGGCGGGACGCGGGCCCAACATCCTGGACGCACCGAACACCGAGG
GCGCCACGCGGGCAGAGGGTGCCGAGTGACACTGGCGGGGACAGGTGAGGAGGCCAGGCTGCCCCAAGCGAG
GGAGCACAAGGCCGCTCTGCACAGGGCACCAGGAACCAGGCGTGAGGAACCCGGAGAGCTGGAGGCGGCCAGG
AGAGGGCGCTGGGCACAGCTGCTGATTTGGGAACACTGGCCCCAAGAGGACGCCTCGCCGGAGTGACTGAGGAGG
CACTGAAGCCAACAGCAGCCACCAGGACCACATTGCTGGGGGGCAAGGAAGCACAGGCCCTGGGAGTCCCGGGGG
GCTCCGCTGAGACGACAGAAGCCGAGTGGGGTCTTGCAGCCTGGCCCGAGGACAAAAGGGCCCGCCTTAGTGTTG
CAGCCCCCTTGCCAACCGCGCCCCACACATTTTGTGGCCCTCATGGTGACCGAGCCTGGGCTACAAGCAGAAGTGA
CCAAGGCCCAGGAATACCTGGTCCACGTGGCCCCACACTGCGCCAACCTTCTAGTGCCCTCTCAGAACCTACACC
TGACCCTGGCCCTGCTGCGACTGGCAGGCGCTGGGGAGGAGGCCGCTGCCATTGGAGCTCTGAGACGGGCCCCCTCT
TGGCCCCGGGGCTAAATGCACCCCTCGGCTGAGCTTTAGAAAGCTGGTCTCTCTGGGCCCCGATGTGCTGTGTG
CCCCACCCTCTCCACACTGGAAAGCATGGCACAAGTGCTGAGCCAGAGGCTGGAAGCCGAGGGGCTGAGTACAC
TACAGTCTCCAGGGCAGCTGCACCCCCACCTCACCGTGGCCAAGGTGCCCCATGGTTCCCAGGTCCACCTCCCCA
AGCTGGAGTTCACCCTCAGCCAGGAAGTGGGGTGCCAGCCCTGCAGACACTCTGGCTGTGCCGTATAGGGAGGA
CAGGGGGGCTTTCCAGCCCCTGGCTGAGATCCGCTGGAGTGAACCCCCAGACCTCTGGAGGAGACAATGGAT
GCAAAACAGCCCACACAGGAAAGACAAAGCAGGAGCGTGACGCTCTCTCTTTCTCTTTAATTTTGGTTTCTCT
CAAGCTTCCAAATGGTGCTCAGTGCTCCAAGGAAAGGAAGGAAGGAAGGAAAGGAGGGGAGAGGAGGGGAAGGG
GAGGCAGAGGAGGAACATCTGGAAAAAAGCAGCCTGACAGTCCAGCTGTTTGCAAATCATAGCACATCCTCCA
GTTACATGGCAGAAGAGGGAGGGAGGGAGGGCC

4504/5332
FIGURE 3926

GTTGATGGTGACAGCAGCAGTAGCCGTAGCAGCCTAGAGGTGGCCGAATGCTTACTCTAATGGGCTGGCCCATCC
CTGAGTGTCTAGAGTTCCCAGCCCGCTTAAGGAAGGAAGGAAAACACAGGCAGCTCTAAGTGTACGACGAGGGAG
GTCTCATCGGCGGTGAGGAAGCCCAGGCGGGTCCCCTTCCCAGCTGAAAGGGGTTCGGAATTTCACTCTGTGCGC
AGGCTGGAATGCAGTAGGGCAATCTCGGCTCACTGCAACCTCCACCTCCCGAGTTCAAGTGATGCTCCTGCTTCG
GCCTCCTGAGTAGCTGGGACTACAGGGACTATGTACCGGTGGGGCTTGCCCCAGCAAGGCCACCATCCCTGGGA
AGACGGTCATCGTGACGGGTGCCAACACAGGCATCGGGAAGCAGACCGCCTTGGAAGTGGCCAGGAGAGGAGGCA
ACATCATCCTGGCCTGCCGAGACATGGAGAAGTGTGAGGCGGCAGCAAAGGACATCCGCGGGGAGACCCTCAATC
ACCATGTCAACGCCCGGCACCTGGACTTGGCTTCCCTCAAGTCTATCCGAGAGTTTGACAGCAAAGATCATTGAAG
AGGAGGAGCGAGTGGACATTCTAATCAACAACGCGGGTGTGATGCGGTGCCCCACTGGACCACCGAGGACGGCT
TCGAGATGCAGTTTGGCGTTAACCACCTGGGTCACTTTCTCTTGACAACTTGCTGCTGGACAAGCTGAAAGCCT
CAGCCCCCTTCGCGGATCATCAACCTCTCGTCCCTGGCCCATGTTGCTGGGCACATAGACTTTGACGACTTGAAT
GGCAGACGAGGAAGTATAACACCAAAGCCGCTACTGCCAGAGCAAGCTCGCCATCGTCCTCTTACCAAGGAGC
TGAGCCGGCGGGCTGCAAGGCTCTGGTGTGACTGTCAACGCCCTGCACCCCGGCGTGGCCAGGACAGAGCTGGGCA
GACACACGGGCATCCATGGCTCCACCTTCTCCAGCACCACTCGGGCCCATCTTCTGGCTGCTGGTCAAGAGCC
CCGAGCTGGCCGCCAGCCAGCACATACCTGGCCGTGGCGGAGGAAGTGGCGGATGTTTCCGAAAGTACTTCG
ATGGACTCAAACAGAAGGCCCGGCCCGGAGGCTGAGGATGAGGAGGTGGCCCGGAGGCTTTGGGCTGAAAGTG
CCCGCCTGGTGGGCTTAGAGGCTCCCTCTGTGAGGGAGCAGCCCTCCCCAGATTAACCTCTGGAGCAGATTTGAA
AGCCAGGATGGCGCCTCCAGACCGAGGACAGCTGTCCGCCATGCCCGCAGCTCCTGGCACTACCTGAGCCGGGA
GACCCAGGACTGGCGGCCGCCATGCCCGCAGTAGGTTCTAGGGGGCGGTGCTGGCCGAGTGGACTGGCCTGCAG
GTGAGCACTGCCCTGGGCTCTGGCTGGTTCCGTCTGCTCTGCTGCCAGCAGGGGAGAGGGGCCATCTGATGCTTC
CCCTGGGAATCTAACTGGGAATGGCCGAGGAGGAAGGGGCTCCGTGCACTTGCAAGGCCACGTCAGGAGAGCCAG
CGGTGCCTGTGCGGGAGGGTTCCAAGGTGCTCCGTGAAGAGCATGGGCAAGTTGTCTGACACTTGGTGGATTCTT
GGGTCCCTGTGGGACCTTGTGCATGCATGGTCCCTCTCTGAGCCTTGGTTTCTTACGACGTGAGATGCTCAGAATA
ACTGCTGTCTCCCATGATGGTGTGGTACAGCGAGCTGTTGTCTGGCTATGGCATGGCTGTGCCGGGGGTGTTTGC
TGAGGGCTTCCTGTGCCAGAGCCAGCCAGAGAGCAGGTGCAGGTGTCATCCTGAGTTCAGGCTCTGCACGGCAT
GGAGTGGGAACCCACCAGCTGCTGTACAGGACCTGGGATTGCCTGGGACTCCACCTTCCTATCAATTCTCAT
GGTAGTCCAAACTGCAGACTCTCAAACCTTGCTCATT

4505/5332
FIGURE 3927

GATCTCTTCCAAATGTCCCCGCTCTCCCCAGGCTCTCCCCTCCCGCCACTTGCCAGGGCTGACCTCACCGCCATC
TTAACC GGGTGTCCACCTCTCTCTGCCTGCCTGGTGCTGGCCCCGCGTCCCCATCGCCGCGCCCGTCTGCTCCCC
TCAGAGGGCTTGCTGACGCTGCGGGCCAAGCCGCCCTCGGAGGCCGAGTACACCGACGTGCTGCAGAAGATCAAG
TACGCCTTCAGCCTGCTGGCCCCGCTGCGCGGCAACATCGCCGACCCCTCCTCTCCGGAGCTGTTGCACTTCCTT
TTCGGGCCTCTGCAGATGATTGTGAACACGTCGGGGGGGCGGAGTTCGCGAGCAGTGTGCGGCGGCCGATCTG
ACATCGGATGCCGTGGCGCTGCTGCGGGACAACGTCCTCCACGTGAAAACGAGCTCTGGACCTCGCTGGGGGAC
TCGTGGACCCGCCCCGGGCTGGAGCTGTCCCCGGAGGAGGGACCCCCATACAGACCCGAGTTCTTCAGCGGCTGG
GAGCCGCCGCTCACTGACCCGACAGCCGCGCCTGGGAGGACCCAGTTGAGAAACAGCTACAGCACGAGCGGAGG
CGCCGGCAGGTGACCCAAGCGACACAGCAGGGCCGAGGCTGGGAAGTCCGGGGGCGCGGCCGCTCCGCTGGCCC
CGCCTGACCCGACTGTCTTACTTCCTACAGCAAAGCGCCCCCAGGTCGCTGTCAATGGTCACCGAGACTTGGAG
CCAGAATCTGAGCCTCAGCTGGAGTCAGAGACAGCAGGAAAATGGGTCCTGTGTAATTATGACTTCCAGGCCCGC
AACAGCAGTGAGCTGTGGTCAAGCAGCGGGACGTAAGTGGAGGTCCTGGATGACAGTCGTAAGTGGTGAAGGTT
CGGGACCCAGCGGGGCGAGGAGGATATGTGCCCTACAACATCCTGACACCTACCCCGGACCCCGGCTGCACCAC
AGCCAAAGCCCTGCCCCGAGCCTGAACAGCACTCCTCCTCCACCACCAGCCCCAGCCCCGGCCCCACCTCCAGCT
CTGGCTCGGCCCCGCTGGGACAGCCCCGCTGGGACAGCTGCGATAGCTCAACGGCTTGGACCCAGCGAGAAGGA
GAAATTCTCCCAGATGCTCATCGTCAACGAGGAAGTGCAGGCGCGCCTGGCCCAGGGCCGCTCGGGACCGAGCCG
CGCAGTCCCAGGGCCCCGCGCCCCGGAACCGCAGCTCAGCCCGGGCTCGGACGCCTCCGAGGTCCGCGCCTGGCT
GCAGGCCAAGGGCTTTAGCTCCGGGACCGTGGACGCGCTGGGTGTGCTGACCGGGGCGCAGCTTTTCTCGCTGCA
GAGGGAGGAGCTGCGGGCGGTGAGCCCCGAGGAGGGGGCACGTGTGTACAGCCAGGTACCGTGCAGCGCTCGCT
GCTGGAGGACAAAGAGAAAGTGTGTCAGAGCTGGAGGCAGTGATGGAGAAGCAAAAGAAGAAGGTGGAAGGCGAGGT
GGAAATGGAGGTCAATTTGACCTGCCAGGCGCCCTTCGCAAAGAGTGACGAGGCCCCGTGGGAGAACGGACTCCTC
AGACTCTCCCCAATAGCGGAAGTCGATCTTCTGAAGGATGGCCAATCTGCTCCGGCCCTGGTCTTCCCCCATCCC
GGTGGACAGACTTAACGATCCTTGCTGCAGATCCTCCGGAGAGGATCTGGACTGGCTGGGAGTGGGGAGGGCGTG
GAGACAGTCTACGGAAAGCGCTAGCAGACCCCCGAGAGGGTGCAGTGGAGCCCTGAGCATTGTAATATGCGGCC
AGCCTATAAACAGCCTCCGTGCTTAGC

4506/5332
FIGURE 3928

GCGGGCGGGCGGTGCGATGTCCGGAGAGGATGGCCCCGGCGCTGGCCCCGGGGGGCGGCGGGCGGGCTGCCCGGG
AGCGGCGACGGGAGCAGCTGCGGCAGTGGGGGGCGGGGCGGGCGCCGAGCCTGGCCCCGGAGAGCGCCGCGCCC
GCACCGTCCGCTTCGAGCGCGCCGCCGAGTTCCTGGCGGCCTGTGCGGGCGGCGACCTGGACGAGGCGCGTCTGA
TGCTGCGCGCCGCGACCTGGCCCCGGCGCCGAGCTGACCTCCGCGCGCCGCCGCCGCCGCCGCCGCGCGTGTG
GACTCCACCAACGCGGACGGTATCAGCGCCCTGCACCAGGCCTGCATTGATGAGAACCTGGAGGTGGTGCCTTC
TTGGTGGAGCAGGGCGCCACTGTGAACCAGGCAGACAACGAGGGCTGGACGCCACTGCACGTGGCCGCTCCTGT
GGCTACCTAGATATCGCCAGGTACCTCCTGAGCCACGGGGCCAACATCGCCGCCGTCAACAGTGACGGGGACCTG
CCCCTGGACCTGGCCGAGTCGGACGCCATGGAGGGGCTGCTGAAGGCGGAGATCGCCGCCGAGGTGTGGATGTG
GAGGCAGCCAAGCGGGCAGAAGAGGAATTGCTCCTTCATGACACGAGGTGCTGGCTGAATGGGGCGCCATGCCA
GAGGCCCGGCACCCCGCACAGGCGCCTCTGCCCTGCACGTGGCTGCTGCCAAGGGCTACATTGAGGTGATGAGG
TTGCTCCTTCAGGCTGGCTACGACCCAGAGCTCCGGGACGGGGACGGCTGGACTCCCCTGCACGACGCGGCACAC
TGGGGCGTGGAGGATGCCTGCCGCTGTGGCCGAGCATGGCGGGGGCATGGACTCACTGACCCATGCGGGGCGAG
CGTCCCTGTGACCTGGCCGATGAGGAAGTACTGAGCCTGTTGGAGGAACCTGGCCCCGAAACAGGAGGACCTTCGG
AACC AAAAAGAAGCTTCCCAGAGCCGGGGCCAGGAGCCCCAAGCGCCCTCTAGCAGCAAACACAGAAGGAGCTCT
GTGTGTGCTGTGAGCAGTCGCGAGAAGATTTCCCTCCAGGACTTGTCCAAGGAGCGCCGGCCTGGTGGGGCTGGG
GGGCCCCCATCCAGGACGAGGATGAGGGGGAAGAAGGTCCACCCGAACCACCCCTGCAGAACCCAGAACCTCA
ATGGCGTCTCCTCCCGCCGCACCCAGCCCTAAGAGTCCCGTGCAGCTTGAAGAGGCCCCCTTCTCCAGGCGCT
TTGGCCTCCTGAAGACAGGGAGTTCTGGTGCCTGGGTCCCCCTGAAAGGCGGACAGCGGAGGGAGCCCCCTGGGG
CTGGGCTGCAGCGCTCGGCTTCCTCCTCCTGGCTGGAAGGGACCTCCACTCAGGCCAAGGAGCTCCGTCTTGCCA
GAATTACCCCGACCCCTCCCGAAGCTGCCGGAGCCCTCTGTCTGTCTGAGGTACCAAGCCTCCTCCTTGCT
TGGAGAACTCCTCGCCTCCCTCCAGGATTCGGGAGCCTGAATCCCCAGCGAAGCCAAACGTCCCCACAGCCTCCA
CGGCGCCCCCAGCGGACTCCCGGGACCGACGGAGGTCTACCAGATGCCTGTGCGGGATGAGGAGTCGGAATCCC
AGAGAAAAGCTCGCTCCCGTCTCATGCGCCAGTCTCGGAGGTCCACACAGGGTGTGACTCTTACAGACCTGAAGG
AGGCAGAGAAGGCTGCAGGGAAGGCCCCAGAGTCAGAGAAGCCGGCGCAGAGCCTGGACCCCTCCCGAAGGCCCC
GCGTCCCTGGAGTGGAGAACTCTGACAGCCCTGCCCAGAGAGCAGAGGCGCCGACGGGCAGGGTCCGGGACCGC
AGGCGGCCAGGGAGCACCGCAAGGTCGTGAAAGGAGTGGAGGGGGCCTGCGGAGGGGGAGGAGGCGGAGCCGCTG
ACCGCAGCCAGGAGTCCAGCACCTGGAGGGCGGCCCTCGGCCGAGGCAGCGGTGGCAGCGGGACCTCAACCC
AGAACCTGAGCCAGAATCGGAAGAGCCAGACGGAGGCTTTAGGACGCTGTATGCAGAGCTGCCAGGGAGAACGA
GCGGCTTCGCGAGGCCCTGACCGAGACCAGCTGCGGCTGGCGCAGCTCAAGGTGGAGCTGGAGCGGGCCACGCA
GAGGCAAGAACGCTTCGCTGAGAGGCCAGCCCTCCTGGAACCTGGAGAGATTTCGAGCGCAGGGCCCTGGAACGCA
GGCCGCAGAGCTGGAGGAGGAGCTGAAGGCCCTGTCTGACCTCCGCGCTGACAACCAGCGCCTCAAGGATGAGAA
TGCAGCGTTGATCCGCGTCATCAGCAAACCTCTCCAAGTGACCCGGAGGGACTTTCCCGCACCCGTATTTATACAG
CTGCTTCTGCCACACGCACCCCTTCCCCCGTGTGAACACGAGTGACAGGGCTCCGGGGGAAGTCTCAGAGAAGCC
ATAGCCCCCCTGGGACCTCCGGACTGGGAGGGGAGCAGAGTCCCCAGGAGCCGAGGGGGCCACCCGAGGCCAGGA
TGGAGGTGGGAGGCCGAGCCAAGCAGGGGGACGTTGCCAGAGGGGACCAGGGCCAGAGACGGGACCAGGAAGGAA
CTGAGGACCAAGAAGTGCAAGGATCAGTAGCCAGGACCAGAGTGGCCGCTGGAGGTCCCCATCTCACGTGTGAT
GCCACCCCGTCACCCCTCCCTCCTGAGCAGGGATCCAAGAATGTGCCAAGAGTCCCGCCAGCCTCAGCCAGGTG
GGCCTGTATATAGGGTCCATGTGCAATAGGGAGGGACGTCTTCTATTTTTTGCTGCCCCCTCCCCGCCACTGTG
TGGGGCAGGGGAGAAGGTATTTTCGAGATAAAGCACAGGCACCACAAATAAAAGTCGTGAAGTTGCCACTC

4507/5332
FIGURE 3929

AAGATTACAGCATCTCAGACACAGCCTAGGCCGCACCAGGATGTCGGACACCGAGGAGCAGGAATATGAGGAGG
AGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGAGGAACGCCCCAAACCAAGCCGCCCCGTGGTGC
CTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGACTTCGATGACATCCACCGCAAGCGCATGGAGA
AAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTCGAGCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTG
CCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGAGCAACAGCGCTTCAGAACTGAGAAGGAACGCG
AACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGAGGAAGAGGCCAAGAAGCGGGCAGAGGATGATG
CCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCCATTTGGCGGCTACCTGGTCAAGGCAGAACAGAAGCGTG
GTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTCCGAGCGTAAGAAGCCTCTGGACATTGACTACA
TGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGACTGGATCCACCAGCTGGAGTCTGAGAAGTTG
ACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGTGCTGTACAACCGCATCAGCCACGCCCAGAAGT
TCCGTAAGGGGGCAGGGAAGGGCCGCTTGGAGGCCGCTGGAAGTGAGGATGCCGCCCCGGACAGTGGCACCTGG
GAAGCCTGGGAGTGTTTGTCCCATCGGTAGCTTGAAATAAACGCTCCCCTCAGACA

4508/5332
FIGURE 3930

CTGAAGGTCACCCGGGCGGCCCTCACTGACCCCTCCAAACGCCCTGTCCTCGCCCTGCCTCCTGCCATTCCCG
GCCTGAGTCTCAGCATGGCGGATGGGAGCAGCGATGCGGCTAGGGAACCTCGCCCTGCACCAGCCCCAATCAGAC
GCCGCTCCTCCAACCTACCGCGCTTATGCCACGGAGCCGCACGCCAAGAAAAAATCTAAGATCTCCGCTCGAGAA
AATTGCAGCTGAAGACTCTGCTGCTGCAGATTGCAAAGCAAGAGCTGGAGCGAGAGGCGGAGGAGCGGCGCGGAG
AGAAGGGGCGCGCTCTGAGCACCCGCTGCCAGCCGCTGGAGTTGGCCGGGCTGGGCTTCGCGGAGCTGCAGGACT
TGTGCCGACAGCTCCACGCCCCTGTGGACAAGGTGGATGAAGAGAGATACGACATAGAGGCAAAAGTCACCAAGA
ACATCACGGAGATTGCAGATCTGACTCAGAAGATCTTTGACCTTCGAGGCAAGTTTAAGCGGCCCACCCTGCGGA
GAGTGAGGATCTCTGCAGATGCCATGATGCAGGCGCTGCTGGGGGCCCGGGCTAAGGAGTCCCTGGACCTGCGGG
CCCACCTCAAGCAGGTGAAGAAGGAGGACACCGAGAAGGAAAACCGGGAGGTGGGAGACTGGCGCAAGAACATCG
ATGCACTGAGTGGAATGGAGGGCCGCAAGAAAAAGTTTGAGAGCTTGAGCCCTTCCTGCCTACTGCCCTGCCCCTG
GGAGGGCCCTGAGGAATAAAGCTTCTCTCTGAGCTG

4509/5332
FIGURE 3931

CCCAGGCACCGGTGGGCCCCGGAGCGAGCCTGCCCCGCCGGGACTCCGCGTCTGTGCGTCAGCCCCGCCCGTTGT
CCTGGCAACAACCCGTTGCCCGGGCAACCAGCTTTGCTCTCACCCCGCTTGAGAGGAGCCCGGCTGTTGCTCTGG
GCAACGCGGTCTGCTGGTTCCACGTCTGCCTTCGCCCGCTTCCGGTTCAGACCCTGCGGAGGGGCGAGGACGAG
GCAGAAGTCAGCGGGATGCCTGTGGGGCCGTGGAGGAAGAGGGTATCCCTTTAGGATGGAAGTGGTCTGGACA
CCCCCTCTCAAGTGCGGGGAGGCTGATACTACAACTCCAGCATGACTCGCGGTGGCTGTCCGGTTTCTGCGCGG
CTGTTGCGGCAAAGGCCTCATGGGAGTTGGAGTTCTTTGTTGTGCGTGGGGCTCAAAGGACGTCTGGGGTGGGAA
TGGGGGACTAGGGTGTCTGAGTGTCTCTGCAGAAAAGACTCCAGGACCCCGCCACCATGTTCCCGGAGCCCCCAA
CCCCGGGGCCTCCATCGCCCGACACGCCTCCCGACTCCAGTCGCATCAGCCACGGCCAGTGCCTCCCTGGGCC
TGGCCACCATCGTGTGGTCTCAGGCCTCCTCATCTTCAGCTGCTGTTTCTGTCTCTACCGGAAGAGCTGTGCGA
GGCGGACAGGCAAGAAGAGCCAGGCCCAAGCCAGGTCCACCTTCAGGAAGTGAAGGGGCTGGGCCAGAGTTACA
TAGACAAGGTGCAGCCAGAAGTAGAGGAGCTGGAGCCAGCACCATCCGGGCCAGGGCAGCAGGTGGCAGACAAGC
ATGAGCTAGGACGACTGCAGTACTCCCTGGATTATGACTTCCAGAGTGGCCAGCTGCTGGTGGGCATTCTGCAAG
CAATGGGATTGGCAGCCTTGATCTTGGTGGCTCCTCGGACCCCTATGTGCGGGTCTACCTGCTGCCGACAAAC
GGAGGCGGTACGAGACCAAGGTGCATCGGCAGACGCTGAACCCCTCACTTTGGGGAGACCTTCGCCTTCAAGGTCC
CCTACGTGGAGCTGGGGGGCAGGGTGTGGTTCATGGCGGTGTACGACTTCGACCGCTTCTCTCGCAATGACGCCA
TCGGGGAGGTGCGGGTCCCTATGAGCTCCGTGGACCTGGGGCGGCCAGTGCAGGCCTGGCGGGAGCTGCAGGCGG
CTCCGCGGGAGGAGCAGGAGAAGCTTGGGGACATCTGCTTCTCCCTCCGCTATGTCCCCACGGCCGGGAAGCTCA
CCGTATCGTCCCTGGAGGCTAAAAACCTGAAGAAGATGGACGTAGGAGGACTGTCAGATCCATACGTCAAGGTCC
ACCTGCTGCAGGGCGGCAAAAAGGTGCGGAAGAAGAAAACCACCATCAAGAAGAACTCTGAACCCCTATTACA
ACGAAGCTTTTCACTTCGAGGTGCCCTGTGACCAAGTCCAGAAGGTGCAGGTGGAGCTGACCGTGTGGACTACG
ACAAGCTGGGCAAGAACGAGGCCATCGGGAGGGTGGCCGTGGGGGCGGCCGCCGGCGGGGCTGGCCTGCGGCACT
GGGCGGACATGCTGGCCAACCCGCGGCGGCCATTGCCAGTGGCACTCGCTGCGGCCCCCGGACCGAGTGAGGC
TGCTGCTGCGCCCTGACTCCCAACCCCAAGCCCCCGGCCAAGCCTGGACTCTAGCCCCTGACCCAGACTCCCGA
GACCGGCCAAAGCCAAGCCAGCCCCACCCTTAAGCTTCCTCTGACGGTTACCCTCCCCCACCTTCCACCCCAAC
CATCTGAACCATTCTGTCTTCTACCCCCAACGATGCCAATCAGACAACCTTCCAGCACACTCCCCCGACCCT
CGCGGACACACCCAGATGCCCCAGGGACCCCGGGAAGGGAAGGCAGCCTGGTTTCTCCTGCCCCCGGGTCTGCCC
CCCTGCTTTGACAATCAGCCATCCTCGTCTGCTCTCCTCTCTTCCAACACAGCCCATCCCTGCACTGCTCCTG
GGGCCAAATAAATATTAGCAGCTC

4510/5332
FIGURE 3932A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCACGCTGGTGGGGCAGCTCTTGTCTTGAGCCGTCAGGCACCGTGTGAAAGTTTGAGGAGGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTTAGCTGCTGGGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCTTGGTGTGGGCC
CTTGTCTTCTGCGTCACCCCTGTCTCTGCCCTTTCCCTTCCCTGGACAGGGGTCTCTGCAGTTCCCAGAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCGGCCCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCCCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGTCTGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTCTGCAGAGCACCAGGAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCATGGGCATCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTCTTCGGAAGAAG
GATGACTTCTGAGGAGCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGGCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCTTGAGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTCCAGGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG
CTGCTGACCCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGGCCCTTGACGCCCCCTACGC
CCGCGGCTCAGCTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCCAACACCATGCTGGACCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCATCCAAAACCTGTTGTGAACATCTGCTGCAGCAGTGCCGCTGTTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTCACTGACAAGAGTGGCC
GGTGCCTGGTGCAGAACACGGAGAAGGGGCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGGCCCTGGCGGAGACCAACAAGAAGAACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCCGCTTGGGCCAGCCACCTGGTGTCCGAGTGGAGGCAGCAGACAGTGGAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCTACA
GATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCCTGACGCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCCCTTGCCAG
GCCTTGGTAGCATCGGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAGCCAGAGTGCCAGGCCCTCAGCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCCTGCATCCCCAGGCTCCCAATAGCTGCTGGTGGCGCAGCGGCGGCCAAATCTCCGTCCTCCCG
TGGATCTCCCGGGGTGGGGCAGGGCGGGTCCACGATGGCCCCATTGCCCTCATCACCTGACACCCCCACAT
TCTCTCCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCAGCGGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCCTTTAGCTCAGGTCCACCATGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCCGTGCCTTTGCCAGACCCTGCACCTTCAACCAGGCCAGTCCGG

4511/5332
FIGURE 3932B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

4512/5332
FIGURE 3933

GCGGCGCCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCATGTCAGACGAAGGCTCAAGGGGGAGCCGCTTGGCGCTGCCCCGGCCTCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGGCTCTGAAGAGCCAGACCCTCCTCCAGAACCGATG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGCTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCTCCGCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAGCTCAAGGTCAAATCAGCATTCTGCTGCAGAACCTGCTGGTGGGCCACCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGACAGAGCACAGCCCCTTCCACGAGCACGTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGGTGTGCGCGAGTGTGCGGAGCCGGAAGTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTGAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCCAGGCCTCTTGCTCCCTCCCCACCTACAAGGCCCTCTCCAAGGGATCGCAGGGCCT
AGGTGCTTGACCCAGGGTGTGCCAGCCGCTCTGTGTGAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCCGTTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCCTCCTTCTC

4513/5332
FIGURE 3934

GCCGAAGGAGGCTGTGGGAGGTGTTGGCGGCGGCGGCGCGCCTGAGGAGGAGGAGGAGAAGCGGGATGAGA
TCGTGGGGCTCACCAGCGTCCCCATGGCTTCTGAGTAGCGTGGGAGTGGAGTCAGCACCAAGCCAGGCTCCCCG
CGCCTGCCTTGCCCTCACCTGCTCCTGCTCTCTGCCAGAGGCAGCATGGTCCGCAGGGCACCATTGGGGCCCGACA
GAGTGACAGCACGAGAAGTGTGCGAGAACGACGACCTGGCCACCAGCCTCGTCCTGGACCCCTACCTCGGTTTCC
GCACCCATAAGATGAACGTCAGGTCTATCGCTACCTCCGTGCCTTCCTGCCGGAAGTGCTTTACCATCCTGCC
CTGCACGCGCTACTCCATGGAGACCAACGGGGCCAAGATCGTGTCCACTCGTGTGTTGAAAAAGAATGAGAAGCT
GGAGCTGCTGGTGGGCTGCATTGCAGAGCTGCGGGAGGCAGATGAGGGGCTGCTGAGGGCCGGTGAGAATGACTT
CAGCATCATGTACTCAACCCGCAAGCGGAGTGCTCAGCTGTGGCTGGGCCCAGCCGCCTTCATCAACCATGACTG
CAAACCCAACTGCAAGTTTGTGCCTGCAGATGGGAACGCAGCCTGCGTGAAGGTGCTCCGGGACATTGAGCCTGG
GGACGAGGTGACATGCTTCTACGGCGAGGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCCACACCTGTGA
GAGGAAAGGTGAAGGAGCTTTCGAACCCAGGCCTAGGGAGCCCGCGTTGCCACCACGGCCCCCTGGACAAGTACCA
GCTGCGTGAGACCAAGCGGCGGCTGCAGCAAGGCCTGGACAGTGGCAGCCGACAGGGCCTGCTGGGCCCTCGGGC
CTGCGTGACCCATCCCCGCTGCGCCGGGACCCATTCTGCGCCGCTGCCAGCCCCCTGCGCCTGCCAGCCTGCAG
CGCCCCCGCCAGACACCTCACCCCTCTGGCTCCAGTGGCTGCCTCAGCCCCAGCCCCGAGTGCGGCCCCCGGAAGCG
CCGACGCCCCCGGCCCCGAGGGCCCCAGTGCTCTCCACCCACCACGCTGCCCCGCGTCTCCCTGCACCGATGGGG
AGGCTGTGGCCCCCACTGCCGCCTGCGAGGAGAGGCCCTGGTGGCCCTGGGCCAGCCCCCCACGCCCCGCTGGGC
CCCTCAGCAGGACTGGCACTGGGCCCCGGCGCTATGGGCTGCCTTACGTGGTGCCTGTGGACCTTCGTGCGCTGGC
CCCAGCCCCACCAGCTACCCCAGCCCCCTGCTGGGACCCAGGCCCATCCTGATCCCGAAGCAGGCCCTCGCCTT
CGCCCCCTTCTCCCCACCCAAGCGCCTACGGCTGGTGGTCAGCCACGGCTCCATCGACCTGGATGTGGCGGTGA
AGAGCTGTGACAGGCCGACGGGGAGGCCCAGCAGGGAGAGAGGGTCTCTCTCCTAGCTGCTACCCAGGACCTCC
AGAAGGAGCCCTTGACCTCTGGGAGGGAGCTGACCCTTGACTCCAGCATAGCTCTGACCCTGGAATGGGGTTGG
TTTGGACACCCCCAGGGATCTGAGCCCTGACCCTTGTGACTGCTGACCCTGAGCCACCCCCACTCCCACAGGG
AGCCCCGGCCATTTGCTGCCCTCCCCACCCCTGCCCCAGCCTCAGGACTGCAGGAGCCATCCGCCCCCTCAGCC
CCTTCCTCCCCAGGGAGCAAAGCCATAAGGGGCGAGGGGCCACCCACGGCATCTCCCAGAAGTACAGGCCTCAG
GAGGAGGTGGAAGTATGTAGGGGGTGGCACTCCCCAGAGACTGCCCTCACGAGGGGACTGGGTTTCGCTCTCAGC
TCTGCAGCTGTCTGCGGTGGGGGAAGGTTGGGGGGTGTCTGGAGGCATGTTCCCTCACACCCCCCGTGGGTC
TCAGGGAGGCCGGGTGTGACCTCATCTTCTCATGGTGCTATCCTGGTGCTATTGGGGTGGGGAGCTCCCTCCCC
TCCCCCACACCAGAAAGGGGTATGTTGGGGGCTTGAAGCACTTGAACTTTTTATTTTATTAACCTTGTTATA
AGCAGC

4514/5332
FIGURE 3935

GCGGTGCACGACGGCTCCCATTTGGCTGGGGCTCGGGCGTCCTAGCCAATCCGGCCGCGGGGTGCGTTTCTCCTGA
CCCGGGTGGGACCGCACCCCGCGGACTCAGAAGCGAGCGGCACCCCGGGACCATCCACAGCAGATCCAGTGGCC
GCCAACGTCAAGGCTGGAGTTGCCTCCTTCGTGGATGTTGGATGTGGAAGCCAGGAGCCCCCAAGGGGAAATGG
TCGACGCCGCCCTTCGACCCGCGCTTCCCCAGCCAGAACCAGATCCGTAAGTCTACAGAACTTCCTGGACTAC
CACCGCTGCCCTCAAGACCAGGACCCGCGCGGGAAGAGCACGCAGCCCTGCGAGTACTATTTCCGCGTGTACCAC
TCGCTGTGCCCCATCAGCTGGGTGGAGAGCTGGAACGAGCAGATCAAGAACGGGATTTTCGCCGGCAAAATCTGA
CTGCCCCAGCGCGGCTTCTCTGAAGATGCAGTGATCCTGCATCTTTTGTCTCGCGGAGCCCCGGGTCTCGGTT
ATCCACCCCTACCTCCAGTGTCTAAGCCACGAAATAATGCCACCAGCCTTCGAGTTCCTTGTTCCTTGCTCTG
GTCTCCACGTGTATGATGGGGTTCTCAGGCCCAGGCTTCGACCAGAGGACCCCTCTGCCACCACCGTTTCTTCCTG
TCCTTGAGCTACCTTGGTGAATCATGACCCAGGCCCTGCTCCACCAGGATGTCCCCAGGTCTGCCAGCTG
GGAAGTGCCAGCATGAACGCCTCCAATTCGTGGAAGCCAGGGTCCCCTGCAGCTGAGGGACGCCAAGCAGACAC
ACCTGCCCTCCCCAGCCAGCTCCTGTCTGTATGGGCGAGATGACTGAGAGCGCCACGTCCCTAAGGCTGTCCTG
ACCCTCCATGCTGCGACAAGGACAGGGAATGGTCGGTCACTATGGGCCCTGGTGTCTCCCCTCCCCACCACCCGG
TGCTGCCCAGCTCAAGCCAGAAGCTGACTTTGGCCGCCATGGGGACATCAGGCAAGGTCTGGAGACATTTTGGT
TGGGGCAGAGGCATGCTCCTGGCATCGAGTGGGTGGAGACCAGAGAACCCGCTCAACATCCTGCAATGCATGGGA
CAGGCCCTGCCTAGAAACACCAGCTCAGCATGGCAGCAGTGGGAGGCCAGGAAACCCTGATCGCCAGTTTCTAA
CGCCCTCACCATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT
AATGATGCGATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTA
GCTGGGATTACAGGCATGCACCACCACGCCCAGCTTATTTTGTATTTTATTTTATTTTATTTTATTTTATTTTATTTT
GTCAGGCTGGTCTCAAATCCTGACCTCAGGCAATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCG
TGAGCCACTGCACCCGGCTCACCCTAGTTTTTATGCCCCTTTTGTGGGGGTGGGGTGGGGGCAGAGGAGAGGCG
GATACAGAACTTGTGAGAATGTGATGAACGCTCTGAACCCCTATAAAAAATGTGCATGTAAATATATACTCTC
AACATTT

4515/5332
FIGURE 3936

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCGCATGCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT
TCCTTCCGCTACAACGGACTGATTCACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTGAGCCCCCTGCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCA

4516/5332
FIGURE 3937

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGGCCGCGAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGCGCCGCGGGGCCAGCGGCAGGGCCGAAGCCGGTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCCTCCTCCAC
CGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAGCA

"

4517/5332
FIGURE 3938

AATTCTTTTCATTTTCAGAGTTGAGCAAACGTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTTCCTGGGCTCTTTCTTCTTGGCCTCCTGCCCTCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCGTG
TGTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAACTGTCTT
CTATTTCTTCTCAGTCCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTACATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAGGTAATGTCCCTCTGTGCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTAGGTTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCTGGTCTTCT
GGCTTCCCCGGTTCTTCTGCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCGTCCGGGAGTCG
CCCCATCTCTCCACGCATCGGGGCCCTGTGCCCTTGTGCTGCAGCCGGGCACCATGTGACCTCGTCTTGTAG
GCGCCAGATGAAGAACATCGTCCACAACACTACTCAGAGGCGGAGATCAAGGTTTCAGAGGCCACGAGCAATGACCC
CTGGGGCCCATCCAGTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCAT
GAGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGA
GTACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGCAGCAGTGAAGGAGAACATGTACGCCGTGCAGACGCTGAA
GGACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGC
CCTGCTGCGCGACGAGGACCGGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGAC
CGCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGCAGAGCAGCGG
GGAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCGGACGAGCCCCGTCTGCGGCCC
CGAGGACGACGCCCAGCTCCAGCTGGCCCTTAGTTTGAGCCGAGAAGAGCATGATAAGGAGGAGCGGATCCGTCC
CGGGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGAGACTGGGGGCAAGGAGGAGTCCGTCCCT
CATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCGACCACAGACCCCTGGGGGGGCCAGCACCCAT
GGCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAGCTGCTGATCC
CTGGGGAGGTCCAGCCCCACGCCGGCCTCTGGGGACCCCTGGAGGCTGCTGCCCTGCAGGACCTCAGTTGA
CCCTTGGGGTGGGACCCAGCCCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGG
GGTCCCGGTGAGTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCCGGCCTTCTCAGATCCCTGGGGAGGGTC
ACCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGATTTCGACACGGAGCCCGACGAGTTCTCTGACTT
TGACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCC
GGCCCGAAGCCCTGGGGCGTTTGACATGAGTGGGGTTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACC
TGCAGCCACACCAACTCCCACGCCCCCACCAGGAGACGCGGAGTCAATTCCTGGGGCCCAATGCAGCCCTCGT
CGACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCTCCAACCCCTTCTGCCAGG
CGGAGGCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCCGCGCCTCCCGCGACGCTCACCTGAACCA
GCTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGG
CCTGCCCCCATGATGCCCGGGGCCCGGGCCCCAACACTAATCCCTTCTCCTATTAATCCAGGGCGGAAGG
GGGCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTGTGAGTGCATGTGAAATGG

4518/5332
FIGURE 3939

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCTCAGCATGTCGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAATAAACAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTTCTTCAACGCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTGGCAACCCAGTGTT
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTGGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCTGG
CATGTGAGAGAACCCCTCCGCTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCCACAAGCTGTT
CATCGGGGGCTTACCCAACCTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCTGCAAGTGCCGGG
CTTGATGAGCTCCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGACGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTGA CTGCCAGAAAGCCATGCAGGGCCTGACGGGCGCAAGTTCGCCAACAGAGTGGTTGTACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGTTAGAGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCAG
ACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGGGCGGGGTGGGGGGTTGGGGGGTTA
GGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCACACAGACAACACGCAC

4519/5332
FIGURE 3940

AACGGCGGGCCTCACCTGGACCCGGGGACTCTTCAACGAGGGGCGCTAGCCTGGCCCGACTGGGCGAGTCCCCGC
GTCCCTGCCCCGTTCGTCGCTCAGTTCCACGACACGCTCCCCTGCCGCCCCGCCTGTTTCGCGGGTGGGTGGGCGC
TTCCCTCGGCTCCCCGTGACACTTTGCAGACGCTCCCGGCGCCGGGCATGGGCGCCGCCGCGCTCGGTCCCCGA
GCCGGATTCCGCGAGCGGTGCCCTGAGGCCCTCGGCTGCTGGGGTCCGTAGGAAGCCGCGCCATGAATGACCGG
AGCAGTCGGAGGCGGACAATGAAGGACGATGAGACCTTCGAGATCTCCATTCCCTTCGATGAGGCACCCACCTA
GACCCACAGATCTTTTACAGTCTGAGCCCCTCTCGGAGAACTTCGAGGAGCCTCCGGAGGCTGCGTCTCCGCC
CTGGCTCTGATGAACAGCGTCAAGACCCAGCTGCACATGGCTCTGGAGAGGAACTCCTGGCTGCAGAAGCGCATC
GAGGACCTGGAGGAAGAGAGGGACTTCCTGCGGTGCCAGCTGGACAAATTCATCTCTTCTGCTCGGATGGAGGCA
GAGGACCACTGCCGGATGAAGCCTGGGCCCAGGCGGATGGAGGGGACAGCCGTGGTGGGGCTGGGGGCGAGGCC
TCGGACCCCTGAGTCAGCAGCCTCCTCCCTCAGCGGAGCGTCCGAAGAAGGCAGCGCCAGTGAGAGGAGGCGGCAG
AAGCAGAAGGGAGGTGCTAGTCGGAGGCGCTTTGGGAAGCCCAAGGCCCGGGAGAGGCAGCGAGTGAAGGACGCC
GACGGGGTCTCTGCCCGGTACAAGAAGATCCTGGGCACCTTCAGAAAGCTCAAGAGCATGTGCGGGCCCTTCGAG
CACCACCGCGTGGACAGGAACACCGTGGCGCTGACCACGCCCATCGCCGAGCTGCTCATTGTGGCCCCCGAGAAG
CTGGCCGAGGTGGGCGAGTTCGACCCCTCCAAGGAGCGCCTGCTCGAGTACTCCCGCCGCTGCTTTCTGGCCCTG
GACGACGAGACGCTCAAGAAGGTGCAGGCGCTCAAGAAGAGCAAGCTGCTGCTGCCCATCACCTACCGCTTCAAG
CGGTGATCGCACACGCTCCGCGCCTCCACCCGGGCCTTCCTCCCCCGTGGACCCCGGTGGATGACCTGCCCT
CTCCCCGCGCGCCCCCTGCCCTCCTCCTCGCTCCCTGGGTGGGGGCTCCCTTAGCCGGGCCCCCAAGCGCGAC
GGCCCCGACCGGCCGCGGCCCTTCCCGAACGCCGGCACCCCTTCCGCTGGGCTGCCCAGCCCTGTCTCTCGC
CGGGCCCCCTTCTCCTGGAAAACAGGCAGGCGGGTGGCCCCCTCGAGTGGGGGACTGTACAGACCCGCTCTC
CGCCCTGGCCCCGCGGAGGAGCTGCCCACCTGATTCCCGGACAGACCTCCCAACTCCGCGTGAGACAGAGAATT
ATTCAGATAATTTAAATTAAAAACGACGTGAAAATTTGGAATAAA

4520/5332
FIGURE 3941

GGGCGGCGGGAGGGGCTGGACCGCGTGGAGGGGCTCAGCCAGCCCTCCGGATGCTGGTGCTGCCATCCCCCTGCC
CTCAGCCTCTGGCATTTCCTCCGTTGAGACCATGGAGGGCCCTCCCCGTCGGACTTGCCGCTCCCCAGAACCTG
GACCTTCCTCCTCCATCGGATCTCCCCAGGCTTCATCTCCTCCAAGGCCAACCCTACCTGCTTATTGACACTC
AGGGTGCTCCCTACACAGTGCTGGTGGACGAGGAGTCACAGAGGGAGCCAGGGGCCAGTGGGGCTCCAGGCCAGA
AAAAGTGCTACAGCTGCCCCGTGTGCTCAAGGGTCTTCGAGTACATGTCTACCTTCAGCGACACAGCATCACCC
ACTCGGAGGTAAAGCCCTTCGAGTGTGACATCTGTGGGAAGGCATTCAAGCGCGCCAGCCACTTGGCACGGCACC
ATTCCATTACCTGGCGGGTGGTGGGCGGCCCCACGGCTGCCCGCTCTGCCCTCGCCGCTTCCGGGATGCGGGTG
AGCTGGCCCAGCACAGCCGGGTGCACTCTGGGGAACGCCCCGTTTCAGTGTCCACACTGCCCTCGCCGCTTTATGG
AGCAGAACACACTGCAGAAACACACGCGGTGGAAGCATCCATGAGCCGGGCTGCCGGGTGCCCCAGGTACCACAG
GACTTTGCAGGGAGCCTGGACTCCTGTCCAGA

4521/5332
FIGURE 3942

GGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCCGTAGTGGGGAGAGGTGACTAG
ACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGAATTGGGTTAGTGGGGCTCT
GGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGGG
ACGGAGGGCCAGGAGGCCGATACGGGGGCCGGTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAAC
TGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGGCGGTCAGGAGGCCCGGGTCTAA
GATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTTGAGAGGAGAAAAGGGAAGAAAAGT
CGGGGGACTACGTCCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGGT
TTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGTT
TTTATTTTGCTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCCATTTTA
GGAAACTTTTCTAAAAGGAAGTGGCAATTTTAACTAATCTCCCCTCCGCCGCTCCCAGCTGCCGCTCCAGATGC
TGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCTC
CCCCTTTCCCCAAGGCGGAAGGCCCCCTCCTCCACTCCTTCCTCGGCGGCGGGGCCCCGACCCCCGCGGCTGGGCC
GCCACCTCCTCATCGACGCCAATGGGGTCCCCTACACATACACGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCGC
CCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGTCTTTG
CCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGCA
AGGCCTTCAAGCGCTCCAGCCACCTGTGCGGGCATCGCGCCACGCACCGCGCCCGCGCGGGCCGCGGCACACCT
GCCCCGCTCTGCCACGCGCTTCCAGGACGCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTAAGCTCGAGACC
CGGCCTGTGCTGCCCTGCCCCGTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACCCC
CCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGTTTCCCCACCTTCCAAAGGGAGGAGCATCATTCTT
TCCTTACCCCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCTCCCTGGGCCTGGGAACCAGTCGGAAC
TGGGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTC
TGGAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTTCAATTTCTGTA
TCTACCCCCCTTCCGCCACGCCCCGACCCCTTGCTCAATAAACATTCCGCACTCC

4522/5332
FIGURE 3943

ATGGAACTCAAGCTCCCTGCTTCTGTTGCTAGGCTTAGCCAGGGTCTCCCGTCTCCACCCGCCGGAGATGGAG
GCGAACCAGCGGGCAGCGGCGCGGGGTGGCGGGAGCAGCGGCATCGGGGCGAGGACGGGGTGCACTTCCAG
AGCTACCCCTTCGACTTCCTGGAATTCCTCAACCACCAGCGCTTCGAGCCCATGGAAGTGTATGGGGAACACGCC
AAGGCGTGGGGCATCGTGGACCTCTCGGGGCACCAGCACTTGTTTGGGAACCTGAAGCGAGGAGGGCCCGCTCC
GGGCCGGGGACCCCGCCAGGACCCCCGCGGGCGGCGCCTGCGACCCACCAAGGACGACAAGGGTACTTCCGG
AGACTGAAGTACCTGATGGAGCGGCGCTTCCCTGCGGCGTGTGCCAGAAGTCCTTCAAGCAGTCCTCGCACCTG
GTCCAGCACATGCTGGTGCACCTCGGGGAGAGGCCCTACGAATGCGGCGTCTGCGGCCGCACCTACAACCACGTT
TTCAAGAAGCCAGTCACCTCCACCAGCACCAGATCATCCACACGGGCGAGAAGCCCTTCTCCTGCTCCGTGTGC
AGCAAAAGCTTCAACCGCAGGGAGAGTCTGAAGCGCCACGTGAAGACGCACTCGGCCGACCTCCTGCGCCTGCCC
TGCGGCATCTGCGGGAAGGCCTTCCGCGACGCCTCCTACCTCCTCAAGCACCAGGCGGCCACGCGGGGGCGGGC
GCCGGGGGGCCTCGGCCCGTGTACCCCTGCGACCTGTGCGGCAAGTCCTACTCGGCTCCGCAGAGCCTGCTCCGC
CACAAGGCCGCCACGCCCGCCCGTGCCTGCGGAGGCGCCCAAGGACGGGGCGGCCCTCGGCCCGCAGCCC
CCGCCACCTTCCCCCGGGCCCCGGGGCGGGAGGCTCGGGCGCCAGCGTCCCAGGAAAGACGTTCTGCTGCGGC
ATCTGCGGGCGCGGCTTCGGGCGCGCGAGACCCTGAAGCGCCATGAGCGCATCCACACGGGCGAGAAGCCCCAC
CAGTGCCCCGTGTGTGGGAAGCGCTTCCGGAATCCTTCCACTTGAGCAAGCATCACGTGGTGCACACGCGCGAG
CGGCCCTACAAGTGCGAGCTCTGCGGCAAGGTCTTCGGCTACCCGCAGAGCCTCACC CGCCACCGCCAGGTGCAC
CGGCTCCAGCTGCCCTGCGCCCTGGCCGGGGCAGCCGGCCTCCCCTCCACCCAAGGCACACCGGGGGCCTGTGGG
CCCGGGGCTCGGGCACGTCTGCAGGGCCACCGATGGGCTGAGCTACGCCTGCTCGGACTGCGGCGAGCACTTC
CCGGATCTCTTTCACGTCATGAGTCACAAGGAGGTCCACATGGCAGAGAAGCCATACGGCTGCGACGCCTGCGGC
AAGACCTTCGGCTTCATCGAGAACCTCATGTGGCACAAGCTGGTCCACCAGGCCGCCCCGAGCGCCTGCTCCCG
CCCGCACCCGGCGGCTGCAGCCCCGACGGCTCCAGCGGCACGGATGCGGCCAGCAGTTTCAAGCACTTCCTG
GGCCTCGTGA CTACAAGTACGTGCACCTGGTGCACGGAACCTGGGCTGCGGCCTCTGCGGCCAGAGCTTCGCG
GGCGCCTACGACTTGCTCCTACACCGCCGACGCCATCGGCAGAAGCGGGGTTTCCGCTGCCCGGTGTGCGGGAAG
CGCTTCTGGGAGGCGGCCCTGTGATGCGCCACCAGCGCTGCCACACGGAACAGCGGCCGTACCGATGTGGCGTG
TGCGGCCGAGGCTTCTGCGCTCCTGGTACCTGCGGCAGCACC GCGTGGTGCACACTGGCGAGCGGGCCTTCAAG
TGCGGCGTGTGCGCCAAGCGCTTCGCGCAGTCTGTCAGCCTGGCAGAGCACC GCGGCTGCACGCTGTGGCCCGG
CCCCAGCGCTGCAGCGCCTGTGGCAAGACCTTCCGCTACCGCTCCAACCTGCTGGAGCACCAGCGGCTGCACCTG
GGCGAGCGCGCCTACCGCTGTGAGCACTGCGGCAAGGGCTTCTTCTACCTGAGCTCCGTGCTGCGCCACCAGCGC
GCCCATGAGCCGCCGCGGCCCGAGCTCCGCTGCCCCGCTGCCTCAAGGCCTTCAAGGATCCCGGCTACTTCCGT
AAGCACCTGGCTGCCACCAGGGCGGCCCGCCCTTCCGCTGCTCCTCCTGCGGCGAGGGCTTCGCCAACACCTAC
GGCCTCAAGAAACACCGCCTGGCGCACAAGGCCGAGAACCTCGGGGGGCTTGAGCAGGGGCGGGCACCTTGGCC
GGGAAGGATGCCTGA

4523/5332
FIGURE 3944

ATGCGGGGCTGGTCTGCACCGGCCCAGCACCTCGGCTGCGCCTGGCCGATGGCCCCACGGGTGCGCCGGCCGCC
TGGAGGTCTGGCACGGGGGTCGCTGGGGGTCGGTGTGTGACGACGCCTGGGACCTGCGAGACGCCGCTGTGGCCT
GCCGAGAGCTGGGCTGCGGAGGGGCGCTGGCCGCCCCGGGGGCGCCTTCTTTGGGGAGGGGTCTGGACCCATCA
TCCTGGACGACCTTCGGTGTGCGGGGAAACGAGACGGCCTTACGATTCTGCCCAGCTCGGCCCTGGGGCCAGCATG
ACTGTCACCACCGCGAGGACGCCGGGGCCGTGTGTGACGGCATGCCCTGGGCTACGTCCCTCCCACGGCCCCCA
CGGACAGCAACAACCTCCACGCCAGGGAGGCTGCCTCCAGGCCGCCGTCCACCATGACGAGCCAGGCTCCAGGGA
CGGCAGGCGTTTCACCTCCTCCAGCCTCCCCTACTGTCCTTTGGGAGCCTGGACCGGAAGCCGGGGCCCCAGGCC
TGGACTCCATCTCAGACCCCTTCAGCTGGAGCTGGATTCTGGACTGGGGAGAGATCGGGATGCCTGGCTCCCGG
GAGAGCTGGCCACCAAGCCCTCTGCAAGTGTGACTGCCAGTGTCTGGAGAAAACAACCACGAAGGCCCCA

4524/5332
FIGURE 3945

CCTTGTCTGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGCCCCCAGCCACCTGTCAGTGCGGGAGATGAGGGAAGATGAGAAGCCCCTGGTGCTGGAGATGCTGA
AGGCCGCGCTGAAGGACACGGAAAACCGCTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCTGGCTG
TGGCCGCGCTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAATGCAGGGGACGGGGCCC
GGGTACCCCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGATGGGGGAGCCCCGGGGCCCGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCCTGGGGCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTGAGCAGTGTGAAGTCTGTTGTGTTTGAGCT
TCTCAGAGTGGAATGACTCCTTTTCTTCTGGCCCTCGGGGGCCTCTCGAGGTGAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGAGAGGAGGCCGAGCAGAATACCCCCAGAGTTAGGGTTTGCGACTCCGCCTCCCTG
GGACCTGGATTGGGTGAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

4525/5332
FIGURE 3946

CCTAACGAAACGGTAACCAGCCCTGGGAAGCCCGCAAGAGGCCTCAGCGGTGGCCGTCCGAGAGCCGAGAGGTGA
GGGTGCCCCCGCCTCACCTGCAGAGGGGCCGTTCGGGGCTCGAACCCGGCACCTTCCGGAAATGCGCGGTGCCA
GGCCCAGCCTGGGCCGAGTCCTCCAGGATCCTCTGTCTGTTCCTGTGTGACATGCAGGAGAAGTTCCGCCACA
ACATCGCCTACTTCCACAGATCGTCTCAGTGGCTGCCCCGATGCTCAAGGTGGCCCGGCTGCTTGAGGTGCCAG
TCATGCTGACGGAGCAGTACCCACAAGGCCTGGGCCCCACGGTGCCCCGAGCTGGGGACTGAGGGCCTTCGGCCGC
TGGCCAAGACCTGCTTCAGCATGGTGCCTGCCCTGCAGCAGGAGCTGGACAGTCGGCCCCAGCTGCGCTCTGTGC
TGCTCTGTGGCATTGAGGCACAGGCCTGCATCTTGGACCCCCGTTCTTATCCGGGGTTGGCCCTGACCTCTCTCT
ACCCACAGAACACGACCCTGGACCTCCTAGACCGGGGCTGCAGGTCCATGTGGTGGTGGACGCCTGCTCCTCAC
GCAGCCAGGTGGACCGGCTGGTGGCTCTGGCCCGCATGAGACAGAGTGGTGCCTTCCTCTCCACCAGCGAAGGGC
TCATTCTGCAGCTTGTGGGCGATGCCGTCCACCCCCAGTTCAAGGAGATCCAGAACTCATCAAGGAGCCCGCCC
CAGACAGCGGACTGCTGGGCCTCTTCCAAGGCCAGAACTCCCTCCTCCACTGAACTCCAACCCTGCCTTGAGGGA
AGACCACCTCCTGTCACCCGGACCTCAGTGGAAGCCCGTTCCCCCATCCCTGGATCCCAAGAGTGGTGCGATC
CACCAGGAGTGCCGCCCCCTTGTGGGGGGGGGAGGGTGCTGCCTTCCCATTGGACAGCTGCTCCCGGAAATGCA
AATGAGACTCCTGGAAACTGGGTGGGAATTGGCTGAGCCAAGATGGAGGCGGGGCTCGGCCCCGGGCCACTTCAC
GGGCGGGAAGGGGAGGGGAAGAAGAGTCTCAGACTGTGGGACACGGACTCGCAGAATAAACATATATGTGGC

4526/5332
FIGURE 3947

GCTGTGGCCCTGGCACCTGCCCCTGGGCTGGGACAGCCCACTGTTCCATGCTGCCCAAGAAGGCTCAGCACAGGC
ACAAACCAATTGCCCCGCACTGGCCCGTGCTGCCTGAGAAGGATTGGCACGGGCACAGACCACTGCCCCACCTGC
CCTGCGCCATCTACCCAAGAAGGCTCGGCACGGGCACCAACCACTGCCTCCAAGTGGCCCATGCTGCTGAGAAG
GCACTGCACGGCCACCCCAACTGCCCCGCACTGTCCCTACCCGGGCAGCCATGCGAGCGGCTGGAACCTCTGCTG
GCCTTCTGCTGCCTGGTCTTGAGCACCCTGGGGGCCCTTCCCCAGATACTTGTTCCAGGACCTTAACCTCACGT
GTGAAGCCAGGATTTCTTAAACAATAAAGACCAATGACCCAGGAGTCTCCAAGCAGCCAGATACAGTGTGAA
AAGTTCAACAACCTGCACGAACGACATGTTCTTGTTCAAGGAGTCCCGCATCACAAGGGCCCTAGTTCAGATAGTG
AAAGGCCTGAAATATATGCTGGAGGTGGAAATTGGCAGAACTACCTGCAAGAAAAACCAGCACCTGCGTCTGGAT
GACTGTGACTTCCAAACCAACCACACCTTGAAGCAGACTCTGAGCTGCTACTCTGAAGTCTGGGTCGTGCCCTGG
CTCCAGCACTTCGAGGTGCCTGTTCTCCGTTGTCACTGACCCCCGCCTCTTCAGCAAGACCACAGCCATGACAAA
CACCAGGATGCATGCTCCTTGTCCTCCCTCCACCCGCCTCATGACCCAGCCTCACAGACCCTCTCAGGCCTCTGAC
GAGTGAGCGGGTGAAGTGCCACTGGGTACCCGAGGGCAGCTGGAATGGCAGCATGGTAGCACCTCCTAACAGAT
TAAATAGATCACATTGCTTCTAAAT

4527/5332
FIGURE 3948

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGITCCG
AGCCCCACTTCCGGGCGGTGAGAAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCAATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGAGGTGCTCACAGACGATGATGGCCAGGCCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTCTCTCACCGTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCCGCTCTTG
CTTGGTGTCTGTCATCCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAATCAACTTGTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACTTGAAAAATGGTGAA
ATAGAGACCATTGCCCGTTTGGTTTCGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGACAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAACTGCTGCTGCTCCTCCGAGACACCCATTGAGGGGAAGAATGTCCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTTGTGGAGAACATGCCTGGA
TTTCCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTCGACCATCCGCCCTAACCCCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAGGATGATTTTAAAGCTCTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCAGATAGCTGCCCCTGCCACGCAGGCC
AGGAGTCTTACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCTCGAGGATGCCCGGGCCCCACCTGGGCTT
GTCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCCTGCGGCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTCATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAATGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGTATGAAAAGCTTGTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

4528/5332
FIGURE 3949

GAAAATAGTGGATGAGGCTGTGAAGCACTGCCCCACCGTGCAGCATGTCCTGGTGGCTCACAGGACAGACAACAA
GGTCCACATG GGGGATCTGGACGTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCGTGTTGCGCCCCAGAGAG
CATGGGCAGTGAGGACATGCTCTTCATGCTGTACACCTCAGGGAGCACCAGGAATGCCAAGGGCATCGTCCATAC
CCAGGCAGGCTACCTGCTCTATGCCGCCCTGACTCACAAGCTTGTGTTTGACCACCAGCCAGGTGACATCTTTGG
CTGTGTGGCCGACATCGGTTGGATTACAGGACACAGCTACGTGGTGTATGGGCCTCTCTGCAATGGTGCCACCAG
CGTCCTTTTTGAGAGCACCCAGTTTATCCAATGCTGGTGGTACTGGGAGACAGTAGAGAGGTTGAAGATCAA
TCAGTTCTATGGCGCCCCAACGGCTGTCCGGCTGTTGCTGAAATACGGTGATGCCTGGGTGAAGAAGTATGATCG
CTCCTCCCTGCGGACCCTGGGGTCAGTGGGAGAGCCCATCAACTGTGAGGCCTGGGAGTGGCTTCACAGGGTGGT
GGGGGACAGCAGGTGCACGCTGGTGGACACCTGGTGGCAGACAGAAACAGGTGGCATCTGCATCGCACCCAGGCC
CTCGGAAGAAGGGGCGGAAATCCTCCCTGCCATGGCGATGAGGCCCTTCTTTGGCATCGTCCCCGTCTCATGGA
TGAGAAGGGCAGCGTCGTGGAGGGCAGCAACGTCTCCGGGGCCCTGTGCATCTCCCAGGCCTGGCCGGGCATGGC
CAGGACCATCTATGGCGACCACCAGCGATTGTGGACGCCTACTTCAAGGCCTACCCAGGCTATTACTTCACTGG
AGACGGGGCTTACCGAAGTGGGGCGGCTATTACCAGATCACAGGGCGGATGGATGATGTCATCAACATCAGTGG
CCACCGGCTGGGGACCGCAGAGATTGAGGACGCCATCGCCGACCACCCTGCAGTACCAGAAAGTGCTGTCTATTGG
CTACCCCCACGACATCAAAGGAGAAGCTGCCTTTGCCTTCATTGTGGTGAAAGATAGTGCGGGTGACTCAGATGT
GGTGGTGCAGGAGCTCAAGTCCATGGTGGCCACCAAGATCGCCAAATATGCTGTGCCTGATGAGATCCTGGTGGT
GAAACGTCTTCCAAAACCAGGTCTGGGAAGGTTCATGCGGCGGCTCCTGAGGAAGATCATCACTAGTGAGGCCCA
GGAGCTGGGAGACACTACCACCTTGGAGGACCCCAAGCATCATCGCAGAGATCCTGAGTGTCTACCAGAAGTGCAA
GGACAAGCAGGCTGCTGCTAAGT GAGCTGGCACCTTGTGGGGCTCTTGGGATGGGCGGGCACCCAAGCCCTGGCT
TGTCTTCCCAGAAGGTACCCCTGAGGTTGGCGTCTTCTACGTCCCAGAAGCAGCCCCACCCACACATGACC
CACACCGCCCTCACGTGAAGCTGGGCTGAGAGCCCTTCTCCCATCCATTGGAGGTCCAGGAGTGTCACCCATG
GAGAGGCTATGCGACATGGCTAGGGCTGGTTCTGCCATCTGAGTTTGGTTTCTTGGAAATGAAAAGGCATTGCCAT
CTCCATTCTCTGCCCTCTTGAGCCAGCACAGGAAGGTGAGGCCCTGGGATAGCGCGCCTGCTCAGATAACACAG
AGCTAGTTAGCTAGTAGCAACCGTGTTTTCTCCAGATCTGTCTAGATACAAAGGTCAGAAATCTATTTTTATAC
TTTTATATTGTGGAAGAACAGCATGCAACACTCACATGTAGTGTGTGGATTTACTTGAACATGTTCTTTTTAAEA
TGTAATTATGAAAATCTCCTTTTTTGCCTCTACTGGTGAGGAAACATGAGGATCAGAGGCCACATTTTTAATTAT
TGTTAGTGATTTTGAAGTCTGAATTGGAGATGTTTGTACCTCTGTCTAAACAGTTCCCTTGAGAACTTCCAAGC
CTCCGGCATCTTTTCTGGTGAGTGTCTTCTCCTGTGCTTGGTTGTGTATAATGGAGCTAACTCCTAAGCGGTGGG
GTGAATGTGGCCGCTTAGTTCTGAAGCTACTCCAGTTATGTTCTGTTTCTTCAAGCTGTGATCCAGAAAGATTT
TTGTGCCCCCAGATGCCTCTTGATAGGAGAGGCAACATACTCCAAATAGTTGGGTTCTTCAGGGAAGCTATTAGA
AACTCAGGTGACTTGTTAGAGCACTAAGTTGGTCAGAGCCAAATCCTGGCAAACGCTGCCTGACCTTCACTCTGT
GGTTGGGGCGGTGAGAACCCTGAGGTCCAATGATGAGACTTGGAGGTCTGGATCCAGTCTCTCTTTGTTTTAAT
GTGACTTAGGTGCTGTCAACATTAGCAAGATAATGGAAATCACGACGCCAGTGGGTGCTTACCTCCCTGCTAGGC
ATGCAGGGGCTGGCGGTTGGCAGGGGAAGGAGGCCAGTGAGCCGGGTCCCTTAGGGGAGGGAGAGTTTGTCTC
TTTGCCCCACAGTCTACCCCTCAGGGCCTTGTGGCAGTGCCAGTGTTCGGGGGTGTCTGGGCCACTGAGTACCC
ACTCGGTCTGTGTTGTGCTGGCCTCTTGGGTGAGTGAACCTGTGAAGCCAGGAGGTGGTGTGGCTGCAGGGTA
CACAAATACTGAGTGGTGGTCTTTTGTACAGGCTTAGCAACAAAGCTGTGCCCTGGGCATGGGGGGCTGTAGTG
TAGCTACAGTTGTGCGTTTGTGAAATGGCTTAGCTTTCCATGTTGCTGAGAGGAACCTGGACATGGTCCCGGGCA
TCTGAATGATCTGTAGGGGAGGGAGTTCAAATAAAGCTTTATTTTGTTCATTTTC

4529/5332
FIGURE 3950

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGAGCCCCAAAAGACCGGCTGCCGC
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTTTCAGCAGCCGAGCAGCAGGTCCTTGGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTTCATCTATGTTGCCCTACATCAAGTGGCACCGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGGCCCGGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCGGCCCCCAGAGAA
ACTCCACGTTAACCCACGAAACCTTCAAAGCACTGAAGCCAGGTCTTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACTACTGGATGTTGCTAAACAGGACATTCCGTTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCTAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCCAGAAGTTACTGCAGAAGGTGAAA
AAAGTATTTAAAGCATCGCCTTTCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTGACAGGCAGCTTGAAAACCTCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTTACAGCTACCTCGGGCTCGGGCTGATGTG
GCACGCCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCTACTATTACGACCTTGCAGCTGGTGTGGGCCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCCCTGGAGACACAGCCGAGAGCAGC
CCCTTCTCATGCATGGACCTCACCTACGTGAGCCTGCTACTCCAGGAGTTCGGCTTTCCAGGAGCAAAGTGCTG
AAGCTCACTCGGAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTCAGCAGTGTCTGTGTGCTGCATA
AACCCTCCTGTCTGGACGTGACTTCATCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGCAGAAGGCCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGGCCCTGCTCAATGCCACCTGTCTGCCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCCGTCCGCGGGGCTGTGGCTGCTGTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTCCAGGGCAGAGCTCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACTCTGGACTTGAGTGTGTTTGCCCTCTTCTTGGGTATGAATGTGTGAGTTC
ACCCAGAGGCCTGCTCTCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCCTCATAGACGG
CAGGTGCCCACCTTTTCAAGGAGTCTCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTGTGGCT
GTGCTGCTTGAGTGACGTCTCTGTGCTGTGGGTGCCAAGTGTGTGTAGAACTGTGTTCTGAGCCCCCTTTTC
TGGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCCTAGCCAGGGCCATGTCTTAGGTG
CAGCTGTGCCACGGGTGAGCTGAGCCACAGTCCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCCCACC
TCGGGCTGACCCCACTCTCCATGGACAGTGTGAGCCCCGGGCGGTGCATCCTGCTCAGTGTGGCGTCAGTGTG
GGGCTGAGCCCCCTTGAAGTGTCTCAGTGAATGTACAGTGCCCGGCACGAGCTGAACCTCATGTGTTCCACTCCC
AATAAAAGGTTGACAGGGGCTTCTCCTTC

4530/5332
FIGURE 3951A

GAGCAGCTGCACCATCCCGGCGTTTCGCGTGTGCCGCCGCTTTCTCCTCCATCTCTTTTCTCCGCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGC CGCGGCTGGCGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACCTTACGCTGGTCAAGGACCGCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC CGCGACCACTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTATATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCCTTCAGAAATGCCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACCTGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCTGGGGAGGCTGGCAGCGTGTTCCTTGACTCAATGGC
TACCTTGGGCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTTAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCTGAGTATATGCT
TCCCGTGCACCTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTGGC
CATGCCCTACGACACCCCAAGTGCCCGGCTACAAGAAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACCTTGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCTGTGAG
AACCTGTTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCAGGAAGAAGACCTGTGC
ATACACCAACACACTGTGCTGCTGAGGCCTTGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCCGC
GCACCTGGAGATAATCTATGCCATCAACGAGCGCACCTGGACCAGTGGCCGCGCTGTTCCCGCGCATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGACTGCAAGCGGATCAACATGGCCACCTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTATGA
ACTGGAGCCAGAGAAGTTCAGAAATAAGACCAATGGCATCACCCCGCCGGTGGCTGCTGTGTGAACCCGGG
GCTGGCCGATACCATCGTGGAGAAAATTGGGAGGAGTTCTGTACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
GCTGGTCAGTGACGAGGTGTTTCATCAGGACGTGGCCAAGGTCAAACAGGAGAACAAGCTCAAGTCTCGGCCTT
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGTCACCTGTACAATCGAATCAAGAGAGACCCGCCAAGGCTTT
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CCGTCCATCGGCGACGTGCTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTGGAGAACTA
CCGTGTGTCTTGGCTGAGAAAGTGATCCCGGCCGTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTTATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCCGGGGCCGAGAACCTCTTCATCTTCGGCTGCGGGTGGAGGATGTGAGGCCCTTGGACCG
GAAAGGGTACAATGCCAGGGAGTACTACGACCACCTGCCCCAGCTGAAGCAGGCGCTGGACCAGATCAGCAGTGG
CTTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
CAAGAAGGTCAATCAGGAACATCGCCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCCAGAACTTTGCACACATCTTGCTATGTATAGCCGATGTCTTTAGTGTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCCTGCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTCCGAT
CCTCTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTATGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGGAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGTCTGCTGTCTCAGAGGCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC
TTGGTTTTGCTTATTCAAAGAGAAAATAACTACACATGGAATGAACTAGCTGAAGCCTTTTCTGTGTTTAGC
AACTGAAAATTGTACTTGGTCACTTTTGTGCTTGAGGAGGCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCCGCTGACTCCTGCTGTGTCTGAGGTGCATTTCTGTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACCACTGCCACAGCCTCGTCTGGA AAAAGGACCAGGGGTCCCGGAGGAACCCATTTGTGCTGTGCTTGG
ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCTCCCAAGGCTGGCAACCTGCCT
CCCATTGCCCAAGAGAGAGGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCACG

4531/5332
FIGURE 3951B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCCTGACCAC
CACTGTGCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

4532/5332
FIGURE 3952

GCCAGGGATGCTGGGCGCGCTCCTTGGAAGTAGAGAGGAGGTGGCCGGGGCGGGGCCGGGGGAGGGGGTAGG
GCAGAGCCGGGGAGCCCCGGCGCTGATTGGCCGGCCTGGCTGGCGGGCCCCGCCGCTGGTTCGTAGCCGGCGC
AGCGGCCTGGGCTGGGATGTGAGGAGCGGCGGGTTCCGGGCTCCGGGCTCTGGGTGGCGGCGGCTGTGAGCGGCG
GCACTGCGGCGCAGGCCAGCGGGCGCCGTCGGCGGCTGGCCCTGTGCGCCGCGGGATGAGGAAGCGGACCGAGCC
CGTCGCCTTGGAGCATGAGCGCTGCGCCGCGCGGGCTCGTCCTCCTCCGGCTCGGCCGCCGCGGCTGGACGC
CGACTGCCGCCTGAAGCAGAACCTACGCCTGACGGGCCCCGGCGGCGGCTGAGCCGCGCTGCGCAGCCGACGCGGG
AATGAAGCGGGCGCTGGGCAGGCGAAAGGGCGTGTGGTTGCGCCTGAGGAAGATACTTTTCTGTGTTTTGGGGTT
GTACATTGCCATTCCATTTCTCATCAAATATGTCTGGGAATACAGGCCAAACTGATTTTCTTGAATTTCTGTAAG
AGTTCCTATTTTCATTGATTTGAAAAAACCACAGGATCAAGGTTTGAATCACACGTGTAACTACTACCTGCAGCC
AGAGGAAGACGTGACCATTTGGAGTCTGGCACACCGTCCCTGCAGTCTGGTGGGAAGACGCCAAGGCAAAGACCA
GATGTGGTATGAGGATGCCTTGGCTTCCAGCCACCCTATCATTCTGTACCTGCATGGGAACGCAGGTACCAGAGG
AGGCGACCACCGCGTGGAGCTTTACAAGGTGCTGAGTTCCTTGGTTACCATGTGGTCACCTTTGACTACAGAGG
TTGGGGTGACTCAGTGGGAACGCCATCTGAGCGGGGCATGACCTATGACGCACTCCACGTTTTTACTGATCAA
AGCAAGAAGTGGTGACAACCCCGTGTACATCTGGGGCCACTCTCTGGGCACTGGCGTGGCGACAAATCTGGTGCG
GCGCCTCTGTGAGCGAGAGACGCCTCCAGATGCCCTTATATTGGAATCTCCATTCACTAATATCCGCGAAGAAGC
TAAGAGCCATCCATTTTCAGTGATATATCGATACTTCCCTGGGTTTACTGGTTCTTCCTTGATCCTATTACAAG
TAGTGGAATTAAATTTGCAAATGATGAAAACGTGAAGCACATCTCTGTCCCCTGCTCATCCTGCACGCTGAGGA
CGACCCGGTGGTGCCCTTCCAGCTTGGCAGAAAGCTCTATAGCATCGCCGCACCAGCTCGAAGCTTCCGAGATTT
CAAAGTTCAGTTTGTGCCCTTTCATTACAGACCTTGGCTACAGGCACAAATACATTTACAAGAGCCCTGAGCTGCC
ACGGATACTGAGACCTCAGCAGGGCCCAGGTTCCAGCCCAGATCCCAGCATGTGGTCAGAGCTGGTGTGACTGAA
GCCAACAGGTGACACGGTCATCGAAGAGCAGCAGACAAAATAAACTAACCCAAAGGCAGCTGAAAGTGGAGGG
CAGGTGAATTTCCAGCCCTCGCCGATTCAACTTTTGCCAACGGTGAAGAAGTGCCTGAGCTGCAAACCTTACA
AAGTCTGTAAGTCTAGATAAACCATACCATGTGCTAACTGCACTGAAATAAAACACTAACTACATTATAATGTC

4533/5332
FIGURE 3953

ATCCAATGGGCATTGTGTGGGTGCTTGGAACCCGGGATGACTGAGGGGGAACCCATTTGTGCTCTGCTTGGACAG
CAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCCTCACAGCCTTGCCCCCTCCCAAGGCTGGCAACCTGCCTCCCA
TTGCCCAAGAGAGAGGGCAGGGAACAGGCTACTGTCCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTTGCA
GCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCCAACCAGGAGGATCTGCGCACGGTGC
ACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGCATCT
TCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCCTGACCACCCT
GTGCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGCTG

4534/5332
FIGURE 3954A

CCTGCTATGGGATGGATGAAGAAGAGAACCCTATGTCTCGCAGCTCAGGGAAGTCTACAGCAGCTGCGACACCA
CGGGGACTGGCTTTCTGGACCGCCAGGAGCTGACCCAGCTCTGCCTTAAGCTTCACCTGGAGCAGCAGCTGCCCCG
TCCTCCTGCAGACGCTTCTCGGAAACGACCATTTCCGCCAGGGTTAACTTTGAGGAATTTAAGGAAGGTTTTGTGG
CTGTGTGTCTTCAAATGCTGGTGTTCGCCCCCTCAGATGAAGACAGTAGTTCTTTGGAATCAGCTGCCTCCAGTG
CCATCCCTCCAAAGTATGTGAATGGTTCTAAGTGGTATGGCCGTCGGAGCCGGCCTGAGCTATGTGACGCTGCCA
CAGAAGCCAGACGCGTCCGGGAGCAGCAAACCCAGGCCAGCCTGAAAAGTCACCTCTGGCGCTCAGCGTCTCTGG
AGAGCGTGGAGAGTCCCAAGTCAGATGAAGAGGCCGAGAGCACTAAAGAAGCTCAGAATGAATTATTTGAAGCAC
AAGGACAGCTGCAGACCTGGGATTCTGAGGACTTTGGGAGCCCCCAGAAGTCTGCAGCCCCCTCTTTGACACCC
CAGAGAGCCAGATCCGGGGCGTGTGGGAAGAGCTGGGGGTGGGCAGCAGCGGACACCTGAGCGAGCAGGAGCTGG
CTGTGGTCTGCCAGAGCGTCCGGCTCCAGGGACTCGAGAAAGAGGAACTCGAAGACCTGTTTAAACAACTGGATC
AAGACGGAGACGGCAAAGTGAGTCTTGAGGAATTCAGCTTGGCCTCTTCAGTCATGAGCCCGCGTACTTCTAG
AGTCTTCCACTCGGGTTAAACCGAGCAAGGCTTGGTCTCATTACCAGGTCCAGAGGAGAGCGGCTGCCACACCA
CCACAACCTCATCCCTCGTGTCCCTGTGCTCCAGCCTGCGCCTCTTCTCCAGCATTGACGATGGTTCTGGCTTCG
CTTTTCTGATCAGGTCTTGCCATGTGGACCCAGGAGGGGATTGAGAAATGGCAGGGAGATCTTGAGAGCCTGG
ACTTCAGCGTGGACGAGAAGGTGAACCTTCTGGAGCTGACCTGGGCCCTTGACAACGAGCTCATGACAGTGGACA
GTGCCGTCCAGCAGGCAGCCCTGGCCTGCTACCACCAGGAGCTGAGCTACCAGCAAGGGCAGGTGGAGCAGCTGG
CAAGGGAGCGTGACAAGGCAAGGCAGGACCTGGAGAGGGCCGAGAAGAGGAACCTGGAGTTTGTGAAAGAGATGG
ACGACTGCCACTCCACCCTGGAGCAGCTCACGGAGAAGAAAATCAAGCATCTGGAGCAGGGGTACCGGGAAAGGC
TGAGCCTCTGCGGTCTGAGGTGGAGGCGGAGCGAGAGCTGTTCTGGGAGCAGGCCCCACAGGCAGAGGGCCGCGC
TGGAGTGGGACGTGGGGCGCTGCAGGCTGAGGAGGCTGGCCTCCGCGAGAAGCTGACCCTGGCCCTGAAGGAAA
ACAGTCGCCTACAGAAGGAGATTGTGGAAGTGGTGGAAAAGCTTTCCGATTCCGGAGAGGCTGGCCCTGAAGCTGC
AGAAGGACCTGGAGTTTGTGCTGAAGGACAAGCTGGAGCCACAGAGTGCAGAGCTCTCTGGCCCAGGAGGAGCGGT
TCGAGCAGTCTCTGAAGGAATACGAGCTCAAGTGCCGGGACCTGCAGGACCGCAACGATGAGCTGCAAGCTGAGC
TGGAAGGCCTGTGGGCGCGGCTGCCCAAGAACCGGCACAGCCCCCTCATGGAGCCCGGATGGGCGCAGACGGCAGC
TCCCTGGACTCGGCCCAGCAGGCATTTTATTCTGGGTAATTCTGCTCCAGTGAGTATAGAAACGGAGCTGATGA
TGGAGCAGGTAAAGGAGCATTACCAAGACCTCAGGACCCAGCTGGAGACCAAGGTAAATTACTACGAAAGGGAAA
TTGCGGCACTGAAAAGGAACCTTGAGAAGGAGAGGAAGGACATGGAGCAGGCTCGCAGGCGCGAGGTGAGCGTGC
TGGAGGGTCAGAAGGCCGACCTGGAGGAGCTCCACGAGAAGTCTCAGGAGGTCTCTGGGGCTGCAGGAGCAGC
TGCAGGACACAGCCCCGCGGCCCGGAGCCTGAGCAGATGGGCCTGGCACCCCTGCTGCAACCCAGGCACTGTGTGGCC
TGGCCCTGCGGCATCACAGCCACCTGCAGCAGATCAGGAGAGAGGCTGAGGCGGAGCTGAGTGGAGAGCTGTCTGG
GGCTGGGAGCCCTGCCGCTCGCAGAGACCTGACCTTGGAGCTGGAGGAGCCGCGCAGGGACCCCTGCCACGCG
GGAGCCAGAGGTGGAGCAGCTGGAGCTGGAGAGGGCACTGAAGCTGCAGCCCTGTGCGAGCGAGAAGCGCGCCC
AGATGTGCGTATCGTTGGCCCTCGAGGAGGAGGAGTTGGAGCTTGCCCGCGGGAAGCGAGTGGACGGGCCCTCCC
TGGAAGCAGAGATGCAGGCCCTGCCGAAAGATGGGCTGGTGGCAGGAAGTGCCAGGAGGGGCACACGTGGCCTCC
TACCACTGCGTCCGGGCTGTGGGGAGCGGCCACTGGCCTGGCTGGCCCCAGGTGATGGCAGAGAGTCTGAGGAGG
CGGCAGGAGCCGGGCCCTCGCCGCAGGCAAGCCCAGGACACAGAAGCTACGCAGAGCCCGGCCCGCCCTGCC
CGGCATCCCACGGCCCCCTCAGAGAGGTGGTCACGCATGCAGCCCTGTGGAGTGGATGGGGATATTGTCCCAAAGG
AGCCAGAGCCTTTCCGGCGCGAGCGCAGCGGGGCTGGAGCAGCCTGGAGCCCGGAGCTGCCTCTGCTGGGAACAG
AGAGAGAGCCTCGCAAACCCAGCCACGGATGTGGGAGCCACCCCTGAGGCCGGCGCTTCGTGCAGGGGACAGG
CTGAGAGGCTACAGGCCATTACGGAAGAGCGAGCAGCAGCTGGAGCAGGGGCACCCAGGAGCAGGCCTCGGAGC
AGCAGGCCCGGGCCGAGGGCGCCCTGGAGCCTGGGTGTACAAGCACAGTGTGGAGGTTGCCAGGAGAGGGTCTCT
TGCCATCCCACCTCCAGCTCGCAGACCCGAGGGTTCTGGCAGGAGCAGCTTGCTGCCCCAGAAGAGGGGGAGA
CCAAAATAGCGCTGGAGAGAGAGAAGGATGACATGGAAACCAACTTCTACATCTGGAAGACGTGCTCCGGGCTC
TGGAGAAACATGTAGATTTGAGAGAGAACGACAGACTGGAGTTCCATAGACTTTCTGAAGAAAACACTTTGTGTA
AAAACGATCTGGGAAGGGTTCCGCAAGAGCTTGAAGCTGCAGAAAGTACTACGATGCACAGAGGAAGGAAATTG
AGGTTTTTAAAGAAAGACAAGGAAAAGGCCCTGCTCTGAGATGGAGGTGCTCAACAGACAGAATCAGAACTACAAGG
ATCAATTATCCAGCTCAATGTGAGGGTTCTTCAACTGGGACAGGAGGCTTCTACCCACCAGGCCCCAAAACGAGG
AGCATCGTGTGACCATTGAGATGTTAACACAGAGCCTGGAGGAGGTGGTTCGCAGTGGGCAGCAGCAGAGTGACC

4535/5332
FIGURE 3954B

AAATCCAAAACTTAGAGTTGAACTTGAATGCCTGAATCAGGAACATCAGAGCCTGCAGCTGCCATGGTCAGAGC
TGACCCAGACCCTTGAGGAAAGTCAAGACCAGGTGCAGGGAGCTCACCTGAGGCTGAGGCAGGCCCAGGCCAGC
ACTTGAGGAGGTCCGGCTGGTGCCCCAGGACCGTGTGGCCGAGCTGCATCGCCTGCTCAGCCTTCAGGGAGAGC
AGGCCAGGAGGCGCCTGGATGCACAGCGGGAAGAACATGAGAAACAGCTGAAAGCCACAGAAGAGCGGGTGGAAG
AGGCGGAGATGATTCTGAAGAATATGGAAATGCTCCTCCAAGAGAAAGTGGATAAGCTGAAGGAGCAGTTTGAAA
AGAACACGAAGTCCGACCTGCTGCTGAAGGAGCTGTACGTGGAGAACGCCCACCTGGTGAGAGCACTTCAGGCCA
CCGAGGAGAAGCAGCGAGGCGCCGAGAAACAAAGCCGCCTCTTGGAAGAAAAAGTTCGCGCTCTCAACAACTCG
TCAGTAGGATTGCCCCCGCAGCCCTCTCTGTGTAAGACAGATTATTTCTAGGATTCATTCGAAAGCACATCTT
TTAAATTAAGCCACTGTGCTGCCTTAGATTCCGTGGGTCTATGAGCCATGAGTCCTGGGACATCTGAGGATTGGGA
TTCTTTGTTCACCCCGCAGATAGTTAATGAATGGTCTGCCCTGGGCAAGATGGAGGTGGGGGTGGGGGAATATG
CATGTTGCAGAAGCCGGCGTTTTTATTAGCGGTCTGAGTAATTTCCCTTGGCAAAATTCCCAGTTTGGCCACTC
TCTGGAGCCAGATCCTGGGAGCTGTCAGCAAGGAGCAGGTAAGTGAGCAGTTATGGACAGCACTTCCATGTGGT
GCTTCCGACCCTGGCTGTCAGAGTGAAATGTAAAGTCAGGGCTCTGTACAGTTTTGCCATTTCACTGTTCTGCTT
TAAGCTTAGCTTATTAGAACTCTTGGTGGAGGGTGCGTACACACATTCCAGAAAAGGCTTCACTCGCTGGGAACG
TCAACCCAGCGAGAAAGGAGGGGAAGCCCCCTTCTCCGGGGACCTTATCTGTGGACTCAGGAATGATGGTGTAT
TGCAAATGCACAATCTTTTTCCCATTTGAAATGTCATCACACTGGAAATTGTACTATATGT

4536/5332
FIGURE 3955A

CACACTCCCCATGCTATTAATTGTTAAAGGCTTTGGTGTGTGACAGTACTGAATAACTGCCAATGCCATCTGCC
TGTGGCCTTCTCAAGTTTGTCTGCACCTGTGGTTATCCTGACTTCAAACCCGGGAGACAGAGGCTAGAAGAGGC
AGACAGCTCTTGTGTATTCTGTCCAGTGCAAAGAACACCTGGAACCTCTGAGCCCTAACCTTAAATGCAAGACCTC
ATCTGCAGGTGTTCCCTCATCCTTTAGCCCCCTCAGTGATGTAAGCAACAAACGTCACCCAGCTCCTGGGGCACAC
TTCACCTCCCAGATGAGCTTGTCTGGATTGTCAGGGAGCCTGGCTCCCTAGACCTTTTGGCCAGATCCCCACAGG
GGAATTGTGCAGGTGCGCCCTCCCAGATCCCCAGTTGGTATTGGAATCACACCAACTGTACACATGGGGAGGG
CAGCTGCACCCAGCCACCTCTGACTTCTCTCCTCCACAGATTGGCCATCTGCAAGCTTCCCTTCTCCGTGGAG
AGCAGGAAGACAGTCAATGGGACCTCAGGGAGCCAGGAGACAGGCTTTCTTGGCATTGGGGATGTCACTGTGGAT
TTCACCCAGAAGGAATGGAGGCTGTGAGCCCTGCTCAGAGGGCCCTGTACAGGGAGGTGACACTGGAGAAGTAC
AGCCACCTGGTCTCACTAGGAATTCTCCATTCTAAACCAGAACTCATCAGGCGCTAGAGCAAGGGGAAGTGCCC
TGGGGAGAAGAGAGAAGACGCCGCCAGGCCCTGTGAGGAATATATGCAGAACATGTCTGCGGCCCAAGAAT
CTTGGACTTGCACATCAGAGGCAACAGCAACTACAATTTTCTGATCAAAGCTTCCAGAGTGACACAGCTGAAGGT
CAAGAGAAAAGAAAAAGCACTAAGCCCATGGCATTTCAGGCCACCCCTAAGACATGCAGTAAGCTCAAGGAGG
AGGAACAGTGTAGTGGAATAGAGTCTAGTCAAGGCCAGAGGGAAAATCCTACAGAAATAGACAAAGTATTGAAA
GGAATAGAAAATTCAAGATGGGGAGCATTCAAGTGTGCAGAGCGTGGGCAAGACTTCAGCCGGAAGATGATGGTA
ATCATACACAAAAAGCACATTCCAGGCAGAAACTTTTACATGCAGGGAGTGTACACAGGGCTTTAGAGATGAG
TCAGCATTGCTCTTGACCAGAACACACACACAGGAGAGAAGTCTATGTGTGCAGTGTGTGTGGGCGAGGCTTC
AGCCTCAAGGCCAACCTCCTCAGACACCAGAGGACACACTCAGGAGAGAAGCCTTTTCTGTGCAAGGTGTGTGGA
CGAGGCTATACCAGTAAGTCATACCTCACTGTGCATGAGAGAACACACACAGGAGAGAAGCCTTATGAATGCCAG
GAGTGTGGGCGAAGGTTTAAACGATAAGTCTCATACAACAAGCACTTGAAGGCGCATTTCAGGGGAGAAGCCTTTT
GTGTGCAAGGAGTGTGGGCGAGGCTATACTAATAAGTCATACTTCGTTGTGCACAAGAGAATACACTCAGGAGAG
AAGCCTTACAGATGCCAGGAGTGTGGCCGAGGCTTTAGCAATAAGTCACACCTTATCACACACCAGAGGACACAC
TCAGGGGAGAAGCCCTTTGCGTGCAGGCAGTGTAAAGCAAAGTTTTAGCGTGAAAGGAAGTCTCCTCAGACACCAG
AGAACACACTCAGGGGAGAAGCCTTTTGTGTGCAAGGATTGTGAGCGAAGCTTTAGCCAAAAGTCAACTCTTGTC
TACCACCAGAGAACACACTCAGGGGAGAAACCTTTTGTGTTGTAGAGAATGTGGGCAAGGATTTATTGAGAAGTCA
ACCCTTGTGAAACATCAGATCACACACTCAGAGGAGAAGCCTTTTGTGTGCAAGGACTGTGGACGAGGCTTTATC
CAAAAGTCAACCTTCACTTTACACCAGAGGACACACTCAGAGGAGAAGCCTTATGGATGTGGGAGTGTGGGCGA
AGGTTTCGGGATAAGTCTCTCTATAACAAGCACTGAGGGGACACTTGGGTGAGAAACGTTTTTTCTGCAGGGAT
TGTGGGCGAGGCTTTACCTTGAAGCCAAATCTCACCATACATCAGAGGACACACTCAGGAGAGAAGCCCTTCATG
TGCAAGCAGTGTGAGAAAAGTTTTAGTTTGAAGGCAAAATCTTCTTAGACATCAGTGGACACACTCGGGGGAAAGG
CCATTTAATTGCAAGGATTGCGGGCGAGGCTTCATCCTAAAATCAACTCTCCTCTTCCACCAGAAGACACACTCA
GGGGAGAAGCCTTTTCATCTGTAGTGAATGTGGGCAAGGATTTATCTGGAAGTCAAATCTTGTGAAACACCAGCTT
GCACATTCTGGCAAGCAGCCTTTTGTATGCAAGGAGTGTGGGCGAGGCTTCAACTGGAAGGGAAAATCTCCTCACA
CACCAGAGGACACACTCAGGGGAGAAGCCCTTCGTGTGTAATGTGTGTGGGCAAGGCTTCAGCTGGAAGAGAAGT
CTCACCAGACACCCTGGCGGATACACTCAAAGGAGAAGCCTTTTGTGTTGCCAGGAGTGTAAAGCGAGGCTATACC
AGTAAGTCAGACCTCACTGTGCATGAAAGAATACACACAGGAGAGAGGCTTATGAATGCCAAGAGTGTGGACGA
AAGTTTAGCAATAAGTCATACTACAGTAAGCACTTAAAGAGACACTTACGTGAGAAGCGTTTTTGTACAGGGAGT
GTGGGTGAGGCTTCATCTTGAAGTTATATCTCACCATCCATCAGAGGACACACTCAGGAGAGTAACCTTGCTTTG
TTACAAGCTTTAGTTGAGGCTGCATAACTTGTTCGTGAAGATATAACAGAGGCAGACAGAATCCAGAGGGCTACA
GAGAACCTGAATTCAACCCATGTGTCCCAAGAGATTGAGAGAAAAGAGGTCAATGTTTAGGGAACAGAGATGCC
AGTTGAGGGGAGGGCATTACCTGGGCTATTGGGGAAATGTGGTCTCTTTCTACTGAGCACATATCTTGTGTGTA
TTTGTGCCAGGCTGTGCTTTCTAAGGACTGCTCTTAGCCAGTGACTGCAGAGCAGGGATACCAAGGCAGGCCTGT
TACACTCTCCCCAACCTCCTTGGACTGCAACAATCTAGGACACCTCCACCAAACCTCCTCTTGCACTTTCCCTC
TGGCTTCCCTCCCAGCCTTCTTGGTTTGGATGTTTTGTCCCTCCTTAATTTATGTTGAACTCTACATAAACT
GTTTACTGTTGAAACAGTGTAAAGTATTAGGAGGTGGGACCTTTGGGAAGTGATTAAGTCAAGTCACGAAGATAGA
GCTTTGCGAATGGGATCAGGTGCCCTTATGAAAAGGCTTGATAGAGGGAGTTTGTCTGTGGCCCTTCTATTTTC
TGCTCTGTGAGGACACAATGCTCCTCCCTTCCAAAAGATGCAGCATGAAGGCATCATCTTGAAACAGACATGAG
CCCTCAACAGACAACCTGCACCTACTGATGTTTTGATGTTGAACTTCCCAGCCTCCAGAACTCTGGGAAAATAAAG

4537/5332
FIGURE 3955B

TCCTCTTTATAC

4538/5332
FIGURE 3956

GCTTCAGGGTACAGCTCCCCCGCAGCCAGAAGCCGGGCCTGCAGCGCCTCAGCACCGCTCCGGGACACCCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGCAACAAGTGAAGTACTGAGACCTAGAAATCCAAGCGTTGGAGGTCCTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAACGAAGGCGTTTGTGGGGTTCCATTGAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGCAGGCCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGTGATGAAGGGACAACATCTTCACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGGCCAGGAGGTTGCCCCAGGAGGTGGAACTTCAAGTGTCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCTCAAGGAAGGTGCTGTGATGAATTGTTCTCCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGA
TATCAAGATGATCTTGAAAAATGGTGCAGCTGGACTCTATTGAAGATTTGGAAGTGAAGTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCTACATTTCCCCGGAGAAGGAAGAGCAGTATATCGCCAGTTACCTCTCAGTTCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTTCCTTAGAGGCCCGCCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCCTTGAAACCCCTCTCAATAACTAAGTCCGGCTTTTCGGAAGGGGATGTGATGCATCTGTCCCAGAGTCCCAG
CGTCAGTCAGCTAAGTGTCTGAGTCTAAGTGGGGTCAAGTGTGACCGATGTAAGTCCCGAGCCCTCCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGACAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCTGTTTCATGCCTAACTAGCTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTCAAGTGT
GAGTGAGGAAAACATGTTCAAGTGAGGAAAAAACATTGAGACAAATGTTCAAGTGAGGAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAATAAAGAGAAGCAATGTGAAGCA

4539/5332
FIGURE 3957

TCTTCTGAGCTGACTCAGGACCCTGCTGTGTCTGTGGCCTTGGGACAGACAGTCAGGATCACATGCCAAGGAGAC
AGCCTCAGAAGCTATTATGCAAGCTGGTACCAGCAGAAGCCAGGACAGGCCCTGTACTTGTCATCTATGGTAAA
AACAACCGGCCCTCAGGGATCCCAGACCGATTCTCTGGCTCCAGCTCAGGAAACACAGCTTCCTTGACCATCACT
GGGGCTCAGGCGGAAGATGAGGCTGACTATTACTGTAACTCCCGGGACAGCAGTGGTAAACCATCT

4540/5332
FIGURE 3958

CAGCCCAAGGCCAACCCCACTGTCACCTCTGTTCCCGCCCTCCTCTGAGGAGCTCCAAGCCAACAAGGCCACACTA
GTGTGTCTGATCAGTGACTTCTACCCGGGAGCTGTGACAGTGGCCTGGAAGGCAGATGGCAGCCCCGTCAAGGCG
GGAGTGGAGACCACCAAACCCTCCAAACAGAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCC
GAGCAGTGGAAGTCCACAGAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTGGCC
CCTACAGAATGTTCATAG

4541/5332
FIGURE 3959

CAGCCCAAGGCTGCCCCCTCGGTCACTCTGTTCCTCGCCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTG
GTGTGTCTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTGGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCG
GGAGTGGAGACCACCACACCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTATCTGAGCCTGACGCCT
GAGCAGTGGAGTCCACAGAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTGGCC
CCTACAGAATGTTCATAG

4542/5332
FIGURE 3960

CAGCCCAAGGCTGCCCCCTCGGTCACTCTGTTCCCGCCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTG
GTGTGICTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTGGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCG
GGAGTGGAGACCACCACACCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCT
GAGCAGTGAAGTCCCACAGAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTGGCC
CCTACAGAATGTTCATAG

4543/5332
FIGURE 3961

CAGCCCAAGGCTGCCCCCTCGGTCACCTCTGTTCCCACCCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTG
GTGTGTCTCGTAAGTGACTTCTACCCGGGAGCCGTGACAGTGGCCTGGAAGGCAGATGCAGCCCCGTCAAGGTG
GGAGTGGAGACCACCAAACCCTCCAAACAAAGCAACAACAAGTATGCGGCCAGCAGCTACCTGAGCCTGACGCCC
GAGCAGTGGAAGTCCACAGAAGCTACAGCTGCCGGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTGGCC
CCTGCAGAAATGCTCTTAG

4544/5332
FIGURE 3962A

GAGTGC GGGCCGGGCGGGAGTGC GGCAGAGCCGGCTGGCTGAGCTTAGCGTCCGAGGAGGCGGCGGGCGGCG
GCGGCACGGCGCGCGGGGCTGTGGGGCGGTGCGGAAGCGAGAGGCGAGGAGCGCGGGCCGTGGCCAGAGTC
TGGCGGCGGCTGGCGGAGCGGAGAGCAGCGCCCGCGCCTCGCCGTGCGGAGGAGCCCCGCACACAATAGCGGCG
CGCGCAGCCCGCGCCCTTCCCCCGGCGCGCCCGCCCCGCGCGCCGAGCGCCCCGCTCCGCCTCACCTGCCACC
AGGGAGTGGGCGGGCATTGTTCGCGCGCGCGCGCGCGCGGGCCATGGGGGCGCGCCGGCGCCCGGGGCCGG
CTGGCGAGGCGCGCGCGCGCTGAGACGGGCCCCGCGCGCAGCCCCGGCGGCGCAGGTAAGGCCGGCGCGCC
TGGTGGACCCGGTGGGCTTCGCGGAGGCGTGGAAGGCGCAGTTCCCGGACTCAGAGCCCCCGCGCATGGAGCTGC
GCTCAGTGGGCGACATCGAGCAGGAGCTGGAGCGCTGCAAGGCCTCCATTGGCGCCTGGAGCAGGAGGTGAACC
AGGAGCGCTTCCGCATGATCTACCTGCAGACGTTGCTGGCCAAAGGAAAAGAAGAGCTATGACGGGCAGCGATGGG
GCTTCCGGCGCGCGGCGCAGGCCCGGACGGCGCCTCCGAGCCCCGAGCGTCCGCGTCGCGCCCGCAGCCAGCGC
CCGCGCAGCGAGCCGACCCGCGCGCCCGGAGGAGCCCGAGGCCCGCGCGACGGCGAGGGTTCTCCGGGTAAGG
CCAGGCCCGGGACCGCCGAGGCCCGGGGCGAGCCGCTCGGGGGAACGGGACGACCGGGGACCCCCGCCAGCG
TGGCGGCGCTCAGGTCCAATTGAGCGGATCCGCAAGGGCCATGGCCAGCCCCGGGGCGGACGCCGAGAAGCCCT
TCTACGTGAACGTCGAGTTTACCACGAGCGCGGCTGGTGAAGGTCAACGACAAAGAGGTGTGCGACCGCATCA
GCTCCCTGGGCAGCCAGGCCATGCAGATGGAGCGCAAAAGTCCAGCACGGCGCGGGCTCGAGCGTGGGGGATG
CATCCAGGCCCCCTTACCGGGGACGCTCCTCGGAGAGCAGCTGCGGCGTCGACGGCGACTACGAGGACGCCGAGT
TGAACCCCGCTTCTGAAAGGACAACCTGATCGACGCCAATGGCGGTAGCAGGCCCCCTTGGCCGCCCTGGAGT
ACCAGCCCTACAGAGCATCTACGTGCGGGGCGATGATGGAAGGGGAGGGCAAGGGCCCGCTCCTGCGCAGCCAGA
GCACCTCTGAGCAGGAGAAGCGCCTTACCTGGCCCCGCGAGGTCTACTCCCCCGGAGTTTTGAGGATTGCGGAG
GCGGCTATACCCCGGACTGCAGCTCCAATGAGAACCTCACCTCCAGCGAGGAGGACTTCTCCTCTGGCCAGTCCA
GCCGCGTGTCCCAAGCCCCACCACCTACCGCATGTTCCGGGACAAAAGCCGCTCTCCCTCGCAGAACTCGCAAC
AGTCTTCGACAGCAGCAGTCCCCCACGCCGAGTGCCATAAGCGGCACCGGCACTGCCCGGTTGTCTGTTCG
AGGCCACCATCGTGGGCGTCCGCAAGACCGGGCAGATCTGGCCCAACGATGGCGAGGGCGCCTTCCATGGAGACG
CAGATGGCTCGTTGGAACACCACCTGGATACGGCTGCGCTGCAGACCGGGCAGAGGAGCAGCGCCGGCACCAAG
ATGGGCTGCCCTACATTGATGACTCGCCCTCCTCATCGCCCCACCTCAGCAGCAAGGGCAGGGGCGAGCCGGGATG
CGCTGGTCTCGGGAGCCCTGGAGTCCACTAAAGCGAGTGAGCTGGACTTGGAAAAGGGCTTGGAGATGAGAAAAT
GGGTCTGTGCGGAATCTGGCTAGCGAGGAGACTTACCTGAGCCACCTGGAGGCACTGCTGCTGCCCATGAAGC
CTTTGAAAGCCGCTGCCACCACCTCTCAGCCGGTGTGACGAGTCAGCAGATCGAGACCATCTTCTTCAAAGTGC
CTGAGCTCTACGAGATCCACAAGGAGTTCTATGATGGGCTCTTCCCCGCGTGACGAGTGGAGCCACGAGCAGC
GGGTGGGCGACCTCTTCCAGAAGCTGGCCAGCCAGCTGGGTGTGTACCGGGCCTTCTGTGACAACTACGGAGTTG
CCATGGAAATGGCTGAGAAGTGTGTGAGGCCAATGCTCAGTTTGCAGAAATCTCCGAGAACCTGAGAGCCAGAA
GCAACAAAGATGCCAAGGATCCAACGACCAAGAACTCTGTGAAACTCTGCTCTACAAGCCTGTGGACCGTGTGA
CGAGGAGCAGCTGGTCTTCCATGACTTGCTGAAGCACACTCTGCGAGCCACCTGACCACCCCTTGCTGCAGG
ACGCCCTCCGCATCTCACAGAACTTCTGTCCAGCATCAATGAGGAGATCACACCCCGACGGCAGTCCATGACGG
TGAAGAAGGGAGAGCACCGGCAGCTGCTGAAGGACAGCTTCATGGTGGAGCTGGTGGAGGGGGCCGCAAGCTGC
GCCACGTCTTCTGTTCACCGACCTGCTTCTGACCAAGCTCAAGAAGCAGAGCGGAGGCAAAACGACGAGT
ATGACTGCAATGGTACATTCCGCTCACGGATCTCAGCTTCCAGATGGTGGATGAACTGGAGGCGAGTCCCCAACA
TCCCCCTGGTGCCCGATGAGGAGCTGGACGCTTTGAAGATCAAGATCTCCAGATCAAGAGTGACATCCAGAGAG
AGAAGAGGGCGAACAAGGGCAGCAAGGCTACGGAGAGGCTGAAGAAGAAGCTGTGCGGAGCAGGAGTCACTGCTGC
TGCTTATGTCTCCAGCATGGCCTTACGGGTGCACAGCCGCAACGGCAAGAGTTACACGTTCTGTATCTCTCTG
ACTATGACGCTGCAGAGTGGAGGGAGAATCCGGGAGCAGCAGAAAGAGTGTTCAGAAGCTTCTCCCTGACAT
CCGTGGAGCTGCAGATGCTGACCAACTCGTGTGTGAACTCCAGACTGTCCACAGCATTCGCTGACCATCAATA
AGGAAGATGATGAGTCTCCGGGGCTCTATGGGTTTCTGAATGTATCGTCCACTCAGCCACTGGATTAAAGCAGA
GTTCAAATCTGTACTGCACCCTGGAGGTGGATTCTTTGGGTATTTTGTGAATAAAGCAAAGACGCGCTCTACA
GGGACACAGCTGAGCCAACTGGAACGAGGAATTTGAGATAGAGCTGGAGGGCTCCAGACCCCTGAGGATACTGT
GCTATGAAAAGTGTTACAACAAGACGAAGATCCCCAAGGAGGACGGCGAGAGCACGGACAGACTCATGGGAAGG
GCCAGGTCCAGCTGGACCCGAGGCCCTGCAGGACAGAGACTGGCAGCGCACCGTCATCGCCATGAATGGGATCG
AAGTAAAGCTCTCGGTCAAGTTCAACAGCAGGGAGTTCAGCTTGAAGAGGATGCCGTCCCGAAAACAGACAGGGG

4545/5332

FIGURE 3962B

TCTTCGGAGTCAAGATTGCTGTGGTCACCAAGAGAGAGAGGTCCAAGGTGCCCTACATCGTGCGCCAGTGCGTGG
AGGAGATCGAGCGCCGAGGCATGGAGGAGGTGGGCATCTACCGCGTGTCCGGTGTGGCCACGGACATCCAGGCAC
TGAAGGCAGCCTTCGACGTCAATAACAAGGACGTGTGGTGATGATGAGCGAGATGGACGTGAACGCCATCGCAG
GCACGCTGAAGCTGTACTTCCGTGAGCTGCCCCGAGCCCCCTCTTCACTGACGAGTTCTACCCCAACTTCGCAGAGG
GCATCGCTCTTTTCAGACCCGGTTGCAAAGGAGAGCTGCATGCTCAACCTGCTGCTGTCCCTGCCGGAGGCCAACC
TGCTCACCTTCCTTTTCCTTCTGGACCACCTGAAAAGGGTGGCAGAGAAGGAGGCAGTCAATAAGATGTCCCTGC
ACAACCTCGCCACGGTCTTTGGCCCCACGCTGCTCCGGCCCTCCGAGAAGGAGAGCAAGCTCCCTGCCAACCCCA
GCCAGCCTATCACCATGACTGACAGCTGGTCCTTGGAGGTCATGTCCCAGGTCCAGGTGCTGCTGTACTTCCTGC
AGCTGGAGGCCATCCCTGCCCCGGACAGCAAGAGACAGAGCATCCTGTTCTCCACCGAAGTCTAAAGGTCCCAGT
CCATCTCCTGGAGGCAGACAGATGGCCTGGAACCTCTGGCTAATCAGGCCATCCGTAGAGCGGGAACTTCCTG
AGGTGTCTTGGGCCACCCCCAAGTGTGGGCCATCTGCCAAGAGACAGCGACCCAAAGCCGAAGGACAGGTGGC
CTGGGCAGATCCCGCCCAGGTCTGGGAGCCCCAGGCTGGCCTCAGACTGTGGTTTTTTATGTGGCCACCCGAGGG
CGCCCCAAGCCAGTTCATCTCAGAGTCCAGGCCTGACCCTGGGAGACAGGGTGAAGGGAGTGATTTTTATGAACT
TAACCTAGAGTCTAAAAGATTTCTACTGGATCACTTGTCAAGAAGCGCCCTCTCTGGGGAGAAGGGAACGTGACT
GGATTCCTCACTGTTGTATCTTGAATAAACGCTGCTGCTTCATCCTG

4546/5332
FIGURE 3963

AGGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGCGCGGGACGCATAGAGCTGCGGCTCGGGCGGGCG
CTCCCTGCGGCGGGCCCGCCCGGCTCCGGCCCCCGCTGGGGCAATGCTCCCCGGGGCCGCGGGATGAGCCAGCGA
TCCTGAACTGTGTTCCCTGCCACAGTGACTCGGCCGGTCCGGGCATGGCAGACCCAGTGGCGGGCATCGCGGGCT
CGGCGGCCAAGAGCGTGCGGCCATTTGCTCCAGTGAGGCCTACGTGGAGGCCATGAAGGAGGACCTGGCCGAGT
GGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGGTGGTGGCGATGGCTTCCTGACAGGGCTGGCCACGGGCACGA
CCCTGTGCCAACATGCCAACGCCGTGACCGAGGCTGCCCGTGCAATTGGCAGCCGCCCGCCCGGCCGAGGTGTGG
CCTTCCAGGCGCACAGTGTAGTGCTGGCTCCTTCATGGCGCGCGACAACGTGGCCACCTTCATCGGCTGGTGCC
GCGTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGGACCTGGTGCTGCGCAAGAACGAGAAGAGCG
TGGTGCTGTGCTGTGGAGGTGGCGCGCGTGGGGCACGCCCTGGGCCTGCTGGCCCCACGCCCTCGTGCACTTTG
AGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCAACGCCCTGCCGCTGGGGAGGACACCACTG
AAACCGCCCCCGCACCAGGGACTCCTGCCCGCGGGCCCCCGCATGACACCCAGCGACCTGCGCAACCTCGACGAGC
TGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTCCCATGATCAAGGTCTCAGAGGGGAAGTACC
GTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGCTGAGGAGCCACGTGATGGTGCGAGTGGGTGGTGGCT
GGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCTGCTCCTCCACTGCTCATCGCCACCCACAGC
CGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCGCCACCACCAGTCCCCGCCCTGCTAGCCCAGTCCCTGGGA
GTGAGCGCCGGGGCTCCCGGCTGAGATGACTCCCGTTAGCTTACGAAGCACAAAGGAGGGGGCCCGAGACCCAC
CCAGGCCCCGGGATCAGTGCCCCCCCCATCCCCGCTCCCGCCGCTACTCCGGGGACAGTGACTCCTCAGCCTCCT
CCGCCCAGAGCGGGCCCCCTTGGTACCCGCACTGATGACACAGGCACTGGCCCCCGGAGGGAGCGACCCAGCCGGC
GGCTGACCACAGGCACCCCGGCTCTCCGAGACGGCCTCCTGCCTGCGCAGCCAGTCCCGAGACCGGCTGGATCG
CGGCCGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCCAGCTGTGCGTCCCCAGCCCTGCCCGGGCGGGCCCCGAG
CCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATCGAGACGGGCAGCACTCATGGGTGCCAAGGGG
CAGGGGCAGTGGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCCGTGCCCGCAGCCCTGCAGCACCCCGGCTTTC
CCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCAGCATCTTCCGCACACCCCTGCAGTCTGACCC
GCAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCTGGCCAATGCCCGGGCCCTTGAGGCTGTTGC
TAGCGTGAACCCCACTGGACCAGCCCCCTGACCCAGCTCGGGCCCCCGACCCCTCCAGCTCCTGACTCTGCCTATTG
TTCCTCCAGTTCTCTCTCTTCGTCCCTCAGCGTCTTGGGTGGCAAATGTGGCCAACCTGGGGACTCTGGCCGGAC
GGCCAATGGGCTGCCTGGGGCCCCGAAGCCAAGCCCTTTCCAGTCTCTCCGATGAAGGCAGCCCCCTGCCCTGGCAT
GGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTGAACCTCGAGGACCTGGGCACGGGGTCGGAT
GGACACACAGCCAGACCGTAAACCCTCAGTATCCCCACGCCCTCGGGGGCCCCCGCCGCCCTCCGGACCCGAGA
GCTGGGGACATGGCATGCCCTGCACTCAGTCACCCCGAGGGCTGAGCCAGATTCTGGATGTGATGGACCAGCTC
AGCTGTCCCCAGACCCCATCCCTTCTCCTTTTCTTTGTGGCCTTAACCCTTCTGCATCAGGGAGCCCCCTCTGC
CTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCACATGGCACAATGGGACCTCTGTTGTACATTCC
GGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAATGCCTTAGAGGAGCCGGGCGAGCCCGGTG
TCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTGGCTCCAGC

4547/5332
FIGURE 3964A

ACCACTTGAAGAGAGGTTTCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACCTTAAATGTGTAGTTCCAGTCCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTCCGGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGCGCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGGAGCTGTGAGGAGGAACAACCATGTCATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCTCACCAGCAAACACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTTCGACCAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCTCC
CCTCTATGTCTCTTTGTTTCAGGCCACTGCGTATGGGCAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGGAGACCCACACTGGGGGTTTCAGTTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTGACCTGAAGTGCAAAGATGACAGTGTGCTTCACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAAGTGCATGGAGCTGATCAACCCCATCAGTGCAGG
TGACTTGCTGTCTCTGACTCAGTCTGAGTTGCTTGTATCTTGGGGATCATGAAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCTATTT
GTGGGTGCAGAAGCTGGGTGGCTCCACTTCCCCAAAGAGCAGCCCCAGCAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAGACCAGGGTGCAGTCCCGCTGGCCCTCCACAAACA
GTTTGCATCCCTAGAACATGGCATTGTGCCAGTTACCAGTGATTGCCAGTACCTCTTCCCTGCCAAGGTTGTCTC
TCGCCTGGTGAAATGGGTGACAGTTGCCATGAGGATTACATGGAGCTGCACCTCACCAAAGACATTGTGGATGC
GGGACTGGCTGGGGACACCAATCTTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTGAACCTGGCTACTCCTCCATCCCACCTGTTTTCCAGCTCTGTTTGAACCTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTCCGGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCCAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCTGAGCACTGGGCTTCTGCTTTCTGCTCTGGCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGAGCGTCACCTGACCACTGGCCTTTGTCTGTGGTTCTTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAGAAAGATTCCAATTCGACAGAGAGATGCTCACCTCTTGTCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCTCATGATCTTGTATTTATTATCCCAAGTTCTGTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAACTCTTCCCTCCCCACCCGCTCTTCCATTAGTCTCTGAGGGTGGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAAACAGAAGACAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAAACTTAATAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTCAGTATATATTTTGTATCTTATACACTGTATTCTTACAATAACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTGAGGATTTGAGACCAGCCTGGCCGACATGGTGAAACCTGTCTCTACTAAAAA
CATGGAAATTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAAATAATAAATAAGAAAGCCATAAGGAAGAAAATATATATCTACTATTAAGTAGAAGTGGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

4548/5332
FIGURE 3964B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCTCAAAATATAATTATTTGATTAA
GAGAAGTCTTGGGAAGATAGGTAACAACCTTTAAATGTTCAAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGTATCTTGACCCACCATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGC GCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

4549/5332
FIGURE 3965

CCACGCTCCCATTTTACCGAGGTGGATCCTGAGGCCAGAGTGGGCAAAGGGCTTGCCAAGGTGCGAGAGCGCGC
AGAGGATTAGAACCCTGACTTCCGTCCAGCACCTGCGGAGTTGGAGACGCCCACAGGAAACGCCCACCTGACCGG
GTGAGTGAGGGGGCGGGCGAGCCGGAGGGGTGGAGTTTATTTCGCGCCCCGCTCCGCCACCAGGGCTTGGGGGCG
GGGCCTTCCTGCAACCTTTGCGGCTCCAACATGGCTCCGCGGCTGTGCAGCATCTCTGTGACGGCGCGGCGGCTG
CTGGGGGGCCCCGGGGCCTCGCGCTGGGGACGTTGCGTCTGCAGCTGCGGCGCGTTTCTATTCCAAGGACAATGAA
GGCAGCTGGTTCGCTCCCTCTTTGTTTACAAAGTGGATCCCCGGAAGGATGCCCACTCCACCCTGCTGTCCAAG
AAGGAAACCAGCAACCTCTATAAGATCCAGTTTACAAATGTAAAGCCTGAATACCTGGATGCCTACAACAGCCTC
ACGGAGGCTGTGCTGCCCAAGCTTCACCTGGATGAGGACTACCCATGCTCACTCGTGGGCAACTGGAACAGCTGG
TATGGGGAGCAGGACCAGGCAGTGACCTGTGGCGATTCTCAGGTGGCTACCCAGCCCTCATGGACTGCATGAAC
AAGCTCAAAAACAATAAGGAGTACCTGGAGTTCCGAAGGGAGCGGAGCCAGATGCTGCTGTCCAGGAGAAACCAG
CTGCTCCTCGAGTTCAGCTTCTGGAATGAGCCACAGCCAGAATGGGTCCCAACATCTATGAGCTGAGGACATAC
AAGCTCAAGCCAGGAACCATGATCGAGTGGGGGAACAACCTGGGCTCGGGCCATCAAGTACCGGCAGGAGAACCAG
GAGGCAGTGGGCGGCTTCTTCTACAGATAGGAGAGCTCTACGTGGTGCACCATCTCTGGGCCTATAAAGACCTG
CAGTCTCGGGAGGAGACTCGAAACGCTGCCTGGAGGAAGAGAGGCTGGGATGAAAATGTCTACTATACAGTCCCC
CTGGTGCACACATGGAGTCTAGGATCATGATCCCCTTGAAGATCTCGCCTCTGCAGTGAATGCTGCCTACACCTC
CACCTCCTTCCCTTCTCCCTCAGGCAACCCCGACAGACAGTGGCACTCCTGGTCCTGCTGTCTTGGTTTTGTCT
TGGCTCTGGGAGGACTCTGAGGGGCAGTGCTCAGTTCAGACAAGGGGGAACGAAGGCTGACAAGTTCTGAGGAT
TACAGCTCTGCCCAGGCCCTTTCTACTTTCCCTGCCTGCCTCCCTCCCCCTGCTAGAAGTAGTTTCTGATTTCCC
TGAATGAAAGATAGTGATCTTTTAGGCCCTTCATTTATCTTCTAAATTCCTCATCTCAAGGCCACCAGTCCCCAG
TTATCACCCCTTGGAATCCTCTGTTTAGCTTAGTTGCACAAAAGGTAGTATGTCCAGTGGCTAGAGGTGGGGTGG
GAAGAGAGGAGGCCAGGCCAGGCCCTCAGGAATTCCCTGGTTTCCACTGGGCCACCCACTTGCTGGACAGTCTGA
GCCAAGTCCCTCCTGCTGGAGAAAAGCCTGGAATGCCAAAACAAAAAACAATAACAAACAAACCTCGTCACCA
CGGTACAGGAGGAGGTTTACAGACATTCTGCCCAGAGGGGCTGGGGAAAGGGATGGGAGCCAGGAAAGATTTAGGGC
AGGAGACAGACACGTAACAGGAACTCGGAAGGTAGAACTTAGAATTAGAACTTGGGTTTCAATTGTAGAATTTG
GAATCTGGAATACAGAATTGGGAAGAAGAACAGAGATGACAAAAGACCACTTGAAGAGAGGTTCCTAATACTAGA
CAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTGAAAACCTAAATGTGTAGTTCCAGTCTTCT
ATGCAGAGTCTCTCTGCCCTCCCTCCTTCTGTCAGGCAAATATACAAGCTAGACCCTGTTCCCTCACCTGTAT
CCTGTCTCCCCTAATTGACATTCTATCAGCCCAACCCTCATTCTGCAGGGCCACCTGGTGTGTGGAGGTGGCGGG
AGGGGTCACTGACTCTGGGGGTCTCCTCAGTGACCCCCATACCTCATCATGAACCCTTGGGTAGCTTGATTCTGC
CTACCATCCAGGAAAACCTTGTGCTGGAATTGCTGATGGAAACAATTAAATATTTACTAT

4550/5332
FIGURE 3966

GCAGCCGTCAGGGCCCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCTCGCGGCCCATGCTGGCCGCTGGG
GACCCGCGCAGCCCAGACCGTTCCCGGGCCGGGCAGCCGGCCACCATGGTGGCCCTGAGGCCTGTGCAGCAACTC
CAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCGAGGGTCCCGGGCCTGAGCCCCGCGCCATGCCGG
GGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCGTGAGGATCGTCAC
CATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGAAGGACCTCTTTGATTTGGTGTGCCGGAC
TCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATGGA
CAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTCACTTCTTGCCAAATTTATCCTGA
GAATGCTGAAGAGGAGCTGGTTCAAGGAGATCACACAACATTTATTCTTCTTACAGGTAAGAAGCAGATTTTAGA
TGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGA
CGACCCAGTGTTCACAAGCGGGGATTTTGGCCCAAGAGGAATTGCTTCAAAAAGGGTAATAAATCTGTATCA
GATGACTCCGGAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAAGC
TGAAATGGAATATCTGAAGATAGCTCAGGACTGGAGATGTACGGTGTGAACCTACTTTGCAATCCGGAATAAAAA
GGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTTCACATTTATGACCCTGAGAACAGACTGACCCCAA
GATCTCCTTCCCGTGGAATGAAATCCGAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGATAA
GAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGGAA
CCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCAGGCCAGGGAGGA
GAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACGAG
GGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCTGA
GGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCGAGGAGGAGGCAAACTTCTGGCCCAGAAGGCCGC
AGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAGCA
GAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGATCA
GCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACCAA
GCCACGTACCCGCCCATGAACCCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGTGA
CAGCCTGTCTTTGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGAATA
CATGGAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAACTGAAAGA
GAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATTAA
AAAGCTCACCTTGAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTCTAGCAGGTGACCCAGCCACCCCA
GGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTGGC
TGGGGGTTTCCGTGGGAGCTCCAGAACTTCCCCAGCTGAGTGAAGAGCCAGCCCTCTTATGTGCAATTGCCT
TGAACACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTAAAGAGTATT
TGCTCT

4551/5332
FIGURE 3967

GGAGCCCGGAGCTGCAGCCACCGGGGAGCCAGGTACCTTCCGCGAGACGTCGAGGGGCGAGTCCTAGTCTCTTTT
CTCCGCACTGGAAGACTTGAACACTTCCTTCTCTGGTCTCTGTCACCCAGGCTGGAGTGTAGTGGCGCAATCTCA
GCTGGCTGGAGCCTTGACCTCCTTGGGCTCAAGCTATCCTCCACCTCAGCCTCTCAAATAGCTGGGACTACAGG
CAGCAAAGCACCTGCTCTGAGTGGCCATGGGGAAGCGATACTTCTGTGACTACTGCGACCGCTCCTTCCAGGACA
ACCTCCACAACCGCAAGAAGCACCTGAACGGGCTGCAGCACCTCAAGGCCAAGAAGGTCTGGTACGACATGTTCC
GAGATGCAGCTGCCATCTTGCTGGATGAGCAGAACAAGCGGCCCTGCAGGAAGTTTCTACTGACAGGCCAGTGCG
ACTTTGGCTCCAACCTGCAGATTTTCCACATGTCAGAGCGAGACCTGCAGGAGCTGAGCATCCAGGTGGAGGAGG
AGAGGCGAGCCAGGGAGTGGCTACTAGATGCTCCTGAGCTCCCCGAGGGCCATCTGGAGGACTGGCTGGAGAAGA
GAGCCAAGCGGCTGAGCTCAGCCCCAAGTAGCAGGGCTGAACCCATCAGAACCACTGTCTTCCAGTACCCCGTGG
GCTGGCCACCAAGTTCAGGAGCTGCCTCCATCCCTGCGGGCACCCCACTGGGGGGTGGCCTCTGCAGCCAGAG
TCCAGTGGGGCTGAGCCCCCTTGCCCCCGACTGACCCCACTGGTCACTTTTCTCATCAGTCACAATAGGAAGCC
AAGCCCGGTTCCCTGCTACGCCCCATGGAGGCTCCGAGACCATCTGCCAGCCTCACTGAGGCTCAGGACACGGCC
ACACCAAGTGCAGCCCTCGTCCCTGGGTCTGCACCGGGCAGCTCTCCCTCACTCTCCTCCACCTGCCCCCTGCT
TCTTAAGAAGATGGGGGAGAAAACCTCCAAATGTTTATAAAGAAAGTCTGTCACCA

4552/5332

FIGURE 3968

CTGTGAAGAAACATGGCGGCCGCGACGTTGACTTCGAAATTGTACTCCCTGCTGTTCCGCAGGACCTCCACCTTC
GCCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCCTTCGATCAAGGCGCGGACGCTATCTACGACCAC
ATCAACGAGGGGAAGCTGTGGAAACACATCAAGCACAAGTATGAGACAAGTAGTTTCCTTGGAGGCCCCCATCCA
GGCCAGAAGGACCAGGTCCACCCAGCAGCTGTTTGCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAGGT
ACTCTTCATGGACCACCATTTCGCTGTTGGCAAGAAACGGCTTTACTTACAAAACAGACTCTTTACCTTCTGCTGT
GTTTGAAGTATGTTTAGTCAGCATGCTCAGGAAATAAATGTGAATTGCCCTTG

4553/5332
FIGURE 3969

CCGGAAGTGC GGGCGCTCAGGGAGCTGTACCGTGGTCGGCGGGCGGGCGGGCGGGCGGGCACAGAGCCGGTGG
TGGAGCCGCCGAGGAGGGTCACGCAGCACAAATGCCAGCTCTGCCCTGGACCAACTCCAGATCACCACAAGGAC
CCGAAGACAGGAAAGCTGAGGACTTACCAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTTGTGTATAC
AAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTAGCCAATGAC
CTCGACTGGCTCCTGGCCTTGCTCAGGATAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTACAGAAGTGC
CTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCTGAGGTTGTTGACATG
CAGAAGCGCCTCCATCGAAGTGTTTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAAAGATCACATTC
ATTTCCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTGGACCTCTGC
GTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAGCCAAGTTAC
TACAGTGACCTGGATGAAACCTGCTTACCCTCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGTGGTTTGCAA
GGGGACGGGGCCAATACCACACCCCGAAGCTTGAGGAGAGGGGCGGATTGACCCCACTGACATGCCTCTCCTG
GAATTAAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCTTTCTGGATATCTTCCCTTG
GCTTGCCAGACCTTCCAGAAGCAGCACTTTTGTTACAGACTAGCTTCCTTCTACGAAGCAGCAATTCCCGAAATG
GAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTCTCCCATTC
AGGAAGAAGCTAATGGAGATTTTCCACATCATCTGAACCAGATCTGCCTCCTTCCCATCCTAGAAAGCAGCTGT
GACAACATTGAGGGCTTCATCGAAGAGTTCTTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGGTTCTCCCG
GACTATGATGCACTCTTCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCTCATCAGTCTTGGACGAGACG
CGGACTGCCTACATCTCCAGGCGAGTCGAGAGTGCATGGGAAGGGGTGGACAGACGGAAGCCACAGATGCTAAA
GACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTACGGTGACAGCAGAGGCAGTCAGTCAAGCA
TCATCACATCCGGAGAACTCGGAGGAAGAGGAGTGCATGGGAGCAGCCGCGGCTGTGGGCCCTGCCATGTGTGGG
GTGGAAGTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATCCTGGCCTGC
CTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCCACCCTCAGC
CAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCTACACCCTGCTGACGTCTCGCCACAACGTCTTC
CAGAATGACGAGTTTGATGTGTTTACGAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAGAGCACCAGG
AAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGAGTGGCGGCACAGCGGCAGCGCTACGAGCAGTAC
AGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTACGAGGATGAG
TACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATCAGCCGAGG
CCATTACCATCCCTCAGGTGCTGAGAACCAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGACGATGAGGAA
GACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACCCTGCAGTGCTGAGAGAGAAGGCAGAA
GCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGCAGCCCCGA
GGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGAGCCAACCAC
AACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCTCTGAGACCTGGTGCAGGGCCAGTGG
GGAGGCAGCGGCACCAGACTACCAAGCCGCGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGCCCCAAGTTCAA
CTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCTGAGAAGGCGCCTCTCATCTACCAGCCAGCCATGAGCGCC
TTCTGTCAGAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACCTTCCCCCAG
CTGCGCTAGCGGAAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCCAAACCTCGGGCCACAAGACACCACTT
CCCCCTTACCCTGGACAGCAGGAACCTGTATATTCAAAAACACAAAAGTCCTGCTAATAAAATTTTGGACCTT
TTC

4554/5332
FIGURE 3970

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACATGTAG

4555/5332
FIGURE 3971A

ATGAACCTCTGAAAACCTGCCGGCATCTGAGGTTTCTCTCCAAGGCCCTCTGAAGTGCAGCCCATAATGAAGGTCTT
GGCGGCAGGAGTTGTGCCCCCTGCTGTTGGTTCTGCACTGGAACATGGGGCGGGGAGCCCCCTCCCATCACCCC
TGTC AACGCCACCTGTGCCATACGCCACCCATGTCAACAACCTCATGAACCAGATCAGGAGCCAACCTGGCACA
GCTCAATGGCAGTGCCAATGCCCTCTTTATTCTCTATTACACAGCCCAGGGGGAGCCGTTCCCCAACAACTGGA
CAAGCTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGA
GCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATCCTCAACCCAG
TGCCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGAGGCCTCCTTAGCAACGTGTGTGCCG
CCTGTGCAGCAAGTACCACGTGGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCA
GAAGAAGAAGCTGGGCTGTCAACTCCTGGGGAAGTATAAGCAGATCATCGCCGTGTTGGCCCAGGCCTTCTAGCA
GGAGGTCTTGAAGTGTGCTGTGAACCGAGGGATCTCAGGAGTTGGGTCCAGATGTGGGGGCCTGTCCAAGGGTGG
CTGGGGGCCAGGGCATCGCTAAACCCAAATGGGGGCTGTGGCAGACCCGAGGGTGCCTGGCCAGTCCACTCCA
CTCTGGGCTGGGCTGTGATGAAGCTGAGCAGAGTGGAACTTCCATAGGGAGGGAGCTAGAAGAAGGTGCCCCCTT
CCTCTGGGAGATTGTGGACTGGGGAGCGTGGGCTGGACTTCTGCCTCTACTTGTCCCTTTGGCCCCCTGTCTACT
TTGTGCAGTGAACAACTACACAAGTCATCTACAAGAGCCCTGACCACAGGGTGAGACAGCAGGGCCCAGGGGAG
TGGACCAGCCCCCAGCAAATTATCACCATCTGTGCCCTTGTGCCCCCTTAGGTTGGGACTTAGGTGGGCCAGAGG
GGCTAGGATCCCAAAGGACTCCTTGTCCCTTAGAAGTTTGATGAGTGAAGATAGAGAGGGGCCCTCTGGGATGGA
AGGCTGTCTTCTTTGAGGATGATCAGAGAAGCTTGGGCATAGGAACAATCTGGCAGAAGTTCCAGAAGGAGGTC
ACTTGGCATTACAGGCTCTTGGGGAGGCAGAGAAGCCACCTTCAGGCCTGGGAAGGAAGACACTGGGAGGAGGAGA
GGCCTGGAAAGCTTTGGTAGGTTCTTCGTTCTCTTCCCGTGATCTTCCCTGCAGCCTGGGATGGCCAGGGTCTG
ATGGCTGGACCTGCAGCAGGGGTTTGTGGAGGTGGGTAGGGCAGGGGCAGGTTGCTAAGTCAGGTGCAGAGGTC
TGAGGGACCCAGGCTCTTCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACAT
CTGAGGCCCTGGGAGGCCTTGTGAGGTACACAGAGGTACTTGAGGGGGACTGGAGGCCGTCTCTGGTCCCCAGG
GCAAGGGAACAGCAGAAGCTTAGGGTCAGGGTCTCAGGGAACCTGAGCTCCAAGCGTGTGTGCTGTGACCTGG
CATGATTTCTATTTATTATGATATCCTATTTATATTAACCTTATTGGTGCTTTAGTGGCCAAGTTAATTCCCCTT
TCCCTGGTCCCTACTCAACAAAATATGATGATGGCTCCCGACACAAGCGCCAGGGCCAGGGCTTAGCAGGGCCTG
GTCTGGAAGTCGACAAATGTTACAAGTGAATAAGCCTTACGGGTGAAGCTCAGAGAAGGGTCGGATCTGAGAGAA
TGGGGAGGCCTGAGTGGGAGTGGGGGCCCTTGCTCCACCCCCCATCCCCCTACTGTGACTTGCTTTAGGGTGT
CAGGGTCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGATTCCAGGGGGCTG
GTTTACACTGTTCTTGGGCGCCCCAGCATTGTGTTGTGAGGCGCACTGTTTCTGTCAGATATTGTGCCCCCTGGA
GCAGTGGGCAAGACAGTCTTGTGGCCCCACCCTGTCTTGTCTGTGTCCCCATGCTGCCTCTGAAATAGCGCC
CTGGAACAACCCCTGCCCCCTGCACCCAGCATGCTCCGACACAGCAGGGAAGCTCCTCCTGTGGCCCGGACACCCAT
AGACGGTGCAGGGGGGCTGGCTGGGCCAGACCCAGGAAGGTGGGGTAGACTGGGGGGATCAGCTGCCCATTTGCT
CCCAAGAGGAGGAGAGGGAGGCTGCAGATGCTGGGACTCAGACCAGGAAGCTGTGGGCCCTCCTGCTCCACCCC
CATCCCACTCCACCCATGTCTGGGCTCCCAGGCAGGGAACCCGATCTCTTCTTTGTGCTGGGGCCAGGCGAGT
GGAGAAACGCCCTCCAGTCTGAGAGCAGGGGAGGGAAGGAGGCAGCAGAGTTGGGGCAGCTGCTCAGAGCAGTGT
TCTGGCTTCTTCTCAACCCCTGAGCGGGCTGCCGGCCTCCAAGTTCTCCGACAAGATGATGGTACTAATTATGG
TACTTTTCACTCACTTTGCACCTTTCCCTGTGCTCTCTAAGCACTTTACCTGGATGGCGCGTGGGCAGTGTGCA
GGCAGGTCTGAGGCTGGGGTTGGGGTGGAGGGTGGGGCCGGAGTTGTCCATCTGTCCATCCCAACAGCAAGA
CGAGGATGTGGCTGTTGAGATGTGGGCCACACTACCCCTTGTCCAGGATGCAGGGACTGCCTTCTCCTTCTGCT
TCATCCGGCTTAGCTTGGGGCTGGCTGCATTCCCCCAGGATGGGCTTCGAGAAAGACAACTTGTCTGGAAACCA
GAGTTGCTGATTCCACCCGGGGGGCCGGCTGACTCGCCCATCACCTCATCTCCCTGTGGACTTGGGAGCTCTGT
GCCAGGCCACCTTGGCGCCCTGGCTCTGAGTCGCTCTCCACCCAGCCTGGACTTGGCCCCATGGGACCCATCC
TCAGTGCTCCCTCCAGATCCCGTCCGGCAGCTTGGCGTCCACCCTGCACAGCATCACTGAATCACAGAGCCTTTG
CGTGAAACAGCTCTGCCAGGCCGGGAGCTGGGTCTCTTCCCTTTTATCTGCTGGTGTGGACCACACCTGGGC
CTGGCCGGAGGAAGAGAGAGTTTACCAAGAGAGATGTCTCCGGGCCCTTATTTATTTAAACATTTTTTTAAA
AAGCACTGCTAGTTTACTTGTCTCTCTCTCCCATCGTCCCATCGTCTCCTTGTCCCTGACTTGGGGCACTTCC
ACCCTGACCCAGCCAGTCCAGCTCTGCCTTGGCGGCTCTCCAGAGTAGACATAGTGTGTGGGGTTGGAGCTCTGG
CACCCGGGGAGGTAGCATTTCCCTGCAGATGGTACAGATGTTCTGCCTTAGAGTCATCTCTAGTTCCCCACCTC

4556/5332
FIGURE 3971B

AATCCCGGCATCCAGCCTTCAGT¹CCCCGCCACGTGCTAGCTCCGTGGGCCCACCGTGCGGCCTTAGAGGTTTCCC
TCCTTCCTTTCCACTGAAAAGCACATGGCCTTGGGTGACAAATTCCTCTTTGATGAATGTACCCTGTGGGGATGT
TTCATACTGACAGATTATTTTATTTATTCAATGTCATATTTAAATATTTATTTTATACCAAATGAATACTT
TTTTTTTAAAGAAAAAAGAGAAATGAATAAAGAATCTACTCTTG

4557/5332
FIGURE 3972

GCTCAGGCGGCGGGCGCGGCTGGGATGGCGAAGAGCAACGGAGAGAATGGGCGCGCGCGCCCGCGGCGGGGAA
AGCCTGTGCGGAACCCGGGAGAGCCTGGCCAGGGCCCCGACGCCGCAACCACCGACGAACCTCAGCTCTCTCGGG
TCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGTGGGCTCGCAGGGCGCC
GAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAGGGAGTCCAAGTGGCTGGACATGCTCAACAAC
TGGGACAAATGGATGGCCAAGAAGCACAAAAGATTCTGCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGG
GGCCGTGCTTGGCAGTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAGTTTGACGAGCTGGAC
ATGTCCCCTGGGGACCCCAAGTGGCTGGACGTGATTGAGCGTGACCTGCACCGGCAGTTCCCATTCATGAGATG
TTTGTGTCCCGGGGGGGCCACGGCCAGCAGGACCTATTCCGTGTGCTGAAGGCCTACACGCTGTACCGGCCCCGAG
GAGGGCTACTGCCAGGCCCAGGCGCCATTGCCGCTGTCTTGCTCATGCATATGCCTGCTGAGCAAGCCTTCTGG
TGCTTGGTACAGATCTGTGAGAAGTACCTGCCCCGGCTACTACAGCGAGAACTGGAGGCGATCCAGCTGGACGGG
GAGATCCTTTTCTCGCTGTTGCAGAAGGTGTGCGCGGTGGCCACAAGCACCTCAGCCGTCAGAAGATCGACCCG
CTCCTCTATATGACAGAAATGGTTCATGTGCGCCTTCTCCCGAACCTTGCCCTGGAGCTCTGTGCTGCGTGTCTGG
GACATGTTCTTCTGTGAAGGGGTCAAGATCATCTTCCGGGTGGGGCTGGTGTGCTGAAGCACGCGCTGGGCTCC
CCTGAGAAGGTCAAAGCCTGCCAGGGCCAGTACGAGACCATCGAGCGACTGCGGAGCCTCAGCCCCAAGATCATG
CAGGAGGCCCTTTCTGGTCCAGGAGGTGGTGGAGTTGCCCGTGACAGAGCGCCAGATTGAGCGCGAACACCTCATT
CAGCTGCGGCGCTGGCAGGAGACCCGGGGTGAGCTGCAGTGCCGCTCCCCGCCCAGGCTGCATGGTGCCAAGGCT
ATCTTGGATGCAGAACCTGGTCCCCGGCCTGCCCTACAACCTTACCATCCATCCGCCTGCCCCCTAGATGCCCCC
CTCCCTGGCTCCAAAGCCAAGCCCAAGCCACCCCAAGCAGGCCCAGAAGGAGCAGCGGAAACAGATGAAGGGGAGA
GGGCAGCTGGAGAAGCCCCAGCCCCAAATCAAGCCATGGTGGTGGCCGCTGCAGGAGATGCATGTCCCCACAG
CATGTGCCCCCGAAGGACTCAGCCCCCAAGGACTCAGCCCCCTCAGGATTGGCTCCCCAGGTCTCAGCCCACCAC
CGCTCCCAGGAGAGCTTGACGTCCCAAGAGAGTGAGGACACCTACTGTAAACCTGGCAGCTAAGGCCTCCAGGG
CGGGGTCTCCATATACTACACGGTTCATGAACTGACATTCCACATCCTGCCCACCCTCTGAGGGCCAAGCTGCC
TGGCCACTGGGCTGGGCTGGAGTCTGGCTGGTCCAACACAGATTCTGCCTGGTCCAACACAGATTCTGCCTGAGC
CTCCTTATTTATTTTCTTTACAGTGGCACTCAGGCTGGCCAGCCAGGGCAGGCAGAAGCTAGGGCCTGGGGGGT
GGGGCCTCCTTCAGCCCCCTCCTCCTGGGGGATGCTCCCCAGGGTTAGGGTGCTGGTGTGAGGGGAAAGGGTGGG
GTGTTCTTTGTGTAAATAGAAACATGGTTTGTACAGAAATAAACAGCCTTGTATAGAG

4558/5332
FIGURE 3973A

GGCCGCAACTCGCTCGGCCGCCGCCATCTTGCGAGCTCGTCTGACTGACCGAGCGGGGAGGCTGTCTTGAGGCGG
CACCGCTCACCGACACCGAGGCGGACTGGCAGCCCTGAGCGTTCGAGTCATGCCGGCCGGACCCGTGCAGGCGGT
GCCCCCGCCGCCCGCCGTGCCACGGAGCCCAACAGCCCCACAGAAGAAGAAGCATCTTCAAAGGAGGATTCTGC
ACCTTCTAAGCCAGTTGTGGGGATTATTACCTCTCTCCAGAGGTCAGAAATATTGTTGACAAGACTGCCAGCTT
TGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGATCCGACAGAACGAGATCAACAACCCCAAGTTCAACTTTCT
GAACCCCAATGACCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGAAGGCTCAGGAGCC
GTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGGTCCAAGC
CCAAGTAATCCAAGAGACCATCGTGCCCAAGAGCCTCCTCTGAGTTTGAGTTCATTGCTGATCCTCCCTCTAT
CTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTCTGACCCA
GCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCACAGCCTCTTCAACTACTTCAC
GAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAGAGGCTGA
AAACCCCGAGAAGTTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCAGGAACGTGAGAGGAAGAA
GGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGGTGGAAAC
AGTGGACTTCCAACCCAATGAGCAAGGGAACCTTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCCCCGAATCCT
CATTACAGGAGCGCTATGAAAAGTTTGGGAGAGTGAGGAAGTTGAGATGGAGGTGAGTCTGATGAGGAGGATGA
CAAACAGGAGAAGGCGGAGGAGCCTCCTTCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATGAGGGTTC
AGATGATGAAGAAGAAGGGCAGAAAGTGCCCCACCCCCAGAGACACCCATGCCTCCACCTCTGCCCCAACCTC
AGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCTCCAGCCCCTGCTCCAGATGA
GTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAATGCAGGAACACATGCGCATTGGACTTCT
TGACCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACGCACCAGG
TCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAACAGCCAT
TGGAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAGGCAGCAT
GGCCCGGACCCAGCAGGCTGCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATTACAAAGGCCAAAGG
CCTGGTGCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGCCACCGCC
ACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACCTCAGTGCCCCGACCACCCACAATGCCACC
TCCAGTCTCGTACTACAGTTGTCTCCGCAGTACCCGTCTATGCCCGGCCCCCAATGGCATCTGTGGTCCGGCTGCC
CCCAGGCTCAGTGATCGCCCCCATGCCGCCCATCTACCCAGCCAGAAATCAACGTGGTGCCCATGCCCTCCCTC
GGCCCTCCTATTATGGCCCCCGCCCCACCCCCCATGATTGTGCCAACAGCCTTTGTGCTGCTCCACCTGTGGC
ACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCCACTCCAAAAA
ACTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTTGCAGAAACAAGGGTCCAGTGTCATCAAAGT
CCAGGTGCCCAACATGCAGGATAAGACGGAATGGAACCTGAATGGGCAGGTGCTGGTCTTACCCTCCACTCAC
GGACCAGGTCTCTGTCTAAGGTGAAGATTATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGCTACAGTA
TGAGGGTATCTTATCAAAGATTCCAACCTACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCCACCTGGC
CCTCAAGGAGAGAGGCGGGAGGAAGAAGTAGACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGCCTCTCCT
GTCTCCACCCCTGCCCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCTGCATATTTGTTTCGCTCTTAC
TCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTCAATCCCTGACCCTTTCCCCACATTGGTAAGAGTAGCTGG
GTTTTCTAAGCCACTCTCTGGAATCTCTTGTGTTAGGGTCTCGATTTGAGGACATTCAATTTCTTCAGCAGCCCA
TTAGCAACTGAGAGCCCAGGGATGTCCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGCTAATAGAATATG
GCTGATATTGTCTAATCATTTTGTACCTTGACATGGGTGTCTAATAAACTCGGACCCTTCTTGTGAAATCA
GTTAAATAAGACTTGTCTCGGTCACTGTGCCCTGTCCAGACTCGAGGCAGTGGAACACTGCACAGTGCTATGT
GGCTTCTCTTTGAGGATTTTGGGTTTGTAACTAAATCTTGTGCCCTCATACTTTTTATGTATTAGAATCAT
ATTCGTATTGCCCTTTTAAACATTGGGATCCTCCAAAGGCCTGCCCCATGTATTTAACAGTAATACAGGAAGCA
TGGCAGGCACCATGCAAACCAAGGATGGATGGTGCAGTCCCTGTGTGAGTGGGCGGTGGTTTCTGCTGGCCTGG
AATCACTCATCACCTGATTGATTGGCTCTGTGGTCTGGGCAGGTGCCCTCATAGGTGTGTGGATATGATGACGTT
TCTTTAAATGTATGTATTTAACAATACTTAATTGTATTAAAGGTCATGTACCAAGGATTTGATAAAGTTTAAAT
AATTTACTCTCTACTTTTATCCATTTTATCCATTTTAACTCATGTAATCCTCATGTGAGTATTCCTGTTTAAACAC
TTGAGTAAACTGAGGCACAGAGAACATAAGTTGCATGCCATAGTCACACACTGTGAAAGTGAAGAGAAATGTGT
GCAAAACACGTCACAGTCTGGTTTCTGAGTAAAGGCAGGCTGTTATCTTTAGAATCAAGCTATCACAGGGAGAT

4559/5332
FIGURE 3973B

AGGCAATGCTGTGGGTGTTGGAGGAAGGTGAGAGCCTGTTGCTAACAATTTCTGGTTTTAAAGCTAAGGCTGAT
TTTATTGGGAAGATCTCACATGTGTGTGGCCCCTGAGAGTTCCCAGTGCCTTTTATTTCAGTCCTTCCATTGG
ACCTCCTAGCTGCCCCATCAGGTCATCTCCAGGGCTCAGAGGGGTGAGACCATTTCCAAGGTCACAGAACCAGC
TCTCTAGTCACCACCCTGCCTCTCCCTCTCAGGAGTCACTACAGTTTTATGGCTTTATTACAACTGCTGG
GTCCCTCCCATTTTCAACTTGATTGATGGGATGTCATCCCTTATCCTGTCTGACATTTGCCTCTGGCCTGGTTGC
TAGAAGTTTGCCCCAGGGGCAAGAGTTGAAATTTGGCTTCCTGAGGTGGGCTTTGTGGTTTGGCGTCCCTAAAGTG
AGCCCACTACTGGTTGCTTGTCCATGGCCAACACCAGAAATCCCCTGAGCACTACCTGGGTCTCATTCCAAGAAG
GAAGAGGGTCAGGAGACCTGGGGAGTCTCATATTCCAAGTTCTTCTTTCTTCTGGGAGCAGTGGGCAGTTCATG
GTGTTAGGGCACTCACCCCCACAGACTGGCAAACCCTGCAGGACTTCCGTGGCTGAGGCTGTGACCGGAGGCCAG
GAATGCCGTGGGTGGATTGTGAGTGAATGGGCCCTTTGAGCTGCCCTCTAGAGAGCAAATCCAGTTTCTGGAG
CTCCTGAATGAATATCTGTACTGGCTCGCTCAGATGCAGAAGCTCCATTGACCATGAGGCCTTGTGAACATCAGT
GGCCACAGGCCCAGTGTGCTGCTTGGCACTGCACTAGTTTAGGACCTGCAGCATGTAGGTAGCGTCTAGTGTTT
ATAATACAAAGCTGCTCTGCACAGCTTTTCTGATTCTTCTTGCAATCTCCTGAGGATTATCTGCCCCATTTTAA
AACGAGGTGGAATACCCAAGGTCATGTAGCCAGTGAGTGCTCTGGAAAGCCAAAGCAGCTCATCCCTTCCTGGGG
ACCACACTGCTCTGCTCCACCAGACCACACTATGAAATAGGAATAAGTGCTCCTGTTGCAGGACTGCTGGGAAAA
CAGGTGGTGTGGGACTTAAGTCACCATAATTTTGAAGACTTGCATGCAGAGGGCTCCAGGAATTGTAGACATTAA
GGAATTTCACTTTTCACTTCTACCCACTACTTAAGTACTTGTGATGTACTCTTAGAGGAGGCCAGTAATGATCAGA
ACCATTTTACTTTAAAAATTAATAATATTGTATTAGAGAATATATTAAATGGTTATATTGGGTATGTTAGGATAT
ATACTTGAATGGAAATACATGTACTATTAGCAATCATATTTTATCCCTGTAATTAGACAAGAAAGCATAAT
ATAGCTCTACTCATGGGTACACATACCAGTGTATAAGATTTTGAAGTTTACTTTTTAAAAATAAAAGCAAAAT
GT

4560/5332
FIGURE 3974

CCCTACTCCGCCTCTCGGGATCCTTTAAGAGGCGGGGCTTGGCTGCCAGCTCCGCGGCCCGGGCAAAGGCTGGG
ACTTTACTCCGGGTGGCGGCGAGGACGAGTCTGTGCTCCATCAGCTGCCGCACCCGCCGCTCCCGCCCCAAAC
CCCATCCCCGCGTTGAGCCACGATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCA
AGTTTCGGGAGAATGTCCAGGATGTGCTGCCGGCCCTGCCGAATCCAGATGACTATTTTCTCCTGCGTTGGCTCC
GAGCCAGAAGCTTCGACCTGCAGAAGTCGGAGGCCATGCTCCGGAAGCATGTGGAGTTCCGAAAGCAAAGGACA
TTGACAACATCATTAGCTGGCAGCCTCCAGAGGTGATCCAACAGTATCTGTGAGGGGGTATGTGTGGCTATGACC
TGGATGGCTGCCAGTCTGGTACGACATAATTGGACCTCTGGATGCCAAGGGTCTGTGTTCTCAGCCTCCAAAC
AGGACCTGCTGAGGACCAAGATGCGGGAGTGTGAGCTGCTTCTGCAAGAGTGTGCCACCCAGACCACAAAGTTGG
GGAGGAAGGTGGAGACCATCACCATAATTTATGACTGCGAGGGGCTTGGCCTCAAGCATCTCTGGAAGCCTGCTG
TGGAGGCCTATGGAGAGTTTCTCTGTCATGTTTGGAGAAAATTATCCCGAAACACTGAAGCGTCTTTTGTGTTA
AAGCCCCAAACTGTTTCTGTGGCCTATAACCTCATCAAACCCTTCTTGAGTGAGGACACTCGTAAGAAGATCA
TGGTCCTGGGAGCAAATTGGAAGGAGTTTTACTGAAACATATCAGCCCTGACCAGGTGCCTGTGGAGTATGGGG
GCACCATGACTGACCTGATGGAACCCCAAGTGCAATCCAAGATCAACTACGGGGGTGACATCCCCAGGAAGT
ATTATGTGCGAGACCAGGTGAAACAGCAGTATGAACACAGCGTGCAGATTTCCCGTGGCTCCTCCCACCAAGTGG
AGTATGAGATCCTCTCCCTGGCTGTGTCTCAGGTGGCAGTTTATGTCAGATGGAGCGGATGTTGGTTTTGGGA
TTTTCTGAAGACCAAGATGGGAGAGAGGCAGCGGGCAGGGGAGATGACAGAGGTGCTGCCCCAACAGAGGTACA
ACTCCACCTGGTCCCTGAAGATGGGACCCTCACCTGCAGTGATCCTGGCATCTATGTCTGCGGTTTGACAACA
CCTACAGCTTATTATGCCAAGAAGGTCAATTTCACTGTGGAGGTCTGCTTCCAGACAAAGCCTCAGAAAGA
AGATGAAACAGCTGGGGGCGAGCACC CGAAATTAACACCTTCTCCTATAGCAGGCCTGGCCCCCTCAGTGTCTCC
CTGTCAATTTCTACCCCTGTAGCAGTCATTTTCGCACAACCCTGCAGTGGGTCTCCGTGTCTATCAAATACCTAAG
CCTCAGGAGCTTTCAATTCAGTTAGGCAGAGGAAGAGCGACTGCAGTGGGTCTCCGTGTCTATCAAATACCTAAG
GAGTCCCCAGGAGCTGGCTGGCCATCGTGATAGGATCTGTCTGTCTGTAAACTGTGCCAACTTCACCTGTCCAG
GGACAGCGAAGCTGGGGGTGGCGGGGGCATGTACCACAGGGTGGCAGCAGGGAAAAAATTAGAAAAGGGTGAA
AGATTGGGACTTAACACTTCAGGGAAGTCAGCTGCCGGGGAGAAACTTGCTCCTAAATGAACACATAAGTTTGA
TCGCAATGAGGAGTAGCAGGGTAGCTGGTTGCTAGAGTTACGGTGGGGATCAGAACTCTTCCAAACATTTTAGC
ACTGAGGCTGGGGTAGCTTTTGGCTTTTCCCAGGTCTCAGGAGGTGGCCTGAGTCAGCACACATCTTCCCACTCG
GTAGACAGGCTGGCCTCTCCCTCCTTTGAGACTTTGGCAACTCCTGGGCCACACGGCCTGCCTCTTTGATTACT
AATGATTGTGAGTACTCAGAGCTTCTTGGGACTTCGGGTACCCACCCGCTGTTCTCCATGCAACAAAGCGCCA
GGGAAATGACCACAGGGATCGCAGCTGCAGGGAGGGCCAGGGAGGTTGGGGGTGGGAGTGAATGCTAAAAGCAG
ATCGTCCAGTGCCCTTTTCACTGTCTACCGGCCTCTCACCAGCAGTCTCCATGTGAGCAACCCCGAGACAAAAA
TGCTAAGTGGGATCAAGAGAGCAGCACTCGGAGAGGGTGTGTTGCCAGTCTGAGTGTCCCGCGGTGCCCGCAACC
CGCTTCTGACTGACCTGAGCAAGGTCTTACTAAGCAGTCCCATCTCTGTGGGAGGCATGCAACGCGTGCAGGGA
GTTCAGGTGCCGGTGGCGTAGCCAGGCCTGGAGGGCCCCAGGCAGGAGGCCGCCAAAGGCGGGGCCGGCGTC
TCGCAGACTAGGGGCTGGGGGCGGCCACAGACGGCCTCGAAACCACAGCCCTTACCCCAATCCCACGAGCCCCGC
CAACGAACCACAGGTGCTGGGCTTTAGAGAACATGGGAAGGCGGGCCCCAGACCTGCGGGAACGCCTTCCCTCAG
AGCCAGGCCCCGGCCCCGTCTGGGAAGCTCATCTTGCAGAGCTGAGGGAGCTCAGGGCAAAGGCCAGGCTAGCGC
GGACCGGAAGGGGCGGAGGCTGCACGGGCCTCTGCCAGAACGCTCAGGACATCCCGGCCTGGGTTTACAACGCTG
TTAGGAAAATTAACCAATGAATAAAGCAACGTTCACTGCGCA

4561/5332
FIGURE 3975

ATGAGGTGGGCGAGGCTTCCGCTCTCTTG TGCCAGCGCGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCCT
ACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCAGCCCTGAAGCAGGCCGCGAGCGCCA
GGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATCA
ACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCTGGCTGTCCGCAAGTGGACCA
CCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTGCGGTGGATTTCCTCCTGGACT
CCAGCCTGCGCAAGCTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTGA

4562/5332
FIGURE 3976

GAGGAAGTGGAGCTCCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAAGAA
GAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTTGGC
TGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAAGGG
TTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCCTCCACGAACCCATTGTCAACAAGTT
CCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCGTTT
AAAGGACAATAAGCCCAACTACAACTCGACCACATCATCAAGGAACGGTATCCCACGTTTCATCGATGCCCTGCG
GGACCTGGACGATGCCCTCTCCATGTGCTTCCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCAGAC
CATTAGCTGTGCCCGCGCTCACTGTGGAGTTTCATGCACTACATTATCGCTGCCCCGTGCCCTGCGCAAGGTCTT
CCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGCCTT
CTCCCATGACCACCGACAGACGTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCTGGG
CTTTGTCAACTTCCGCTTTACCAAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAGGCCCAAGCAGA
GGCAAAGGCCGGTGAGGGCACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGCCAG
CCTGGCCCGCGTGGTGGTGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGATGTC
AGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTGAGGGCCTGAAGTT
CTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGGAAAGTGTCTGGGA
CAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTGACCGGCCTGG
GCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTGACTCAGTGAACGCCAGGCTCCT
TCTCCCCGTGGCAGAGTACTTCTCTGGGGTGACGTGCCCCACACCTTTCACCTTTGTGACCGAGAAGGAAGG
AGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGGACCCAGGAAACCTGAATGAGTC
AGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGTATGAAGAGGGAGAAAATGAGGAGGAGGAGGA
AGATGCAGAGGCTGGTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGGGAA
GAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGAGTGAGGC
CAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAGGCG
AAAAATCCGAGAGGCCAACAAAGCTGGCGGAGAAGCGGAAAGCCCACGATGAGGCGGTGAGGTCTGAGAAGAAGGC
CAAGAAGGCAAGGCCGAGTAGAGTGCCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGTGGC
AGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCTTCTCCAGCCAGCCCTGACC
CCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGGTCA
GAGAAGAGGCCTCTGTGCCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACCCAG
CCCCCTACCTACTGCCCCATTATCCTGGCTTTCCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTCAGG
GTGCTGTGATGGGGTAGGGTAGGGGAGCATTGTATTAAATGACTGGACTTTTG

4563/5332
FIGURE 3977

CCGATTCTTGCTCACTGCTCACCCACCTGCTGCTGCCATGAGGCACCTTGGGGCCTTCCTCTTCCTTCTGGGGGT
CCTGGGGGCCCTCACTGAGATGTGTGAAATACCAGAGATGGACAGCCATCTGGTAGAGAAGTTGGGCCAGCACCT
CTTACCTTGGATGGACCGGCTTTCCCTGGAGCACTTGAACCCAGCATCTATGTGGGCCTACGCCTCTCCAGTCT
GCAGGCTGGGACCAAGGAAGACCTCTACCTGCACAGCCTCAAGCTTGGTTACCAGCAGTGCCTCCTAGGGTCTGC
CTTCAGCGAGGATGACGGTGACTGCCAGGGCAAGCCTTCCATGGGCCAGCTGGCCCTCTACCTGCTCGCTCTCAG
AGCCAACCTGTGAGTTTGTGAGGGGCCACAAGGGGGACAGGCTGGTCTCACAGCTCAAATGGTTCCTGGAGGATGA
GAAGAGAGCCATTGGGCATGATCACAAGGGGCCACCCCACTAGCTACTACCAGTATGGCCTGGGCATTCTGGC
CCTGTGTCTCCACCAGAAGCGGGTCCATGACAGCGTGGTGGACAACTTCTGTATGCTGTGGAACCTTTCCACCA
GGGCCACCATTTCTGTGGACACAGCAGCCATGGCAGGCTTGGCATTACCTGTCTGAAGCGCTCAAACCTTCAACCC
TGGTCGGAGACAACGGATCACCATGGCCATCAGAACAGTGCAGAGGAGATCTTGAAGGGCCAGACCCCGAGGG
CCACTTTGGGAATGTCTACAGCACCCCATTTGGCATTACAGTTCCCTCATGACTTCCCCCATGCGTGGGGCAGA
GGGAACAGCATGTCTCAAGCGAGGGTTGCTTTGCTGGCCAGTCTGCAGGATGGAGCCTTCCAGAATGCTCTCAT
GATTTCCAGCTGCTGCCCCGTTCTGAACCACAAGACCTACATTGATCTGATCTTCCAGACTGTCTGGCACCAG
AGTCATGTTGGAACCAGCTGCTGAGACCATTCCTCAGACCCAAGAGATCATCAGTGTACGCTGCAGGTGCTTAG
TCTCTTGCCGCCGTACAGACAGTCCATCTCTGTTCTGGCCGGGTCCACCGTGAAGATGTCTTGAAGAAGGCCCA
TGAGTTAGGAGGATTCACATATGAAACACAGGCCTCCTTGTGAGGCCCTACTTAACCTCCGTGATGGGGAAAGC
GGCCGGAGAAAGGGAGTTCTGGCAGCTTCTCCGAGACCCCAACACCCCACTGTGCAAGGTATTGCTGACTACAG
ACCCAAGGATGGAGAAACCATTGAGCTGAGGCTGGTTAGCTGGTAGCCCCCTGAGCTCCCTCATCCCAGCAGCCTC
GCACACTCCCTAGGCTTCTACCCTCCCTCCTGATGTCCCTGGAACAGGAACCTCGCCTGACCCTGCTGCCACCTCC
TGTGCACTTTGAGCAATGCCCCCTGGGATCACCCAGCCACAAGCCCTTCGAGGGCCCTATACCATGGCCCACCT
TGGAGCAGAGAGCCAAGCATCTTCCCTGGGAAGTCTTTCTGGCCAAGTCTGGCCAGCCTGGCCCTGCAGGTCTCC
CATGAAGGCCACCCCATGGTCTGATGGGCATGAAGCATCTCAGACTCCTTGGCAAAAAACGGAGTCCGCAGGCCG
CAGGTGTTGTGAAGACCACTCGTTCTGTGGTTGGGGTCTGCAAGAAGGCCTCCTCAGCCCGGGGGCTATGGCCC
TGACCCAGCTCTCCACTCTGCTGTAGAGTGGCAGCTCCGAGCTGGTTGTGGCACAGTAGCTGGGGAGACCTCA
GCAGGGCTGCTCAGTGCCTGCCTCTGACAAAATTAAAGCATTGATGGCCTGTGGACCTGC

4564/5332
FIGURE 3978

GCTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA
GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATTGCTGACCATAT
CCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGTGCTGCTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTG
CCTCGCCTACCTCATGAAGTACCACGCCATGTCCCTGCTGGACGCCCCACACGTGGACCAAGTCATGCCGGCCCCAT
CATCCGACCCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCGAATTGTTTGGCAAGAACAACACTGTGCA
CATGGTCAGTTCCTCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGATGATTCCACTGTGAGC
CATCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTGTTGATCTTACACCAAGATCCAAACTTGAAC
ATTCTACTTTTGTGATACAGAAAAAACAGATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTA
ACTTTATAATCCATTTTTTTTTAAGATTAACTAATTGTGAGATGGTGAAGATAAATTTTCTGCCCTGTGAGTGAC
ACTGGCCAGGGGATAGGTTGAGGCAGATGGTGCCCAAGAAAGAGGGCAGCACCCATTGCACATGGCAGGCCTG
GAATCCTGCAGCCCTCCCCAAAAACAGATTGACCCAGGAATGAATCTGCTACAATTCCACCTCATTCTTTCACAC
CCAGAGCCAGAGCCTTAAGCATCATGGTACCTCTTGCGCTTCTTACAGTGAGTGCCAATCTACTAGATAAATGGC
CTTCAGGCAGTGCTCCAGGAATCCTGGGGGGTCCCAGGCCACCTCTGCTTCCACCTTCACTATAAGTGGCCCAGT
TCTGGTTTTCTAGATTGTACTTATGCATAAGATAGTTTTTAAAGAAAGCATTCCTACTGTGTAAATTTTTTTTGT
CTTTTTTTGAACTGTCTGCTCTGTCACCCATCCTAGAGTGCAGTAGTGTGATCATGGCTCACTGTAGCCACAA
CCTCTCAGGCTCAAGTGATCCTCTTACCTTAGCCTCCTGCGTGGCTGGGACTACAGATGTTTGCCACCATGCCCG
CCTCATTTTTTTTCTTTTTTTATAGAGATGAGATTTTACTATGTGCGCCAGACTGGTCTCAAACCTCCTGGCCTCA
AGCAATCCTCAGCCTCAGCCTCCCAAAGTGTGATGAGCCACTGTACCCGATACCACTGTATAAAAAATTTAA
AAAAAATTGTGAGTGCTATTGTACATGGCAAAGTTTCAAAGAGCTCTTGCCATCCCTCACCAAACCTTGGCAAA
AGATGGTGTAGTCCCCTTCTCCAGGGCACATGAGAAAAACAGGCCTAACATCAGGTCTCAGCGGTTCTCTCTCAC
AGGCCTTGGCTTGGAAGGCTGGAGCTTCGGACCAAGGCCAGCCCTGTACCTCCTCTTCATGTGATGTGGACCC
CTGGGAGCATCAGTGTCTCATCTGTCCAATGACAGCCCTTTTCTCACAGAGTTATTGTGAAGATTCAACAATTT
CTTGGCATAGTGCCTGGCACATGGTGTGTGCTTAGCGCAAATGGCAGCTCTCATCATGAATGATAGACTCTTTCA
CCCTGCTGGTCCCAGGTGGCACACACATCCCATAATGGCATTTCTCCTTTCTGTGCACAGCACTTTATTGTTA
CAAAGTACTCTTCCAAAAAGTTACCCTGTGTGTAAAAA

4565/5332
FIGURE 3979A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCAGTAACCTCGTTCCTTGATATTATATGGAAATCGTTTCC
CCAGAAAATTTTGCTTTTTCACTTTTTGAGATGTATCCCACTGGAGTGAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACIGAGATCAGTGAAATACTTGTGCTAATCCAGAAGAATCTGATTTTTGTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCATTCAAGTGTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTCCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTTACTTTCTAACAAGAAAACAGAAGACATTTAAATGACAACCTTCA
AGAAGAAAATTTTTATTTTTTTCAGAAAGTTGGCATTATCTTCTGGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTCATGGTTCTTGAGTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAACTTTAGTGTTTAATACATTACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGTCTGTGGCTCACGCTGTAAATCCAGCACTTTGGGAGGCCGAGAACCCTCACGAATCTTGTGTTGGTGCCC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAATCGGGCT
CAATGCGCATTGGGAAGGATTTATCCTGTTTACCAAGAAGGAAGACACCATGACCTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCCTGCCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTCATGG
ATAATGGAGAGCCAGAATAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCCAGAGGGCA
CGAAGCCAGAGCGCGCTCGTTCCTGCTGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCTGCTGCTGTACAAGCCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTTGTGTTTGGTGTCAACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTGAGGCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTTCGGGATGAGTTTGGCTACCTCTCTGCCAAGTGAACCAGCCCCATCCAGTGAGC
TGCGTTACAAACGCGGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCCTGACACCTGGGTTTGTCTCCATGAACCCTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATGGCCCTTGGAAAGTGACCACAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTGATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCCTCTGGTGACCACTGTCACCATCTTTACTGCCCAACTCCAAGAGCCCTCGGG
AGGTTCCCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACCTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

4566/5332
FIGURE 3979B

ACACGGGCCGTGTACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGACAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCATCAGGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCTGCTGCCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCACCTGCCCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAAG

4567/5332
FIGURE 3980

TGCTGAAAAAATCAATTGACTATTCCCTTTTCTAAAGGGCAGAGACAGATAATCTCACTTCCAGAGAAATGAC
TTGGAGAAAAAAGTGTGGTCTTTTGGCTCTTTTGTAATTAAATCCGGATGTACCTCAAAAGACTTAAGACTG
TGGTGATAAGATGCTTTCTCAGCAGAAAGGAGGAAAAAACAACCTGGAACCTCAAAGCTTGAAATTCTGTGGC
AAAACATGAGATGTCCAGGATTGGAGGTTGAAAAGATTTCACTACAGTGTTCTGCAATAGTTGGAGCAGATAACT
TTCAGTGTAGCCACAGCCATGACTCCAGATTTCCAGATTTTCAAGACCTGGACCTGGAACCCGAAAGAGCTTGT
CACGATGCGGCAGGAACACTGGAGGTAGATTTTTTTTTTATTTTTGAATTTTGGGACTGTTGACCTTGCTGTGAGA
AAAGAGACAACGACTGAGCAAGCACTACCACCAGCACTGTTACTGGGAATTAGAAGACCTGAGTTTCTGTCCAGA
CCCTCAGTGCAAACCTGAGGATGCTCCATCCAAAGTGAATTATGTCTGTGCCTCCTGATTGCTGAGTGTTACCT
GGACCTTCTGACTACCTTCCCTGTGCTATTCCATCAGCCTACAGACCTGGTACCTGGATTTTGCCCGAGATGAT
TCCTACCACCTTACTACTGACGAAGACACCCATTCCAGTGGACCACTGTGACCCAGGAGGCATTACGCCATCATG
ATGTGGCTTTACCTCCACTCCTGTCTTGTTCTACCCAGATTCAGCACAGCCCTTTATAGTGAAGTCAGAGTCTT
CAAGCCAAATAGCTAAAGCTGTTTTATCACAACAAAGGCCCTAGTTTGTTCATGAGTGTGCATTTTCTTCTCA
GTTAAAGCCTTCAGAGACACACAATAAATTTGGACCAGGGGATTTTTTAGTTATTAATGCTCTCTGAAGAAAGGC
AACATCTTTTTGAGAGCAGCATTGGACCACACCCCAATCTCAAATGATTGAAATTCATGAACATCTAGGATCC
CGTGAAGGTCACTGGACCCCTGTTTTTCTACTTCAAATCCTGTAGTAGCCTACTGAATGAGAAAACATATTCTGA
CCCATTGGGATCAAATCAAAGGCACAGTGAACCTCCTCATAGCATCTTCTTTGGAATTACTCAGGAACCAGAACTT
TTTACACAAATGTAAGAAATTCTACCAAGGAGTCCCCCTTACCTAACAGCATCTCACAAGGCTGCACCAGATTCCA
GAAAAGGCTTCTCTTGATACATCAAGCATTTTGTGACCGACTTATTCTTAGATCATTGGTTTTCCAAAGGCTTTG
TGGCCATGAAGCCCTTTGAGTGAAAACCTGTGCAGAAGCCAGAGTAAAAGTGAAGCTGCTCTGGATGAAGTAGTG
AAGCAAGAGTAGGGGCCTGAATCCTGCTACAACATCTTCCCTTACCACCGTGGTGACACCTAAGGGGACTTCCT
TACAACACCTTGAACCTTCCGAACACAGTTTGAAAACCACTGCCCCAGACAGCAATATGTTTGACCTGAATGGC
ATTCCAATCTTTTCTGTACCTCCACTCAGCACAGTTCATGTTCACTAGATGCTGAACATTCTTAGAAATACTGTG
TGTGAACCTTAGAAAAGTGCAAGAAGACAGGCATGTCTTTGACCCAGGAATGATCATTGCTGAAGATGGTGTCA
AGTGAACCTAGATTAACAGCCCTCCACTCCAGATGGATATCCAGTGATTCTCTAGAATGGGATATAGCCAGAGAAC
AATTCTATGCACCCTACACTGACAGACTCCCTTAAGCAACACCAGATGCTCTACTGGTACTTGAAGTACATGACT
TTGAAGTCTTGACCCTCCATGAATACCTGAATTATCAGCAAGCGGGTTTTGAAGCTGGTGCCTCATTGAGGCCAT
ATTAGAGCAACTTGACATTTGACCTCTTGTTATCAGCCATGGTACTCTACTTCGTGTGCAAGAGATAACTATGA
AAGCCAAATTCAAATCTGGCAACATTTCCCTAAAGGGGCTCAATATCTATCATTTCGTCTTCTTTTCCAAACTACA
CATCACTGTATGACTCAACCAGTAGCAGTTATATTGCCCTTGTTTTTTATTCAGTTTAACTACTGTTTTCCAAGA
TAAATGAGCTAATAAGCTTT

4568/5332
FIGURE 3981

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTGCGGTCCCCGAAAGAGCTAAGCCGAGCCTGCGCCGACGGGTGGGCTGGACTGAAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCAGCTCTCAGCAGCGGGAAGCTGAGCAGCGGGCT
GCCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCT
GGTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACC
TTGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGG
CTGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCT
GAAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCT
GCCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCCAGTGCCTTACA
GCTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGGCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCA
ACGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGC
CCCACCAGAGGCCCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTGCGTG
CTCAGCCCCCGCCAACCAGCCAGAACCGAGAGTCCACCCCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCT
GGCTCTGTGCGGGATCGTGTCCACAAGTTACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCC
CAGGCTGCCCTAAGTCCCTTGACCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACACCCCTGCCTCCTCC
TCCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGTTTACGAAAGGAGCAACGAGGAGTAGCCAG
CCCTGGCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCTTGAA
AACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTGCGCACTGCCGAG
CCAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGTG
CTGCTGCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAGT
AGTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCAGTGTCACTCATGTC
ACCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGGCCT
CTCGCTGCAGCAGTGGAAGCGGCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCT
CTGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTT
GAAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGG
GAACGGCGGCTGCAGGAGGCACGGGGCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCAGAGG
CACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGACGACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGAT
GGCACACGGACGGCCCGCACCCACACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACC
ATGATGCAAACCAAGACCTTCTCCTCTCCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAG
GCCAGCCCACGGGCCGCGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCG
CAGAGTCTGCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCC
GGCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAG
CAGATGCTGCTGGACTGGTGTGAGCCAAAGACTCGCGGCTACGAGCACGTGACATCCAGAACTTCTCCTCCAGC
TGGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGC
CCTCAGAACCGACGCCAGAATTCTGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCGCAGCTCCTG
GATACAGAGGACATGGTGGGCTTCGAGAGCCTGACTGGAAGTGCCTGTACACGTACATCCAGGAATTCTACCGC
TGTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCTTAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGAC
TGTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTAT
GTGCAGTCGCTCTACAACCACCTGCGACGCCACGAACTGCGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCG
CATGGCCAGCCAGTGGAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTG
CCCTGTCTGTTGCGACACCCTCCCCCCCCACATACACACGACGCTTTTGATAAATTATTGGTTTCAACG

4569/5332
FIGURE 3982

CGTGGCGCAGCGACTCGGAGGTTGCCTCCAGCTTGCGCATCATCTGCGGCCGGGTCCCGATGAGCCTCCTGTTG
CCTCCGCTGGCGCTGCTGCTGCTTCTCGCGGCGCTTGTGGCCCCAGCCACAGCCGCCACTGCCTACCGGCCGGAC
TGGAACCGTCTGAGCGGCCTAACCCGCGCCCGGGTAGAGACCTGCGGGGGATGACAGCTGAACCGCCTAAAGGAG
GTGAAGGCTTTTCGTCACGCAGGACATTCCATTCTATCACAACCTGGTGATGAAACACCTCCCTGGGGCCGACCCT
GAGCTCGTGCTGCTGGGCCGCCGCTACGAGGAACTAGAGCGCATCCCACTCAGTGAAATGACCCGCGAAGAGATC
AATGCGCTAGTGCAGGAGCTCGGCTTCTACCGCAAGGCGGCGCCCGACGCGCAGGTGCCCCCGAGTACGTGTGG
GCGCCCGCGAAGCCCCCAGAGGAACTTCGGACCACGCTGACCTGTAGGTCCGGGGGCGCGGCGGAGCTGGGACC
TACCTGCCTGAGTCCTGGAGACAGAATGAAGCGCTCAGCATCCCGGGAATACTTCTCTTGCTGAGAGCCGATGCC
CGTCCCCGGGCCAGCAGGGATGGGGTTGGGGAGGTTCTCCAACCCCACTTTCTTCCTTCCCCAGCTCCACTAAA
TTCCCTCCTGCCTT

4570/5332
FIGURE 3983

GAGAGGGGCGGCTCCGCGTCATGTGACTGGAGTCCGCGTAGGAGGGGTCGGAGGTCTTACCCAACAGATTGACGC
GGCGTTAGTATTGGCCGTGTACCCGAAAACTGATTGACTGGGCTGGCGTTAACTGTGCGGAGGCAGGATTTCCC
TGGGGAAAGTCTTCACTCAGAGCTTCGCTGACAGCCAAGGATGGCAAGCAAGGGGCCCTCGGCCTCTGCATCTCC
TGAGAACTCCAGTGCAGGGGGGCCAGTGGGAGCAGCAATGGCGCTGGCGAGAGCGGAGGGCAGGACAGCACITTT
CGAGTGCAACATCTGCTTGGACACAGCCAAGGATGCCGTTCATCAGCCTGTGTGGCCACCTCTTCTGTTGGCCGTG
TTTACATCAGTGGTTGGAGACCAGACCTAACAGACAGGTGTGTCTGTTTGCAAAGCTGGCATCAGCCGAGACAA
GGTCATCCCCCTCTATGGAAGGGGCAGCACTGGGCAACAGGACCCCAGAGAGAAGACCCCTCCTCGTCTCAAGG
ACAGAGGCCAGAGCCGGAGAATAGAGGGGGATTTCAGGATTTGGATTGGAGATGGTGGCTTCCAGATGTCTTT
TGGAATTGGGGCATTTCCTTTGGGATATTTGCCACAGCATTTAATATAAATGATGGGCGGCCCTCCTCAGCTGT
CCCTGGGACACCCAGTATGTGGACGAGCAGTTTCTGTACGCCTCTTCCTATTGTGGCCCTGGTGATCATGTT
CTGGCTCCTGATTGCCATAAGCTGGGCTCCTGCCTACATCCGTGGCAGGGCTCTGGACTGGTGACGTGCCACCCC
AACTCCTGGTGTGTTGGCTTCTGGCTAATCTTGACTCCTGGAATCAGTGGGATCAGTAACACATCAAGGAGTCTT
GTTTCTTCATCAGAGCTTTGGAATCAGAGACAGTTGGCGATGACCCCTGAATATCGCCACCGCTGTAAACACTC
TATAACTTCAGGCCTTGGCATTGAGTCATCTCTCATGGGTGACACCATGAAATCTTGTTCAGCCAGTTCTGCAG
GTCTGACTCTGCAGAGGGAAGAGGCAGAAAGAGAGAACTGTGAGAGTATAATTCACCTGAGTTTAAATATTAC
AGAAACAAAGGGATGCACCAATGGTATTTCTGGAAATTTTCATGTCTTTAAATACCCCTTGGTAAGTTGCTTCT
GAAGCCAGTGGGGGCTCCTCAGATAGAGAGGTTCCCCTTTCAAATCCCAGTGGCGCTCTGTCTCTTCTCCTTCCC
CTCCCACTCCCCCTCTTCTTCTCTGTAGAGATGCAAGAAATTGCTGTCCCATAAAAATCATAATTGCAGTAGCT
AAAGCTGGGGTCACTTCGTGAATTCACCAGAGACTCAAAGATCTTTTATTGGCTCTGGGCTGTGCTCAGTGTCTT
TGGCCTCAGAGAACAACCTTGAATGACTTCTTGGTTTCTTGGCATAAATTATTCTGTGAGACATGTGGCTTAAAC
TCACAGGTTTCCCATCAGCTTTCTCCCTAAACTATGTTTCTGCTCTCTCTGTCAGAGAACATACAGCCGAG
AATACTGCCGAAGCTGAGACTGACTACTGTGCATTAGGAAAGACCTGGAGTCAGGACTTTGGTGGGATTTGGAGC
TCCGAGGCAGTAATAACTGAACAAGCAGCCCTGTCCCCTAGGCTGCAGAAGCTTGAATGCATCCTCTCCAGAAC
CTGCCACAGGAACTGGGGGCTTTGTGAGTCAAGCCCATGTCATGCAAAAGACCACCATCCTCAGAGCCAAAGT
TGTCTTTTATGAAGAGGCAAGGAAAGGGGAAACCCCACTGTGACTGCCAAGCAGGCAACCCCTGATGATTGTAA
TGAAACTCCTTGTATGTGTCTAAACCAGGAGCCCAAGCATGTGACTGCCAAGCAGGCAACCCCTGATGATTGTAA
AGCCAGGTGGCAGGGGCTTGGGGAGCCCAAGCACAATGATATTGTGTGGTCTTCCCTCCTGTGGAATCGAGGGGA
AATTATTCTTCCCAATACCTTGATTGATTTTTCAGTTTCAATAAGCTTCTTCTCTGAATCTTATTGAGGGACTAT
GGTACCAAGCAGGTAGGACTGTTACCTGGTGGAAACAGTTCTTGGCTCTGCCTTCTAGGCTTCATCCCAGAAATCC
AGCCTCTTCTGAGAGACCCCAAAGCTGGAGGGAGATGGGCTTTTCTCTGGGCTCTCTCCTACTTTGCCATCCAC
ACTGCTCCTGGCTAACCCAGCAATAACCAACAAATGGTAGGAAGCCCATCTATTGCTTTTCTCAATTATGAC
TGCATAGTTTATGGAACAAAGATCTTGAGGAAGATGAGGGAAGCCCTCCCCTCTTACAGTCCCCATCTCTTCT
CCTTTGTACCTGTCAACACCAGAGTTCACTGTTTAAACAGACAAAATATAAAGTATTGAGTAGGTGGTTTATATG
CCGAATCCACTTGGTAGGAAGAAACCACAGCTTTATAGTGTGCTGATAGATTTTAAACATTCCTGGGCACCCA
CTCAAGAGTGCTCTTTTTATCACCTTCTGGAAATCCGCAAAGTTGCAGGGGCTCTGGAGTGTCTCTCTCTAGA
GAGAATTGGTGGGACCCCTCAGTGCAGTGGCCCCAACTAGTGGAGGGAGAGAGGACTTAAGTCAGATGGACTC
AACAGAAATGGGTTTCCAGAAGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTGGACTCTTCAATGAAA
TGGAGTGAGCCAGGAGAGCTCAGCCAACAGAGGCACTCTGGGAACCTGTTAGTAAAGCCAGGCTGGCCAAATGC
CATTTGATTTTGAACCTCGTAGGTCCCCACTCACCTCTGCCAGGAGCTAAGTAAGGCAGGAGAGCTGACTTGGG
ACTCCTGGCTCGGCCCCAACAGGGAGCCCCCTTCCACCATCCCTCGGCAAGCTCACACCTCATCTTCTGCCA
AGGCAGCTTTCTTTCTTTTGTGTGTTTCTGTGTTCTTAGCCTCCACCTCCTCCTGCCACCCTGTGGACTAG
GACCAGGTCTGACCCAGTCAGAAAATGATGATATGTACAGTGGCACACCTTAACCAGTCACTAATTTTCACTG
TTGTGAAAGTATTGATTAGAAATTAACAAATGGTTTTACATTA

4571/5332
FIGURE 3984A

CTCAAGAATGCCAGTGTGTGTGTAGCCTCCACAGAGAGGTTCGTTTTCTCGGAGTCCAGAGGGGCCCGCTGAGCTT
CTGAGAAGTAGGGAGGAGCCATCCCAGCCATGAGCCCCTGTGGGAATCTGCTGGGGGCCAAGTGGCCTGGAGTCC
TCAGGCTCCCGCAGCTGCTCCGGAGGGAGAGGTGAGCTCAGGGCAGCCTGCCTGCAGCCAGAGGTGCCGGGAGCC
CCGGGCCTGTCTATGGTGGCCATCTACAGCCGGCCTGAGGCAGTCACAGACGGATTTGCAGCTGAGCCTGTCTATC
TGGTGTGGGAAGAAGATGGGGAGTTACTTGTCTAGTCCCGGCTTACTTCACCTCCAGAGACCTGTTTCGGTGTTC
GAATGCCAGGATTCCCTCACCAACTGGTACTATGAGAAGGATGGGAAGCTCTACTGCCCCAAGGACTACTGGGGG
AAGTTTGGGGAGTTCTGTCTATGGGTGCTCCCTGCTGATGACAGGGCCTTTTATGGTGGCTGGGGAGTTCAAGTAC
CAGCCAGAGTGTCTTGCTGTATGAGCTGCAAGGTGATCATTGAGGATGGGGATGCATATGCACTGGTGCAGCAT
GCCACCCTCTACTGTGGGAAGTGCCACAATGAGGTGGTGTGGCACCCTATGTTTGAGAGACTCTCCACAGAGTCT
GTTTCAGGAGCAGCTGCCCTACTCTGTCTACGCTCATCTCCATGCCGGCCACCACTGAAGGCAGGCGGGGCTTCTCC
GTGTCCGTGGAGAGTGCCTGCTCCAACCTACGCCACCACTGTGCAAGTGAAAGAGGTCAACCGGATGCACATCAGT
CCCAACAATCGAAACGCCATCCACCCTGGGGACCGCATCTTGAGATCAATGGGACCCCCGTCCGCACACTTCGA
GTGGAGGAGGTGGAGGATGCAATTAGCCAGACGAGCCAGACACTTCAGCTGTTGATTGAACATGACCCCGTCTCC
CAACGCCTGGACACGCTGCGGCTGGAGGCCCCGGCTCGCTCCTCACATGCAGAATGCCGGACACCCCCACGCCCTC
AGCACCCCTGGACACCAAGGAGAATCTGGAGGGGACACTGAGGAGACGTTCCCTAAGGCGCAGTAACAGTATCTCC
AAGTCCCCTGGCCCCAGCTCCCCAAAGGAGCCCCCTGCTGTTTCAGCCGTGACATCAGCCGCTCAGAATCCCTTCGT
TGTTCCAGCAGCTATTACAGCAGATCTTCCGGCCCTGTGACCTAATCCATGGGGAGGTCTGGGGGAAGGGCTTC
TTTGGGCAGGCTATCAAGGTGACACACAAAGCCACGGGCAAAGTGATGGTCATGAAAGAGTTAATTCGATGTGAT
GAGGAGACCCAGAAAACCTTTCTGACTGAGGTGAAAGTGATGCGCAGCCTGGACCACCCCAATGTGCTCAAGTTC
ATTGGTGTGCTGTACAAGGATAAGAAGCTGAACCTCCTGACAGAGTACATTGAGGGGGGCACACTGAAGGACTTT
CTGCGCAGTATGGATCCGTTCCCTGGCAGCAGAAGGTGAGTTTGCCAAAGGAATCGCCTCCGGAATGGCCTAT
TTGCACTCTATGTGCATCATCCACCGGGATCTGAACTCGCACAACTGCCTCATCAAGTTGGACAAGACTGTGGTG
GTGGCAGACTTTGGGCTGTACGGCTCATAGTGGAAAGAGAGGAAAAGGGCCCCCATGGAGAAGGCCACCACCAAG
AAACGCACCTTGCGCAAGAACGACCGCAAGAAGCGCTACACGGTGGTGGGAAACCCCTACTGGATGGCCCTGAG
ATGCTGAACGGAAAGAGCTATGATGAGACGGTGGATATCTTCTCCTTTGGGATCGTTCTCTGTGAGATCATTGGG
CAGGTGTATGCAGATCCTGACTGCCTTCCCCGAACACTGGACTTTGGCCTCAACGTGAAGCTTTTCTGGGAGAAG
TTTGTTCACAGATTTGTCCTCCCGGCTTCTTCCCGCTGGCCGCTTGTGCTGCAGACTGGAGCCTGAGAGCAGA
CCAGCATTCTCGAAATTGGAGGACTCCTTTGAGGCCCTCTCCCTGTACCTGGGGAGCTGGGCATCCCGCTGCCT
GCAGAGCTGGAGGAGTTGGACCACACTGTGAGCATGCAGTACGGCCTGACCCGGGACTCACCTCCCTAGCCCTGG
CCCAGCCCCCTGCAGGGGGGTGTTCTACAGCCAGCATTGCCCTCTGTGCCCATTCCTGCTGTGAGCAGGGCCG
TCCGGGCTTCTGTGGATTGGCGGAATGTTTGAAGCAGAAACAAGCCATTCTATTACCTCCCCAGGAGGCAAGT
GGGCGCAGCACGAGGGAATGTATCTCCACAGGTTCTGGGGCCTAGTTACTGTCTGTAAATCCAATACTTGCTG
AAAGCTGTGAAGAAGAAAAAACCCTGGCCTTTGGGCCAGGAGGAATCTGTTACTCGAATCCACCCAGGAACCTC
CCTGGCAGTGGATTGTGGGAGGCTCTTGCTTACACTAATCAGCGTGACCTGGACCTGCTGGGCAGGATCCCAGGG
TGAACCTGCCTGTGAACCTCTGAAGTCACTAGTCCAGCTGGGTGCAGGAGGACTTCAAGTGTGTGGACGAAAGAAA
GACTGATGGCTCAAAGGGTGTGAAAAAGTCAGTGATGCTCCCCCTTTCTACTCCAGATCCTGTCTCTCTGGAGC
AAGGTTGAGGGAGTAGGTTTTGAAGAGTCCCTTAATATGTGGTGGAACAGGCCAGGAGTTAGAGAAAGGGCTGGC
TTCTGTTTACCTGCTCACTGGCTCTAGCCAGCCCAGGGACCACATCAATGTGAGAGGAAGCCTCCACCTCATGTT
TTCAAACCTTAATACTGGAGACTGGCTGAGAACTTACGGACAACATCCTTTCTGTCTGAAACAAACAGTCACAAGC
AAAGGAAGAGGCTGGGGGACTAGAAAGAGGCCCTGCCCTCTAGAAAGCTCAGATCTTGGCTTCTGTTACTCATAC
TCGGGTGGGCTCCTTAGTCAGATGCCTAAAACATTTTGCTAAAGCTCGATGGGTTCTGGAGGACAGTGTGGCTT
GTCACAGGCCTAGAGTCTGAGGGAGGGGAGTGGGAGTCTCAGCAATCTCTTGGTCTTGGCTTCATGGCAACCACT
GCTCACCCCTTCAACATGCCTGGTTTTAGGCAGCAGCTTGGGCTGGGAAGAGGTGGTGGCAGAGTCTCAAAGCTGAG
ATGCTGAGAGAGATAGCTCCCTGAGCTGGGCCATCTGACTTCTACCTCCCATGTTTGCTCTCCCAACTCATTAGC
TCCTGGGCAGCATCCTCCTGAGCCACATGTGCAGTACTGGAAAACCTCCATCTTGGCTCCAGAGCTCTAGGAA
CTCTTCATCACAACTAGATTTGCCTCTTCTAAGTGTCTATGAGCTTGCACCATATTTAATAAATTGGGAATGGGT
TTGGGGTATTAATGCAATGTGTGGTGGTTGTATTGGAGCAGGGGGAATTGATAAAGGAGAGTGGTTGCTGTTAAT
ATTATCTTATCTATTGGGTGGTATGTGAAATATTGTACATAGACCTGATGAGTTGTGGGACCAGATGTCTCTCT

4572/5332
FIGURE 3984B

GGTCAGAGTTTACTTGCTATATAGACTGTACTTATGTGTGAAGTTTGCAAGCTTGCTTTAGGGCTGAGCCCTGGA
CTCCCAGCAGCAGCACAGTTCAGCATTGTGTGGCTGGTTGTTTCCTGGCTGTCCCAGCAAGGTAGGAGTGGTG
GGCCTGAACTGGGCCATTGATCAGACTAAATAAATTAAGCAGTTAACATAACTGGC

4573/5332
FIGURE 3985

GAGAGGCTGTTTACCAGAACAGCATAACAAGGGCAGGTCTGACTGCAAGGCTGGGACTGGGAGGCAGAGCCGCCG
CCAAGGGGGCCTCGGTTAAACACTGGTCGTTCAATCACCTGCAAGACGAAGGAGGCAAGGATGCTGTTGGCCTGG
GTACAAGCATTTCCTCGTCAGCAACATGCTCCTAGCAGAAGCCTATGGATCTGGAGGCTGTTTCTGGGACAACGGC
CACCTGTACCGGGAGGACCAGACCTCCCCCGCGCCGGGCCCTCCGCTGCCTCAACTGGCTGGACGCGCAGAGCGGG
CTGGCCTCGGCCCCCGTGTGCGGGGCGCGCAATCACAGTTACTGCCGAAACCCGGACGAGGACCCGCGCGGGCCC
TGGTGCTACGTGCTAGTGGCGAGGCGGGCGTCCCTGAGAAACGGCCTTGCGAGGACCTGCGCTGTCCAGAGACCACC
TCCCAGGCCCTGCCAGCCTTCACGACAGAAATCCAGGAAGCGTCTGAAGGGCCAGGTGCAGATGAGGTGCAGGTG
TTCGCTCCTGCCAACGCCCTGCCCCGCTCGGAGTGAGGCGGCAGCTGTGCAGCCAGTGATTGGGATCAGCCAGCGG
GTGCGGATGAACTCCAAGGAGAAAAAGGACCTGGGAACCTCTGGGTACGTGCTGGGCATTACCATGATGGTGATC
ATCATTGCCATCGGAGCTGGCATCATCTTGGGCTACTCCTACAAGAGGGGGAAGGATTTGAAAGAACAGCATGAT
CAGAAAGTATGTGAGAGGGAGATGCAGCGAATCACTCTGCCCTTGCTGCTTCACCAACCCACCTGTGAGATT
GTGGATGAGAAGACTGTCGTGGTCCACACCAGCCAGACTCCAGTTGACCTCAGGAGGGCACCACCCCTTATG
GGCCAGGCCGGGACTCCTGGGGCCCTGAGCCCCCCCCAGTGAGGAGCCCATGCAGACACTGGTGCAGGACAGCC
CACCTCCTACAGCTAGGAGGAACCTACCCTTTGTGTTCTGGTTAAAACCTACCCTCCCCCGCTTTTTTGGCG
AATCCTAGTAAGAGTGACAGAAGCAGGTGGCCCTGTGGGCTGAGGGTAAGGCTGGGTAGGGTCTTAACAGTGCTC
CTTGCTCCATCCCTTGAGCAGATTTTGTCTGTGGATGGAGACAGTGGCAGCTCCACAGTGATGCTGCTGCTAAG
GGCTTCCAAACATTGCCTGCACCCCTGGAACCTGAACAGGGATAGACGGGGAGCTCCCCAGGCTCCTCTGTGCT
TTACTAAGATGGCCTCAGTCTCCACTGTGGGCTTGAGTGGCATACTGTTATTTCATGGTTAAGGTAAAGCAGGT
CAAGGGATGGCATTGAAAAATATATTTAGTTTTTAAATATTTGGGATGGAACCTCCTACTGACCTCTGAGAAC
TGGAACAGAGTTTGTACAGAAGTCAGAACTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGCTGGTATGCTTCA
GCTTGCTGGCAATGATGTGCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCTGTTTCATAAGGAA
AGGAAGAATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGCTTTGGCCACAGGAGCA
GAGGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGATAGTGACCTGTCTTCATTTGACAGGTAAGAGA
GTAGTTAGCTAACCTATGGGAATTATACTGTGGGGCCTTGTGAGCTGCTTCTAAGAGGCTAACCTGGAACTAAG
CTCAGAGGCAAGGTAATAAGCACTTCAGGGCTTGCTCCCCAAGTGGGCCTGATTTAGCAGGTGGTCTGCGGGC
GTCCAGGTGAGCACCCTCCTGTAGGGCACTGGGGCTAGGGTCACAGCCCCTAACTCATAAAGCAATCAAAGAACC
ATTAGAAAGGGCTCATTAGCCCTTTTGGACACAGGACCCAGAGAGGAAAAAGTACTTGCCCAAGGTGCTAAGC
AAGCTACTGGCATGGCAAGAGCCAGCTTCCTGACGGAGCGCAACATTTCTCCACTGCACTGTGCTAGCAGCTCA
GCAGGGCCTCTAACCTGTGATGTCACACTCAAGAGGCCTTGCGAGCTCCTAGCCATAGAGCTTCCTTTCCAGAAC
CCTTCCACTGCCCAATGTGGAGACGGGTTAGTGGGGCTTTCTATGGAGCCATCTGCTTTGGGGACCTAGACCTCA
GGTGGTCTCTTGGTGTAGTGATGCTGGAGAAGAGAATATTACTGGTTTCTACTTTTCTATAAAGGCATTTCTCT
ATATACATGTTTTATATACCTCATTCTGACACCTGCATATAGTGTGGGAATTGCTCTGCATTGACTTAATT

4574/5332
FIGURE 3986A

GCTCGCGCTTTTCTCTCCTTCTCCAAGATGGCGGCGATCGGCGGCGTTGAGGCGGGATCCGGGCGAGCCGAGTGA
AGACCTGGTCTCTGTAGACGGGAAGGAGCCTGGACACAGTGACACATTCTCAAAGGCCCTGCAGGACCACCATGGC
TTATGATGACTCCGTGAAGAAAGAAGATTGTTTTGATGGTGATCATACCTTTGAGGACATAGGACTTGCAGCTGG
CCGAAGCCAACGAGAGAAAAACGTTCTTACAAAGATTTTTTAAGGGAAGAGGAAGAAATTGCTGCTCAGGTCAG
GAATTCTTCCAAGAAGAAGTTGAAGGATAGTGAACCTTACTTCTTGGGGACGGACACACACAAGAAGAAGAGGAA
GCACTCCTCTGATGATTACTAQTATGGAGATATTTTCGTCTTTGGAATCGTACAGAAAGAAAAAGAAAAAGTCCAG
CCCACAGTCTACTGATACAGCTATGGACCTGTTGAAAGCTATCACTTCCCCACTGGCAGCAGGCTCCAAGCCCTC
CAAAAAGACTGGGGAGAAATCCTCTGGCTCTTCAAGCCATTTCGGAGAGTAAAAAGGAGCACCACAGGAAGAAAGT
CAGTGGAAAGCAGTGGGGAACCTACCCCTAGAGGATGGTGGCTCCCAACAAATCGAAAAAATGAAACCTCTCTATGT
GAACACAGAGACACTGACCCCTTCGGGAGCCTGATGGTTAAAAATGAACTTATTCTGTCACCAAGGAGAAGGG
AAGCAGCTCTGTTGATGAGGAGTCTTTTCAATATCCCTCCCAACAAGCGACTGTGAAAAATCCTCAAAGAAATC
AGCTCGGGATGAGCAGGGTGCTTTTACTCTTAGGACATGAGTTACAGAGCTTTCTGAAAACAGCCCGGAAAAAGCA
CAAGTCATCCTCAGACGCACATTCATCTCTGGCCCTGAAGGCTGTGGGTCTGACGCCTCCCACTCCAGAGCTC
CCACAGTGCTAACCTTGATCTTTTCAAGGCTTGAACCTATTCTGGTAGAATCAGACTCATCCTCTGGTGGGGAACCT
AGAGGCTGGGGAGTTAGTGATGATTCTTACCGAGAAATCAAGAAGAAAAAGAGTCAAAGAAGAGCAAAAA
GAAGAAAGACAAGGAGAAGCATAAAGAGAAGCGACACTCCAAGTCCAAGAGAAGTTTAGGACTTTCTGCCGTGCC
AGTGGGAGAGGTACAGTGACATCTGGCCCTCTCCAGCATCCCATACGCTGGAGCAGCAGCACCTCCCTGCC
ACTTCTGGCCCTCCACACAGATGGGCATAGTGAAGAAAAAAGAAAAAAGAGAAGGACAAAGAGAGAGAGAG
AGGAGAAAAAGCAAAAAAGAAGAACATGTCCGGCTACCAGGTGTTCTGTAAAGAGTATCGCGTGACCATTGTGGC
TGACCATCCAGGTATAGATTTTGGGGAACCTTAGTAAAAAACTGGCTGAGGTGTGGAAGCAATTACCAGAAAAAGA
CAAAGTGAATTTGGAAGCAAAAAAGCTCAGTATCTGCAGCACAAACAGAACAAAGCAGAAGCCACAACCTGTGAAAAG
GAAAGCATCCAGCTCAGAAGGTTCCATGAAAGTCAAAGCCTCTTCTGTAGGAGTACTGTCACCCAGAAAGATC
CCCACCCACCACCATGCTGTTACCAGCCTCACCAGCCAAAGCCCTGAGACAGAGCCCATTGATGTTGCTGCTCA
TCTTCAGCTGTTGGGAGAGTCCCTAAGCCTCATTGGACACCGTCTGCAGGAACTGAGGGTATGGTGGCTGTGTC
TGGCAGTTTGTGCTGCTTCTGGATTCCATTATCTGTGCCCTTGGCCCTTGGCATGTCTCACCACACAACCTACC
TGAATTGAATGGCTGTCCCAACAGGTCTTGTCAAACACATTAGACAACATTGCTTACATCATGCCGGGACTGTG
ACAGCAAAAGAAATCCTGGGACAGAAACCTTATCCTACACCATTGCTGGTTTGTGTATATATGACTGTTGCAGATTC
CTTCAGTGGCCTCTGGCTGTAGGTTTTAAATTTTTATATCTATACATATATATATATATATATATATATATATAT
ATATATACATAGACTGTAACCTACTTTGCTTTTAAATAATTTATGAAATGGCAAAGGTTTAGCCAAGAGGAAATTT
TGGCATGAATACAGGCTTGGGATTCTTTTTCTCTGTGGTGGATAAATCTGCCTTAAAAATCAATGTAACCTGG
GGGCTGGGGGCTTGTCTGGGTGCCAAGCGCATCTCTTATGGACAGCTAAAATGTGATTATTTTCCAAGCTCAG
TTGGACCTCCAGACCCATCACTGACCATTTCCTTACCTGTCTTAGTCTGAAATGTAATAGGAAAGATAACGGGA
AGATGCCAGTTGACTGAAAATTCAAAGCCTTTCAATTTGAAGTGACCTAGGTGGGAGGTGATAAAATTTGTCCC
TTTATAGTTATGGAAGTGGCTTAGGTGAATTGAGTAGAGGTTTCAATTCCTACTGTATAGGTGTCTGTGT
CTCAAAATTTATTGTAATCATTGGTACCATTGGTGGCTCAACAGAGGCCAAGGAGTTCTGTGAGCCCTGGCAGC
AAAAACACCTTGGGGGGTGAAGCTGTCAATGCCACCAGTTGGACCTCCATACATTCTGAGCTAACCCAGAATCT
TTAGTCGGCAGAATTAAGTGCTGGTGTCTTTCACTGGCAGCATGAAGTTAGCCACCAAGTCCTCACAGCCGTGC
TGCTTAGTTGCTCGGTGGTTATGGATAAATTTGCCAGCATGATTTTTGGGTTTCATCTTATCAGTTCCCTGGT
GGGCAGATACACAGTGTTCTGCATTCCACATGTAAGTGAATTGCAAAAAACAAAACAAAACCTCACTCTCTTGTAGG
TTTATTTATGTGTGTGTGAATGTGTATTTTAATTATGTGTATTTAACTCTTTAAATCTCTTAGATTTTAAATTA
TCCTGTAAATTTCTGTATATATAATTTAATAACAGAAGCCTCCACCAGCAACAGCATGTGGAAGATACAGATTG
TCATTTCTCCCTTCCGCCCTCCCTTCTTTCTTCCCTTCCCTGTTTCCCTTCCCTTCTTCTTCCCTTCCCTCCT
GGTCTGTTCCAAAAACTCTGAATCATCTACATTTTAAGGTATTTTACCTCAAAAATGAATCATTGTGTTAGGATT
CTAATTTCTTTATAAAGAACTTCATGGGCTTCAATAATGTCTAGAAAGTAAAAATAAGAGGAATGTTACCATCCCC
AGCTGCCCTTATTTCCAGAGAACCAGACGTTTGTTCAGTTGGAAAGAAGACAGTTGAGCACTTCAGGATGGT
TTTTAAATTTGGTATGAGATTCTCTGCCAACCAAGCTCTGAGTTAACTGTGCTTTCTTCTCTGGCCCTGACA
GAGCACTACAGCATCAAAGTAAATCTTTGGGGACAGTGTAGCCCATCTGCATCCTATTTAATTTCTTCCCTTCTC
CCCACAGTGTTGTACAGGGCTATGTTGCTTAAAGGTAGTCTGGCTGCTGAATCCCTTTCTCAGCTCAGAGCAG

4575/5332
FIGURE 3986B

TTTAAAGATTTAATTGGGAATACAGAGAAACAGGATTGTTTGAGAACCAAAATCAAGAGGAACAGAAATCTTAAC
TTGATTTTCATGTGTTAGAACATTGTACCATGCCTCTTCTGTATCTGTGGAAGTTTCCTGTTTGACACAGGGTATC
TAGGAGGGGCGGGGAAGACATGGATAGTATAGGAAGACATTAATCCTAGCATTGTCATTTATATACATTAATGAA
ATCCTGATGAGGACCTGCTTTTGTGTTGTTTCCTTTGAAACCCAGCCCTATTGTATTGTATTTAAATTTGTA
CACATTTGTATAATAATCTGTACCTTGTGGTATTTGGTACTATTAGAGGAAAACTTTGGATTCAGACCTTCTTG
CAGTTTTTATATCATTGTTTTATTTGTTTTTAAATAAATTCTAGTGGTTTGATCCAAATCCCATTACAGTTGT
ATAAAGAAATAAAATTTGTACTTATATTATTAATAATCACATTTTAAATATTGT

4576/5332
FIGURE 3987

GGTGGCGCTGGCGGTTGCTGTCTAGCTGATTCCCGGGGTTGGTGGCAGCGGCGGTAGCAGCAATGGACTTTCTCCT
GGGGAACCCGTTTACGCTCTCCAGTGGGACAGCGCATCGAGAAAGCCACAGATGGCTCCCTGCAGAGCGAGGACTG
GGCCCTCAACATGGAGATCTGCGACATCATCAACGAGACGGAGGAAGGTCCCAAAGATGCCCTCCGAGCAGTAAA
GAAGAGAATCGTGGGGAATAAGAACTTCCACGAGGTGATGCTGGCTCTCACAGTCTTAGAAACCTGTGTCAAGAA
CTGCGGGCACCCTTCCACGTGCTGGTGGCCAGCCAGGACTTCGTGGAGAGTGTGCTGGTGAGGACCATCCTGCC
CAAGAACAACCCACCCACCATCGTGCATGACAAAGTGCTCAACCTCATCCAGTCCTGGGCTGACGCGTTCCGCAG
CTCGCCCGATCTGACAGGTGTGGTCACCATCTATGAGGACCTGCGGAGGAAAGGCCTGGAGTTCCCCATGACTGA
CCTGGGACATGCTGTACCCCATCCACACACCCAGAGGACCGTGTTCAACTCAGAGACACAATCAGGACAGGATTC
TGTGGGCACTGACTCCAGCCAGCAAGAGGACTCTGGCCAGCATGCTGCCCCTCTGCCCGCCCCGCCATACTCTC
CGGTGACACGCCCCATAGCACCAACCCCGGAACAGATTGGGAAGCTGCGCAGTGAGCTGGAGATGGTGAGTGGGAA
CGTGAGGGTGATGTGCGGAGATGCTGACGGAGCTGGTGGCCACCCAGGCCGAGCCGCGAGACCTGGAGCTGCTGCA
GGAGCTCAACCGCACGTGCCGAGCCATGCAGCAGCGGGTCTGGAGCTCATCCCTCAGATCGCCAATGAGCAGCT
GACAGAGGAGCTGCTCATCGTCAATGACAATCTCAACAATGTGTTTCTGCGCCATGAACGGTTTGAACGGTTCCG
AACAGGCCAGACCACCAAGGCCCAAGTGAGGCCGAGCCGGCAGCTGACCTGATCGACATGGGCCCTGACCCAGC
AGCCACCGGCAACCTCTCATCCAGCTGGCAGGAATGAACCTGGGCTCCAGCAGTGTGAGAGCTGGCCTGCAGTC
TCTGGAGGCTCTGGTGCAGTGAAGATGAGTTTGACATGTTTGCGCTGACACGGGGCAGCTCACTGGCTGACCA
ACGGAAAGAGGTAAAATACGAAGCCCCCAAGCAACAGACGGCCTGGCTGGAGCCCTGGACGCCCCGGCAGCAGAG
CACTGGCGCGATCCAGTCACCCAGGCCTGCCTCATGGAGGACATCGAGCAGTGGCTGTCCACTGACGTGGGTAA
TGATGCGGAAGAGCCTAAGGGGGTCACCAGCGAAGAATTTGACAAATTCCTGGAAGAACGGGGCCAAAGCCGCGGA
CCGATTGCCCAACCTCTCCAGCCCTCAGCTGAGGGGCCCCCGGGTCCCCATCTGGCCCAGCGCCCCGGAAGAA
GACCCAGGAGAAAGATGATGACATGCTGTTTGCCTTATGAGTGTGGGGTCTGGCACCCCTGCAGCCCAGGTCCCCA
CTGCTCTCACACCCTTAGGCTGGGACCTCCCTCCCTCCTCTGGTGTTAAGGCTGCTTTGGGGGTGGCTGTACC
CCCTTTTCTCCTCTTTGAAGACGGAGCTGCCCCAGCTGTGGCTGGGGGTGTGGAGGCAGTGGGATGAAGTGGGG
GACAGGTCTGCGCTGCAGTGGGATCTGGCTGCTCTGCTCCTTTCCACCCAGCTGACCATGAGACTTTGCTGA
GAAGTGGAGGCCCCAGGACAGGCTGGCTGGCTGGCTGGCTGCTTGACCCAGTGTGACTCTCCTTCACTGAGTGAT
ACCCTGCTCCGGGCCCCATGCCCCAAGGAGCCCTTCAGAGCCCACACTGCCAGTCGAGGCCTGGCTGGAGGCTGGC
CACAGTGGAATTCTGCCGAGCCTCTTGTCCCTTCCCTGCTCTGCTGCATGGGGCCCCATGGCTTTGGCTGGCCA
CTGAGGGTAGGGTGTGGAGGTGTGGAGGCCCTGAGGAGCTGCGGCGGCCAGGTACGAAGCTGCAACTCTGCG
CGCAGTGGGCGAGATCTCATCAGCCCCAGGCTGCAGGTGAGGCTTCAGGGGATGCTGGGGCCCCACTGCCCTCC
GCTGCCTTGCCCTCCATCCTTCTCTGTTCCCTTCGGCCGGGCACACAGCACTGGGGCTCACCTCTTGGTTGAT
CCTCTTGTAAGTGGGAGAGGTGCCTTTTGTATCCCCAATTAAAGGTAGAAAACACCCTGCT

4577/5332
FIGURE 3988

TCAACGCCTGCCTCCTCTCGAGCGTCCTCAGCGCAGCCGCCGCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTTCAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTCAGAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCCTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTTCATCCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCGAGCTGCTGGTGGCCCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCAGCTCTGGCGAGGGCCTGGCCTTCTTCACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTACGGGCACCCAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCCAGAGGGAAGCCCCCACTCAACACCCGCTCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCCAGGGCCAT
GAACTTTGTCCGGTGGAAGGCCTTCTTCTAGAGAGGGAATTCTCTTGGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTTCAGGGCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAAACTTCAGAGGGGGCGAAGGGATCAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTTCCCCGTGGGCCATGGCAATTTTTACACAAACCTGAAAAGATGTTG
TGTCTTGIGTTTTTGTCTTATTTTTGTGGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTTGTTG
TGTTCTGTTGTTTTTATAGCAGGGTTGGGGTGGTTTTTGAGCCATGCGTGGGTGGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

4578/5332
FIGURE 3989

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGTCTCCCC¹TGGTTTGTGAAGTGC GGAAAACAGAGG
CGCAGTCAATGTCGGGATTTCGACGATCCTGGCATTTTCTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGA
GGGGCAGGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTCATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTCGTAGCCTGAAGTCGGACATGATGTCACACCT
GGTGAAGATCCCCTGGCATCATCATCGCGCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTCACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGGACCCGTACTTCATCATGCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGTCAGTCCCCCACGGGGAGATGCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGGTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGCCGTGACAGGGTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTTGGG
CATCCAGGTGGACAGATGGCTCTGGCCGCGAGCTTTGCTGGGGCGTGAGCCCCAGGAGGAGGAGGAGTTCCG
TCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCATCTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCGACAGA
CATGAAGAAGGCCATTGCGCTGCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGTAGGGGACCCTGGGACAGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTT
TCCCATTTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCCTC
GTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGTCTCGCCGATGGTGGGGTGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACCTCCGCTGCTCCGTCTGGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTCATGCCCACCATCTTGTGCGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTTCATCACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACCGCTACATCATCATGCGGAGCGGGGCCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGCGAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTTACCGCCTCAAGTGAGTCGCGCCGCTCACTGGACTCATGGACTCGCCCACGC
CTCGCCCCCTCTGCCGCTGCCTGCCATTGACAATGTTGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCTGCTGCTCTGGGCGCCCGCCTCTAGCGC
GGTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTTCAGGT

4579/5332
FIGURE 3990

GGAGCCCATGATTTTCTGGAAGAGCCCTAGAGCTTTGCTTTTTCTCTCCTGCAGCACTTAACCGAAACCAGTTTT
GCAATCAATTCCTGTTCAAAGGCCACCCTACTCTTCTATCCGTCTTTCTCCAGCCAGACACTCACAGCCCCCT
GCCAGACCAGGGGACCTCGGAGAGGCAAGGACAGAGGTTTCTCTCTCCCTCGGGACCCAAGGCCACAA
AGGAGAGCTCCGTGGAGAGAAGAAAATCATTGTACTCTGGGGACACAGATTTGCTGCCACAGAGGCTGATGGAC
AACCAGGCGGAGAGAGAAAGTGAGGCTGGTGTGGTTTTGCAAAGGGATGAGGATGACGCTCCTCTGTGTGAAGAC
GTGGAGCTACAAGACGGAGATCTGTCCCCGAAGAAAAATATTTTTGAGAGAATTTCCAGATTGAAAGAAGAT
CTGAAAGGGAACATTGACAAGCTCCGTGCCCTCGCAGACGATATTGACAAAACCCACAGAAATTCACCAAGGCT
AACATGGTGGCCACCTCTACTGCTGTCATCTCTGGAGTGATGAGCCTCCTGGGTTTAGCCCTTGCCCCAGCAACA
GGAGGAGGAAGCCTGCTGCTCTCCACCGCTGGTCAAGGTTTGGCAACAGCAGCTGGGGTCAACAGCATCGTGAGT
GGTACGTTGGAACGCTCCAAAAATAAAGAAGCCCCAAGCAGGGCGGAAGACATACTGCCACCTACGACCAAGAG
GACAGGGAGGATGAGGAAGAGAAGGCAGACTATGTACAGCTGCTGGAAAGATTATCTATAATCTTAGAAACACC
TTGAAGTATGCCAAGAAAAACGTCCGTGCATTTTGGAACTCAGAGCCAACCCACGCTTGCGCAATGCTACCAAG
CGTCTTCTGACCACTGGCCAAGTCTCCTCCCGAGCCGCGTGCAGGTGCAAAGGCCCTTGCGGGAACAACACTG
GCGATGACCAAAAAATGCTCGCGTGTGGGAGGTGTGATGTCCGCCTTCTCCCTTGGCTATGACTTGGCCACTCTC
TCAAAGGAATGGAAGCACCTGAAGGAAGGAGCAAGGACAAAGTTTGCAGGAGGTTGAGAGCCAAGGCCTTGGAG
CTGGAGAGGAACTCACAGAACTACCCAGCTCTACAAGAGCTTGCAGCAGAAAGTGAGGTCAAGGGCCAGAGGG
GTGGGGAAGGATTTAACTGGGACCTGCGAAACCGAGGCTTACTGGAAGGAGTTAAGGGAGCATGTGTGGATGTGG
CTGTGGCTGTGTGTGTCTGTGTGTCTGTGTGTATGTACAGTTTACATGAATGTTTCTCAGGACATGGCATA
ATGGCCTTGGAGGTCCAAATAATATCAAGTACATCTTGGAGATGAGGGTGCCTGTCTGGACAGACCTCGGCATG
CCTTCTGTTTCTCCTTCAATGCTCCTTAAGGCCTATGTGCTGGGAAAAGGGTCTTCCCTGTTTGTGTGTGTGT
GTTTGT
AAAAGAAGAAGATACAGTCATGTATCTCTTGGTGACAGGGACGCATTCTGATAAATGTGTCTATTAGGCAATTGC
ATTGTAGTGTGATTATCACAGATTGTACTTATACAAAACCTTAGATGGCATAGCCTACTGCATACCTAGGCTATAT
GGGAGAGCCTATTGCTCCAGGCTACGCACCTGTACAGCATGTGACTACTGAATACTATAGGCAATTGCAGCACA
ATGGGAAATATTTGTGTATCTAAACATATGTAAACAGAGAAAAAGGAAAGTAAAAATATGGCATAAAAGATAAGA
ATTGGCTCTCCTGTACAGGGCACTTACTACGAATGGAGCTTGCAGGGCTGAGAGTTGCTCCAGATGAGTCAGTGA
GTGGTGAATGAATGTGAAGGCCTAGGGCATTACTGTATACTACTGTAGGCTTTATAAACACAGCACACTTAGGGT
ACACAAAATGCATATTAACCATTTTTCTTCTTCTCAGTATATTAGGCAATAGGAATTTTTCAAGTCCACTATAAAT
CTTATCAAACCATGGTTGTATATGCAGTTGACCGAAACATTGTTATTGGACACATAACTATAGTTGAAAGAATAA
GCAAAAAGTCTATCTAGGTGTGCTGTCTTGAGCAACTTTTAATTATTCTCCTGTCTGCAATATGAGTTAATCTT
CTCTGATCGATGTAGATTCCAGGAAGGGGTGTCCAGGACAATTACCTTCTCTGAGAAACTTCCCTTAATCAA
ATAAGAGAACTTCAAAGAAAAATCCCTCCCTGTGCTTTGGAAGGGAAGGGAGGTGGGCAGCAGTGGGTGAGAGATA
GACCTTTGTTCTCTTATTTCTGAGGCCCTTCAGTCTCCTTTATTCAAAGCACTCAGCATGCCAAAGCACCCCTATT
TTAGGGTATCTTTTTCTGAGCCCTAAACACTGTGTTGGGGATGTCAACTGTGACAGGAAAATATCTTGGGGCCCC
AGAATCACTAAGGAAAACCTAAGCTTAGGGAACTTCTTAGGGCAAACCCACCTCCCACTCTATTCAAAGTTATC
TCTCTGCTCACTGAGATAGATACATATCTGATTGCCTCCTTTGGAAGGCTAATCAGAACTCAAAGAATGCAA
CTGTTTGTGTCTCACCTATCTGTGACCTGGAAGCTCCCTCCCCACTGAACCAATGTTCTTCTTACATATATTGAT
TAATGTCTTATGTCTCCCTAAAATGTATAAAACCAAGGTATGCCCCAACCATCTTGGCCACATGTCTCAGGACT
TCCTGAGTCTGTGTACAGTGTGTCTCAACCTTGGCAAATAAACTTTCTAAATTAAGTACAG

4580/5332
FIGURE 3991

GGGCAGGGAGGATTTTGCTTTTGCTTTTGCTTTGAGGGAGAACTTTAGCTGACTAAAAAACAGAAAGTTTGGGGT
CATGATCACAAAGGGGCCATTCCCAAAAGATGGCAAGCCACGTATTCAGTGGAGACTAGGCCAAATTCTAAATGG
TTTTATCCATAGCAGGGGAGAATAGGAGAATGAGTTTAAGAGTTTTTCTCTCTTTTTTCCCTAGAAAGAGGTAAG
GATAATGGGAAAGGTAGAGAAGGCGGCTCCCAACAGACCTTTTAAGAGAGGCAGAACTTGAGCTTGAGGCACCTT
GAGTGCATCTCAGTTCAGCTGGTTCTGGCTGAGGCCTCCAAAGGCAAGCTCTGTGCTTCCAGTGGTTTCTGCTG
CATTTCCAGGGATGGTGTTTAACACCGCTTCCCTCCAGCTCCCTTTTCTAAGAAAGAATAAATGGAGTTCTGCTTT
TTATGAAAGGGTCTTTGGTTTTTCAGTGTCAACACTGAGAATTGGGGCTCTTGCAAGCATCTGGATTTACAGTAT
CAACCTCCCCGTCACCTTTTGAACCTTGAGACTCCGTACGGTCAACTTCACCAGAGGCAGGTTGCTCGAAGCAGC
ACTGCTTGTCTGTTTCCGTGACTCTGGTTCTCACTGTATTAAAAAGAGAGTCAGAGGAGTCTGGCATTTCGTGAGT
TTGTTAGAGGATGCTGGCTGATAATTCCAGAAAACCTTACTGATGCTAAATCACAGTACATGCATGATTCTTTTTTC
AGCTTTACTATAGTTTCATGACCTGGACTTTCTGTACTCTTGGAAGCTGGGCTCCTTAAAGGAGGCCTCTAGTGAA
CACCTTTATCTCCATGTCCCTCTTAGAGCCCAGAGAGCTGCCCATAGGCATTTTCCAGAATTCCCTCATGTACCT
AGTTCAATTTCCATTAACTCAGATCAGCCATTGTGATTACCATTTGTCAGGCTCTCAGGTTTAAACAAAACCTAC
TATCACCATCATCCTTCAACAGCCACAGTCTGAATTGAGCCAACATTTTTTTTTCTTTGAGAAAGAAGTGGACTG
GGGCACAACTTTTAGTCTGAGGGGAGCTAGTGAAATCTAGACAATAGAAGTCATCGATAGCAGCTTTTCTCAA
ATGTGTGACTCCTCAGGGGCTAAACTGCTCTTAGCTTAGAATTATGCTTTACTAGAGATCTAGCAGATAAGTGGG
TTAATCACTACCATCCTGTAACTAGTTATATAGCTTCCAGACATGAGGGAGACATCAACAGGGATGGAAGCAAC
CCCAAGGATATGCAAGAAGGGCATGATGAACCCCTTCCCTCTGGCAGGAGAAACAAGGCCAACCAAGGGACAGAC
TGGAAGCACCTTAGATGTTTAAAGGAGGAGAAAGGGGAAGCTTTGACCAGTCCCTTGCTTTTGCCAAGTTCAGCCA
GTTCTCCGCTGCTTGCAACCTTAGCGCAGTAACATTTGCAGAATTGCAGATTTTCCCCAGATACTAGGAGGAA
AGGGACTTTGGGGGTGGGGAGGGGTGCTGGTGTTTTAAAGCATAAGTTACCTGTTTGCAGTGTTTTAAAGATA
GGAAAAAAAATAGTGGGCAAGGTGAACATCAGACGTAAATTTGTGTGTTTTTATTTTGTGATGCTCTTGAAAAT
GTTTGACCATTTGTAGTATACACAGTGAAACTTGATTCTCTGTTGCATAAAACACTATATTTTTTTGAAAATGTT
ACTGTCCAAAAGCCTCTTCCCTCCCTTTCTTTTCTATGTACTTCCCTCATACTTGCTTTACTGATCAGCCAGG
CAATAGCCATCCAAGAGCTAGAGCATGAAACAGGGCCCTTTCCAAGTAGGCTCTGGGTGTCCTAAGCCAGCGTGT
GCCCTCTGGTTTAGTGAGTGAATAGAGTCCCTGGCACCTTTCTTTGCAAATGAGGCTAACAGACCAGACTGCAG
CAAGTTATCAGATTCCCTCAATCAGATGCACTAGGAGTGAGGAGCCCAGGGATGGAGGGGGTTCCCTGAAGTATTGC
AGTTGGCTGTAGTAGCTGAGTTCTTTCCATGTTACCGAACTGTAGCCAGTTACAGTTTACTCAGGAAAACGGT
AGATCAATTACGCCATGGTAGTGCTGGTTGGCAGGGATTGGTAACGGAGAGAACTGCTCATCAGCCAAAACCTCAA
GCCTTGCCTTTTAGGAGGCCACCAGCAGAGGGACTTGGTCCCTCTTGTCTGGTACTTGTGTACATGCCGGTGACC
TGAGGACTCCACTCACACTGGCGAGCAAAAAGGGAGCAGTGATTCTCTTTTCTCTCCCCACCCCTGCCCCTTGT
TACCAACACCAGTTTCCAGGGGTACATGAGTTTCTGAATTTTTAAAAAATGTTTTTGGTTTTGGTTTTTCTGGG
GACTGATAAGTGCTTTAAGCAATGTCCATACCCCGTCAAGACTCCCAGCTTAGTCATTTTCTTGATTTTTTCTGT
TCACAGTATTTGTGTGTGTGCTTGTTTTGGCAGCTCATTTTGGCTGTATTATATATTGAGTGATGAATTGATCCT
CTTTTTTCCCTAAGGGATATGAATTGTTTTTCTTGTTTATATTCTGCTTGTGAATAGCTGGAGCAAACCTGGGG
CTGACACGCGTAAGCTAGGGCTGCAAAGCGAGAAGAGAGCCGGTGGAGTGTACTTGTCCCTGACAGGCTGACCTA
CCTGAGTCTCTGAGCTTTTCAGTCCAAATCTTTGCAAGGCTCAAAATGCCACAGAACCTCTCTCTTCTCCCCAC
TCCCCATGGCAGGGACCGGACCATCCCTACATGCAACATGCTGTTCCTCCAGCCCTCCCATTGCCATGGCAAAA
CAGGTACCTTTGGGGCATGGGGGCATTACATGGGATGCTTGTGTAATCGACCACCTAGCCTTCTCTCTCCCTCC
CGTCTCCCCCAGAATCACTTCCTAGGACACCCGAGCTGCTTGCCAGGGTCTGTTTCCCTGCTAACTCCAGAG
AAGCATCCCAGGGCTTTGTGACAGTCTCTAATTCCTTCCCTTCTCGTTAAGAATCATATTGTATAGTAGCTTTC
AGACCATACAGTATTCAATTGGGTTACTCCTATTATTATCAAGTAGCTGGAATTGTGAAGGTCGGAGTAGTTAGAT
CTTTAGCTTTTTATTCTTTATTTTTTGTATTACTCTCCATGTGTATAAATTATTGATCATGTTGCTGGCTTTTAT
AAACTCTAAGCGAAGGAGGAGCACTGCCTCAGCCTTGCACATGGTAATGAAGCACTGTTTTTAAATAAAAGAGA
GAAACACC

4581/5332
FIGURE 3992

GAAGAAACATTAGAAAGAAAAAGGAAGGAAAAACGGTATAAAGAGAGATCAATTACCCACCCTTAAATAGCTAGAT
TGGGGGGGGAGGGGGGTGGAAAAAGAAAGCTGTGGAGGTGTGCCCCAGCACGGCTGCTTTGAAAGGTTTATCATCT
ATCCGTTTGGTTTATGGAGAAAAAGAAATGGTAACTCAGGGTAACCAGGAGCCGACAACAACCTCTGACGCAAT
GGTTCAGCCTTTTACTACCATCCCATTTCCACCACCTCCGCAGAATGGAATCCCACAGAGTATGGGGTGCCACA
CACTCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCACGGGGAGCA
GAGCAGCAACTCACCCAGCACACAAAATGGATCTCTTACGCAGACAGAAGGTGGAGCACAGACAGACGGCCAGCA
GTCACAGACACAAAGTAGTGAAAAATTCAGAGAGTAAATCTACCCCGAAACGGCTGCATGTCTCTAATATTCCTTT
CCGCTTCCGGGACCCTGACCTCCGGCAGATGTTTGGGCAGTTTGGCAAAATCCTAGATGTAGAAATAATCTTTAA
TGAACGTGGCTCTAAGGGATTTCGGGTTTCGTAACCTTTCGAGAATAGTGCTGATGCAGACAGGGCCAGGGAGAAAT
ACACGGCACCCTGGTAGAGGGCCGTAAATTCGAGGTGAATAATGCTACAGCACGTGTAATGACCAATAAGAAGAT
GGTCACACCATATGCAAATGGTTGGAAATTAAGCCAGTAGTTGGAGCTGTATATGGTCCGGAGTTATATGCAGC
ATCCAGCTTTCAGCAGATGTGTCCCTAGGCAATGATGCAGCAGTGCCCTATCAGGAAGAGGGGTATCAACAC
TTACATTCCTTTAATCATTCCTGGCTTCCCTTACCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCCA
TTTGAGGGGCAGAGGGCGGACAGTATATGGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCCGCCTATCCAGG
GGTGGATATGCAGCCTACAGATATGCACAGCCTGCTACTGCAACCGCAGCCACCGCTGCTGCAGCCGCTGCAGCC
GCTTACAGTGACGGTTATGGCAGGGTGACACAGCCGACCCCTACCATGCCCTTGCCCTGCCGCTAGCTATGGA
GTTGGCGCTGTGGCGAGTTTATACCGAGGTGGCTACAGCCGATTTGCCCTTACTGAAGTGACCTGAGACCCCTG
CAAATGGGACAGCCCCCAGTTTCATGAGGCCTGGCTATTGCAATATTTACTAGTAGAGGAACTCTATAGCAAGAT
GAAGAGGAAAAACAAACAAACAAACAAAAAACAACAAAAAGAAAGAATACTTTTTTATACCTCACTATGTT
CTTTGAATATGTATTTTTCTTTAAATTTCTGCCTTTAATCTTTTGTTCGAAAGATTGTGCATTTTTTTCTTTT
TTTTTTAAACTGTGGTAAAAAATAATGCATTTCCATGTCTGTATGTCCGTGCTTAGCTTATTCTAT
CAATCACGGAAGAGGCAGTCAAGGAGGAAGGAGAGACATTAGGAGCCGATAAATGCATCTGATCAGAAATCAGCA
GACAGAATTACCAAAGTGTATCTGGTGTGAATGACTGGGGGACAAGCAGAAGTGGAAGAGATCTTTCTGCAACA
GGATATTCCTTAGTCTTCTGAGTTTCTGGTCTTTGACAGGCAATTCTGGTTGGCTGTGGCTGGAATCCACATGC
TGATAGATAGGAATTTGTGCTTACAAAGCAGGAGAATTAAGACGCTTTCCTCTCCTC

4582/5332
FIGURE 3993

ATCAGACAGTAAACAGGGGCAGAGCCTGGAATTGCACTGAGGCTTGAGTCTGACTTCTCTCCCCACCTGCTGT
GCCCTTAAACTGCAGAGATCGGGGCGGGGGTTGGGGGGCAAGCGGCTCAGATGGGTTCAAAAAAGCTCCCCAGGCT
CAACTCTGGTTCTGACTGCCTGAGACATGGGCAGCTGACACAGCAGACCTTGAATCCTGAGGATGTGAGGCAGGG
TATATCTGGGAGGCCGGAGGACGTGTCTGGTTATTACACAGATGCACAGCTGGACGTGGGATCCACACAGCTCAG
AACAGTTGGATCTTGCTCAGTCTCTGTGACAGGAAGATCCCTTGGACAAGAGGACCCTGCCTTGGTGTGAGAGTG
AGGGAAGAGGAAGCTGGAACGAGGGTTAAGGAAAACCTTCCAGTCTGGACAGTGACTGGAGAGCTCCAAGGAAAG
CCCCTCGGTAACCCAGCCGCTGGCACCATGAACCCAGAGAGCAGTATCTTTATTGAGGATTACCTTAAGTATTTT
CAGGACCAAGTGAGCAGAGAGAATCTGCTACAACCTGCTGACTGATGATGAAGCCTGGAATGGATTTCGTGGCTGCT
GCTGAACCTGCCAGGGATGAGGCAGATGAGCTCCGTAAAGCTCTGAACAAGCTTGCAAGTCACATGGTCATGAAG
GACAAAAACCGCCACGATAAAGACCAGCAGCACAGGCAGTGGTTTTTGAAGAGTTTCTCGGTTGAAAAGGGAG
CTTGAGGATCACATAAGGAAGCTCCGTGCCCTTGAGAGGAGGTTGAGCAGGTCCACAGAGGCACCACCATTGCC
AATGTGGTGTCCAACCTCTGTTGGCACTACCTCTGGCATCCTGACCCTCCTCGGCCTGGGTCTGGCACCCTTCACA
GAAGGAATCAGTTTTGTGCTCTTGACACTGGCATGGGTCTGGGAGCAGCAGCTGCTGTGGCTGGGATTACCTGC
AGTGTGGTAGAACTAGTAAACAAATTGCGGGCAGCAGCCCAAGCCCGCAACTTGGAACAAAGCGGCACCAATGTA
GCAAGGTTGATGAAGGAGTTTGTGGGTGGGAACACACCCAATGTTCTTACCTTAGTTGACAATTGGTACCAAGTC
ACACAAGGGATTGGGAGGAACATCCGTGCCATCAGACGAGCCAGAGCCAACCCCTCAGTTAGGAGCGTATGCCCCA
CCCCCGCATATCATTGGCGGAATCTCAGCTGAAGGCGGTGAACAGGTTGAGAGGGTTGTTGAAGGCCCGCCAG
GCAATGAGCAGAGGAACCATGATCGTGGGTGCAGCCACTGGAGGCATCTTGCTTCTGCTGGATGTGGTCAGCCTT
GCATATGAGTCAAAGCACTTGCTTGAGGGGGCAAAGTCAGAGTCAGCTGAGGAGCTGAAGAAGCGGGCTCAGGAG
CTGGAGGGGAAGCTCAACTTTCTACCAAGATCCATGAGATGCTGCAGCCAGGCCAAGACCAATGACCCCCAGAGC
AGTGCAGCCACCAGGGCAGAAATGCCGGGCACAGGCCAGGACAAAATGCAGACTTTTTTTTTTTTTTTTTTTTTT
TTTTGAGATGGAGTCTCGCTCTATCGCCAGGATGGAGTGCAGTGGCTCAATCTCGGCTCACTGCAAACCTCGCC
TCCCGGGTTACACCATTCTCCGGCCTCAGTCTCCCGAGTAGCTGGGACTACAGGCACCTGCCACCACGCCCGGC
TAATTTTTTTGTATTTTCACTGGAGACGGGGTTTCACTGTGTTAGCCACGATGGTCTCCATCTCCTGACCTCGTG
ATCTGCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCAAAATGCAGACATT
TTATTAGGGGGATAAGGAGGGCAAGGTAAAGCTTATGGAAGTGAAGTGTAGTGACTTTGGCATTGTGTAGCTGA
GCACAGCAAGGGAGGGGTTAATGCAGATGGCAAGTGACCAAGGAGAAGGCAGGAACACTGGAGCCTGCAATAAG
GGAGGAGAGAGGACTGGAGAGTGTGGGAATGGGAAGAAGTAGTTTACTTTGGACTAAAGAATATATTGGGCGAA
GAATAGAGGGGGAGCTTGCAAGGAACAGCAATGAGAAGGCCAGGAAAAGAAAGAGCTGAAAATGGAGAAAACCAG
AGTTAGAAGTGTGGATACAGGAGAAGAAACAGCAGCTCCACTACCGACCCCCCCCCAGGTTTGATGTCCTTCCA
AGAATAAAGTCTTTCCCTGGTGATGGTCTCTCGCTCTGTCTTTCCAGCATCCACTCTCCCTTGTCTCTTGGGGG
TGTATCACAGTCAGCCAGTGGCTTCTTCATGATGGTGGTTGGGGTGGTTGTATGTGACGGGTCCCCTCCAGGTT
ACTAAAGGGTGCATGTCCCCTGCTTGAACCCTGAGAGGCAGGTGGTAGGCCATGGCCACAATCCCCAGCTGAGGA
GCAGGTGTCCCTGAGAACCCAACTTCCCAGAGAGTATCTGAGAACCAACCAATGAAAAAGTCCCATCGCTCTT
AGCCGGTAAGTAAACAGTCAGAAGATTAGCATGAAAGCAGTTTAGCATTGGGAGGAAGCACAGATCTCTAGAGCT
GTCCTGTGCTGCCAGGATTGACCTGTGTGTAAGTCCCAATAAAGTACCTACTCACCA

4583/5332
FIGURE 3994

ATGAGTGCACTTTTCTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGT
GGGACAGATACTGGAGATCCTCAAAGTAAGCCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCAGT
ATCTTTATTGAGGATGCCATTAAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTGCTGACTGAT
AATGAGGCCTGGAACGGATTTCGTGGCTGCTGCTGAACTGCCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCTG
GACAACCTTGCAAGACAAATGATCATGAAAGACAAAACTGGCACGATAAAGGCCAGCAGTACAGAACTGGTTT
CTGAAAGAGTTTTCTCGGTTGAAAAGTGAGCTTGAGGATAACATAAGAAGGCTCCGTGCCCTTGACAGATGGGGTT
CAGAAGGTCCACAAAGGCACCACCATCGCCAATGTGGTGTCTGGCTCTCTCAGCATTTCCTCTGGCATCCTGACC
CTCGTCGGCATGGGTCTGGCACCCCTTCACAGAGGGAGGCAGCCTTGACTCTTGGAACCTGGGATGGAGTTGGGA
ATCACAGCCGCTTTGACCGGGATTACCAGCAGTACCATGGACTACGGAAAGAAGTGGTGGACACAAGCCCAAGCC
CACGACCTGGTCATCAAAAGCCTTGACAAATTGAAGGAGGTGAGGGAGTTTTTGGGTGAGAACATATCCAACTTT
CTTTCCTTAGCTGGCAATACTTACCAACTCACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGA
GCCAATCTTCAGTCAGTACCGCATGCCTCAGCCTCACGCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGT
GAACAGGTGGAGAGGGTTAATGAACCCAGCATCCTGGAAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCCCT
GTAAGCTTCTTTCTTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCA
GAGACAGCTGAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAACAATAATTATAAG
ATTCTGCAGGCGGACCAAGAAGCTTGA

4584/5332
FIGURE 3995A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTAGGCCCTGTTCTGTGTGGTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGAGAACACCAAGAAGGTTCATCCAGTATCTGGCGTACGTGGCGTCTCGCACAAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACCTCTCCGCTTCGGCAAATTCATTTCGCATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTGGAGAAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAAGACGGACCTTCCAC
ATCTTCTATTATCTCCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTGGAGCCGTACAACAAATAC
CGCTTCTGTCCAATGGACACGTACCATCCCCGGGCAGCAGGACAAGGACATGTTCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCCAAGAGGAGCAAATGGGCCTGCTGCGGGTTCATCTCAGGGGTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCCAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTACAGAGGAATCCTCACCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCCTTGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGTGCTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCGGGCTTCGAGATCTTTGATCTGAACCTGTTTGAAGCAGCTGTGCATCAATTACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCTGGAGCAGGAGGAGTACCAGCGCAGGGGCATCGAGTGAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGAGCAG
GGCACCCACCCCAAGTTCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGGCTGATGAAGAACATGGATCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACCAGGTGGCC
GGCATGTGCGGAGACCGCACTGCCCCGGGGCCTTCAAGACGCGGAAGGGCATGTTCCGCACTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGCAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCTGACT
CCAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCCTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTTGGCCAGAGCAAAGTCTTCTCCGTGCCGTGTGCTGGCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTTGCC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGCTTACCTGAAGCTGCGGAAGTGG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGTCCGGGGCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTACACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCTCCGCGAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCAGATCGCGGAGCTCAAG
ATGCAAGTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACTCCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCAGCAGGAGCTCAGGTCAAAACGTGAGCAGGAGGTGAACATCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

4585/5332
FIGURE 3995B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCACACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACCGGCAGAAGCTG
AGCCTGAGCACCAGCTCAAGCAGGTGGAGGACGAGAAGAATTCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACTGGAGAAGCAGATCGCCACCCTCCATGCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCCGCACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACCGGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAACCTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGGCCCGCATCGCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCCGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGGAAGTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCGAAGTCAGTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCCGCCGAATGGCCCGGAAGGCGCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
CGGATGGGGCTGAGGCCAAACCTGCCGAATAA

4586/5332
FIGURE 3996

ATGGCTCAGCGACTTCTTCTGAGGAGGTTCTGGCCTCTGTCATCTCCAGGAAGCCCTCTCAGGGTCAGTGGCCA
CCCCTCACTTCCAGAGCCCTGCAGACCCACAATGCAGTCCTGGTGGCCTGACTGTAACACCCAACCCAGCCCGG
ACAATATACACCACGAGGATCTCCTTGACAACCTTTAATATCCAGGATGGACCTGACTTTCAAGACCGAGTGGTC
AACAGTGAGACA^ΔCCAGTGGTTGTGGATTTCCACGCACAGTGGTGTGGACCCTGCAAGATCCTGGGGCCGAGGTTA
GAGAAGATGGTGGCCAAGCAGCACGGGAAGGTGGTGATGGCCAAGGTGGATATTGATGACCACACAGACCTCGCC
ATTGAGTATGAGGTGTCAGCGGTGCCCCACTGTGCTGGCCATGAAGAATGGGGACGTGGTGGACAAGTTTGTGGGC
ATCAAGGATGAGGATCAGTTGGAGGCCTTCCTGAAGAAGCTGATTGGCTGACAAGCAGGGATGAGTCCTGGTTCC
CTTGCCCGCGTGGGACCCCAATAGAACTCAGCCCTTCCATGCCAGCCCTTCCTGCTGCCTCCCTCCTGTCTGGCT
CCTGGGGCCCATGCTTAGAGCCCAGGCTCCAGCCCTGAGTGCTTCCGAGCTGGCGGACTGCCAGGGGCCATCAG
AGGATGGTGGTGCTGCTGCTGATCCGGGGACCGCTGTCTTCCCTCCCATACGCCTTTCATCCCTCCTTCTAGGGC
CTAIGG

4587/5332
FIGURE 3997

CCGGAGCGGCTGGGAGGATCGGGCTCTCCGCTGCGGCCCCGTGTGGGGTCCCCCGGGGCTGCTCCTGGCCATCG
CCCTGCACCCAGCGCTGTTCGGTGCCCCCGCGCGGGACTACTGCGTGCTGGGCGCTGGGCCCCGCGGGCCTGCAGA
TGGCCTACTTCTTCAGCGCGCTGGACGCGACTACGCAGTGTTCGAGCGGGCCCCGCGGCCCGGCAGCTTCTTCA
CACGCTACCCGCGGCACCGCAAGCTCATCAGCATCAACAAGCGGTACACGGGCAAGGCTAACGCCGAGTTCAACC
TCCGCCACGACTGGAACCTCTGTCTCAGCCACGACCCCCGGCTGCTCTTCAGACACTACTCGCGTGCCTACTTCC
CCGACGCCCCGACATGGTGCGCTACCTGGGTGACTTCGCGGACACGCTGGGGCTCCGTGTCCAGTACAACACCA
CCATCGCCACGTCACCTCTGGACAAGGACCGACAGGCCTGGAATGGCCACTACTTTCATCCTAAGTACCAGAAGG
GCCAGGTGCATCAGTGCAGCGTCTCTTTGTAGCCACTGGTTTATCAGTCCCCAACAGGTTGACTTCCCTGGCT
CCGAATATGCAGAGGGTTACGAGTCCGTGTCCGTGGACCCTGAGGACTTTGTAGGCCAGAATGTGCTGATCCTGG
GTCGTGGGAACCTCGGCCTTTGAGACAGCAGAGAACATCTTGGGTGTCACAACTTTATCCATATGCTCAGCCGCT
CCCGGGTCCGTCTGTCTGGGCCACCCACTACGTTGGAGACCTCAGAGCCATCAACAATGGCCTGCTGGATACCT
ACCAGCTCAAGTCCCTGGACGGGCTGCTCGAGTCTGACCTGACGGATCTGGCCATCCTGAAGGACAGCAAAGGCA
AGTTCCATGTACCCCCGAAATTCTTCTGGAAGAAGCCAACACCAACCAGAGTGCCGACTCCATACCCCTCCCC
AGGACGACAATGACAACTTTGCCATGCGCGTGCCCTATGACCGGGTAATCCGCTGCCTGGGCTGGAACCTTGACT
TCTCCATTTTCAATAAGTCCCTCAGACTTAACTCGGGAAATGCATTGCGCAAGAAGTACCCGCTGATTGAGCTA
GCTACGAATCCAAAGGAAGCCGGGGTCTGTTTATCTGGGTACTGCCAGCCACTCGGTGGACTACCGGAAATCTG
CTGGGGGCTTCATCAGGATTCCGATACACAGTGCCTGCTGTTACCGGCTCCTGGAGCACCGCCACCACAGCG
TCACCTGGCCCCGCACTGAGCTCCCCATCACACAGCTGACCAGCTCCATCGTGCGGCGCGTGAATGAGGCTTCTG
GGCTCTACCAGATGTTCCGTGTGCTGGCCGATGTCTCTGTTGAAGGAGAATCCACGGCCTTTGAGTACCTGG
AGGAGTTCCCCATACAGATGCTGGCCAGCTGGAGACACTCACAGGGAGGAAGGCAAAGCACGGGCTCTTCGTCA
TCAACATGGAATATGGCAGAAATTTCTTGGCCCCGACAAGGACGCTCTCTTGTATGACCGGTCTGTGGGGACA
CAGAAGATGCCTGGCAGTCTAACTTTCTTCATCTGTCTACTACTATAGATACCTCCCCACCGAACAGGAGG
TGAGGTTCCGCCCTGCACACTGGCCCCCTGCCTCGGCCACGGCCATCCATCACATCGTGGAAGACTTCTTAACAG
ACTGGACTGCCCCGATCGGGCACATCCTACCTCTGAGGCGCTTCTGGAGAAGTGTGGACACCGATTTGCGAA
GCTTCTATGCAGAGTCTGCTTCTGTTTCGCCCTCACGCGCCAGAAGTTGCCACCCTTTTGCCAGCAGGGGTACC
TGAGGATGCAGGGACTCGTGAGTACCGAGAGCCTTTGGCAGCACAGAGTGGAGAGCAGGCTCCTGCGGGACTATG
CCCCACAGGCAGGCGCCTGGAGGACAGCAGCCAGCAGCTTGGCGACCAAGAGCCACTAGGTTCCCCCTGGCTC
CAGGGCCTCTGGCTCAGTCCGTGATAGCAACAAAGAGGAGCTCTGACTGTCCCTTCCTAAGCTGTGGGCACAGT
GGCCAGGCCTCCCCACCTAGGCCCATGGTCAGTCCCTCTTTCCCCGCAACCTCACACTCCCCGCAATGCGTGATT
GCCAAAGACCACTCAGATCATGGCAGTGTCTGCAGCAAAGCCACCAGATGGCACGTGAGGGCTGAAAGTCGGGGA
TGCGGTGGTCTCCTCCCTCCTGTAGGGGGCAGAAGGGCATCCTCTGCCAGGTGGGAGCTGCCTTCCCCAGCCCA
GTTTGTCTGCAATGGAGCTGTCTGTAGCCCCAGGCCAGCCAGTTCTGCCCCGTCTCAAGTGCTCCTCTTCTT
CCAAGCCCCCTCCTCAGATGGGCCTGCATCCCGCCTGTGGAGTGCTTCACAGGGGAAACCCATCCGCATCTTAAGA
GTTTGTGGCAAGCGCTTTAAAACAAAAGCTCTGATATCCTCAACAACCACAATGGGCAGGTGGGATTGTTGCCCC
AGATGACTGCTGAAGACACCAGCTGTGGGATGTCAAGTAATTCCAGGGACCCCCAGCTGGGAGTCCCCGTCTGTG
TCACTTGCCACACACTGCCTCAACCTCCCCGCCCCATTTTCAGCAGGGTTTGGGCTTAGCTACAGAGCCCAAGAG
GGTCAGCCCTGCTTATCATCATAGGCCAGCAGGCTGATCTCGAGCAGCGATAGGACAGCTCCCTGCAAAGCCAT
CTTAGCAACTTTCTCACTGAGAAGCAGGATTGAGAGCTGCTCTCCCCAGTTGCACCCCTGACTCATCTTCCAGC
TGGCTCTTCTCTCCATCCTACTCCCTTCTGTCTCCCTGCCCTCTGCCATCCTGAACCATGCCTTGCTTCTAACC
TGCTTGGTCAAGTTTTGTGAACTTATCCTGCTGTCTCGGGCTGGCACCCATATGTGCTACCATGTGTAAGGTG
ACATTTCCAAATGCCTTTGTGTGATAATGATGATGAATTTGGTTCCTAGTCTCTTCTTCAATGCCCCCTCCTCACC
AGCAATCTGCACTTTCCCATCAGGCGTCTTAGTCTCATTTGTAAGTGCATAAGATAATCACAGTGATTTTCAAA
GCCCAGG

4588/5332
FIGURE 3998

GCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGCCGGCCGAGGCCATTGCAGATTTTGGAAAGATGG
CAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCCGAGCAGTTTCGGG
ATATGCCCTACCAGCCGTTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGAGCCACATACCAAG
ATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGGAAAGTCAATATGCTTATTTCCATGAGGAGGATG
AAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGAATGAGATTTGCCC
AGAGGAACCTCCGAGAGACAAAGATCGTCGGAACATGTTGCAGTTCAACCTGCAGATCCTGCCTAAGAGTGCCA
AACAGAAAGAGAGAGAACGCATTTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGGCAGAAATGGGATC
AGAAATCACAGAAACCCCGAGACTCTTCAGTTGAAGTTCGTAGTGATTGGGAAGTGAAAGAGGAAATGGATTTTC
CTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTGTTGGGGGCCCTAGAATACT
ACGACAAAGCCTTTGACCGCATCACCACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGCATCTTCCACACTG
TCACCACCACAGACGACCCTGTTCATCCGCAAGCTGGCAAAAACTCAGGGGAATGTGTTTGCCACTGATGCCATCC
TGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCTGGGATATTGTCGTCCAGAGAGTTGGGTCCAAACTCT
TCTTTGACAAGAGAGACAACCTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAGCCCCCTCAAGATG
AAGGTAATTCTTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAATTTCTCCAGCAGT
GCTTGAGAATGGGGAAGGAAAGATACAACCTCCCCAACCCAAACCCGTTTGTGGAGGACGACATGGATAAGAATG
AAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGAGATGATATTGACCTTATTGTCCGTTGTGAGC
ACGATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCTTCATCAACATCAAGACACTCAATGAGTGGGATTCCA
GGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCCACGGAGCTGAAGA
ACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTCAAGCTTGTTATG
TGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTATCCTAGGCACCCAGCAGTTCAAGCCTAATGAGTTTG
CCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATCTGCATGAAGCTGG
AGGAGGGCAAATACCTCATCCTCAAGGACCCCAACAAGCAGGTATCCGTGTCTACAGCCTCCCTGATGGCACCT
TCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAGGAAGAAACTTAAACCAGTG
ATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATGTGTGTCTAACTTG
CTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTTAGTCTTT

4589/5332
FIGURE 3999

ATCGGAGGAGAGCCGGATCGTCCTTCCTTGAACCCTCTGGGTAGGGCTGTGCTGAGGGGCTGGGCGGGGAGCACA
GGCCGTGTCCGCTCGCTTGACCTTTTCAGACTGCCGTGTCAGGCCTCGAGCCGGGCCCACCTGGAGCCCTCCCC
TGCCACCCGCCCCCAGCGCCCGATATCCGCCCCCGGCCAGAAAGGGCCGGGCTCGGTTCATCCCCAGTCCCGTCG
CGGCCACTGACCCTTGAGATCAGCCCTCCCCTCCCACCTTCCCGTCCCAGGCCAGCCCAGGGCCCGAAGCCCAC
CCACTCGCGTCTCTAGCAGCCGCTCTTGTCCTCTGGGTACGGCTCGCGGGAGTGTTGGTTACCATGGTGAAAGCTG
GCAGCCAAATGCATCCTGGCAGACCCAGCAGTGGGCAAGACCGCCCTGGCACAGATCTTCCGCAGTGATGGAGCC
CATTTCCAGAAAAGCTACACCCTGACAACAGGAATGGATTTGGTGGTGAAGACAGTGCCAGTTCCTGACACGGGA
GACAGTGTGGAACCTTCATTTTTGACTCTGCTGGCAAGGAGCTGTTTTCGGAAATGCTGGATAAATTGTGGGAG
AGTCCCAATGTCTTATGTCTCGTCTATGATGTGACCAATGAAGAATCCTTCAACAACCTGCAGCAAGTGGCTGGAG
AAGGCTCGGTTCACAGGCTCCAGGCATCTCTCTCCAGGTGTTTTAGTTGGGAACAAGACAGACCTGGCCGGCAGA
CGAGCAGTGGACTCAGCTGAGGCCCCGGGCATGGGCGCTGGGCCAGGGCCTGGAATGTTTTGAAACATCCGTGAAA
GAGATGGAAAACCTTCGAAGCCCCCTTTCCACTGCCTTGCCAAGCAGTCCACCAGCTGTACCGGGAGAAGGTGGAG
GTTTTCCGGGCCCTGGCATGACGAGCTGGAGCAGATCGTGCTGCACAACCGGAGAAGACAGAATTACCTCTGCTC
TTTTAATATATAATGATGGCTTTAAATAAAATTAGGAGAAAATGTC

4590/5332
FIGURE 4000

GGGGCGAGCGCCAGCGCGGCGTCCGGGGCGAGTGACACGCAGAGCTGAAGCCATGGTTTCATCAGGTGCTCTACCG
GGCGCTGGTCTCCACCAAGTGGCTGGCGGAGTCCATCAGGACTGGCAAGCTGGGGCCCGGCTGCGGGTGCTGGA
CGCGTCCCTGGTACTACCAGGCACCCGAGAGGCCCGCAAGGAGTACCTCGAGCGCCACGTACCCGGCGCCTCTTT
CTTTGACATAGAAGAGTGCCGGGACACGGCGTCGCCCTACGAGATGATGCTGCCCAGCGAGGCTGGCTTCGCCGA
GTATGTGGGCCCGCTGGGCATCAGCAACCACACGCACGTGGTGGTGTATGATGGTGAACACCTGGGCAGCTTCTA
TGCTCCCCGGGTCTGGTGGATGTTCCGTGTGTTTGGCCACCGCACCGTATCAGTGCTCAATGGTGGCTTCGGAA
CTGGCTGAAGGAGGGCCACCCGGTGACATCCGAGCCCTCACGCCCAGAACC GGCCGTCTTCAAAGCCACACTGGA
CCGCTCCCTGCTCAAGACCTACGAGCAGGTGCTGGAGAACCCTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAG
GTCTCAAGGGCGGTTCCCTGGGCACCGAGCCGGAGCCGGATGCAGTAGGACTGGACTCGGGCCATATCCGTGGTGC
CGTCAACATGCCTTTCATGGACTTCCCTGACTGAGGATGGCTTCGAGAAGGGCCCAGAAGAGCTCCGTGCTCTGTT
CCAGACCAAGAAGGTGGATCTCTCGCAGCCTCTCATTGCCACGTGCCGCAAGGGAGTCACCGCCTGCCACGTGGC
CTTGGCTGCCTACCTCTGCGGCAAGCCTGATGTGGCCGTGTACGATGGCTCCTGGTCCGAGTGGTTTCGCCGGGC
CCCCCAGAGAGCCGTGTGTCCAGGGAAAGTCTGAGAAGGCCTGAGCCCGTGACCTCTTCTGCTTACTGTAACTG
CGGCCGTTTTAGTGACCCCATGACTTACAGCCGGTTCCTTACCTCTTAGGTGAAGGAGATGACATGTTTTTAGAAT
TGCTGTGCAAGGCTCACCCCTCTCTGTCAACACTGGAATAAACTTTGCCTTTTCTG

4591/5332
FIGURE 4001

GGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCCGCGGGGGCCATGGCGGAGCCAGGAAGCC
GGGAGTCCGAGACCCGGGCCCCGACGCCGAGTGTCGCGGCCATGGCTTCGCGCAGCTCTGCCGCGCGCTGGTGT
CGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCCTGGT
ACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTCGAGGAGCGCCACATCCCGGGCGCCGCTTCTTCGACA
TCGACCAGTGACGCGACCGCACCTCGCCCTACGACCACATGCTGCCCGGGGCCGAGCATTTCGCGGAGTACGCAG
GCCGCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCCCCGC
GCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCAGTCTGCTTGATGGCGGCCTCCGCCACTGGCTGC
GCCAGAACCTCCCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCCGAGTTCGCGCTCAGCTCGACCCCGCCT
TCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCAGGTGGTGGACTCCCGAGCCACTG
GCAGGTTCCGCGGCACCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCAGGTACCGTGAACATCC
CCTTCACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAGAAGA
AAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGGGCCT
ACCTCTGCGGCAAGCCAGACGTGCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCGGCCGAGG
ATGTCATCTCAGAGGGCCGGGGGAAGACCCACTGAAGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCGGCCA
CCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTACCAAGAGAGTGTCTTCACTCAACTCAGGTGGCAT
TTGGGGTGACATCTCAAAGGCCAGGAATTCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCGGAGG
CGAGCCCTGGAGGAGGGAGGCCAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCTCCTTTCTGT
TTTATTTTTGAGGAAATAAAATAACCAAGTGCTAAATCTTGT

4592/5332
FIGURE 4002

TGGCTCACTGCAGCCTCAACCTCCTGGGCTCAGGTGACCCTCCCCGCTCAGCCTGACCTTGCCCTTTAAAGGCCAC
TGCATGAGGTGGGGAAGGAGATTTGACTTCCACTTGCCTCGGTGACTTTGTCTGTTAAGCAGAACCATAATACTG
GCCCTTCCCCCTCCTGTGCTTTGGGCAGTGACTCTCCCTAGCTCATTGGGAACCCTGGTTGCCCAAACAGCTCTCA
ATCCAACACTAGAGGTGTGGGGGGTCACTGTGGAATGTTGGGGGGCAGGCCCCAGTATGAGAGAAAAACCCAGAG
GGATGGTCCTGATCAGGGCTACCCATGCCCCTGAGGATGGTGAATGAAGGCAGAGTCGGGGGCTGCATAAAGGA
AAGTCTCTTCCAGGGACCAAAGCTTGGAGAACTGAGGTGGAAGGGGGATTAAACAGAAGTGGGTAGGGCAGAGC
CTTCTGCCTGTGGGCTGGATTTCTCAGGCAAGAAGCCTGTGGGTAAGCTCTGTATAATGCGAGGAGGAGTCCCC
ACAAAGCAGGCTGGTCAGTGGTCACGCTAGTGTGAGTCTTTCAAACATCCCGTGTAAGTAGATACTGTCAATTGCA
CAGAGGAGGAAATGGAACCTGGCCCAAGGTCTCAAGAAACAACCCAGCCGGGATTTCAGACTCGGCAGCCTGCGCA
CTTAACACCGGTGAGCAACCAGGAACCTCCCAGCCCTTTCTCTTGTGCCCTTCAAGAGTGCAAGAACTGACCACT
GCCCTTAGAGAGCTCTCTGAAGAGCATTCCCATGGCTACAGATTGGGTTTGGAGCCGCTTGGGCTCACCATGGGC
CAGCATTGTTTTGGATGGCCTGAGGGCAAGGACTGTCCCTGCTCTTCATGCATCCTGAAGATTAGCTCAGTACCT
GGCACAGAGTCGATGTTCCAGAGAGGTTTGGTGAATACAGAAGGTCCCTGTTGCATGGAATCCTGCAAAGCAATG
TTGGTGTTACCGGAACCATAGGAAACAGCTGATATCCAACATTTTGAACCTACACAGGTGTGAGTTTCATGTG
GTTACGCCTAATGAGAGCACCACCTTAATCCTGTTGGGTTCTCCATCTCAGCCCCAGGGGAATGAGCAACACAGG
GGAGCTAGCTGGTGGTGCCAGACTGGGGTTCAGATCCCTGCCACATTTACATGGGCTTTGTGACACACGACGGGT
CATCTAATGTCTCTGAACTGCAGCTTCTGCCTATGTAGAATGGGAGCAGTAACACAGAGCATAAAGACATGATAG
GGGCAAGGAGAGCAAGTGTGTAAAGCACTCAGCTCCGGGTTTTTCATGCACAAGTGTGCTGCACACTTGTGCCTGA
CACTTATTAGTCGCACTAGCTCATCTATAGAATGGGAGGTGATACACGCCTAGCAGGCTTGTTGTCAAAACAAA
CTAAGCTCACTGCAGCTGGATCAGTGATGAATGTCACTGTCTCATCATTTCCCACTCCACAGCCTGAGGCCTGGC
CAAGTGCTCCTGTGATGTGCCACACCAGTCCAGCAGGCAGGGGAAACATGCTTTGCTTGGTGGGATTCAAGGTGT
AGGGATGGCCCTCCCTTTACAGTCACCACCCTGGGTTGAGAGTTTGTTCCTCCTCCTTGCTCTGGGCTGGTCTCT
ATGTGATATCTGACCAAGCCCGGTAAGTGTGTCTGTTAGGTGGGATGCAAGCCTTCCAGCCTCTCCACAGAC
TCGGGAGTGCTGTCTCTATGCCAGGGTCTGAGAATAGATACCGATACATGGGTCAGCAGCTCCTGTGGGGGTGTC
ACTCCACTGCGGAGGGAAACCAAGGCAGAAGCTGGACAAGAGTCTGAATGGCTCAGATTTGAATCATTGTTTTT
GGGGGGTTTTTTGTTTGTGTTTGTCTGTTGTTGTTGTTGTTATTGTTTTGAGACGGAGTTTTGCTCTTGTGTTT
CCAGCTGGAGTACAGTGGCGCAATCTCGGCTCACCACAACCTCCGCCCTCCCGGGTTCAAGTGATTCTCCTGCCTT
AGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATGTTTGTATTATTAGTAGAGACGGG
GTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCCAACCTCAGGTAATCTGCCCCCTCGGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCACCGTGCCAGQCCAAGCGTTAGTTGTGAAGGTTTATTTTGTGCAAATCCCAGT
CCTGCATGAAAATGGGAATGTTAGTAACCCCTGCCTCAAGGTGGGGCAGTGAAAAACAAAAACACCCTGGGAGTC
TGCAGAGGTGTGGGCCTTTCCCATCCCATCTTTCTGCTACAATCAAAATGATCGTTAAAAATGGAAATCTAGG
TTGGGCAAGGTAACCTCTACCTATAATCCTCACACTTTGGAAGGCTGAGGTGGGAGGATCCCTTGAGCCCAGGAG
TTCAAGACCATCCTGGACATGATGGCAAGCCCCCTTCTCAAT

4593/5332
FIGURE 4003

AGACTGCGGGCCTGCGGGGAAGGGCGAAGCGGGGCGGGACCGGGGCGGGAGCAGCGGGGCGGGACCCTACCC
GCGGCCACGCGGAGCCAGGAGGCGCGGACTACAGCTCCCGGCCTGCCCCGCGTGCGGTCCCCGCCGCCCCAG
CGCCCGGAGGAGGATGCAGACGCCGCGCGCGCGGCGATGAGGATGGAGGCCGGGAGGCAGCGCCGCCGCGGGG
CGGGCGGCCGCGCCGAGGCGGCTGGGGCAAGTGGGTGCGGCTCAACGTGGGGGGCACGGTGTTCTGACCACC
GGCAGACGCTGTGCCGCGAGCAGAAGTCCTTCCTCAGCCGCTGTGCCAGGGGGAAGAGCTGCAGTCGGACCGG
ATGAGACCGGGCCTACCTCATTGACCGTGACCCACCTACTTCGGGCCATCCTGAACCTTCCTCCGGCATGGCA
AGCTGGTGCTGGACAAGGACATGGCTGAGGAGGGGTCTGGAGGAAGCCGAGTTCTACAACATCGGCCCGCTGA
TCCGCATCATCAAAGACCGGATGGAAGAGAAGGACTACCGGTACCCAGGTCCCACCCAAGCACGTGTACCGCG
TGCTGCAGTGCCAGGAGGAGGAGCTCACGCAAATGGTCTCCACCATGTCTGATGGCTGGCGCTTCGAGCAGCTGG
TGAACATCGGCTCCTCCTACAACCTACGGCAGCGAGGACCAGGCAGAGTTCTGTGTGGTGTCCAAGGAGCTCC
ACAGCACCCCAAACGGGCTGAGCTCAGAGTCCAGCCGCAAAACCAAGAGCACGGAGGAGCAGCTGGAGGAGCAGC
AGCAGCAGGAGGAGGAGGTGGAGGAGGTGGAGGTGGAACAGGTGCAGGTGGAGGCAGATGCACAGGAGAAAGGTT
CCCGTCCGCACCCTCTCAGACCTGAGGCTGAGCTTGAGTGGAGGGCTTCTCCTCGGCCCTCGCCGCCCCAG
GCTGCCATCCCTGCTGTTACAAGCCAGAGGCACCCGGATGTGAGGCCCCAGATCACCTCCAGGGACTTGGGGTTC
CCATCTGAAATCCTTTATTTTGTACCATGGGGTGGGCCCGGGCCTGAGAAGGAAGAAGCACCTCTCCCCGGC
CTCCTCTGTCTGCACCCGTGGGGCTGTGACTTACTCCTGCCTCCAGGGGCGGGGCGGGGCCCCCTGGGACCTCT
TAAGGCCCAAGGTGGGCCCCAGGACCTCTGGGCAGAGTGGACTGCTCATGGCAGATGTGTGGCAATGTCTGGCTG
TGTCTCTCCGGCACCTGCGTCCCTCTCCCGGGCTCCCCTGCTGCATGGTGGATGTGCTCCTTCCTGGCCCCGTC
ACATTGCCTCCTTGAGCCTTAGTCCAGGGGGTCACTCCTCCCACCCACCTACCTCACAGGGTTGTTGTGAGGGT
GCACAGAGGAGCAAAGTCCCTGAAGGCCCTCAGGCAGTATATAGGGGCCGCCACCTTCAGCTGCCCTGGGATGG
GAAGGACCCAGCCCGACCCCTGGGCATAAACTGTGTTTCAAATGGAGATTCAGGTATTGGGGATGCAGGTTGT
GGGAGCTGGCCTGGCAGAGTAGGGGTAGTTGGCTTGGCCTTCTCTTTGGTGATCCCACCCAGCCATTGTCAT
TGCTGGCCCAGCGCTGGCCTGGGGGGCGGGGAGAGGCAGCAGAAGGGGCTGGGCAGGGGCGGTGGAGGACTCAG
GAACTGCCCCGGGAGAGTGGGTATGGCGGCTGAGCCAGGGGCCCTCCTGTGTTGACTTCCCGGGATGGGTCCTT
GCTTCTCAGCTGTGTCCGACCCACCATGTAATAAAACCAAAGGAACAGCCCA

4594/5332
FIGURE 4004

CCCTCCTCTGCTGGGCCTGGGGGTCTGGGCCAGCAACAAGTTAGTATTGCAGACATGGGCCAAGGAGCCAGAGGC
CATGCAGTGGCTCAGGGTCCGTGAGTCGCCTGGGGAGGCCACAGGACACAGGGTCACCATGGGGACAGCCGCCCT
GGGTCCCGTCTGGGCAGCGCTCCTGCTCTTTCTCCTGATGTGTGAGATCCCTATGGTGAGCTCACCTTTGACAG
AGCTGTGGCCAGCGGCTGCCAACGGTGCTGTGACTCTGAGGACCCCCCTGGATCCTGCCCATGTATCCTCAGCCTC
TTCCTCCGGCCGCCCCACGCCCTGCCTGAGATCAGACCCTACATTAATATCACCATCCTGAAGGGTGACAAAGG
GGACCCAGGCCCAATGGGCCTGCCAGGGTACATGGGCAGGGAGGGTCCCAAGGGGAGCCTGGCCCTCAGGGCAG
CAAGGGTGACAAGGGGGAGATGGGCAGCCCCGGCGCCCCGTGCCAGAAGCGCTTCTTCGCCTTCTCAGTGGGCCG
CAAGACGGCCCTGCACAGCGGCGAGGACTTCCAGACGCTGCTCTTCGAAAGGGTCTTTGTGAACCTTGATGGGTG
CTTTGACATGGCGACCGGCCAGTTTGTGCTCCCTGCGTGGCATCTACTTCTTCAGCCTCAATGTGCACAGCTG
GAATTACAAGGAGACGTACGTGCACATTATGCATAACCAGAAAGAGGCTGTATCCTGTACGCGCAGCCAGCGA
GCGCAGCATCATGCAGAGCCAGAGTGTGATGTGGACCTGGCCTACGGGGACCGCGTCTGGGTGCGGCTCTTCAA
GCGCCAGCGCGAGAACGCCATCTACAGCAACGACTTCGACACCTACATCACCTTCAGCGGCCACCTCATCAAGGC
CGAGGACGACTGAGGGCCTCTGGGCCACCCTCCCGCTGGAGAGCTCAGGTGCTGGTCCCGTCCCTGCAGGGCT
CAGTTTGCACTGCTGTGAAGCAGGAAGGCCAGGGAGGTCCCCGGGGACCTGGCATTCTGGGGAGACCCTGCTTCT
ATCTTGGCTGCCATCATCCCTCCAGCCTATTTCTGCTCCTCTCTTCTCTCTTGGACCTATTTAAGAAGCTTGC
TAACCTAAATATTCTAGAACTTTCCAGCCTCGTAGCCAGCACTTCTCAAACCTGGAAATGCATGCGAATCACC
CGGGGTTCTGTGTTAAATGCAGATTCTGACTCAGCAGGTCTGAGTGGGTCCAGGATTCTGTGTTTCTCATATGTTT
CTGGGTGATGCTGATGGGGTCACTATGAACCACACTGGAGCAACCAGGTTCTAGGACTTCTCAATATTCTAG
TACTTTCTGAACATTCTGGAATCCTCCCAACATTCTAGAACTTCTCCCAACATTTTTTTTTCTTGAGACAGAGTCT
TGCTCTGTTGCCAGGCTAGAGTGCAGTGGTGCAATCTCAGTTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGA
TTCTTCTGCCTCAGCCTCCCTAGTGGCTGGGATTACAGGCGCCTGCTACCATGCCTGGCTAATTTTTTGTATTTTT
AGTAGAGATGGGGTTTACCATATTGGCCAGGCTGGTCTTGAACCTCCTGACTTCAGGTGACCCACCCGCTCGGC
CTCTCAAAATGCTGGGATTACAGGTGTGAGCCACCGTGCCTGGCCAATTCCAACATTCTTAAATTCTCTCATCCC
TCCAGGGCTCCCGTGTCTATGTTCTCTTTACCCCTTCCCCCTCTTCTCTTGTCTCAGGCCTGCACCACTGCAGCCA
CCGTTTCAATTTATTCAATTCATTAAACACTGAGCACTCACTCTGTGCTGGGTCCCGGAAGGGTGAGGGGGTCAAG
ACAGGCCCTGCCCTGCCCTCAGTGACTGGCCAGTCCAGCCCAGGCGGGGAGAGATGTGTACATAGGTTTTAAAG
CAGACCCAGAGCTCATGGGGGCTGTGTTCTGGGTGTTTCAAGGTGCTGCTGGTCCCTCCATTACCACTGCTCCCCA
AGGCTGGTGGGACGGGGTCCCGGTGGCAGGGGCAGGTATCTCCTTCCCGTTCCCTCATCCACCTGCCAGTGCTCA
TCGTTACAGCAAACCCAGGGGGCCTTGGCCAGGTCAAGGGTTCTGTGAGGAGAGGACCCAGGAGTGTGGGGGCA
TTTGGGGGTGAAGTGGCCCCGAAGAATGGAACCCACACCCATAGCTCTCCCCACAGCTGATACGGCATCCTGC
GAGAAGACCTGCCCTCCTCACTGGGATCCCCTTCTGCTCCTCCCAGGGCTCTGCCAGGGCCTTGCTCAGTCCC
TTCCACCAAAGTCATCTGAACCTCCGTTTCCCCAGGGCCTCCAGCTGCCCTCAGACACTGATGTCTGTCCCCAGG
TGCTCTCTGCCCCCTCATGCCCCCTCTACCGGCCAGTGCCCCGACTCTCCAGGCTTTATCAAGGTGCTAAGGCC
GGGTGGGCAGCTCCTCGTCTCAGAGCCCTCCTCCGGCTGGTGTGCTGCTTTACAAACACCTGCAGGAGAAGGGCC
ACGGAAGCCCCAGGCTTTAGAGCCCTCAGCAGGTCTGGGGAGCTAGAGCAAAGGAGGGACCTCAGGCCTTCCGTT
TCTTCTTCCAGGTGGGGTGGCCTGGTGTTCCTTAGCCTTCCAAACCCAGGTGGCCTGCCCTTCTCCCCAGAGG
GAGGCGGCCTCCGCCATTGGTGCTCATGCAGACTCTGGGGCTGAGGTGCCCGGGGGGTGATCTCTGGTGCTCA
CAGCCGAGGAGCCGTGGCTCCATGGCCAGATGACGGAACAGGGTCTGACCAAGTGCCAGGAAGACCTGTGCTAT
AAACCACCTGCCTGATCCTGCCCTGCCTGACCCGCCACGCCCTGCCGTCCAGCATGATTAAAGAATGCTGTCT
TCCTC

4595/5332
FIGURE 4005

ATCCCCACCCAAAGCCTGATGGCACCCCGGCTGGCCATGCTGTCCCCTCCCTGTGGCGTTTCTTAGCAGATGGCT
GCAGAGCTTCGTTGATGGTCTTTTCTGTACTGGAGGCCTCCTGAGGCCAGGAACGTGCAAATTTGCAGGTGCTGC
ATCCCAAGCCCCTCATGCTCCTGCCTTCCTGAGGGCCAGAGGGGAGCCCCAGGACCCATTAAGCCACCCCGTGT
TCCTGCCGTCAGTGCCAAC TGCCGCATGTGGAAGCATCTACCCGTTCACTCCAGTCCCACCCACGCCTGACTCC
CCTCTGGAAACTGCAGGCCAGATGGTTGCTGCCACAAC TTGTGTACCTTCAGGGATGGGGCTCTTACTCCCTCCT
GAGGCCAGCTGCTCTAATATCGATGGTCCTGCTTGCCAGAGAGTTCTCTACCCAGCAAAAATGAGTGTCTCAGA
AGTGTGCTCCTCTGGCCTCAGTTCTCCTCTTTTGGAAACAACATAAAACAAATTTAATTTTCTACGCCTCTGGGGA
TATCTGCTCAGCCAATGGAAAATCTGGGTTCAACCAGCCCCTGCCATTTCTTAAGACTTTCTGCTGCACTCACAG
GATCCTGAGCTGCACTTACCTGTGAGAGTCTTCAAAC TTTTAAACCTTGCCAGTCAGGACTTTTGCTATTGCAAA
TAGAAAACCCAACCTCAACCTGCTTAAGCAGAAAATAAATTTATTGATTCAAGTTTGGAG

4596/5332
FIGURE 4006

CCATGGCTCAGCCTCTGGGTCCAGAGCCTCAGCTCCTACCTCTTCCCTCCTTGCCAGCCCCCTGATGCCTGCCAGA
CTTTTGCTCTGCTGGAGCCCCCTGCCTGACCAGCTTCCCCCTCCCTGTCTGGTTGGGATTGGGGGCTGAGCTGTC
TGGGGTCCCAGGGCCAACCAATGCAGTGCCGGCTCCCGCGGGGCTGGCTGGAGCCCTCCTCACCTCCTGTGCA
TGGGGCTCCTGTGTCTGCGGTACCACTTGAACCTGTCCCCGCAGCGGTACAAGGGACCCCCGAGCTGAGCCAGC
CGAACCCGGGGCCCCCTAAGCTACAGCTACACGATGTCTTCATTGCAGTGAAGACGACCCGGGCTTCCACCGCT
TGCGCTGGAGCTGCTGCTTGACACGTGGGTTTCCAGGACCAGGGAACAGACATTTGTCTTCACCGACAGCCCAG
ACAAAGGCCTCCAGGAGAGACTGGGGTCCCACCTTGTGGTCACCAACTGCTCCGCGGAACACAGCCACCCAGCTC
TGTCTTGCAAGATGGCTGCTGAGTTCGACACCTTCTTGCCAGTGGGCTTAGGTGGTTCTGCCATGTGGACGATG
ACAACATATGTGAACCCAAGGGCGCTGCTGCAGCTTCTGAGAGCCTTCCCGCTGGCCCGGACGCTCTATGTGGGAA
GGCCAGCCTGAACCGGCCCATCCATGCCTCAGAGCCACAGCCCCACAACCGCACGAGGCTGGTACAGTTCTGGT
TTGCCACTGGGGGTGCTGGCTTCTGCATCAATCGCAAACTGGCTTTGAAGATGGCTCCGTGGGCCAGTGGCTCCC
GTTTCATGGACACATCTGCTCTCATCCGGCTGCCTGATGACTGCACCATGGGCTATATCATTGAGTGCAAGCTGG
GCGGCCGCTGCAGCCCAGCCCCCTCTTTCACTCCCACCTGGAGACCCTGCAGCTGCTGAGGACTGCACAGCTCC
CAGAACAGGTACCCCTCAGCTACGGTGTCTTTGAGGGGAACTCAACGTCATTAAGCTACAGGGCCCCCTTCTCCC
CGGAGGAGGACCCCTCCAGATTTGCTCCCTCCATTGTCTGCTCTATCCAGATACACCTGGTGTCCCCAGCTGG
GTGCCCAGTGAATCCTGAACTGCTGGGCAAAGGTTGGGCAGAGACTTCTGGGTGTGCCTTGGCTCCCAAGGTGGC
ACTGTGGGTCCCTGGCAAGTGTCTTGTGATAGGCAGTCCCTGGCAGGGCCTTCGGGTGGTTGGCAAGCCAGGAT
CTGAGTGGCAATTGGCACTGAAGGCACCCCAGGCCCTGGGAGGTGAGTTAGACAGCCCAGGGGACCAGGTGGAC
CAGGTGGTGGCCAGAGAGGCTCCAGGGGCTAGACTCCCTCAGGAGGCTGAATTGAAAAAGGGCAGGGGGCACTTG
AGCTGGGCTGGGGCTCAGGGGTCTAACCCTTTAGGCAGTGACATGGCCTCTGGGTGGGGTCTGGCCGTTGGCCC
TGGCTAATGTCTCTCAGTCATTCCCCTGGGGCTCAAGCGCTGGGCCGCCCACTCCTGCCTCCCTCATCTGTGTCC
CGAGTTCTGAAAGGACATGGGTGGAATGATGGCAGAATCCAGGGTCTGCAGCACCTGCTGTTGTTGCCAACCAG
TCTCCCAAAGCTCCTTGCTCCCCACCCCTTGCGAACAGGACCAGATTTTGTGTTGGAGCCTCAGCATGCCGGGGCC
CAGATGATGGAGCATAACGGGTCCCAGCCAATTGTGATGATCCTTTTTGCTCATTCCCAGCCTTCTTGCTGTT
AGGGGCTACCATGGGACCAGCTCTGGCCAGAGGGAATAAGCAAATCCAATAGAGATGTTTCTGGGGAAGGTTTT
GCAGCCCACTCCCATCTTCTGCTATAAATGTGGGTGTGATGGCTGGATCTGGGGCAGCCACCTTGCTACCATG
AAGGAAAGGCCAAGACAATCATCCACAGCTATTCCCTCCAGCATCTGGTTCTGTACAAAAATTAAATGCTTATTT
GTTTAAGTC

4597/5332
FIGURE 4007A

CCCCGTGCGCCTCTTGCCCCGAGACCCTGAGGACACGGCCATGCCGGGCCGGGCGGAGGCGGGGAGGCCGAGGA
GGAGGCCGGGGCCGGCTCGGGGTCTGAGGCGGAGGAGGACGCGCTGTGGGAGCGAATCGAGGGCGTCCGGCATCG
GCTGGCTCGCGCCCTGAACCCGGCCAAGCTCACGCCGTATCTGCCCAGTGCCGGGTGATCGACGAGCAGGACGA
GGAGGAGGTGCTGAGCACCTACCGCTTCCCGTGCCGCGTCAACCGCACCGGGCGCCTGATGGACATCTTGCGCTG
CCGTGGCAAGAGGGGCTATGAGGCCTTCCCTGGAAGCCCTGGAGTTCTACTACCCCGAACACTTCACGCTGCTCAC
GGGCCAGGAACCCGCCCAGCGCTGCTCCATGATCCTCGATGAGGAGGGGCTGAGGGCCTGACCCAATTCTTGAT
GACAGAGGTGCGACGGCTGCGGGAAGCTCGCAAGAGCCAGCTGCAGCGGGAGCAGCAACTGCAGGCCGGGGCCG
GGTGCTCGAGGAGGAGCGGGCAGGGCTGGAGCAGCGGCTGCGGGACCAGCAGCAGGCTCAGGAGCGCTGTCAACG
GCTGCGGGAGGACTGGGAGGCGGGCAGCCTGGAGCTGCTGCGGCTCAAGGATGAGAACTACATGATCGCCATGCG
CCTGGCACAGTCACTGAGGAGAAGAACTCGGCTGTACTTCGCAGCCGTGACCTGCAGCTGGCGGTGGATCAGCT
CAAGCTCAAAGTGAGTCGGCTGGAGGAAGAGTGTGCACTGCTTCGAAGGGCCAGGGGCCCCGCCCTGGGGCAGA
GGAGAAGGAGAAGGAGAAGGAGAAGGAGCCAGACAATGTGGACCTTGTCTCTGAGCTGCGTGCTGAGAA
CCAGCGGCTGACGGCGTCACTGCGGGAGTTGCAGGAGGGCCTGCAGCAGGAGGCGAGCCGGCCGGGGCCCCGGG
CTCCGAGCGCATCCTGCTGGACATCCTAGAGCATGACTGGCGGGAGGCGCAGGACAGCAGGCAGGAGCTGTGCCA
GAAGCTGCATGCCGTGCAGGGGGAGCTGCAGTGGGCCGAGGAGCTGCGCGACCAGTACCTGCAGGAGATGGAAGA
CCTGCGGCTCAAGCACCGCACGCTGCAGAAGGACTGTGACCTGTACAAGCACCGCATGGCCACTGTCTGGCCCA
ACTGGAGGAGATTGAGAAGGAGCGAGACCAGGCCATCCAGAGCCGTGACCGGATCCAGTTGCAGTACTCACAGAG
CCTCATCGAGAAGGACCAGTACCGCAAGCAGGTGCGGGGCTGGAGGCGGAGCGGGATGAGCTGCTGACAACGCT
CACCAGCCTGGAGGGCACCAAGGCTCTGCTGGAGGTTGAGCTGCAGCGGGCCAGGGTGGCACCCTGCCTCAAGGC
CTGTGCTCCTCCATTCCCTGTGCTCCAACCTCAGCAGCACTTGGAGCCTGAGCGAGTTCCCCTCCCCTCTGGG
AGGCCCAGAAGCAACTGGGGAGGCGAGCTGTGATGGGGGACCTGAGCCTCACAACTCGGAGGAAGCCACAGACAG
TGAAAAGGAGATCAATCGGCTCTCCATCCTGCCCTTCCCCCAGTGCCGGCTCCATCCTCCGCCGGCAGCGTGA
GGAAGACCCCGCACCCCTAAGAGATCCTTCAGCAGCATGTGACACATCACAGGGAGTGTGACACTTAAGCCCTG
GTCCCCTGGCCTCTCTTCGTCCTCATCCTCTGACAGCGTGTGGCCTTTGGGAAAGCCGAAGGCCTCCTGGCTCG
GGGCTGTGGCCTGGACTTCTCAACAGGTCTCTGGCTATTGCGGTGTCTGGCCGAGCCCCCAGGGGGCCAGA
GCCGACAGACAAGGGACAGATGGACTGTGTTTTATGGGGACAGATGGTCTGGGGCTGTGGTGCGCAGGGTGCT
GTCTGGGCTGGGTCCGCCAGGATGGAACCAAGAGAGCAAAGGGTGGAAGCTGCTGGTCTGGAGGGGGCGTGCCT
GGAAGCCGAGGGCCAGCAGAGAACCTTGCTCTGGAATCAGGGGTCCACACTCCCCTCCCTGATGGACTCGAAGGC
CTGCCAGTCTCTCCACGAGGCCCTAGAAGCCTGGGCAAAGGGACAGGTGCCGAGCCCTTCTACATTCTGTGCCAA
CCTCACCTTGCTGAGAGGGCAGATCCCCATGCCCTTTGCGTGAAAGCCCAAGAGATCCTTCGACTGGTGGACTC
GGCATAACAAGCGGAGGCAGGAATGGTTCTGACCCGGGTTGACCCCTCACTCTGCGGGACCTGGACCGGGGCAC
CGTGCCCAATTATCAGAGAGCCCAGCAGCTCCTAGAAGTTCAGGAGAAATGCCTGCCCTCCAGCCGGCACCGAGG
CCCCCGCAGTAATCTGAAGAAGAGAGCCCTGGACCAGCTGCGGCTGGTGAGGCCCAAGCCCGTGGGGGCGCCTGC
AGGGGACTCCCCGGATCAGCTGCTGCTGGAGCCCTGTGTCAGAGCCGGAGCGGAGCCTCAGACCCTACAGTTTGGT
GCGGCCGCTACTGGTGCTGCGCTGCGGCCGCTGGTGCTGTTGCCTGAGTGCTGGCGCCCCGGCTCATCCGTAA
CCTGCTAGACCTGCCCAGCTCCCGGCTGGACTTCCAAGTGTGCCAGCGGAAAGCCTCTCTGGGGAGGAACTGTG
CCATCCTCAGCGCCTGGAGCCCCCAAGGCTCAGCCTGCCACCCCTGGGCTAGGCAGCAGGATCCGGGCCATCCA
GGAGTCTGTTGGGAAGAAGCACTGCCTGCTGGAGCTGGGTGCTCGGGGTGTGCGGGAGCTGGTGCAACGAGAT
CTACCCCATCGTCATCCACGTGGAGGTGACTGAGAAGAATGTCCGGGAAGTCAGGGGTCTGCTGGGCCGGCCGGG
CTGGCGGGACTCAGAGCTGCTGCGGCAGTGCCGTGGCTCAGAGCAGGTGCTCTGGGGGCTGCCCTGCTCCTGGGT
GCAGGTGCCCCGCCATGAGTGGGGACACGCAGAGGAGCTGGCCAAGGTGGTGCGCGGCCGCATCCTGCAGGAGCA
GGCCCGCCTCGTGTGGGTGGAGTGCGGCAGCAGCAGAGGCTGCCCCAGCAGCAGTGAGGCCCTGAGGCTCATCTGA
TACCTGCACCTTCTCCCCAAGCCAGCGTGGACCTGGTGTCTATGGTGAAGCTGGGGCTCCACCCCTGAGCCTT
CCTAGACCTTGGACTCTCAGATGCAGGGCCCTTGGCTCTGGCCTCTACCCCAAGGCTGTCTCTGGCCCTGCC
GAGCCTATGGGAGTCCCGGGACAGAGTGCCCACTCCCCTCTACTTGCTGCTCTGGGCTCCCACTTCTCTGGG
GTCTCCACATTCCCACTAGTGGGTCTTATGTGTGTCTGTGCTTCTCCTTAAACACTCGCCCTGGAGTCTGTCT
CACACCTGTGCGCAGGTTTGCACACTCAAGTTCTCATGGGCAGGCTCAGGTCTGTCCGCTGCCCTGGGCACGAG
GTCTCCTGAGGACCTGGGCCTGTCTGCTCCTAGGAGACCTGAGCCCGTTACCGCGTGACTCCACCATCCAGCT

4598/5332

FIGURE 4007B

CGCGCTCCTCGTGGATTGAGCCATGCATGGACTGGGGTGTTCCCTGGCCCATGGTCACCTGTGCCCCCTCGTGTCT
CCTCACATGGGTGTCTGTGGTTCTCTCCTGTGTAAATGTCACGCCCCACCCCTGTTTCATGTGGGCACTAACACG
TGTGCGTTCCTGGCGGGCACACTCAGGACCGTGCCTCACAGGGCCCACTCCCTGCCTATGCCTCCCTCTTGGGGG
GCCGAGGAGGGCGGCTGCTCTGTCATGAGAATGTACGGCCCGTGGATGATTAAACGGGCCTTTTCACTTAGAAGC
TGCACATTATGGAGCATTAAACACTTTTGTTCAT

4599/5332
FIGURE 4008

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCCGGCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCCGGCCCCAGGGGGGAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACACGTCTTCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCTTGGCCAAGAAGCTGCAGCTGGTGCAGGAGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCTTCCCCGGCTCCACCGGCCATCTCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTCTGACCATCTCCCGCCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACCGGGATGTTTCTTCCCCCTCTGAGCCCGGGCTTCGCCGCTCTGACTCTCTTGTCTTCCGCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTGATGAGCCTCCAGAAGCCCCCTGCAGCTGAGACTCCAG
CCCCCGCTGCAAACCCCCCAGCCCCTACTGCAAACCCCCACGGGTCTGTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCCAGCGCCTGTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTGTGCTGCAAATCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTGGGGCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGCCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCAGTGGCCAGCACAGTGAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCTCACCTAACAGCTGGTTCTTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCCAGAGGCCCTGCCAACTGACCACCTCCCCGACTGCCACTCTGGACCTAATAGCTGTTCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGCC
GTGGGGGGTGGGGGGCAGGGAGTGTAACACACAGGGCCATTGTCTACCTCCCAAAGGGACCGCCTGCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCCAGAAAGGTCAGGTATGACCTCCCGGGGAGGAATCCCACCTGCCTGTATACCCCAGACTTGCCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

4600/5332
FIGURE 4009

GGGGGCCGGTGGCGGATGGAGCCCGGATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCCC
CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCTCCA
CTCGCCACCCGGCTGCTGGCCACAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTGACGGTGCTG
GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGCTCATC
AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGAGACTCCTCTAC
AGCTGGACAGTGGGCCTGCCCCGAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCTTCTCCTCCACGGCCGAAGAATGTGATCTTTGAA
GATGAGGAGAAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
GTGAACAACAATGTGAAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
GAGGACCTCATGAAGGAAGTGTACAGCGCTGTGAGCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACA
GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCAGGAGTATCAACCTGTATAAG
CAGCTGGTGCAGGGGTGAGGAGGTCAACGGTGTGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
GATCTCTCAGGCCTGGATCTCCCGCTGCGGGCACCACTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
AGCCCTGAGCAGCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCTCAGTGACCCACA
CCCCCTTCAGGCCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCGTCGGATGCCACTGAGCCCCCAGCC
CCTGCTCTGGCCCCAGGCCCCCAGTATGGAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
GACGACCTAGACCTCCTGGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCCGGAATCCAGCAAGTGCGGTGGGAG
AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCCAGCTCC
AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCAGGCCTCCGCAGCAGCCGTACCAACCGAGCTC
TCACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTACTGTGTATGACCAG
CACGGCTTCCGCATCCTCTTCCATTTTGCCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGT
TCCATGCTGAGCACCGCCCCCAGCCATCCGCAACATCGTGTTCCAGTCAGCTGTCCCAAGGTTATGAAGGTG
AAGCTGCAGCCACCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCAGCCAGGTC
CTGCTGCTTGCCAACCCCCAGAAGGAGAAGGTTTCGCCTCCGCTACAAGCTCACCTTACCATGGGTGACCAGACC
TACAACGAGATGGGGGATGTGGACCAGTTCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTTGTTG
CCCATGGCCATTACCCCCAGGCCTGGTGCTTCTCCCCACACCCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
GCTCCGCCCCCGCCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGAAGAAGTTGGGTGATGGGGAGGAAGCACAGCTGTTGGGG
AAGGGCCAGGACCTCAGGCCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCTTATG
GGAAGGGCCAGCCATAACTCGGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCCTCCTCCATAGGAACCCAGTG
ACTGGGGGGTGACGCCTACACCCCAAGCTATTGCACTCTGGTGTGTGGTTTGACTCTGCTTTTCTTCCGGATTG
GCCCTGTGGTCACAGCCTCAGGGGGCCAGGCTGGGGGAACCTCACCTGGCCCGTACTCCTGGGGGTTTCCCTTTG
CCATTGGGCCCCCTGAGGGACTGTGGGGGCTCAAGGGTAATGCCAGAGGCCATGGCCCCAGCGAGGGGCTGTGG
GGCACCTAGAGTTCTCGGTGTGTCTCCTTATTGCTTGGCCTCTGCTGGGGCCTCCTATGGGTGTCTTACGTCTG
TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTATGAAAATAAACGT
CGTTTTTCCTGG

4601/5332
FIGURE 4010

CAGGTAGAACAGCGGCTGGAGCCGGCCAAGCGGGCAGCCACAAACATCCACAAGCGGCTGCAGGCCTGTCTGCAG
GGCCAGAGCGGGGCAGACATGGACAAGCGGGTGAAGAAGCTTCCCTCATGGCTCTGTCCACCACGATGGCTGAG
AGCTTCAAGGAGCTGGACCCTGATTCCAGCATGGGGAAGGCCTTGGAGATGAGCTGTGCCATCCAGAATCAGCTG
GCCCGCATCCTGGCCGAGTTTGAGATGACCCTGGAGAGGGACGTCTGCAGCCACTCAGCAGGCTGAGTGAGGAG
GAGCTGCCAGCCATCCTCAAACACAAGAAAAGCCTCCAGAAGCTCGTGTCCGACTGGAACACACTCAAGAGCAGG
CTCAGTCAGGCAACCAAGAATTCAAGGCAGCAGTCAAGGCCTAGGAGGCAGCCGGGTAGTCACAGCCATACGACC
ATGGCCAACAAGGTGGAGACGCTGAAGGAGGAGGAGGAGCTGAAGAGGAAAGTGGAGCAATGCAGGGACGAG
TACTTGGCTGACCTGTACCACTTTGTTACCAAGGAGGACTCCTATGCCAACTACTTCATTCTCTCTGGAGATT
CAGGCCGATTACCATCGCAGGTCAGTCTGCTGGACACAGCCCTGGCTGAGCTGAGGGAGAACCACGGCCAA
GCAGACCACTCCCCCTTCGATGACAGCCACCCACTTCCCGAGGGTGTATGGGGTGTGCTGGCAACCCACCTGCAA
GAGCTGGGCCGGGAGATTGCCCTGCCCATCGAGGCCCTGCTCATGATGCTGCTTTCTGAGGGCATGAAGGAAGAG
GGTCTCTTCCGTCTGGCTGCTGGGGCCTCGGTGCTGAAGCGTCTCAAGCAGACAATGGCCTCGGACCCCCACAGC
CTGGAGGAGTTCTGCTCCGACCCGCACGCTGTGGCAGGTGCCCTCAAGTCCTATCTGCGGGAGCTGCCAGAGCCT
CTGATGACCTTCGACCTCTATGATGACTGGATGAGGGCAGCCAGCCTGAAGGAGCCAGGGGGCCCGGCTGCAGGCC
CTCCAAGAGGTGTGCAGCCGCCTACCCCCGAGAACCTCAGCAACCTCAGGTACCTGATGAAGTTCTTGGCACGG
CTGGCCGAGGAGCAGGAGGTGAACAAGATGACACCCAGCAACATCGCCATAGTCCTGGGACCCAACTTGCTGTGG
CCACCTGAGAAAGAAGGGGACCAGGCCAGCTGGATGCAGCCTCCGTGTCTTCCATCCAGGTGGTGGGCGTCGTC
GAGGCGCTGATCCAGAGCGCAGACACCCCTTCCCTGGAGACATCAACTTCAACGTGTCAGGCCTCTTCTCAGCT
GTTACCCCTCCAGGACACAGTCAGTGACAGGCTGGCCTCTGAGGAACTTCCGTCCACTGCCGTGCCACCCACGCC
ACCACCCCGGCTCCGGCTCCGGCTCCAGCTCCAGCTCCGGCCCCAGCCTTGGCTTCAGCAGCTACCAAGGAAAGG
ACAGAGTCTGAGGTGCCTCCCAGACCAGCCTCCCCCAAGGTACCCAGGAGTCCCCCGGAGACAGCTGCCCCAGTG
GAGGACATGGCTCGGAGGACCAAGCGCCCGGCCAGCCCCGGCCACCATGCCGCCCCCAGGTCTCCGGCTCC
CGCTCCTCCCCTCCAGCCCCGCCCTTGCCCCCTGGCTCTGGCAGCCCTGGGACCCCCCAAGCCCTGCCCCGACGT
CTGGTTGGCAGCAGCCTCCGAGCCCCACAGTGCCACCCCCGTTACCCCCACACCCCTCAGCCTGCCCCGGCGC
CAAAGCCGGCGTTACAGCCTCCCCAGCCCCGCTCCCCAGGTCCAGCCTCCCCAGCCAGTCTCTTTGAGT
AACCCTGCACAGGTGGACCTGGGGGCTGCCACAGCAGAGGGAGGAGCCCTGAGGCTATCAGTGGGGTCCCCACT
CCCCAGCTATCCCCCTCAGCCCCGCCAGGAGCCTTGCTCAGAGACCAACTGAGTGGCTGGTTTCTCCCTA
AGCAGCCCTCAGCACCCCTCCCTCCCCACCTGGCCCTCCAGGACAGCTCTCGCCCCCACAAAGGGGCATGGG
CCTCCAGCCTTTGCCCAAGTGCTCAGTGCCCACTGGGTGCGCCCCCATGGCCAGGAGGGCTCAGGACAATCC
TCTATTTCTGACCTTTTCTCTGTCACCTGGGCTGGGGACCCCCCACCAGGACTCTCCACTCTCCGGCAGGT
CCTAGGGGAGCCACCGGAAGGAAGGAGAGGTTTGCTGCTCCTACGGGACTGATTCTTCTCTTGCCGACATGTTT
TTTGTAAGGCTGGTAAATAAATTATTTTGAC

4602/5332
FIGURE 4011

GCCGTGCCCGCGGAGAGAGCGCGGCGGGAGGCCGGCGCGCGGCTGCATCGCGCGCTGCGAGAGGCTGCG
CGGAGCGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCTGTTCGACTGTGACGGGGTGTGTGGAACGG
CGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCTGGCGCGGGCCGCAAGGCGGCTCTGTTTGTGAG
CAACAACAGCCGGCGCGCGCGGCCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCTGCGCGCCGA
GCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCCGGGCCTCCGGACGCGCCGGG
CGCCGTGTTCTGTGCTGGGCGGCGAGGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGCCGGGGACCC
GAGCGCGGGGACGGCGCGGCCCCGCGCGTGCAGCGACCCCGAGTGCCTACTCGTGGCCACCGACCGTGACCCATGGCACCC
GCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCCGAGTGCCTACTCGTGGCCACCGACCGTGACCCATGGCACCC
CCTGGTGGTGGGCAAGCCAGCCCCCTACATGTTTCGAGTGCATCACGGAGAACTTCAGCATCGACCCCGCAGCGAC
CACAGGAGTCTCCCGCTAGAACAGAGCCAGGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGTGCTCAGCT
TGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACTGAGCCCACTGCACCTGCAGCCACAGGCCCCCCCC
TCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTACAGAGCCATGTTAAGCACAAACCGGCTCCTTGGTCCAG
TTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGGAGGCCCTTGCAACCCCTCCCAGCAGTGGCTGGGC
ACTCTTTGCTGCCCCAGAAGCTGGTCCCCCTATGGATTCTCTTGGCCTGACCCAGCCAGGTGGCCTTATTTCTTC
CCTGTACCTCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGTACTTAGTCT
TCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCCCTCAGGTCTGGCCCTTGGGTCTTGTCAACCAGAG
GTCTAGGGAACCACAACCCCTTATTGTCTGGGTGGACCAATCCAAAGGCTAAGTGATAGTACTCATCAATGTTG
GGTCTGTGGGGTACCAGTTTAGGTTCTAAGTAATAGTGACCCTTTCACGTCTGGAGCCCGAGTGGACCAATC
GGAAGCCTAAGTGACGATGACCCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAGTGATAGTGA
CCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCTTGATAATCTGGGTCT
CACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCTAAAGACACCTCTCCTTTA
CAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCCTGGTCATGGTACCCGTACAGCGTTG
ATGGCCACAGCTCGAAGGGGGGCTTTCGTGTCCCCCTGTGCGGTGAGTGTTCAGTACCACCTCTCTCCCGTGC
CCACTTGGCTATTTACTTATTTATTTATTTGTGTGCCAGTGATGGTGGGTGGGGGCTGGGCCTTCCCCGCCACCTC
CACCCCTGTTGTGACCTGTCCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGT

4603/5332
FIGURE 4012

ATCTCTCTCGGGTGGAGTCTTCTGACAGCTGGTGCGCCTGCCCGGGAACATCCTCCTGGACTCAATCATGGCTTG
TGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCCTTCGAGTGCGAGGCGAGGTGGCTCCTGACGC
TAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCTCGCTTCAACGCCCA
CGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCTT
TCCCTTCCAGCCTGGAAGTGTTCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAGA
TGGATACGAATTCAAGTTCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCAA
GATCAAATGTGTGGCCTTTGACTGAAATCAGCCAGCCCATGGCCCCAATAAAGGCAGCTGCCTCTGCTCCC

4604/5332
FIGURE 4013

CTTCAGGGAGAGGAAGCCGGCGGCCTCACTGCTATGGGCCGCAACAAGAAGAAGAAGCGAGATGGTGACGACCGG
CGGCCGAGGCTCGTTCTTAGCTTCGACGAGGAGAAGAGGCGGGAGTACCTGACAGGCTTCACAAAGCGGAAGGTC
GAGCGAAAGAAGGCAGCCATTGAGGAGATTAAGCAGCGGCTGAAAGAGGAGCAGAGGAAGCTTCGGGAGGAGCGC
CACCAGGAATACTTGAAGATGCTGGCAGAGAGAGAAGAGGCTCTGGAGGAGGCAGATGAGCTGGACCGGTTGGTG
ACAGCAAAGACGGAGTCGGTGCAGTATGACCACCCCAACCACACAGTCACCGTGACCACCATCAGTGACCTGGAC
CTCTCGGGGGCCCGGCTGCTCGGGCTGACCCACCTGAGGGAGGGGCTGGAGACAGGTCTGAGGAGGAGGCGTCA
TCCACGGAGAAACCAACCAAAGCCTTGCCAGGAAGTCCAGAGACCCCTGCTCTCTCAGCGGATCTCCTCCCTC
ACAGCATCACTACATGCACACAGCCGCAAAAAGGTCAAGAGGAAACATCCCCGACGGGCCAGGACTCCAAAAAG
CCCCAAGGGCCCCTCGTACCAGCAAGGCCAGCGCCGCGCTCTCACAGGCAAAGCACGGCACAGCGGGGAGTGA
GACCGAGAACGAAGCGGTGCCCCAGTCTAGGCTGCGGGGACCTGTCCTTGCTCAGCTTGGCTGTCCCTGTAGCCC
AGCCTGCACCTAGGTGTGCTTACCGCATGTTGCCGCTGCTGTTTCTGCTGGGACGTCTGACTCCAGTTCCTTCTC
CCCTCTCCAGTGACAAGGTCATTTACAATTACATTTACAATTTATAGTGTTTACCAGTATTAAATTCTCAGCCA
CTC

4605/5332
FIGURE 4014

AAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGCCGAGAGGGGCGGCGGGCGGC
GGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGCCGAGAGCCGCGTCCACGTTCCCTGCCCTCCTGCTCCCGCCG /
CCCTGGGGCGCGGCCATGACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGACGAGCCTGGA
GAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCTGACAGATTCA
AGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCTGCGTTCCTGC
ACGGATGTCAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGTCTATACCTTG
TCGGCCATGACCTCAGGCATCCGGCGGAAGTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAACCTCAGCCCCA
GATGTCACCAAGCTCTCGGACTCTAACAAGGAGAAGCGCGCTGCACAGCTACAGCACCCAGAAGGGCCCCCTGAAG
GCAGGGGAGCAGCGGGCGGGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCAGCGTCAGGCC
TTGGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGGCCGACCCAGCCGCACTCCTGAC
CGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCCAGCGCTCCGAGGAGCGGCGCAAGTGGTTTGAGGCC
ACAGACAGCAGGACCCAGAGGTGCCTGCTGGTGAGGGGCCGCGCCGGGGCCTGGGTGCCCCCTGACTGAGGAC
CAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCCTGCGGGAGAATAAG
CGGGTGCCCCCTCACTGCCCTGCTCAACCAAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGGCCACGAGGCA
CTGGAGAAGGAGGAGGCATGTGAGCGCAGCCTGGCAGAGATGGAGTCCCTCGCACCAGCAGGTGATGGAGGAGCTG
CAGCGGCACCACGAGCGGGAGCTGCAGCGCCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCC
ACGGCCTCAGCCATTGAAGCCATGAAGAAGGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGT
CTCCAGCAGGGCCCGGATGGCTCCGGAAGCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTG
CTATCGGAGCAGTACTCGCAGAAGTGCCTGGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACG
CTGCGCCGCTGCCAGCAGGAGGGCCAGGAGCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTGAGAGGAG
ATAGACCAGCTGCGCGGCTTCATTGCCTCGCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCC
TGCGAGCTAGAGGTGCTGCTTCGCGTAAAAGAAAACGAACCTCCAGTACCTAAAGAAGGAGGTGCAGTGCCTCCGG
GACGAGCTCCAGATGATGCAGAAGGACAAGCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGC
CACATCAAGACACGGTCTGAGCGGGAGATCGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAG
GAGAAGGAGTGCATGCGCAACAGCCTGGCTGAGTAGAGGTCCCGCCCAGCTGCAGACCTCCAGGCTGGAGGACC
AGCCGCCCTCCTTCCCTCCTGGATGGAAGTAAAAGCCAAGCTTTCTCCCCACCTCTGTGGGCCACACGTGCAC
TTGCACCCACCACACACACACACACACACACACACACACAGACACACAGACACATACGCACACACGTGCAC
ACATGTACACACGGATACACACACACACACACACTGCATATCTGAGCGCGCCCCCTCGCACTGGGTCTCACCTT
GCACCTTCTTCAGGATTTTATATGTGAAGAGATTTTTATATAGATTTTTTCCTTTTTTTCCAAAACACTTTATA
CTTTAAAAAAAAAAAAAAAAAAGCAATTCCTGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCA
CCCTCTGCTTGGGCTTCTGAGCTGGTGGCCCTGGCCCAGAGGTCTGGCGGAGGCCCAGGCAGCAGCCATGGCGGG
GTGTCTCTACAGGGGAGAGGCGGGAGCCTGCCACCCTCTTCTGCCCCACCTCCTACTAACACTTCTGCCCCAT
TTGGACCCGTACCATGGGGCTCAGGACAGAGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGG
CTGTGCTGGGTGCAGAACCGCCAGAGCCACCCAAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTAATA
AAACGTTCCAGCAGCT

4606/5332
FIGURE 4015

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCAATG

ACCGAGAATTCCACGTCCGCCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATTAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCTCAAGCAGACCAAAGGGGTGGGGGCTCGGGGTCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAGCCCCAACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAAACCAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGAACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCTATTTTCTGTAATAATTTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCT
TTTGCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTT
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTTGTGTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGGAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCCTTCTCATTTTTGTTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATTCTCTTGTTAAACCGGAGTGAAACTTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCCTCAGTGTGCCCTGTTGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCTAGGAA
GACTTTTTCTTTCTCTGGATTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTGGTGGGGCTGCGGCC
ACTTAAACCTCCCGATCTCTTTTGTAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTTGGGATTTGCTAAGTAGTTTACAGAGCTAGATCTGTGT
GCAITGTGTGTTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTACACCCGGGAGCTGGGAGAAAAAA
CCTGTACAGTTGTCTTTCTTATTTTAATAAAATAGAAAAATCGCGCACTTGC GCGTCCCCCCCCACCCCT
TTTTTAACAAGTGTTACTTGTGCCGGGAAAATTTTGCTGTCTTTGTAATTTTAAACTTTAAATAAATTGGAA
AAGGGAG

4607/5332
FIGURE 4016

GGTTTAAGCTGGAAGGGTAGTCATTGGTTCGCCGCTCTGTCTCGGCCTGAGCCCGCCCCGCTCGGTTGCCGTGG
TTGCGGGCCCTGCCCCGCCAGCTCGCTGACAGCAGACTCAGGGCGGAGGGAAGTAGGTCCGTTGGTCGGTC
GGGAACGAGGCTCAGGCGGCCAGGCCCGCGCGGAGCCGTTGCCATGSCAGCCGCCCGGGGACGCGGACGACGA
GCCGCGCTCAGGCCACTCGAGCTCGGAGGGCGAGTGCGCGGTGGCGCCGGAGCCGCTGACTGACGCTGAGGGCCT
CTTCTCCTTCGCTGACTTCGGGTCTGCGCTGGGCGGCGGCGCGGGCCTCTCGGGCCGGGCGTCCGGCGGGGC
CCAGTCGCCGCTGCGCTACTTGACGTCCTGTGGCAGCAGGATGCGGAGCCGCGCGACGAGCTGCGCTGCAAGAT
ACCCGCTGGCCGGCTGAGGCGCGCTGCCAGGCCCCACGGCGGCTCGGGCCACGGGCAAGGAGGTGCACGCTCT
GAAGAGACTGAGGGACTCGGCCAATGCCAATGATGTGGAAACAGTGCAGCAGCTGCTGGAAGATGGCGCGGATCC
CTGTGCAGCTGATGACAAGGGCCGCACAGCTCTACACTTTGCCTCATGCAATGGCAATGACCAGATTGTGCAGCT
GCTCCTGGACCATGGTGCTGATCCTAACCAGCGAGATGGGCTGGGGAACACGCCACTGCACCTGGCGGCCTGCAC
CAACCACGTTCTGTCTATCACCACACTGCTACGAGGAGGGGCCCGTGTAGATGCCCTGGACCGAGCTGGTCGCAC
ACCCCTGCACCTGGCCAAGTCAAAGCTGAATATCCTGCAGGAGGGCCATGCCCAGTGCCTAGAGGCTGTGCGTCT
GGAGGTGAAGCAGATCATCCATATGCTGAGGGAGTATCTGGAGCGCCTAGGGCAACATGAGCAGCGAGAACGCCT
GGATGACCTCTGCACCCGCCTGCAGATGACCAGTACCAAAGAGCAGGTGGATGAAGTGACTGACCTCCTGGCCAG
CTTCACTCCTCAGTCTGCAGATGCAGAGCATGGAGAAGAGGTAGCAAGAGAGGCTCCCTGCCITTCTGCCACT
GCCCCACCTGCCCCACTGCTGTCTCAGTACCAAGAAAAAGCCCAACATCTGGGACTTGGAGCTGCACTTGTCTG
GTGAGGACCTTGCCCTCACC CGCAGATGCCGTGGGGCAGAGATGCTCTCTCTCCACGGCCTCAGAGCCACTCCCA
GCCACAGTTTCCAGCATCTCTGTGGACAGGGACCACAGCTCCAGCTTCTTCCAGTTCTCGCAGCACCAGACCAG
CCTCTGCAGCTGCACTTCAGCTCCGCAGACCTGCGCTATCTCAGCAGACCTCACTTGCCCCATGGCCTTCATGGC
GCGCTCCAGGCCTCAGACCCTTCTCTGTGTTCCGTCTGGCCATGGGCTTGTTGAGTCAGCAGGTGTGGGCTTA
GGCGGGCACCTGTGGCCAGGGGTACTGCGTGAGGCCCTCAGTTGGTCCTGTGCCTCTCACCAGCACTTAGACAG
ACACGTCACCAGACTTTCAAGGAGATACTGCAGTGAGTTTCTCTGGTTGGAAGGGGAGGGTTGGTGAGTCCAGA
CCTTAAAAATACAAGGTTAAGAGGGACCCCAAAGCAAAAAATTCCAACCCTTTTCTCCAGTCATTGAAACAC
AAAATATTATACCGGAGGGTGTAAATAGTTTGTGTCGCCAGTTGTGGTAGGCCAGTAGTGGCTCCCAAGATGCC
CATGTCTTAATCCAGGAACCTGTCAAAATTACCTTGATGGCCAAAGGGGCTTTGCAGATGTAATGAAGTTAAG
GATCTTTTCGCCAGGAAGATTATCCAGCTTGTTTCAGGAGGGCTTGATGTCTCACC CGGTCTGTATAACAGAAG
AGCAGGTGACGGGAGAGGAGGTTGGAGGTGTAGCGATGGAGCAGGAACTGGAGTTGAGGAGGGCAGCTCAAGCC
ACAGAGTCCAGGCCACCTCAGAGCCAGGAAATGCATCCTCCACAGAGCCCTGGAAGCCCCAGCCCTGCTCCCA
CCTGGACTGGCTCAGTGAGGCTAATTTTATAATTCTGGCTGATTTTAGAACTCTAAGGGAATAAATTTGTGTTGT
TTTAAGTC

4608/5332
FIGURE 4017

TCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCCATGCTTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTATG
ACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAGT
ATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGCTCAG
ATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTATG
AGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAGG
CTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAATTATACTACAGGCACA
TATATGCCAAAGTCAGTGGGGGACCTTCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTCA
ACTACATTCTTAATGCCGATGGTCCTGCTCCCTTGAACCTACCCAACAGTGGCTCTGGGATATTATCGATGAGT
TCATCTACCAGTTTCAGTCATTTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTTC
TTCGTTCCAATCCCAAATCTGGAATGTTTCATAGTGTCTCAATGTCTTTCATTCCCTGGTAGACAAATCCAACA
TCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCCC
TCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAGG
CCATCAAGGTGCTGGAGAACATCGAACTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACCA
CATACTATTATGTTGGGTTTGATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATCC
TCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAACAAGCAGAATG
AGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATTGATGAGAGCATTACCTCCAGC
TGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGTT
ACTCCTGCCCCAAGTTCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCACTACCACAAAGAGCCCT
TCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTTTCAACCATCCGCAGCTTCCTGA
AGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCTGGACCTCACAGAGCAGGAGTTCGGATCCAGC
TTCTTGCTTTCAAACACAAGATGAAGAACCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCAGT
CAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTATG
GGGATTTCTTCATCCGTGAGATCCACAAATTTGAGGAGCTTAATCGAACCTGAAGAAGATGGGACAGAGACCTT
GATGATATTACACACATTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTGCTACCGTGAAACCT
TTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGATCTCAGTA
AAGGATCTTTGGAGCCAGA

4609/5332
FIGURE 4018A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGGCGGGCCGCGGGGTCATGGCTGGGCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCGCCAGTGCGAGGGCTACCGCGGCGTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCGACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGTCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCGCCGCTCTGTAGCACCCAC
TCCAGTGGAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTCAGAGCAGGGCACCGGCCA
GACCCCCAGCAGCACGTGCGCAGCCTGCCAGCAGCATGTGCACCTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCAGCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGTCAGAACACTGTGCCAGGCTGGGCCCGGGACACGGTCGGGGACAGGCCTGGGCC
CTTCTCAGAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAAGGCCAGCCCTGAGGCCGCGCCGAGATCCCTACCAA
GCCCCGGGTTCTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCCACCCCTGCCCCAGGAAGGC
CTCTGAGAGCACCACCCAGCACCACCCACGCCCCGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAGCCCCAGGAAGGACCCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAAGCC
AGCCCCACTTCCCCAAGCAGCAGCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAGCCCTGCCCTGGGCCACCCGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTCTGTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCAAGAGCTCCTCAGAGCCTGTGTCCATGCCCTGGTACCCCTGGAAACCCTGTCAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAAGTAGTGAGCCTAGAGTGGAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGAGCTCAGGTCCCCAGCCAGCCAAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCTCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCCCTGGACACGGCTTTCCACTCATCAAACGCAAGGTCCAGGCTGACCAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATAACATTGAGCGCCGCTGGATGCCCTGGAGCACCGTGGGGTGCTGCTGGAGGAGAA
GCTGCGTGGCGGCCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGCGGCGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGGACCGGGCCCCGGGAGAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAACAGCACGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTTTCTTCTCCGAGCCCCAGG
CAGCGGTGATTAGCCCTGCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAAATAGGG
TCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCCCTCACCTGCCAGCCCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCCTCCAGGGTTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGCTTCTGCTCTGTGCAGGCGCCCTTGATCTCAGTTTCCCTCACTCA
GGAATCTGTTTCTGAAGTCTTCAAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTGACAGCTGAATGGG
CCTGACGGGGCAAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTAGCTGCTCCAGTG
CTGTCCCCAGGCTGCAGTCTTGGTCCCTGGTTGTGAGGTAGGAAGGGTGCAGTTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCCGTCCAGGAAGAGGCTCGCTCCC
GCCCATGGTCACTACTGGTCTGTCTGCTCTGTTGCTGTTCTTTCCCTGACTCCCTCCACCGAAGGCCTGATGG

4610/5332
FIGURE 4018B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAACCTCTCGAGGAGTTTCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCTTCCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACCGCCTGCCACTGGGCA
GGATCCCTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTTCAGGAGACAAAGCTGGCAGGGGCAGGGGTGAAGTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCCGTGTTGCCAGATCCTTTGTCATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTACGCCATCCTC
CTGCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTGTATTTTTTAGTA
GAGACGGGGTTTACCCTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCCGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCTGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACCTGTTCCCATTAGATTGCACCCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCTGAGCCGGCCTTGATTGGGGCCTCACCATTACAGGGCCGTTTTATTCTGCAAACC
GAAACTTGGGTGATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTGAGGACCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTGAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTACGCGGCACATGCAGGGATTGGAATCCCAGGCCAG
GGCTCTAGGTCGCTCCCACCTTTTCATGTTTCTTCTGTGGCCATGGGTATAGTGGAAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGGTTGTGGTATCTTGTGAGACTTAGTTTTT
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAAACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

4611/5332
FIGURE 4019

AGTCCTCCCATGGCTTCACAGAAGCAGATGGAGGTAGTGACCAAAGGAACTGGGTTCCGGCGCCGCCCAAGACC
ATCACTTACACCCCGGGGACCTGCGAGCTGCTCAGAGTGATGATGAAGGAATCCAACTGACGAACATCCAGCAG
CGCCACATCATGGACATCATGAAAAGAGGAGATGCTTTGCCCTACAGTGCAGCCCAACATCCAGCCAGAGAGTC
TTACCTTCCAAGCAAATAGCCTCGCCCATCTACCTGCCTCCCATCCTCGCAGCCCGTCCCCACCTCCGGCCTGCC
AACATGTGTCAAGCCAATGGGGCCTACAGCCGGGAGCAGTTCAAGCCTCAAGCCACCAGGGATTTGGAGAAGGAG
AAACAAAGACTCCAAAATATCTTTGCCACAGGGAAGGACATGGAGGAACGGAAAAGAAAGGCCCTCCTGCACGA
CAGAAGGCTCCAGCCCTGAGCTAGACCGATTTGAAGAGCTGGTGAAGGAAATCCAGGAGAGGAAAGAATTCCTG
GCTGACATGGAGGCCCTGGGACAGGGCAAACAGTACCGAGGAATCATCCTTGCTGAAATCTCCAGAAACTCCGG
GAAATGGAAGACATTGACCACAGAAGGAGTGAGGAACCTAGGAAGGGTCTTGCCACCACTTAATCTGTCTCCAGA
GACGGGCAGGGTAGCCCAAGCTCGACCACTGGAGTCCACTCCTCTGCCAGGCAGGGCCATCCTCAGGCCAGCCCA
TCCTACCAGCCTTCTGCCACGTCAGGTGGTGGCATAGCACTGCCCTGCAGTACCCCAAGGCATACTCAGCAGCCT
AGCCCTTGCCCCGGAATGCAGATGGAGCCTCTGAGACTCACAGCCCGTCCGCAGAGAAGCAAAGCCCGAGCATC
CCTACTAGGACATGTGTCTAAAGGTATCCACTGGGCCTGCTTCCCACCCTTCTGACCTGTGGCCTGTTTATTTA
GTTTTCTGAATTCAGGAATGAATATGATTCTTTCTTCTGTTTTAGGATTTACTTATTTGATTTCTTACCGCCT
TAGGCAAGTATTCAACCACAATGATTAACTGGCCAATAAAACATATTAAACGTGGGTCATTACAAGCACCATTTT
GTTTTCAGAGGGATAAGCTTATTTGTTCAAGGCATTAGACTTTGTCAAGCCCAGATGGTTTCTAGCTACCTGTTT
GCATATTTCAAGTGGCAACGGGAACCAACCTCTTGGGCACCCCATGGCTGGCTGCTGTGGCGGTGCTGAATTCC
ACTCTGTTAATGATCTCAATAAACCTCTGCAACGGTT

4612/5332
FIGURE 4020

GCGCGAGTCGTAAGTGTGCTGTTTGC GGGTCTCCGCGCGGGACCGGGGCGCAGCGGGGTGCTGAGGCGAGGGTG
TCATGTCAGACAACGAGGACAATTTTGATGGCGACGACTTTGATGATGTGGAGGAGGATGAAGGGCTAGATGACT
TGGAGAATGCCGAAGAGGAAGGCCAGGAGAATGTCGAGATCCTCCCCTCTGGGGAGCGACCGCAGGCCAACCAGA
AGCGAATCACCACACCATAACATGACCAAGTACGAGCGAGCCCGCGTGCTGGGCACCCGAGCGCTCCAGATTGCGA
TGTGTGCCCCTGTGATGGTGGAGCTGGAGGGGGAGACAGATCCTCTGCTCATTGCCATGAAGGAACCTCAAGGCC
GAAAGATCCCCATCATCATTGCGCGTTACCTGCCAGATGGGAGCTATGAAGACTGGGGGGTGGACGAGCTCATCA
TCACCGACTGAGCTGGAGTCACTTCCTGCCCTTGCCCCATGCCCAATTTTCATTCTCACTTTATATGTGTAAAT
AATAAAATATTCAACTTTCC

4613/5332
FIGURE 4021

CCGCCAGGTGGAACGGCAGGTGGGTTTCAGGTACCAGCCTGGCCGGGACCCGGCTGTGGGACCAACGCTTCCGGTG
AGCGACAGAGGCAGCTCCCCAGGGCCTGGAGACCCGTGGGGCGGACTCTGGGATCTGAGCCTATCGCCCTGGCCT
GGAGCCCCCTTTGTACCTATTCCCCATTCCCCTACCGAGCTGGGCAGTTAGCCAGCCCACTCCAACCTCTCGGAA
CCATGTTTTCAGACTTGGATTATGACATCGAAGAGGATAAACTCGGAATCCCGACTGTGCCTGGGAAGGTGACCC
TGCAGAAGGATGCTCAGAACCTGATCGGGATCAGCATTGGAGGAGGGGCCAGTACTGTCCCTGCCTCTATATCG
TCCAGGTATTTGACAACACCCCAGCAGCCTTGGACGGCACAGTGGCAGCTGGCGATGAGATCACCAGGTGTCAATG
GCAGGTCAATCAAAGGGAAAATAAGGTGGAGGTGGCGAAGATGATTCAGGAGGTGAAGGGGGAGGTGACCATCC
ACTACAACAAGCTGCAGGCGGACCCCAAGCAGGGCATGTCCCTGGACATTGTGTTGAAGAAAGTCAAGCACCAGGC
TGGTGGAGAACATGAGTTCAGGGACCGCAGATGCTCTGGGCCTGAGCCGGGCCATCCTGTGCAATGATGGGCTTG
TCAAGAGGCTAGAGGAGCTGGAGCGGACCGCTGAGCTATACAAAGGGATGACGGAACACACCAAGAACCTCCTAC
GGGCCTTTTATGAGCTGTTCGAGACTCACCGGGCCTTTGGGGACGTGTTCTCCGTGATCGGGGTGCGGGAGCCCC
AGCCAGCTGCGAGCGAGGCTTTTGTGAAGTTTCGCCGATGCCACCGCAGCATCGAGAAGTTCGGCATTTCGGCTTC
TGAAAACCATCAAGCCGATGCTGACGGATCTGAACACGTACCTCAACAAAGCCATCCCGGACACTCGCCTACCA
TCAAGAAGTACCTGGACGTGAAGTTTGAGTACCTGTCTGCTACTGCCTGAAGGTGAAGGAGATGGATGACGAGGAAT
ACAGCTGCATTGCCCTAGGCGAGCCCCCTTTACCGGGTGAGCACCGGCAACTATGAGTACCGCCTGATCCTGCGCT
GCCGCCAGGAGGCGCGCGCCCGCTTCTCCCAGATGCGCAAGGATGTGCTGGAGAAGATGGAGCTGCTGGACCAGA
AGCACGTCCAGGACATCGTGTTCAGCTGCAGCGCCTCGTGTCCACCATGTCCAAGTACTACAACGACTGCTACG
CAGTGCTGCGGGATGCCGACGTCTTCCCCATCGAGGTAGACCTGGCGCACACCACATTGGCCTATGGCCTCAACC
AGGAGGAGTTACAGATGGGGAGGAGGAGGAGGAGGAGGAAGACACGGCAGCTGGGGAGCCGTCCAGGGATACAC
GAGGGGCTGCTGGGCCCTTGGACAAGGGTGGAAGCTGGTGTGACTCCTGAGTGCCCCGCGGCTGTGGTGCCGGGG
GCAGGGTGCCTGGGAGGACGGAGCCTGGGAGCGGGGCGGGGCCGCGCGCAAGGGGGCGACGCATAAAGGCCTGC
TGGCTTGGGGCGCCTGCCTCCCTGCTCCTCTGTCTCGCACAGCGAACCTGGGCTCCTGCCCAGGACAGGCACCA
GGGTCAATGGCCTGGGACCTGGGACTGGCCCCCTCACCCCTCCCTCCCTCCCGGCTCCCCGGCCAGAGGGAGAGC
TTGGTCTCTGGACCTGCCTTAGGAAGGAGAGGGAGGGCAGGAAGGAAAAGAAAGGACTTGGAGGTGGCAGGAGTC
CGAGCCCTGCTCCTTGTTGGGCGCTCACACTGCCCCCGGAGCCTGCTGGGAGTGGGGCCAGCCGTGGACAGCTGAG
GTTGGGGTCAATGCCTCCTGGGCACCCTTGCTCGCCCCAGACCGGCCCTCCAGTCCCCATCACACCTCGGCGG
CCTTTATTTATTCTGTTCCCCAGCTCGGCCACTTCTCTGAAGGAGGGCTGGGTCTGGGCCTGTATCGAATAAA
CACAAACCTGGATGGCGCA

4614/5332
FIGURE 4022

CTTACAACCTCCGCGCGGCTCGGCCCTCGGCCCGCCGCCCAACAACAACTCAGCGCAGCGCTCCCGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGGGATCGGGACAGCGGCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGACCAAGCGGGCCAGAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAACATGCTCTGTGGATCCCCATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTGCGACGAGGCGCTGATGGGGCTGTGCGGTGCGCGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCAGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCGGGGCGCCACGCTCGTGGCGCGCGGCGAGCGTCATCACCATCGTCAAGTCCACCCGGGCTCGGGGT
CTGGCCCCCGCCACGCGCGGACCCGCGCCACGCGCGGCTCCTGCTCCATGCTGCGCGCGCGCGCGCGCGCGCG
GCCAGCCCCCTCCGGCCTCAGCTCCCTCCCAAGTGCCTGAGCGCGCGCTCTGTGCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCCTTGGTGACACACATTCCCTTCGTGGGCGCTGTCTTCTCTTGCAGCCCCCAAACTGGGAC
CGAATGACCCTGGGAAGGGGAACCTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGGAAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCCTCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCTGCTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGGCTGGGGT
GCCTGGCCTTCCGAAACTAAAAGAGTGGGTGGGAAGACTAGTGAACCCAGTTCACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTGGGACCAAAACCTGGGTGTCTCACTGCTGCCCTGAGTCCAGCCATG
GTTTTAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTG
CAAGGGAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCCTGGCTC
AGCCCTAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGG
CAAATAGGGAGACAAGGAGACAGACCCTGCAGTCCTACTACAGTCTGGAGTGGGGTCTAAGAAGAAGGGTCCCA
CCTCAACCCTGTGAGTGTCCACTGTGGGGTGGGGGCTGACCCCTGCCTTTGATTGTCACTCTCTGGGAAGCCC
AGTCTCAGTCCCTCCCCAACACTGTCCACACTGCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATT
CTCCCCAGCCAGAGCCCAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTTTAT
ATCTGCAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAATGTTTAAGCCGGG
CGCGGTGGCTCACATCTGTAATCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGA
ACCAGCCTGGACAACATGGTGAAACCCATCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCC
TGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCAGAAAGGCAGAGGTTGTAGTGAGCTGA
GATCGCACCACTGCCTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCC
GGCTCCTAGAATTTATTTATTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAA
TAAAGTCAAATCTTTCTTTTTCACAGAG

4615/5332
FIGURE 4023

CGGGACGCGCCGGCGGGCGGGGAGACTCCGGGGCTGCGGCGCCGCCCGCCCCGCGCAGAGTCCGGCTGCCGCG
CATCGTCCGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGCTCACTTTCTGCAAAGGTTTCCCTCAGG
GAGCCTCCTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGATCCAGCGTCGCCACGACCGC
AGCAGCCTCGCCAGCGTCTCCGTGATCCCCGAGGGCAGCCCCACTGCCATGAGCAGCCTGTGTTCTGTATGAC
AACTGCCGCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCA
CCTGCGCTGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCATCCTCTTCATCGTGCCCATCTACGCCTT
TGACTCCTGGCTCAGCCTCCTCTTCTTACCAACGACAGTACTACGTGTACTTCGGCACCGTCCGCGACTGCTA
TGAGGCCTTGGTCATCTATAATTTCTTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGA
GATCAGAGGAAAACCCATTGAGTCCAGCTGTATGTATGGACCTGTGCTGCCCTTGCGGAAAGACTTATTCCATCGG
ATTTCTGAGGTTCTGCAAACAGGCCACCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTGAGCACTGTGGT
CCTCCAGGCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTACCAAGTGCTACCTCTACGTGACCATCATCTA
CAACATCTCCGTGAGCCTGGCCCTCTACGCCCTCTTCTTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCCTA
CAGCCCCGTCTCAAGTTCTTCATGGTCAAGTCCGTATCTTTCTTCTTCTTGCAAGGCATGCTCCTGGCCAT
CCTGGAGAAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGCTGGGCGAGGGCACCGTGGCTGCCGG
CTACCAGGACTTCATCATCTGTGTGGAGATGTTCTTTGAGCCCTGGCCCTGCGGCACGCCTTACCTACAAGGT
CTATGCTGACAAGAGGCTGGACGCACAAGGCCGCTGTGCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGAC
CATGAACCCGCACGACATCGTGCAGGACGCCATCCACAATTTCTCACCTGCCTACCAGCAGTACACGCAGCAGTC
CACCTGGAGCCTGGGCCACCTGGCGTGGTGGCGCCACGGCCTCTCCCGCTCCACAGCCTCAGTGGCGCCCG
CGACAACGAGAAGACTCTCCTGCTCAGCTCTGATGATGAATTTAGGTGCGGGCTGCAGTGGCGGAAGTGTGGC
GCCATAGCCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACACCAGGCCAGGAGGCAGCTGGCACAGTGTCTAC
GCCGCTTTATTTATTGGACCAGAAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCAT
GGGCCTTCAGGAATATTTATACATGGCCAGCCTGCACTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCT
TATGCCCTGTGCGCGTCTGTGCTGGGGGATGCTGGGACCAGCCGCACCCAGGCCCAATGCTTGTGTGTGG
ACCAGCGGCTGCAGCCTTCTAGCCCTCCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCC
ACACACCGTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCTGCATCCCTCCCTGTCCACCTTTGTCCAGTGC
TAGATTACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCTCCCTCCTGACCCAGGCCTCTGT
GGCATGCTGCAAGGATCAGAGCCAGACACAGGAGTACAGGCCCCACCCAGGAAGGGCATTACAGGGCCCTGGG
CACCGCTTCTGTTGAAGCAGGGGCTTCTGGGCCCCCTGGGTATCCCCACCTGTCTGGCCACACCTCTGCCTGCCT
CATGCCCTTCCCCCTGGCCTACCAAGGACAGCCACAGCCCGCACTGCCGGCTCACTTGGGTCTTCTCTCGATA
GCTTTGGGCAGAGCCCTTGCTTCTGGCTGCTTCAGGGCTCAGGGGCTCCAGCCCTCCTTCCAGGCTGATGCT
GGGTCTCTCTCTCTTTGGGGCTTCTCCCTCCCGTTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTTCAGACCAGCT
TCTGGGGGAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGGAGCTGGGAGGTGGGGGAATG
GTCCAGACTCCTCTCGGGGCCCTATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCCCTGGCCCATCTCT
TCTGTGCCTTAGTCACATATGAAAGCGCCCTCCCTGGCTCCCCATCTGTCCACACGCTCCCTGGGGCTCTTAG
TTCAGCTGCTGGCACTCGCAGGATCCTGCAGTGTGGGCCCAGAGCCCTTGGACAGGCCTCAGGAGTGGTCAGGA
CCACCAAGCCCCCTCCTCTCCCCCTCCACACCTCTAGACCTGGGGCCTCCGGAACCCCCAGCAGGCTGGGCTTATA
CTAGCTCCTGACTTAGGAAGAGCCTCGTGTCAACAACAGTGTCCCTACAGGCAAAGTGTCTGGCATTATAAAC
CAGATTATCCCTGGGTTTGGGCTGCAGTCACTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCTGCCGGTGT
CACTGGGGATTCTTTCTTTTGGTCTTCTTGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGG
CCCAGCCGTCTTCTGGCCTCCTTCTTCTCGTGGCAGAGGCCTGCATGTGGGTGCCAGAGGCCAGCTCTCCC
CCTCCATCTTGGGGGGGCGGAGCAGTTGGGCCCCAAGCTGCCCGGGAGGGTGGGTGCAGACACAGGCTGAGGACCA
GCCCTGGCCCTGCCCCGCCATCTGCTTTCACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAA
AGTGCTGCTGATTCCCACTCCCTTGGTTTTTCGCTGCCAGCGTTGCTGTTTGGCTGGAGGGTGGGGGGAGCTCA
GTGGCAGGGAATCAGCGGTCCGTGGGGTCTGGGGACGGGAACATGTGCCCGACCGCTCCATCCCCCTCCTCTCC
TTAGGATGCATAACCTACCTTGTCTTTTTTTTTTAAATTTCTTCCAGGTAGAGTAGCTCTTGTACATAAAG
AATACTTGAAAAATTAATTGTATGATGTATGAGAAGACAGAGTCTCCTAGTTTTGTATCTTGTGTATGACTGCC
ATGAGTCCACCAGAAAGCCACTCTATTTGGTCTCTGTGACATTTAAATGCGTGACAGAAGTGAGCAAATAAA
GTGAGGAAGAAATCTATATATGAGATAATATAGATTGTATTG

4616/5332
FIGURE 4024

AGGCCGGGAGGAGGAGGAGGCGCGCGCGCGCGCGCGCGCGCGCGAGAGCCAGAGCCAGAGCCCGCGGGCGCC
 AGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCTGGGCGGGAGAGGCTGGCGCGCCGGGCGGCTCCGCGAATC
 CTCGGCATCCGCCCGCGGGCGCGCCCCCGCGCGCGGAGCCCCAGCAGTGGCCCCGCATCGGCGCCTTCC
 CGGCGGGCAAGAGTGAGCCATGGAGCTACGTGTGGGGAACAAGTACCGCCTGGGACGGAAGATCGGGAGCGGGT
 CTTCGGAGATATCTACCTGGGTGCCAACATCGCCTCTGGTGAGGAAGTCGCCATCAAGCTGGAGTGTGTGAAGAC
 AAAGCACCCCCAGCTGCACATCGAGAGCAAGTTCTACAAGATGATGCAGGGTGGCGTGGGGATCCCGTCCATCAA
 GTGGTGCGGAGCTGAGGGCGACTACAACGTGATGGTCATGGAGCTGCTGGGGCCTAGCCTCGAGGACCTGTTCAA
 CTTCTGTTCCCGCAAATTCAGCCTCAAGACGGTGCTGCTCTTGGCCGACCAGATGATCAGCCGCATCGAGTATAT
 CCACTCCAAGAACTTCATCCACCGGGACGTCAAGCCCGACAACCTTCTCATGGGGCTGGGGAAGAAGGGCAACCT
 GGTCTACATCATCGACTTCGGCCTGGCCAAGAAGTACCGGGACGCCCCGACCCACCAGCACATTCCCTACCGGGA
 AAACAAGAACCTGACCGGCACGGCCCGCTACGCTTCCATCAACACGCACCTGGGCATTGAGCAAAGCCGTCGAGA
 TGACCTGGAGAGCCTGGGCTACGTGCTCATGTACTTCAACCTGGGCTCCCTGCCCTGGCAGGGGCTCAAAGCAGC
 CACCAAGCGCCAGAAGTATGAACGGATCAGCGAGAAGAAGATGTCAACGCCCATCGAGGTCTCTGCAAAGGCTA
 TCCCTCCGAATTCTCAACATACTTCAACTTCTGCCGCTCCCTGCGGTTTGACGACAAGCCCGACTACTCTTACCT
 ACGTCAGCTCTTCCGCAACCTCTTCCACCGGCAGGGCTTCTCCTATGACTACGTCTTTGACTGGAACATGCTGAA
 ATTCCGTGCAGCCCCGAATCCCGAGGATGTGGACCGGGAGCGGCGAGAACACGAACGCGAGGAGAGGATGGGGCA
 GCTACGGGGGTCGCGCAGCCCGAGCCCTGCCCTTGGCCACCCACGGGGGCCACTGCCAACCGGCTCCGCAGTGC
 CGCCGAGCCCGTGCTTCCACGCGCCAGTCTCCCGCATCCAGCGGCTGGCAATACTTCTCCAGAGCGATCTCGCG,
 GTTCGACCGGGAGAGGAAGGTGAGTATGAGGCTGCACAGGGGTGCGCCCGCAACGTCTCTCTCAGACCTCAC
 TGGGCGGCAAGAGGTCTCCCGGATCCAGCCTCACAGACAAGTGTGCCATTTGACCATCTCGGGAGGTGAGGGAGA
 GCCCCATTGGACCAGTGTTTGCTTAGTGTCTTCACTGTATTTCTTTAAAAAAAAAAAAAAAAAAAAAAGGCA
 AAAATAAAACCACTCAAAAGAACAACAAAAAACCCAGCAC

4617/5332
FIGURE 4025

GCTGACAGCTTGTGCCACCATGGGCAGCAGGGCCAGGCAGGGCGCTGTCTCCCGTCGGAACAAGGAGGATCTGGC
TTCACCTGGGGTCCCTCCTGGGTGCCCCGAGCAGGGCATGGGTGGTGCTGGCGGCGCCCCCTGCTGCCCTGATTG
CTGCCTACACCGTCCTGTCTGCTCCTGTTCTGCACATCCCAGGTGGCTACCTGCACCATGGCCCCCTCGGGCCAGCC
TGGACCCAGTCATGGTGCTTGTCTTTCTTCTTGGTCATGGGCCCCCTGGGTCTGGCTAGGCAGTTGTTCTGTTTCCC
TCTTTTAAGAGTCCCAGGGGTGGGGTTGGGTGGGGAGCAGCATTGGCCGGCCGTACCCAGAGCTCTGGAATCTGT
GAAATTGTATGTCTTGTTCACATCTCTTCTGGAAAAGGGGGCTTCTCGAGCCAGGCTCAGCCCCGTGACAGCC
CCATGACAGCGAAGGGACCTTTCTGTCCCCGCCCCCTGTCCCTGTGCTGGGCCCACGTACTCACCACGTACTGGT
AAGGATCCTCTGAGGTCTGGCTTTTCCAAAATTTGCCACTTGACCAGTGAGCGCAAGAGGCTGAGCCTCAGCTGT
GCTTTTTGTCCCTTTTCAGGTGCCCGGCTCCCCTGGGCACCCAGAGCCCCCAGATAGGCCGGTGGAGGAGGTGGA
GGAGCTGTCCCCCAAACTACTGGCCTGTGGTCTGGACTCCAGGGCCCCATTCTGATGTCGCCAGGTGTGCCT
GAGCCCATCGGGGCCAGGCTGAGGAAGTGTCTTGGGAGGATGGGATGACCCCTGTTCCTCAAGAGATGGCAG
CACAGTGGAGGCCATGGTGGAAAAGGCCCTGCCATGGGCTCCTTGAGGGCCAGGACAGCCTGAGGGAGGGATGGT
GGCCACTGCCACAAGGGGCTGGTGGGAACGGGTCCCAGGACAGACTCATAGCTAGACCCGTTGGCGGCCTCT
GTGTTGAACCAGAACTCATTAACACCTCCTTGTCTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCT
CACCCTGCTAGATGGTTAGGACCAAGGCTCTGTTCTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCT
TTCTCTCTGGGTTTCTTGTCTACTAAGGAGTAACACAGAGGTGAGGCAGAGAATGGGGGTCTCGCAGGCTAGGGA
CCTCAGGGAGAGGCTCTGTTGCCCTTTTCAGCAAGGCTGGAAATGGGATATGGGCAGGGGACGTCTTCTCTGAC
TTCACCTAGACCTTCTGGCTCCAAATGGGGCCCATGGCCTTGAGCACCTGGGACCAGCTCTTTCCACCACAGGG
CATTGGGCACTGGGCACTTTCTTATCGAGATAGTCACTCCACGTCTGGTTCTGTGATGGGCTTGGCCCTCCAGCT
CAGCACAAC TGCAAGAATGGATTTTGTATTCTCTAGACGGACACTGTCCAAGATGGTAGCCATTGGCCACATGCG
ACACATTTTTAATGAATTAATAATCAAGACTGGAATGTGCGCCAGGCCTGGTGGCTCATGCCTGTAATCCC
AGCACTTTGGGAGGCCATAGAGGGCGGATGACTTGAGGTGAGGAGTTTAAGACCAGCCTGGCCAACATGGTGAAA
CCCATTTCTACTAAAAACAAAAATTAGCTGGGCATGGTGGTGTGTTTCTGTAATCCCAGCTGCTTGGGAGGCT
GAGGCAGGAGAATCGCTGAACCCAGGAGGCAGAGATTGGAGTGAGCTGAGATCATGCCACTGCCCTCCAGTGGC
CACCACATCCGGCAAGGCAGATGGGACATTTCTTTCATCCAGAACGTTCTGTGGACATCACTGCTCTAGGTTCC
TCCCTTATGGAGTCTCACAAGACTGTCTAGCCAGCAAGATCTCTTTTCCAACCAGGCCAGGAGCACCTCTCCACC
CACTGCTGCTGGTCTGACCGCCTTCTGGAAGTCCCTCTTGAGGCAGGCCCTGGAGTTAGAAGCTGGGCAGAGGC
ACCCACAGCCTTATCCTTTGCCAATCTCTGACTCAATGCCACGGCCACTGTAGTGAGCTGAACCACCTCCAGCAG
TCCCTGGCAGAAGCACCTGGAAAACATGCAATGGGAACCTTACCCTGAGGCCAGGCCCTTCCCATGCTACCCA
ACAGTAGACAGGACACCCTGTGTTGTTGGCTGCACCGGGGTGCTGGGATCTGTGGATCCCTGGGGCCTGGAAGCC
ACTCTCAGCACATACAGCCACTGTGTTCCGAGGTCCAGTCAGCTGGCCGGGAAGGAATCAACACAGCCAAGGAC
AGAGGTCCATATGATGACGGGTGGATGCTCGTGTGACTTTGCTGACCTTTTATGTTTCTATGGGCAATAAAGGC
CAAGAGAGCTC

4618/5332
FIGURE 4026

GGGCGGCGGCGCGCGGGTGCGATCGCGGAGCTGTGAGGCGCAGGCAGGGCTCTGGGGCACCTAGAGACCGGGGCC
GGAGACGTGGCAGCCGCCCTGCCCCCAGAAAGTTTCCTAGAAGTTTGCTGGGCGCGGGCGCACGACTGACTGGC
TGGACCATGAACGTGTTCCGAATCCTCGGCGACCTGAGCCACCTCCTGGCCATGATCTTGCTGCTGGGGAAGATC
TGGAGGTCCAAGTGCTGCAAGGGCATCTCTGGGAAGAGCCAGATCCTGTTTGCTCTCGTCTTCACCACCAGGTAC
CTGGACCTGTTCAACCAACTTCATCTCCATCTACAACACAGTAATGAAGGTGGTTTTTCTCCTCTGTGCCTATGTT
ACAGTGTACATGATATATGGGAAATTCCGTAAACTTTTGACAGTGAGAATGACACATTCCGCCTGGAGTTTCTT
CTGGTCCCAGTCATTGGCCTTTCCTTCCCTTGAAAACCTACAGTTTCACTCTGCTGGAGATCCTCTGGACTTTCTCT
ATCTATCTGGAATCAGTGGCTATCCTGCCCCAGCTCTTCATGATCAGCAAGACTGGAGAGGCTGAGACCATAACT
ACTCACTACCTGTTCTTTCTGGGTCTGTACCGGGCACTCTACCTGGCTAACTGGATCAGGCGGTACCAGACTGAG
AATTTCTATGACCAAATTGCAGTCGTGCTGGAGTAGTACAAACCATCTTCTACTGTGACTTCTTCTACTTGTAT
GTGACCAAAGTCCTTAAGGGAAAGAAGTTAAGTCTTCCAATGCCAATCTGAGGACCTTCAGAGACAGTCTACGCC
TTAACAAGCACATGAAGGAAACTATTTGAATGTTCTCTTTGGCAACTTATCCATAATTTGGGATCAAATGTTAA
AACCAGAAAAGTGTTTAGTGTGGATTTCAGCAAAACCTGATCATCCACCCAGAAGACCTTCTCATCAATAGATC
GCCCTTAAAGACCCATTGTAAGGTCATAAAAAACCTCGGCCACCTGCACAAAGATGGTGCCTCACTGCAACAAGA
AACCTTAAGGTGTCTTACCGACGAAATAAAAAACATAAATGATTGTTCTCCAAGGCCTGAGGGCAAGACTCATGA
TGAGCAAGTCAACCCCAATCTGGAACAATGTCCCTCCTCTTAGAATGTCCCAACTAAAGACCAGTTAAATATTA
GGGTACGTTCTTGTGAATTTCCACTTTCCAGGTAGATGACCAAATTTAGGTGGTCAAGATATAAAGGTGTCAGCT
AGTTTTAAGTGTGAACTTATTTCACTTTCACACTGCCTTCAGGCCAGAAGCAAACCAAATTTACCAGGTTTGGC
TGGAGGAGTTTTGTGACTCATCTTTTACTGGTTTGAATTTTTTCAAACCAGTGGCTGATACCTGCCTTGTACTTA
GTACCTTAATACCAATAACCTAATGGTACTTAGGCGAGTACCATTTGCACAATCACTGTTTTACTTATGAGCAGA
TACAGATATATCCAAACCCTTACCTACTAGGTATCCTGCTAGGGTTTTCAATTCCAATTCTGTATTAAAGTTTTT
TCCTTTCAGTTTTAGGTGCGAAAGTAATCAGTCAATCCAATATCCCCATCTTTGTCTTGAACAAAACTGTTT
TAAGACGTCTACGTTGAATTATTCAGAGAATTAAGCAATAAAAGCTCACACCTTA

4619/5332
FIGURE 4027

TTTCCGCTTCCGCTCTTCCCTGGTCCAGTCCACCCTGGCGGGGTCGCAGGGTTGGGATCGCGGCTGGAGGCGATC
ATGGTTCGCCCCGACAGCTACCGCTCACCTCTTGCCCTCCCGCTATGCCAGCCCGGAGATGTGCTTCGTGTTTAGCG
ACAGGTATAAATTCCGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCGAGCAGACATTGGGTTTGCCTA
TCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATCGACTTCAAGATGGCAGCTGAGGAAGAGA
AACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTCCAAAAGCTGCAGGCATTATTC
ACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTAGAAATGCACTTGACCTGCTTT
TGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAGCCAGTCTACCCACATTAGGTT
TCACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTTGGATTGAGGATCTTTGCATGG
ATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGGGTACCCTGGCACTCAGGCCA
GTTTCCTGCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGATGGTGACAGAAAAGGCAGGAT
TTAAGAGAGCTTTTCATCATCACAGGGCAGACATATACAGAAAAGTGGATATTGAAGTACTGTCTGTGCTGGCTA
GCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCTCCTGGCAAACCTCAAGGAGATGGAGGAACCCCT
TTGAAAAACAGCAGATTGGCTCAAGTGCGATGCCATATAAGCGGAATCCCATGCGTTCAGAACTGCTGCAGTC
TTGCCCCGCCACCTGATGACCCCTGTGATGGACCCGCTACAGACAGCATCTGTCCAGTGGTTTGAACGCACACTGG
ATGATAGTGCCAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATACTATATTGAATACGCTGCAGA
ACATTTCTGAAGGATTGGTCTGTGTACCCCAAAGTAATTGAACGGCGCATTTCGGCAAGAGCTGCCTTTTCATGGCCA
CAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCCATGAGAAAATCAGAGTGCTTT
CTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAGAGCGTATCCAGGTTGATGCCT
ACTTCAGTCCCATTCACTCCCAGTTGGATCATTACTGGATCCTTCTTCTTCACTGGTCTGCTGCCCTCCAGCAGG
TGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTAAAACCATATGAAAGCGTGATGAAGGTGAAAGCAGAAT
TATGTCTGTAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGGCATGAAAATTGTGTTACTATA
ATGCCTTATTTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTCTTCCCATGGTGCTTTCTCTGT
TCTCAGTCTCACATTTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTCTGCTCTTGCCATAGTAAATGTA
GTTTCATACTTGATCTCTGTTCTTTCAAGGCATATTTCCAGCTGCCTCAAGTTTAGTCCTTTTACGTGTTTCATT
TGCTTGTAAGTAGCAAGAAATTTCTGGTCTGTCTTCTAAAAGTGAATTTGATCTAGGTCTAGCAAAATAACCT
GGACTCAGTGATTGAGTCAATGGTCAGATACCTTTTATTTTCGGTTATTTTTGGCTAGTATAAGTGATGAAGTTTG
GAACTACAGTAAATACTTAAAAAA

4620/5332
FIGURE 4028

GGCAGATGATTCTGGACCAGATGAAGCCTGAGGAGCCTTCCAGCTCTAAGATAGCAGGATAGGAGACTTCTAAGA
TTGGAGCTGCAGAAGACTTGCCAGCCCACCAGCACAAATGTCAGGAAGCCATACACCTGCCTGTGGCCCTTTCTCA
GCCCTGACTCCGAGCATATGGCCCCAGGAGATCTTGGCCAAGTACACGCAGAAGGAAGAGTCAGCAGAGCAACCA
GAGTTCTACTACGATGAGTTTGGTTTCCGTGTGTACAAGGAAGAAGGTGATGAGCCTGGCTCCAGTCTGCTGGCG
AACTCCCCCTCTGATGGAGGATGCTCCACAGAGGCTGCGGTGGCAGGCCACCTGGAGTTCACCCATAACCACGAT
GTGGGGGATCTCACCTGGGACAAGATTGCCGTCTCCCTACCCCGCTCTGAGAAGCTCCGCTCCCTGGTGCTGGCC
GGCATCCCACATGGCATGAGGCCACAGCTGTGGATGCGGCTCTCTGGGGCCCTGCAGAAGAAGAGGAACCTTGAG
CTGTCTTACC CGAGATTGTGAAGAACAGCTCCAACGATGAGACCATCGCTGCCAAGCAGATCGAGAAGGACCTG
CTCCGCACCATGCCAGCAACGCCTGCTTCGCCAGCATGGGTAGCATCGGGGTGCCCGCCTGCGCAGGGTGCTC
CGGGCCCTGGCCTGGCTCTACCCAGAGATCGGCTACTGCCAGGGCACCGGCATGGTGGCCGCTGCTCCTGCTG
TTCTTGGAGGAGGAGGACGCCTTCTGGATGATGTCTGCCATCATCGAGGACCTGCTCCCCGCCTCCTACTTCAGC
ACCACCCTGCTGGGTGTCCAGACTGACCAGCGGGTCTGCGCCACCTCATTGTCCAGTACCTGCCTCGCCTGGAC
AAGCTGCTCCAGGAGCATGACATTGAGCTGTCCCTGATCACACTGCACTGGTTCTCACGGCCTTCGCCAGCGTG
GTGGACATCAAGTGCTCCTGCGCATCTGGGACCTGTTTTTCTACGAGGGTCCCGGGTGCTGTTCCAGCTCACG
CTGGGCATGTGACCTCAAGGAGGAAGAGCTGATCCAGTCAGAGAAGTCCGGCTCCATCTTCAACACGCTATCG
GATATCCCGTCGCAGATGGAGGACGCGGAGCTGCTTCTGGGGGTGGCCATGCGGCTGGCCGGCTCCCTACCGAT
GTGGCCGTGGAGACTCAGCGCCGCAAGCACCTGGCCTATCTCATTGCAGACCAGGGCCAGCTCCTGGGGGCCGGC
ACCCTCACCAACCTCTCTCAGGTTGTTTCGCCGAGGACCCAGCGGAGGAAGTCCACCATCACTGCTCTGCTCTTC
GGGGAGGATGACCTGGAGGCACTCAAGGCCAAGAATCAAGCAGACGGAAGTGGTGGCTGACCTCCGGGAAGCC
ATCCTGCGCGTGGCAGGCCACTTCCAGTGACAGACCCCAAACTGCAGCGTGGTGAGTCGCCAGCTCCCTGGG
CTGCTACCAAACACGGCCCTAACTCCTCCAACCCCTTGGTGGGCTGTGTTCACTGTGGCAGGAGCTGACTCCA
GACTATAGCATGGAGAGCCACCAGCGGGACACGAGAAGTACGTGGCGTGCTCACGCAGCCACCGGCGCCGAGCC
AAGGCCCTGCTGGACTTTGAGCGGCACGACGACGAGCTGGGCTTCCGCAAGAAGCAGATCATACAATCGTG
TCTCAGAAGGACGAGCACTGCTGGGTGGGGGAGCTCAACGGCCTGCGAGGCTGGTTTCCAGCCAAGTTCGTGGAA
GTCCTGGATGAGCGCAGCAAAGAGTACTCCATCGCGGGGGATGACTCGGTGACGGAGGGGGTACAGACCTCGTG
CGAGGGACCCTCTGCCCGGCCCTTAAGGCCCTGTTTGAACATGGACTGAAGAAGCCATCCCTGCTTGGGGGCGCC
TGCCACCCCTGGCTGTTTATCGAGGAGGCTGCAGGCCGGGAGGTGAGAGAGACTTTGCCTCCGTGTATTCCCGT
CTGGTGCTCTGTAAGACCTTCAGGTTGGATGAAGATGGCAAAGTCTGACCCCGGAGGAGCTGCTCTACCGGGCT
GTGCAGTCTGTGAACGTGACCCACGATGCAGTGATGCACAAATGGATGTGAAGCTCCGCTCACTGATCTGCGTG
GGGCTCAAGTGACAGGTGCTGCACCTGTGGCTGGAGGTGCTCTGCTCCAGCCTGCCACCGTGGAGAAGTGGTAC
CAGCCCTGGTCTTCTGCGCAGCCCGGCTGGGTCCAGATCAAGTGTGAGCTCCGAGTCTCTGCTGCTTTGCC
TTCAGCCTCTCCCAGGACTGGGAGCTCCCTGCGAAGAGAGAGGCGCAGCAGCCCTGAAGGAGGGCGTCCGGGAC
ATGCTGGTGAAGCACCACCTCTTCAGCTGGGATGTGGACGGGTGACCCCTCCTCCCCAGCCCAACCTCGGGCCT
GCGTCTGAGGTGGCCAGGACCCCAAGCTGCAGAGCCCAGGGAAGAGCAGCTCCAGAGCCCTGGCCGGGGCCGCG
GGATATCAATATCAGGCTGCCCCACTCCACGTTCCCCAGCACATCCAGGTGGTGGGAGCAGAGGGTACCCTGCC
CCACCAGGGTCTTAGGGATGCTCTAGGCCAAACCACAGTTTGTACCAAAACCTTGTGAGGAGGTGGGGGAGCC
ATGTCTGTGCTCAGGAAGAGGGAAGGGGATGGGGGTGGCTAGTAGGCTCCTGGCCTCTTGGTTTAAATAAAC
TGTGTCTGTCTTTGAGAAAGCA

4621/5332
FIGURE 4029A

ACTTCTGCAATTACAGACAGTTGCACTTCAAGGGGACCCCTTCTTTCACACTACATCCTTCTGTTTTAGACTTTT
TTTGCGTTTTGAAAATGTGTTTTTTGAGGTGGAATACCCAACCTGACCCCTCATCTCTCCTCTCTCTGCTGCCCT
GCAGTGCTACAGTTGAAACTCCAGCAGCGCCGGACCCGGGAAGAACTGGTGAGCCAAGGGATCATGCCCGCCTTTG
AAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGGCCAGGACAGAGGACTATCTCAAACGGAAG
ATTCGTTCCCGGCCGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGAGACCTCGGCTGAGCCATCCCTC
CAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTCAATGAGAAGATTGCACAGAGGCCTGGC
CCCATGGAGCTGGTGGAGAAGAATCCTTCTGTTGAGTCCAGCCTGAAGGAAGCCATCATTGTGGGCCAGGTG
AACTATCCCAAAGTAGCAGACAGCTCTTCCCTCGATGAGGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCC
AGCCATGAGTCCAGGGTTCTGTGCCGTACCCCTGGAGGCCGAGTCAGCGAACCCTGCTCAGTGCCACCTCT
GCATCCCCCAGGTTGTGTCTCAACTTCCGATGGGCCGGGATTCCAGAGAAATGCTTTTTCTGGCAGAGCAG
CCTCCTCTGCCCTCCCCACCTCTGCTGCCCTCCAGCCTCAACCAATGGAACCCTATCCCCACTGCCAAGTCCACC
CCCACACTCATTAAAGCAAAGCCAACCCAAGTCTGCCAGTGAGAAGTCACAGCGCAGCAAGAAGGCCAAGGAGCTG
AAGCCAAAGGTGAAGAAGCTCAAGTACCACCAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGGACCCCCC
ATGGACTCATCCTACGCCAAGATCCTGCAGCAGCAGCAGCTCTTCTCCAGCTGCAGATCCTCAACCAGCAGCAG
CAGCAGCACCACAACCTACCAGGCCATCCTGCCCTGCCCGCCAAAGTCAGCAGGCGAGGCCCTGGGAAGCAGCGGG
ACCCCCCAGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCTGGGCCCTGTGGGCTGGCA
CGTCAGAACAGCACCTCACTGACTGGCAAGCCGGGAGCCCTGCCGGCCAACCTGGACGACATGAAGGTGGCAGAG
CTGAAGCAGGAGCTGAAGTTGCGATCACTGCCGTGTCTCGGGCACCAAACTGAGCTGATTGAGCGCCTTCGAGCC
TATCAAGACCAAATCAGCCCTGTGCCAGGAGCCCCCAAGGCCCTGCCGCCACCTCTATCCTGCACAAGGCTGGC
GAGGTGGTGGTAGCCTTCCAGCGGCCCGGCTGAGCACGGGGCCAGCCCTGGTGGCAGCAGGCCTGGCTCCAGCT
GAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGGTGGTGAAGTTTGGCAGCACGGGCTCCACGCCCCCGTGTCT
CCCACCCCTCGGAGCGCTCACTGCTCAGCACGGGCGATGAAAACCTCACCCCGGGGACACCTTTGGTGAGATG
GTGACATCACTCTGACGCAGCTGACCCTGCAGGCCTCGCCACTGCAGATCCTCGTGAAGGAGGAGGGCCCCCGG
GCCGGGTCTGTTGCCTGAGCCCTGGGGGGCGGGCGGAGCTAGAGGGGCGCGACAAGGACCAGATGCTGCAGGAG
AAAGACAAGCAGATCGAGGCGCTGACGCGCATGCTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAG
CTGGAGCAGGAGAAGCGAGCCAGCAGCCCGCCCCCGCCCCCTCGGCACCCCGTGAAGCAGGAGAAC
AGCTTCTCCAGCTGCCAGCTGAGCCAGCAGCCCTGGGCCCGCTCACCCATTCAACCCAGCCTGGCGGCCCCA
GCCACCAACCACATAGACCCTTGTGCTGTGGCCCCGGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGCAG
CCTGAGCCCGAGCCGGTCCCCGCCCCCAAGTTGCTTCTGGGGCCTCAGGGCCCCAGCCTCATCAAGGGGTTGCA
CCTCCACCCCTCATCACCGACTCCACAGGGACCCACCTTGTCTCACCGTGACCAATAAGAATGCAGACAGCCCT
GGCCTGTCCAGTGGGAGCCCCCAGCAGCCCTCGTCCCAGCCTGGCTCTCCAGCGCCTGCCCCCTCTGCCAGATG
GACCTGGAGACCCACTGCAGCCCTCTTTGGGACCCCACTTCTCTGCTGAAGAAGGAACCACCTGGCTATGAG
GAAGCCATGAGCCAGCAGCCCAAACAGCAGGAAAATGGTTCTCAAGCCAGCAGATGGACGACCTGTTTGACATT
CTCATTCAGAGCGGAGAAATTTTACGAGATTTCAAGGAGCCGCCATCCCTGCCAGGGAAGGAGAAGCCATCCCCG
AAGACAGTCTGTGGGTCCCCCTGGCAGCACAGCCATCACCTTCTGCTGAGCTCCCCAGGCTGCCCCACCTCCT
CCAGGCTCACCTTCCCTCCCTGGACGCCTGGAGGACTTCTGGAGAGCAGCACGGGGCTGCCCCCTGTGACCACT
GGGCATGACGGGCCAGAGCCCTTTCCCTCATGACGACCTCCATAGCCAGATGCTGAGCAGCACTGCCATCCTG
GACCACCCCGCTCACCCATGGACACCTCGGAATTGCACTTTGTTCTGAGCCAGCAGCACCATGGGCCTGGAC
CTGGCTGATGGCCACCTGGACAGCATGGACTGGCTGGAGCTGTGCTCAGGTGGTCCCSTGCTGAGCCTAGCCCCC
CTCAGCACCACAGCCCCAGCCTCTTCTCCACAGACTTCTCGATGGCCATGATTTGCAGCTGCACTGGGATTCC
TGCTTGTAGCTCTCTGGCTCAAGACGGGTGGGGAAGGGGCTGGGAGCCAGGGTACTCCAATGCGTGGCTCTCCT
GCGTGATTGGGCTCTCCACATGGTTGTGAGTCTTGACAATCACAGCCCTGCTTTTTTCCCTTCCCTGGGAGGCT
AGAACAGAGAAGCCCTTACTCCTGGTTTCAAGTCCACGAGGGCAGAGGAGAGCAGCTGTCAAGAAGCAGCCCTGG
CTCTACGCTGGGGTTTTTGGACACACGGTCAGGGTCAGGGCCATTCAGCTTGACCTCCTTTTTTGGAGTCAGGG
GGCACTGTCTGTCTGGCTACAATTTGGCTAAGGTAGGTGAAGCCTGGCCAGGCGGGAGGCTTCTCTTGTGACCA
GGGCTGAGACAGGTTAAGGGGTGAATCTCCTTCTTCTTCCCTGCTTTGCTGTGAAGGGAGAAATTAGCCTGG
GCCTCTACCCCTATTCCCTGTGTCTGCCAACCCAGGATCCAGGGCTCCCTGCCATTTTAGTGTCTTGGTGTA
GTGTAACCAATTTAGTGGTTGGTGGCAACAATTTTATGTACAGGTGTATATACCTCTATATTATATATCGACATAC

4622/5332
FIGURE 4029B

ATATATATTTTTGGGGGGGGGGCGGACAGGAGATGGGTGCAACTCCCTCCCATCCTACTCTCACAGAAGGGCCTGG
ATGCAAGGTTACCCCTTGAGCTGTGTGCCACAGTCTGGTGCCAGTCTGGCATGCAGCTACCCAGGCCACCCATC
ACGTGTGATTGACATGTAGGTACCCTGCCACGGCCTATGCCCCACCTGCCCTGCTTCCTGGCTCCTTATCAGTGC
CATGAGGGCAGAGGTGCTACCTGGCCTTCCTGCCAGGAGCTCTCCACCCACTCACATTCCGTCCCCGCCGCTCA
CTGCAGCCAGCGTGGCCCTAGGACAGGAGGAGCTTCGGGCCAGCTTCACCCTGCGGTGGGGCTGAGGGGTGGCC
ATCTCCTGCCCTGGGGCCACTGGCTTCACATTCTGGGCTGACTCATAGGGGAGTAGGGGTGGAGTCACCAAACC
AGTGCTGGGACAAAGATGGGGAAGGTGTGTGAACTTTTTAAAATAAACACAAAAACACAG

4623/5332
FIGURE 4030

GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCCTGGAACCGGGCCGTAGCCCCCAGTTTCGCCCACCACCTCCCTACCATCGACC
CCCGCAAAGTGAACGAGCTTCGGGCCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAATCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGCTTCCTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTCAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCTGTAAATTGGATTATGATGAAGATGCTAGTCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGCTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCAGAGGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCCCTGGGGGAATGCTTGGTAATTTTCCCGGAGGAATGCCTGGAAATGGGAGGGG
GCATGCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGACAGCTGCAGG
ATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAAATGTCCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTGCAATAATAACAAACAGTGATCCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCATTAGATAATGTTTCTTACTAGGAATTACAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTTAATTCTTATATTTTCTTTACTAATCATTTTGGATTTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTTGAGGATAAAGTTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCAATAAACTAATTGGGACCACCCGTATTTAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTTGTAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAATTTCTTTCTTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTCCACCGGCATCATCACTGCTATCATTAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACGTAGTTTCTTACTTGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCATCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTTGCTTTGTATTAGCTCTTAAATAGTGTAATATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCT
CCAATGATAAAGAAAATGATAAATTTCTGTTGTGCAATTCATTCTTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACCAGTGTTTCAATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATTTCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAGGTTCTAACCCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAATTTGCATTTGAGCTTGTGTGTTCTTTGTAAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTTG
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCTTATTTGATTTATTTAACCTAATTATATTCTAATATTG
CAAATATTACCATAAGTGGGTAAAAGTAAAATTCCTCTTCTG

4624/5332
FIGURE 4031

GGTTTCCTGGCGACGCGGCCCTGCAGGCGGTTGCGTTCCCCGTCGTTACCCTCTTTCTCTTCCCGACGCGTGAGT
TAGGCCGTAATGCTTGGCTGCTCTCAGCCCCAAGCTGGTTCCCGCTGTAGCAAACGTCCGCGGCCTCTCAGGA
TGTATGTTGTGTTACAGCGAAGGTACTCCCTTCAGCCTGTCCAGAAAGGAGGATTCCAAACCGATACTTAGGC
CAGCCCAGCCCCCTTACACACCCACACCTCCTCAGACCAGGGGAGGTAAGTCCAGGACTATCTCAGGTGGAATAT
GCACTTCGCAGACACAACTAATGTCTCTGATCCAGAAGGAAGCTCAAGGGCAGAGTGGGACAGACCAGACAGTG
GTTGTGCTCTCCAACCTACATACTACATGAGCAACGATATTCCTTATACTTTCCACCAAGACAACAATTTCCTG
TACCTATGTGGATTCCAAGAGCCTGATAGCATTCTTGTCTTCAGAGCCTCCCTGGCAAACAATTACCATCACAC
AAAGCCATACTTTTTGTGCCTCGGCGAGATCCAGTCGAGAAGCTTGGGATGGTCCGCGATCTGGCACTGATGGA
GCAATAGCTCTAACTGGAGTAGACGAAGCCTATACGCTAGAAGAATTTCAACATCTTCTACCAAAAATGAAAGCT
GAGACGAACATGGTTTGGTATGACTGGATGAGGCCCTCACATGCACAGCTTCACCTCTGACTATATGCAGCCCCCTG
ACTGAGGCCAAAGCCAAGAGCAAGAACAAGGTTGCGGGTGTTCAGCAGCTGATACAGCGCCTCCGGCTGATCAAG
TCTCCTGCAGAAATTGAACGAATGCAGATTGTCTGGGAAGCTGACATCACAGGCTTTTATAGAAACCATGTTTACC
AGTAAAGCCCCTGTGGAAGAAGCCTTTCTTTATGCTAAGTTTGAATTTGAATGCCGGGCTCGTGGCGCAGACATT
TTAGCCTATCCACCTGTGGTGGCTGGTGGTAAATCGGTCAAACACTTTGCACTATGTGAAAAATAATCAACTCATC
AAGGATGGGGAAATGGTGTCTTGGATGGAGGTTGTGAGTCTTCTGCTATGTGAGTGACATCACACGTACGTGG
CCAGTCAATGGCAGGTTTACCCGCACCTCAGGCAGAAGCTCTATGAAGCCGTTCTAGAGATCCAAAGAGATTGTTTG
GCCCTCTGCTTCCCTGGGACAAGCTTGGAGAACATCTACAGCATGATGCTGACCCTGATAGGACAGAAGCTTAAA
GACTTGGGGATCATGAAGAACATTAAGGAAAATAATGCCTTCAAGGCTGCTCGAAAATACTGTCCTCATCATGTT
GGCCACTACCTCGGGATGGATGTCCATGACACTCCAGACATGCCCCGTTCCCTCCCTCTGCAGCCTGGGATGGTA
ATCACAATTGAGCCCGGCATTTATATTCCAGAGGATGACAAAGATGCCCCAGAGAAGTTTCGGGGTCTTGGTGTA
CGAATTGAGGATGATGAGTGGTGACTCAGGACTCACCTCTCATCCTTTCTGCAGACTGTCCCAAAGAGATGAAT
GACATTGAACAGATATGCAGCCAGGCTTCTTGACCTTCACTGCGGCCCATGCACCTCAGGTTCAAATGGGTG
TCTTCTGGCAGCCCTGCACGTGTGCTTTCTGAGTGTCTCTGTGTGTCATTAATATATGCATTCCATTGGGAGC
ATAGCAGCTGTGTGAATGTATGTAATTGTGTGTGGGGGTTTTTTGTTTTAAGTAGTTAGAAGTCTGGGAAAATG
AATTTTTGAATAGTATGTTACTGCAGCTTTGGTAACATTAATTCTATAGAATTAATGATCAGAGCAAGTTTAATT
TTTAAACATAAAGGTCTTGGTTACACATGTCCATGCATTCCAGTTAACACATTTAAACATATAGAAAATTCATT
CTTCTTTCAAGTCCTTCCCTTTCTATACTTTTGCTGAGATCAACCAATATCATAAGAAGTTTGTGTGATGCCTG
TATTTTTAGCTAATTACCAAGGTCTCTGCCTATGCAAAAATTCATCTTTCGGTGATTGTGGGCGGCCAATACATA
CCTTCTGTAACCTCCCTACCTATTCTAGATCCTGCATATCTACTGGAGCCATATGAGCCCTCAGGGGCACCTGG
TGTCCTGCAGTCTTACTAGTCAGCCACAGTCCAGGTTCCAGCAACACTAGCTACCTACCAAACAAAACACTTCTG
AGCTTTTCTTGCCATTTGGTTGCCTGGGACCTGGAAAGTGTTTAGATTCTTGATAAAGATGGAAATGGAAGAGAA
AGAAAATTATATATGTATATACTAAAGATCCAGACATCAGGGCTGGGCACAGCGGTTCCGCCTGTAATCCCAGCA
CTTTGGGAGGTCCAGGCAGGTGGATCTCTTGAGACCAGGAGGTCAAGACCAGCCTGGCCAACGTGGTGAAACACT
GTCTCTACTAAAAATACAAAAATGAGCTGGGTGTGATGATACATGCCTGTAATCCTGGCTACTTGGGAGGCTGAG
GCATGAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAGCTCATGCGACTGCACTCCAGCCTGGGT
GACTGAGCAAGACTCTGCCTCAAAAAACAAATAAATAAATAAATCCTGACATCCTGCCATCTTTTCTCTTCAA
TTTAAAGTTGATTTCTTAATGATGACTTCAAAAATTAATAAAAAGAAAAAATGATTTCT

4625/5332
FIGURE 4032

CCAAATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGGGGCAAGAAGCGCTTTGAAG
TGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCACA
TTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTTCGCATGGGGAG
TCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAACA
GAGAGTGGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCATT
TAATGACTTTCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTCTGCTTTGTTTTTTCAGTTT
GCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

4626/5332

FIGURE 4033

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTGCGAAAACCTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTT
TTAGAGAGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAAGCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

4627/5332
FIGURE 4034A

CTTGTTTGTGTGCTAGGCTGGGGGGGAGAGAGGGCGAGAGAGCGGGCGAGAGTGGGCAAGCAGGACGCCGGGC
TGAGTGCTAACTGCGGGAGCCAGAGAGTGCGGAGGGGAGTCGGGTGCGAGAGAGGCGGCAGGGGCCGAGACAGTG
GCAGGGGGGCCCGGGGCGCACGGGCTGAGGCGACCCCCAGCCCCCTCCCGTCCGCACACACCCCCACCGCGGTCCA
GCAGCCGGGGCCGGCGTCGACGCCTAGGGGGGACCATTACATAACCCCGCGCCCCGCGGCGTCTTCTCCCGCCGCC
GCGGGCGGGCCCGAACCGAGCCCCGGGGGGCGGGCGCTCCAGCACCTGGCCGCCGGCGGTGGGGGCCGTAGCAG
CGGCCGTATTTATTTATTTTCCGCGGGAAAGGAAGGCGAAGGAGGGGAGCGCGGCGGAGGAGGGGCCGCTGCG
CCGCCGCCGGAGCGGGGCTCTCGGTGGGCTCCGCGTCGGCGCGGGCGTGCGGGCGGCGCTGCTCGGCCGGCC
CCCTCGGCCCTCTGGTCCGGCCAGCTCCGCTCCGGCGCTCCTTGCCGCGCTCCGCCGGCCGCCGCGCATGTGA
GGCGGCGGCGCCAGCCTGGCTCTCGGCTCGGGCGAGTTCTCTGCGGCCATTAGGGGCCGGTGCGGCGGCGCGG
GCGGAGCGCGGCGGCGAGGAGGGTTGCGAGGGTGCGGGCGCAGGCCCGGGAGGGGGCACCGGGAGGAGGTGAG
TGTCTCTTGTGCGCTCCTCTCTCCCCCTTTTCGCCCCCGCTCCTTGTGGCGATGAGAAGGAGGAGACAGCG
CCGAGGAGGAAGAGGTTGATGGCGGCGGCGGAGCTCCGAGAGACCTCGGCTGGGCAGGGGCCGGCGTGGCGGGC
CGGGGACTGCGCTCTAGAGCCGCGAGTTCTCGGGAATTCGCCGAGCGGACGCGCTCGGCGAATTTGTGCTCTT
GTGCCCTCCTCCGGGCTTGGGCCCAGGCCCGGGCCCTCGCACTTGCCCTTACCTTTTCTATCGAGTTCCGCATCCC
TCTCCAGCCACTGCGACCCGGCGAAGAGAAAAAGGAAGTTCCTCCACCCCTCGGGTGCCGTGCGAGCCCCCAG
CCCACCCCTGGGTGCGGCGCGGGGACCCCGGGCCGAGAAGAGATTTCCTGAGGATTCTGGTTTTCTCGCTTGT
ATCTCCGAAAGAATTAAAAATGGCCGAGAAATGTGGTGGAACCGGGGCGCCTTCAGCCAAGCGGCCTAAACTCTC
ATCTCCGGCCCTCTCGGCGTCCGCCAGCGATGGCACAGATTTTGGCTCTCTATTTGACTTGGAGCACGACTTACC
AGATGAATTAATCAACTCTACAGAATTGGGACTAACCAATGGTGGTGATATTAATCAGCTTCAGACAAGTCTTGG
CATGGTACAAGATGACGCTTCTAAACATAAACAGCTGTGAGAATTGTGCGATCTGGTAGTTCCCCTAACCTCAA
TATGGGAGTTGGTGGCCAGGTCAAGTCATGGCCAGCCAGGCCAACAGAGCAGTCTGGATTAGGTTTGATAAA
TAGCATGGTCAAAAGCCCAATGACACAGGCAGGCTTGACTTCTCCCAACATGGGGATGGGCACTAGTGGACCAA
TCAGGGTCTTACGCAGTCAACAGGTATGATGAACAGTCCAGTAAATCAGCCTGCCATGGGAATGAACACAGGGAT
GAATGCGGGCATGAATCCTGGAATGTTGGCTGCAGGCAATGGACAAGGGATAATGCCTAATCAAGTCATGAACGG
TTCAATTGGAGCAGGCCGAGGGCGACAGAATATGCAGTACCCAAACCCAGGCATGGGAAGTGCTGGCAACTTACT
GACTGAGCCTCTTACGACGGGCTCTCCCCAGATGGGAGGACAAACAGGATTGAGAGGCCCCCAGCCTCTTAAGAT
GGGAATGATGAACAACCCCAATCCTTATGGTTACCATATACTCAGAATCCTGGACAGCAGATTGGAGCCAGTGG
CCTTGGTCTCCAGATTGAGACAAAACTGTACTATCAAATAACTTATCTCCATTGCTATGGACAAAAAGGCAGT
TCCTGGTGGAGGAATGCCAACATGGGTCAACAGCCAGCCCCGCGAGTCCAGCAGCCAGGCCTGGTGAATCCAGT
TGCCCAAGGGATGGGTTCTGGAGCACATACAGCTGATCCAGAGAAGCGCAAGCTCATCCAGCAGCAGCTTGTCT
CCTTTTGCATGCTCACAAGTGCCAGCGCCGGGAACAGGCCAATGGGGAAGTGAGGCAGTGCAACCTTCCCCACTG
TCGCACAATGAAGAATGTCTAAACCACATGACACACTGCCAGTCAGGCAAGTCTTGCCAAGTGGCACACTGTGC
ATCTTCTCGACAAATCATTTCACTGGAAGAATTGTACAAGACATGATTGTCTGTGTCTCCCCCTCAAAAA
TGCTGGTGATAAGAGAAATCAACAGCCAATTTTGAATGGAGCACCCGTTGGACTTGGAATCCTAGCTCTCTAGG
GGTGGGTCAACAGTCTGCCCCAACCTAAGCACTGTTAGTCAGATTGATCCCAGCTCCATAGAAAGAGCCTATGC
AGCTCTTGGACTACCCTATCAAGTAAATCAGATGCCGACACAACCCAGGTGCAAGCAAAGAACCAGCAGAATCA
GCAGCCTGGGCAGTCTCCCAAGGCATGCGGCCCATGAGCAACATGAGTGCTAGTCTATGGGAGTAAATGGAGG
TGTAGGAGTTCAAACGCCGAGTCTTCTTCTGACTCAATGTTGCATTACGCCATAAATCTCAAACCCCAATGAT
GAGTGAAAATGCCAGTGTGCCCTCCCTGGGTCTATGCCAACAGCAGCTCAACCATCCACTACTGGAATTCGGAA
ACAGTGGCACGAAGATATTACTCAGGATCTTCGAAATCATCTTGTTACAAACTCGTCCAAGCCATATTTCTTAC
GCCGGATCCTGCTGCTTTAAAAGACAGACGGATGGAAAACCTAGTTGCATATGCTCGGAAAGTTGAAGGGGACAT
GTATGAATCTGCAACAATCGAGCGGAATACTACCACCTTCTAGCTGAGAAAATCTATAAGATCCAGAAAGAACT
AGAAGAAAAACGAAGGACCAGACTACAGAAGCAGAAACATGCTACCAATGCTGCAGGCATGGTTCCAGTTTCCAT
GAATCCAGGGCCTAACATGGGACAGCCGCAACCAGGAATGACTTCTAATGGCCCTTACCTGACCCAAGTATGAT
CCGTGGCAGTGTGCCAAACCAGATGATGCCCTCGAATAACTCCACAATCTGGTTTGAATCAATTTGGCCAGATGAG
CATGGCCCAGCCCCCTATTGTACCCCGGCAACCCCTCCTCTTACGACCATGGACAGTTGGCTCAACCTGGAGC
TCTCAACCCGCCTATGGGCTATGGGCTCGTATGCAACAGCCTTCCAACCAGGGCCAGTTCCCTTCTCAGACTCA
GTTCCCATCACAGGGAATGAATGTAACAAATATCCCTTTGGCTCCGTCCAGCGGTCAAGCTCCAGTGTCTCAAGC

4628/5332
FIGURE 4034B

ACAAATGTCTAGTTCTTCCTGCCCGGTGAACTCTCCTATAATGCCTCCAGGGTCTCAGGGGAGCCACATTCCTG
TCCCCAGCTTCCTCAACCAGCTCTTCATCAGAATTCACCCTCGCCTGTACCTAGTCGTACCCCCACCCCTCACCA
TACTCCCCCAAGCATAGGGGCTCAGCAGCCACCAGCAACAACAATTCCAGCCCCTGTTTCTACACCTCCTGCCAT
GCCACCTGGGCCACAGTCCCAGGCTCTACATCCCCCTCCAAGGCAGACACCTACACCACCAACAACAACCTTCC
CCAACAAGTGCAGCCTTCACCTTCTGCTGCACCTTCTGCTGACCAGCCCCAGCAGCAGCCTCGCTOACAGCAGAG
CACAGCAGCGTCTGTTTCTACCCCAACAGCACCCTGCTTCTCCGCAGCCTGCAACTCCACTTTCCAGCCAGC
TGTAAGCATTGAAGGACAGGTATCAAATCCTCCATCTACTAGTAGCACAGAAGTGAATTCTCAGGCCATTGCTGA
GAAGCAGCCTTCCCAGGAAGTGAAGATGGAGGCCAAAATGGAAGTGGATCAACCAGAACCAGCAGATACTCAGCC
GGAGGATATTTTCAGAGTCTAAAGTGAAGACTGTAAAATGGAATCTACCGAAACAGAAGAGAGAAGCACTGAGTT
AAAACTGAAATAAAAGAGGAGGAAGACCAGCCAAGTACTTCAGCTACCCAGTCATCTCCGGCTCCAGGACAGTC
AAAGAAAAAGATTTTCAAACCAGAAGAACTACGACAGGCACTGATGCCAACTTTGGAGGCACTTTACCGTCAGGA
TCCAGAATCCCTTCCCTTTTCGTCACCTGTGGACCCTCAGCTTTTAGGAATCCCTGATTACTTTGATATTGTGAA
GAGCCCCATGGATCTTTCTACCATTAAGAGGAAGTTAGACACTGGACAGTATCAGGAGCCCTGGCAGTATGTCGA
TGATATTTGGCTTATGTTCAATAATGCCTGGTTATATAACCGGAAACATCACGGGTATACAAATACCTGCTCAA
GCTCTCTGAGGTCTTTGAACAAGAAATTGACCCAGTGATGCAAAGCCTTGATACTGTTGTGGCAGAAAGTTGGA
GTTCTCTCCACAGACACTGTGTTGCTACGGCAAACAGTTGTGCACAATACCTCGTGATGCCACTTATTACAGTTA
CCAGAACAGGTATCATTTCTGTGAGAAGTGTTCATGAGATCCAAGGGGAGAGCGTTTCTTTGGGGGATGACCC
TCCCCAGCCTCAAACATAAATAAAGAAACAATTTTCCAAGAGAAAAATGACACACTGGATCCTGAACTGTT
TGTTGAATGTACAGAGTGGGAAGAAAGATGCATCAGATCTGTGTCCTTACCATGAGATCATCTGGCCTGCTGG
ATTCGTCTGTGATGGCTGTTTAAAGAAAAGTGACGAACTAGGAAAGAAAAATAAGTTTTCTGCTAAAAGGTTGCC
ATCTACCAGACTTGGCACCTTTCTAGAGAATCGTGTGAATGACTTTCTGAGGCGACAGAATCACCTGAGTCAGG
AGAGGTCACTGTTAGAGTAGTTTCATGCTTCTGACAAAACCGTGGAAGTAAAACCAGGCATGAAAGCAAGGTTTGT
GGACAGTGGAGAGATGGCAGAATCCTTTCCATACCGAACCAAGCCCTCTTTGCCCTTGAAGAAATTGATGGTGT
TGACCTGTGCTTCTTTGGCATGCATGTTCAAGAGTATGGCTCTGACTGCCCTCCACCCAACCAGAGGAGAGTATA
CATATCTTACCTCGATAGTGTTTCTTCTTCCGCTCTAAATGCTTGAGGACTGCAGTCTATCATGAAATCTTAAT
TGGATATTTAGAATATGTCAAGAAATTAGGTTACACAACAGGGCATATTTGGGCATGTCCACCAAGTGAGGGAGA
TGATTATATCTTCCATTGCCATCTCCTGACCAGAAGATACCCAAGCCCCAAGCGACTGCAGGAATGGTACAAAAA
AATGCTTGACAAGGCTGTATCAGAGCGTATTGTCCATGACTACAAGGATATTTTAAACAAGCTACTGAAGATAG
ATTAACAAGTGCAAAGGAATTGCCTTATTTGAGGGTGATTTCTGGCCCAATGTTCTGGAAGAAAGCATTAAAGGA
ACTGGAACAGGAGGAAGAAGAGAGAAAACGAGAGGAAAACACCAGCAATGAAAGCACAGATGTGACCAAGGGAGA
CAGCAAAAATGCTAAAAAGAAGAATAATAAGAAAACCAGCAAAAATAAGAGCAGCCTGAGTAGGGGCAACAAGAA
GAAACCCGGGATGCCCAATGTATCTAACGACCTCTCACAGAACTATATGCCACCATGGAGAAGCATAAAGAGGT
CTTCTTTGTGATCCGCTCATTGCTGGCCCTGCTGCCAACTCCCTGCCTCCCATGTTGATCCTGATCCTCTCAT
CCCCTGCGATCTGATGGATGGTGGGATGCGTTTCTCACGCTGGCAAGGGACAAGCACCTGGAGTTCTCTTCACT
CCGAAGAGCCCAGTGGTCCACCATGTGCATGCTGGTGGAGCTGCACACGCAGAGCCAGGACCGCTTTGTCTACAC
CTGCAATGAATGCAAGCACCATGTGGAGACACGCTGGCACTGTACTGTCTGTGAGGATTATGACTTGTGTATCAC
CTGCTATAACACTAAAAACCATGACCACAAAATGGAGAAAATAGGCCTTGGCTTAGATGATGAGAGCAACAACCA
GCAGGCTGCAGCCACCCAGAGCCCAGGCGATTCTCGCCGCTGAGTATCCAGCGCTGCATCCAGTCTCTGGTCCA
TGCTTGCCAGTGTCGGAATGCCAATTGCTCACTGCCATCCTGCCAGAAGATGAAGCGGGTTGTGCAGCATACCAA
GGGTTGCAAACGGAAAACCAATGGCGGGTGCCCCATCTGCAAGCAGCTCATTGCCCTCTGCTGCTACCATGCCAA
GCACTGCCAGGAGAACAATGCCCGGTGCCGTTCTGCCTAAACATCAAGCAGAAGCTCCGGCAGCAACAGCTGCA
GCACCGACTACAGCAGGCCCAATGCTTCGCAGGAGGATGGCCAGCATGCAGCGGACTGGTGTGGTTGGGCAGCA
ACAGGGCCTCCCTTCCCCCACTCCTGCCACTCCAACGACACCAACTGGCCAACAGCCAACCCCGCAGACGCC
CCAGCCCCTTCTCAGCCTCAGCCTACCCCTCCCAATAGCATGCCACCCTACTTGCCCAGGACTCAAGCTGCTGG
CCCTGTGTCCCAGGGTAAGGCAGCAGGCCAGGTGACCCCTCCAACCCCTCCTCAGACTGCTCAGCCACCCCTTCC
AGGGCCCCACCTGCAGCAGTGGAAATGGCAATGCAGATTGAGAGAGCAGCGGAGACGCAGCGCCAGATGGCCCA
CGTGCAAAATTTTCAAAGGCCAATCCAACACCAGATGCCCCCGATGACTCCCATGGCCCCCATGGGTATGAACCC
ACCTCCCATGACCAGAGGTCCAGTGGGCATTTGGAGCCAGGGATGGGACCGACAGGGATGCAGCAACAGCCACC

4629/5332
FIGURE 4034C

CTGGAGCCAAGGAGGATTGCCTCAGCCCCAGCAACTACAGTCTGGGATGCCAAGGCCAGCCATGATGTCAGTGGC
CCAGCATGGTCAACCTTTGAACATGGCTCCACAACCAGGATTGGGCCAGGTAGGTATCAGCCCCTCAAACCAGG
CACTGTGTCTCAACAAGCCTTACAAAACCTTTTGCGGACTCTCAGGTCTCCAGCTCTCCCTGCAGCAGCAACA
GGTGCTTAGTATCCTTCAGCCAACCCCAAGCTGTTGGCTGCATTCAAGCAGCGGGCTGCCAAGTATGCCAA
CTCTAATCCACAACCCATCCCTGGGCAGCCTGGCATGCCCCAGGGGCAGCCAGGGCTACAGCCACCTACCATGCC
AGGTCAGCAGGGGGTCCACTCCAATCCAGCCATGCAGAACATGAATCCAATGCAGGCGGGCGTTCAGAGGGCTGG
CCTGCCCCAGCAGCAACCACAGCAGCAACTCCAGCCACCCATGGGAGGGATGAGCCCCAGGGCTCAGCAGATGAA
CATGAACCACAACACCATGCCTTCACAATTCCGAGACATCTTGAGACGACAGCAAATGATGCAACAGCAGCAGCA
ACAGGGAGCAGGGCCAGGAATAGGCCCTGGAAATGGCCAACCATAACCAGTTCCAGCAACCCCAAGGAGTTGGCTA
CCCACCACAGCAGCAGCAGCGGATGCAGCATCACATGCAACAGATGCAACAAGGAAATATGGGACAGATAGGCCA
GCTTCCCCAGGCCTTGGGAGCAGAGGCAGGTGCCAGTCTACAGGCCTATCAGCAGCGACTCCTTCAGCAACAGAT
GGGGTCCCCCTGTTTCAGCCCAACCCCATGAGCCCCCAGCAGCATATGCTCCCAAATCAGGCCCAGTCCCCACACCT
ACAAGGCCAGCAGATCCCTAATTCTCTCTCCAATCAAGTGCCTCTCCCCAGCCTGTCCCTTCTCCACGGCCACA
GTCCCAGCCCCCCCCACTCCAGTCTTCCCCAAGGATGCAGCCTCAGCCTTCTCCACACCACGTTTCCCCACAGAC
AAGTTCCCCACATCCTGGACTGGTAGCTGCCCAGGCCAACCCCATGGAACAAGGGCATTITGCCAGCCCGGACCA
GAATTCAATGCTTTCTCAGCTTGCTAGCAATCCAGGCATGGCAAACCTCCATGGTGCAAGCGCCACGGACCTGGG
ACTCAGCACCGATAACTCAGACTTGAATTCAAACCTCTCACAGAGTACACTAGACATACACTAGACACACCTTGT
AGTATTTTGGGAGCAAAAAATTATTTTCTCTTAACAAGACTTTTTGTACTGAAAACAATTTTTTTGAATCTTTC
GTAGCCTAAAAGACAATTTTCTTGGAACACATAAGAACTGTGCAGTAGCCGTTTGTGGTTTAAAGCAAACATGC
AAGATGAACCTGAGGGATGATAGAATACAAAGAATATATTTTTTGTATGGCTGGTTACCACCAGCCTTTCTTCCC
CTTTGTGTGTGTGGTTCAAGTGTGCACTGGGAGGAGGCTGAGGCCTGTGAAGCCAAACAATATGCTCCTGCCTTG
CACCTCCAATAGGTTTTATTATTTTTTTAAATTAATGAACATATGTAATATTAATAGTTATTATTTACTGGTGC
AGATGGTTGACATTTTTCCCTATTTTCTCACTTTATGGAAGAGTTAAACATTTCTAAACCAGAGGACAAAAGG
GGTTAATGTTACTTTAAATTACATTCTATATATATATAAATATATATAAATATATATTTAAATACCAGTTTTTT
TTCTCTGGGTGCAAAGATGTTTCATTTTAAAAAATGTTTAAAAAAA

4630/5332
FIGURE 4035

GGCAGGCCAATATGGCTTCCTGCACCTGGTGACGCTTGGCGAACTGAGGTCTCATGGAGAAGCCCCGGAGTATT
GAGGAGACCCCATCTTCAGAACCAATGGAGGAAGAGGATGACGACTTGGAGCTGTTTGGTGGCTATGATAGT
TTCCGGAGTTATAACAGCAGTGTGGGCAGTGAGAGCAGCTCCTATCTGGAGGAGTCAAGTGAAGCAGAAAATGAG
GATCGGGAAGCAGGGGAACGCCGACCTCCCGCTGCATTGCTCAGCCCTGGGACTCCTCGCTCCTTGGATGGC
AGTGGTTCTGAGCCAGCTGTCTGTGAGATGTGTGGTATCGTGGGTACAAGGGAAGCCTTCTTCTCCAAGACCAAG
AGGTCTGACGCGTCTCCTGCTCCAGGAGCTACTCCTCCAACCTCCAAGAAAGCCAGTATCTTGGCTAGGTTACAG
GGAAAACCCAGGACCAAAAAAGCCAAAGTCTGCACAAGGCTGCCTGGTCTGCCAAAATTGGAGCCTTCCCTCCAC
TCTCAAGGGACAGGACAGCTGGCAGATGGGACACCAACAGGACAAGACGCTCTGGTCTTGGGCTTCGACTGGGGG
AAGTTCCTGAAGGATCACAGTTACAAGGCTGCTCCCGTCAGCTGTTTCAAGCACGGTATCGGGTGCTGCTTCGGT
ATGAAGGCTTTGAAAATGACGCCAGCCATGACTTCTGGTGCAACCTGGGAACAGTGGATGTCCACCCCATTTGGCT
GGTGTGCCATCAACAGCAAGATCCTAGTGCCTCCACAGCCATCCATGCCAAGTTCACCGACTGGAAGGGCTACCT
CATGAAACGGCTGGTGGGCTCCAGGACGCTTCCCGTGGATTTCCACATCAAGATGGTGGAGAGCATGAAGTACCC
CTTTAGGCAGGGCATGCGGCTGGAAGTGGTGGACAAGTCCCAGGTGTCACGCACTCGCATGGCTGTGGTGGACAC
AGTAATCGGGGGTTCGCTACGGCTCCTCTACGAGGATGGTGACAGTGACGACGACTTCTGGTGCCACATGTGGAG
CCCCCTGATCCACCCAGTGGGTGGTGCAGGACGTGGGGCCACGGCATCAAGATGTCAGAGAGGGCGAAGTGACAT
GGCCCATCACCCACCTTCCGGAAGATCTACTGTGATGCCGTTTCTTACCTCTTCAAGAAGGTACGAGCAGTCTA
CACAGAAGGCGGTTGGTTTGGGAAGGGATGAAGCTGGAGGCCATTGACCCCTGAATCTGGGCAACATCTGCGT
GGCAACTGTCTGTAAGGTTCTCTGGATGGATACCTGATGATCTGTGTGGACGGGGGGCCCTCCACAGATGGCTT
GGACTGGTTCTGCTACCATGCCCTCTTCCCACGCCATCTTCCGGCCACCTTCTGTGAGAAGATGACATTGAGCT
CACACCGCCAAAAGGTTATGAGGCACAGACTTTCAACTGGGAGAACTACTTGGAGAAGACCAAGTCGAAAGCCGC
TCCATCGAGACTCTTTAACATGGATTGCCCAAACCATGGCTTCAAGGTGGGCATGAAGCTGGAGGCCGTGGACCT
GATGGAGCCCCGGCTCATCTGTGTGGCCACGGTGAAACGAGTGGTGCATCGGCTCCTCAGCATCCACTTTGACGG
CTGGGACAGCGAGTACGACCAGTGGGTGGACTGCGAGTCCCCAGACATCTACCCCGTCGGCTGGTGTGAGCTCAC
CGGCTACCAGCTCCAGCCTCCTGTGGCCGAGAACCGGCCACACCGCTGAAGGCCAAAGAGGCCACAAAGAAGAA
AAAGAAACAGTTTGGGAAGAAAAGGAAAAGAAATCCCGCCCACTAAGACGCGACCCCTCAGACAGGGGTCCAAGAA
GCCCCGTGCTGGAGGACGACCCTCAGGGTGCCAGGAAGATCTCGTGGAGCCTGTTCTTGGCGAGATCATTGCTGT
GCGTGTGAAGGAAGAGCATCTAGACGTGGCCTCGCCCGACAAGGCTTCAAGTCCAGAGCTGCCTGTCTCCGTGCA
GAACATCAAGCAGGAACAGACGACTGAGCCTTCTGCTCCAGCCTGGCTTCTAGCTGGAAGCCAGCCAGCGT
TTCTCTACCACCACCACCATGCCTCCACCTGACTTTGGCTTGGAGACTGATCCTCTCTGTGTAATTCTGCCCGG
TGCTGTGAAGGCTGGACGGTGGAGGACCTGCTGGGGTCTCCTGGGACCCGCTGTTGCTTCTGCCCTCCCTGTG
GAAAGGTCTATATGACGGGCCGCTGAGGCCCCAGAAGTCTGTGTAACCACCTTTTCCAGCCAGAGTTCCCAA
AGCTGGAACGCTAGCTGCCTGCTCTTCTTAAGATGGCCTCCCCCGACCCGCCACGGCCCTCAGTTGCCAGGGA
TGGGGCCACCACTGTACACTGTGGAATACAAGACAGTGAACCTCTGTCTGCCTGAACGAGCCATGTAAATTAAGT
TCTAGAGCAGCTCTCTGAGCAGGATAAGGTCCCTGACAGTGAGTTGTGTGGTGGGGGCAGCCTCTGCCTCAAAA
ATTCACCAAGCAGAATGCCTCTCAGCCTCATGTGTTGTCCTCTGCTCCTCCTAGCTCCCCAGGGATGTTGGGGA
CCCAGCTTGTCTCGGCAGCTAAGAAGCAGTGACCAGGATGTGGATTTTGGCGACCTGTGTGGTGGCCTTGAGCTG
CTTTCTGTGTTTGTGAGGACTGACTCCCATTTCTTAAAGGAAATGCCCCGGGGAGGACATTGGGAGGAAGATGG
CCTGAGTGTGCACTTTGGCTCTGCTACCTGCTCCTGAAGCCCCGCTAAAAATAATTTCATCCAAGATTCCTTTGTA
GTTAAAGGGTCCAGTTCTGACTGGAGCCTCTAGAGAGCTGGGCTTGTATGTTCTTTTGGCCTTTTGTTCCTACCT
AAATGAAGAAACCATGCCTGGAGGGGCCGTGAACACAGAACCCTCAAGACAAGGATGACAGAGCTGGAGGACACA
TCTAGCTGCCATTGCAACCTCACTGGGCTCCCCAGACTCTGTGTGTGAGAAATTAAACCCCTGCTTGCTTG

4631/5332
FIGURE 4036

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACACTGACAGAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACCTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCGCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCAGGCTTTGCGTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAGTTGCCATTGCAGATGCCATCCGCGCGGCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCTCCCCACCTCCTGCAGACGTCTCCACCTTCTGGCTTTTCCCTCTCCAGAGAAGCTGCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCCTTCAACTCCAACACCTTCTCACCAGGCTGCTCGTGCACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAAGCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGCAACCCCTGCTGCTGGCGTTCTGTACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGTCTAG

4632/5332
FIGURE 4037

AGCAGAGGTCACCTCCTGACATGCGCTCTGGGAAAGGTGGCAGAGGGCAGGACACCATGAGCTCAGGATCTGTGT
GAGGTGTGGGAGGTGGGAAGGGTGAGGGTCTGGGGGAATGCGGAGAAAAGGGAGGCTTGACCCCGGGCACCATGG
GCCACTCCAGGATGGGACACGGCCCCCTCTTTCTTGGGGACCCAGTATGTCTCTCCTCTAGACCCAGACATACAG
TTATAACCGTCTGTCTAGCCCCCTCCCTAATCCCTGGCCCTCCCAGCTGTCTGGGACTTCAGTGGACCCCCAGCC
CCTGCCCCCACTCACCAAGGCCTCGCTCGTCCCTCTCGTCTGACATGTCTGTGTGCACCCCCCTCCTCTCCACCC
TACCTTCCATCAACCAGGGCAGATCCACCGTGGCCTGGTTCCCCAGACATTCAGAATGCCCCACATCATTGGCA
CAGGAGTGGGGCAGCCCCGAAGGAACCAGGGATTAGGCTGTAGGGGGGTGAGAAGGAGAGAAGGGACCACCCCA
TTCTTCTCAAGCAAGGATTGCCAGCGCGCTGACACAGTGTGGGCTGCCAGGGCTGGAGGGGACGCTGTTCC
TCCCGCCGCCACTGCCAACCTTTCCTGATAATCGTGGCATGCGCCCTTTCCTCTTCCCTGCCCCACCCCTGGC
CGCAGCAGGCCAGCACTGCAGAGTTTGGGTGCTGGTGGTGTGGCTGTAGGGGAGGGGAGACCACACCCAAGGTGG
GGGCTGTGGCCATGTGTGGCCGTGATGTGATGATACTCGTTTTCCCTGATCCGTGGTGTGTCAGTCCGTTGTCA
CCAGCCTTGTTTCTAGTGTGTATATATGTCGCCCCGTGATGCATATATACACAGGTATTAAATATATCGCTCTA
TATAATATTATATATGTGTGTGGTATCCAAGGAATCACTTTTTATGAGGGCTAAAGATAAAGAATTTGGCCAGAAA
ATGCAGCCATCCTTGTGTGATTAGGAGGGTTTCAGGGGCCACTGGACTATTTGCAAGGTGACAGGGACTGGAGCC
ATGGCTCAGAGGTGATTGCGGCAGCCAGGGACAGGAGCCACCCTCCCCAGGCCCAACTCTGCTAGCTTCCCAGAC
CACCCCCATCGAGTGCAGGAGAGAGTGGGAGTGCTCAGGGAAGAAGGTGATTGTATTGTCTCCCGCTGAAAA
GAACAGGATTCAAGTCCAGAGTTTTCATCTTCAGCCTGTGATCTGTCCAGGGACCCTTGGGATCTGGGGCTTCCT
GGCCTGGCCAGAGCTGGAGCCCCCACAGGGTAAGGAAGAGAGAGTGGGAGGCAGAGTGTGATGGGGAGGAGGGAC
AGGAAGACCCTTTTAAATGATGAGGGTAACTATTTAGTTGTGAGCCTTCTAGGGCCCCAGGCTGGGAGGCTCAGA
GGACTGAATCTGGGACCTGTGTTCCCCCGGCAGGCAGGGACAAGATGGCATGGCAAGCATGGGGGCGGGGTGGG
TGGGGAGGGATGCTGCATTTCTCAGCTGGGCAGTAATCAATTTAATGGTCCTTTAAAATGTCTGTGTATTAAAAA
TTTAAGAATACCACACTTTAATATTAAATATTATAAGGTCTAGTATCTTGATAATAATGTAGATGTTTTAATAA
CAATTTTGTCTTCTTAAATAAAATGAAAGAACTTG

4633/5332
FIGURE 4038

GGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACGATGTCGACGCGGGCGGCGGAAGAAGCCGCCTGTGGACC
CGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTGCGGGTCCCTCCCCCTGGTCC
TGAAGAAGCTGATGGAGAACCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAGG
ACGAGGCCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCAT
ATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCTGCTGGAGAATGGCATCCCCGCCAGCC
CCACCCACCTGGCCCAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACAG
CATCCCCACCATCCTCCTCCACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAGA
AGGAGAGGGGAGACTCCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAAC TTCAATCCGGACCCCGCCG
ACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCTCGGAAGCACAAAGTTTGCTGAGGAGGACCTGA
AGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACAA
GACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATCC
GGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAGT
GCAAGACCATCGTGCCAAGTATGAGACCAATACGGGGCCCTTGTAACCCCGTGCCCCCGCCGGGCGGGGTACT
GCCTGCACCTCAGACCTCTGCCCTG

4634/5332
FIGURE 4039

AAAGCTCTGGGTGTGCGGCAGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTT
GAGCCCAACGAGTACATCCATTATGACCTGCTAGAGAAGAACATTAAACATTGTTTCGCAAACGACTGAACCGGCCG
CTGACACTCTCGGAGAAGATTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCG
TACCTGCGGCTGCGGCCGACCGTGTGGCCATGCAGGATGCGACGGCCAGATGGCCATGCTCCAGTTCATCAGC
AGCGGGCTGTCCAAGGTGGCTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCAGGTTGGGGGCGAG
AAAGACCTGCGCCGGGCCAAGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGC
GTGGGCTTCTGGAAGCCTGGATCTGGAATCATCACCAGATTATTCTGGAACACTATGCGTACCCTGGTGTCTT
CTGATTGGCACTGACTCCACACCCCCAATGGTGGCGGCCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGAT
GCTGTGGATGTCTATGGCTGGGATCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCT
CTCTCCGGTTGGTCTCACCACAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGT
GCAATCGTGGAAATACCACGGGCCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGT
GCAGAAATTGGGGCCACCATTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACGGGCCG
GAAGACATTGCCAATCTAGCTGATGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTA
ATTGAAATTAACCTCAGTGAGCTGAAGCCACACATCAATGGGCCCTTACCCCTGACCTGGCTCACCTGTGGCA
GAAGTGGGCAAGGTGGCAGAGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAAT
TCAAGCTATGAAGATATGGGGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGAAGTCC
CAGTTCACCATCACTCCAGGTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGG
GATCTGGGTGGCATTGTCTGGCCAATGCTTGTGGCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAG
GGGGAGAAGAACAATCGTCACCTCCTACAACAGGAACCTTACGGGCCGCAACGACGCAAACCCGAGACCCAT
GCCTTTGTACGTCCCCAGAGATTGTACAGCCCTGGCCATTGCGGGAACCCTCAAGTTCAACCCAGAGACCGAC
TACCTGACGGGCACGGATGGCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTT
GACCCAGGGCAGGACACCTACCAGCACCCACCCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGC
CAGCGCCTGCAGCTCCTGGAGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAG
GTCAAAGGGAAGTGTACCACTGACCACATCTCAGCTGCTGGCCCCTGGCTCAAGTTCCGTGGGCACCTTGATAAC
ATCTCCAACAACCTGCTCATTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACT
CAGGAGTTTGGCCCCGTCCCTGACACTGCCCCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGAC
GAGAACTACGGCGAGGGCTCGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATC
ACCAAGAGCTTTGCCAGGATCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCG
GCTGACTACAACAAGATTACCCCTGTGGACAAGCTGAECATTGAGGGCCTGAAGGACTTCACCCCTGGCAAGCCC
CTGAAGTGCATCATCAAGCACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAG
ATTGAGTGGTTCCGCGCTGGCAGTGCCCTCAACAGAATGAAGGAAGTGAACAGTGAAGGGCAGTGCCTCCCCGCC
CCGCCGCTGGCGTCAAGTTCAGCTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCC
AAG

4635/5332

FIGURE 4040A

[illegible]

4636/5332
FIGURE 4040B

CAGCCACAGGGAGGGGCTGCAGGCCTCTCCTCCCTTCCACAGCAGTCCCCTTTGGGCTTGGTCGGCCTCCTTCCC
AGTTTCCACTCCCCTAATGTCCTCCCTGCACCTGCCTTGCAGGCCCTTCAGGAGTGACCACTGGCATTGCCCCT
ATCAACTCTGACCCACCTTGTAGTAGCGGGCAGTGTGAGGGACGGGGCCAACTCCTGAGTGACGGCATTGCGCA
CGGAGTTGGCCTTGCCGTTTTCAATGTTGATGGCACC AATGAGCAGGTTGTTGGAGATGTTATCCAAGTGCCCAC
GGA ACTTGAGCCAGGGGCCAGCAGCTGAGATGTGGTCAGTGGTACACTTCCCTTTGACCTTGGGTGGTAAGTAGA
GAGGACAGAGGTCAGGGCATGGCCCTGGAGGGGTGGATGACAAGCCCTCCAGAGGCAGGCAGCAGGCCCCGGGGC
CCAGGAGGGGTGACAGAGGGGTGAGAGGCAGGCAAGTCTTCAGACACGTGTTCTGTGGTCCTGGTGCTTCCACCC
TAAGGCCACATGGGCTCAGGCCAGGCCTTCATCCCTCAAAGGCCTCTGGCTGCTCAGTCTCCCTTATGGGGCAG
AGGCCGCCCCAAAGTTGGGACAGGTCAATGTTGCTCACCCTTCAGGCCTCAGCTGCAAGATCAGCCACAGACCTC
ATGCTGGACACAGGAGCCAGGACATGCCTGGGTCTGGCTGATGACTGATTAGTCTCTTCTGTACAGGGGTGC
CTGGAGACCCCTTAATAAGCAGCATAAATAAATATCTGACACAGATTGGAGGCCTCTGGCCACACC

4637/5332
FIGURE 4041

AGCCATGGCAGTCACCGCCCAGGCAGCCCGCAGGAAGGAGCGCGTCCTCTGCCTGTTTGACGTGGACGGGACCCT
CACGCCGGCTCGCCAGAAAATTGACCCTGAGGTGGCCGCCTTCCTGCAGAAAGCTACGAAGTAGAGTGCAGATCGG
TGTGGTGGGCGGCTCTGACTACTGTAAGATCGCTGAGCAGCTGGGTGACGGGGATGAAGTCATTGAGAAGTTTGA
TTATGTGTTTGCCGAGAACGGGACGGTGCAGTATAAGCACGGACGACTGCTCTCCAAGCAGACCATCCAGAACCA
CCTGGGGGAGGAGCTGCTGCAGGACTTGATCAACTTCTGCCTCAGCTACATGGCCCTGCTCAGGCTGCCAAGAA
GCGTGGAAACCTTCATCGAGTTCCGGAATGGCATGCTGAACATCTCGCCCATCGGCCGGAGCTGCACCCTGGAGGA
GAGGATCGAGTTCTCCGAAGTGGACAAGAAAGAGAAGATCCGGGAGAAGTTCGTGGAAGCCCTGAAAACAGAGTT
TGCTGGCAAAGGGCTGAGGTCTCTCGAGGAGGCATGATCAGCTTTGACGTCTTCCCGAGGGCTGGGACAAGCG
CTACTGCCTGGATAGCCTGGACCAGGACAGCTTCGACACCATCCACTTCTTTGGGAACGAGACTAGCCCTGGTGG
GAACGACTTTGAGATCTTTGCCGACCCCGGACTGTTGGCCACAGCGTGGTGTCTCCTCAGGACACGGTGCAGCG
ATGCCGGGAGATTTTCTTCCCAGAGACAGCTCATGAGGCGTGACCGGGGCCACATCTGTGTGTCTGCTGACTTCTG
AAGAGTTTGGCCTAGGCCTAAAGAGAGGTCCTGGTGTGGATAGATGCCAGGGCCCCCTCCTCTGGCCAGGACGC
CTGCTGCAAGCCCACCCAGATGGGGCCAGAGTCTGTGTGGACAACCGTCCCAGCCAGTCTGCTCCTAGTGGCAC
TGGCTTCGTCTCCAGGGCCAGAGTGTTCCCCATGCTCCACCTGGTGGGCCAGGCCACAGCTGCTGCTTGTAT
TTCGGTACAGAAGAGGTTTCTTCTGCACCAGGAGGAGCGTGCTCAAGTATCGGTACGAGATCTAGCCTGCCCT
GCCTGCCTGCCCTGGGCGATGAGGTACGGTGGGGAAGGTGCCTATTTTAGAGAACTTTGTACAGTATTAAAGTT
CCC

4638/5332
FIGURE 4042

CCGGTAGCGGGTGTGGGGGCGCGAGCAGCGCAGGGCGGGCTCTCCCCACCCCTCAGCCCGGGCCGGGCTCGGT
CCCCCCTCTCCCTCCGCTTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGCTGCCGGGTGCCGAGGGCCG
TCGTGGCCGCGCTCGCCACGGGTCCCAATCGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTG
TCCAAAGGCCTGGCCCGGGCGGCTCAGCCCCATCATGCTGGGGAACAACCTGGAAGGCATCTGGCACACATCCATA
GTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGG
CCTCCAGACTCTGTGGTTGATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTCTGGAGTACCTCTCCTCCCTG
GGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCA
CAGTTCCTGACTGGGCGGAAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTCTCTCCACGCCCTTTGGA
CAGGCACTTCGGCCCTCCTGGACTCCATTAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCCAACGGC
CAGAGCTAACAGGACTGCCTGGGACCGCCCTGCCTCACCAGGGCTTTTCTTTTAAACAAAACAAACCTACCA
GATTTCTATTTTATAATTTTACATCAGAGCTAACAAACAGGGGACGGCTTTTAAATTTCCAGGGAAGGAGACC
GTCAGGCCGATGTAGACAATGCTGCTAAGAAACAGAAACAAATGCCACCCCTTCTAATAGTATTATACTAATTT
ATTAAGGCTGTCTTGTCTGTGCGTTCACCTTCGGATGCTGTTTCTTAAGCGTCCCTCCACACTGGAGAAAGGGAGGG
GCTTTGTTTAAACAGAAAGCGAGTCACAGTTTGGGGAGCCCCAACCTAGAACTCTTTCCAGAGAACTACACGC
TCTACCCAAGTTGCCAACACCTGTGGGACCCAGGTGAGTTTTAGAACATCCGTGACCCAGAAAGTTACTCTAGTG
TTAAATGAACCAAGGATTTGGTGTACATGGGACCGGTTTCAGGATGACTAACCTAACCTAAGTGAATCTTTAG
CCACAACCCCTCACCTTCCCTCCCTTACCCCAAGCAAGGCCAGTGCTGGAGCAGCCATTGCCTCCGGATCAAGGGA
GTAACAGCAAGTATCAGGCCGAGAGAAACAGGATAAAGCCATTCTCCTTCCACCTAGATGGATTGCCAATCTTC
TGCCATCAATTTTGGGAAACCTGCCTTTGTGCCCCGAGGCTGCCTTTCCTCAGCATAGCTGACTTGTCTAGTG
GATGAGGTCTGGGCTGGAGCAGTAGAAGCCAAGGCCTTTTTCTGCAAGTAATGATGTAGGTTATTTGCAGTCTC
TGTAACACCATCCAGGCCAGTACGCAGTATTTAGCTGGGGACCAAGGGATGGGATTCCTACTCTAAGAAAATA
CCTTTATTTTAATTATTATTTTGTGAGACGGAGTCTCGCTCTACCACCCAGGCTGGTGTGAGTGGCATGAT
CTCGGCTCACAGAATCGCTTGAACCCGGGAGGCAGAGATTGCGATGAGCCGAGATCGTACCAGTGCCTCCAGCC
TGGGCGACAGAGTGAGACTCCATCTCAAAAAAATAAAATAATGAAGTGGAATCAAGGTGGCAAGAAAATTTAGAA
TCGTTTCTGATAGGGACTTTCCCTTATCCTAAATGTGTTTTGAAGGCACACGTTATTTCCATTGTCTATTCTGACT
TTAGAAAGGCAGGTTGGGGCATGAGTGGGCATTTTCTAATGACTTGCTGCTAGGAGGTTATAGGCAGGGAACAG
TCTGGGAGTC

4639/5332
FIGURE 4043

GCGGGCCGTTATCCATTTGTGTTGTTCCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTTCGGTCTCGCGCG
CCCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCCGCTGCGTTTGAGGCCCCGCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCGTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCGCGGGGCCCGCCGCGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCCATGCGCATTACATGCAGTCCGACTGCCGAGCTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAAGCTTTTAGAACAGATCTCACAAGAACCCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGCTTTTCGCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCCTGAAGCAAGTGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTCTTCTATGTTACCGAGAAAGACAAAATTCAGTGAATTTTAAAAATATTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTTAAGGGGCAGCAGGGACAAAACGTTTCCA
AGCCAGCCGGGCCAGGACCAAGCCGGTGATCTCCGAGATACAGGCATCTTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTTCGCGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCCTCTCCAATAAAGCTCTATCGGGAAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTCTGTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCCTTGGCCTTGGAATTTGATGGAGCCGGAACAAGCAGTGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTGAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCTGCCGGGCTTACGGGCTGAAGAGTGGGCTGAAGAAGCAGGAGCTGCTGGAAGCCCTACCAAGCACTT
CCAGGACTGACACAGAGGCCGCGCGTCCAGCTGCCCTTCGCGAGTGTTGGCCAGGCTGCCTGGCCTTGCTCCTCAGCC
AGTTAAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACITTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCACTTTGCTGTTCTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTGTACT

4640/5332
FIGURE 4044

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCACCTCAC
CAAGAAGCTACTGGACCTCGTTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTTCTGGATTTTTGTGTTGTTTTGTTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAATTAACAGCATTCAATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTGTTGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATAACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAAGTGTGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCIGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

4641/5332

FIGURE 4045

AGTTGCTTTGCTGTTAGCCTGTTGGACCTTCGAGCCTAGCTGCTCGCACAGGACTCGGCCACCTGCCCTTCCTGC
ACCGACTGGCCAGCTCAAGAGGTTTGGATATGGACCTTCTTCAATTCCTGGCCTTCCTCTTTGTCCTGCTTTTGT
CTGGGATGGGAGCCACAGGCACCTTGAGGACCTCCCTGGACCCAAGCCTGGAGATCTACAAGAAGATGTTTGAGG
TGAAGCGGCGGGAGCAGCTGTTGGCACTGAAGAACCTGGCACAGCTGAACGACATCCACCAGCAGTACAAGATCC
TTGATGTCATGCTCAAGGGGCTCTTTAAGGTGCTGGAGGACTCCCGGACAGTGCTCACCCTGCTGATGTGCTCC
CAGATGGGCCCCCTCCCCAGGACGAGAAGCTGAAGGATGCTTCTCCACGTGGTGGAGAACACGGCCTTCTTCG
GCGATGTGGTGCTGCGCTTCCCGAGGATTGTGCACTATTACTTTGACCACAACCTCAACTGGAACCTCCTCATCC
GCTGGGGTATCAGTTTCTGCAACCAGACAGGCGTCTTCAACCAGGGGGCCCCACTCGCCCATCCTCAGCCTGATGG
CCCAGGAGCTGGGGATCAGTGAGAAAGACTCCAACCTCCAGAACCCATTTAAAATCGACCGCACAGAGTTCATTC
CCAGCACTGACCCCTTCCAGAAGGCCCTGAGAGAAGAAGAGAAAACGCCGAAAGAAAGAGGAGAAGCGGAAGGAGA
TCCGAAAAGGCCCAAGGATCTCCAGATCCCACTGAGTTATAGCCCTGGAGCAGCTCAGGGCTCAGGGGGCCAC
AAGGAGGCAGGTCGGGAGGAAGAAGAGGTGGAGGTGTGGTTGTGGTGGAGAGCACCAGCTAGCCCTTCCAGAAG
GGGAGGCCACATTTGCCCGGCCCTTGGAGCTGGGTCTGAGCCCCAGCTGAAGGGACTGAGCCTCAGATGGCTGG
ATTTTCTCTCAGGGGCTCCTGCTGAAGGGGCTTCCAGAGGATTTTATGCTGGAATATGACCTGTGCACTG
CTGGGGGAGGCAGGAGGATGCCTGCCTGGACCCTGTTGGTGGCTGAAGACCTCTGGCCAGCTGGCTTCCGCCCTT
GGTGGGAAGCAGCAGAACTAGGTTCTGAGCCACGGGTGAGGTGCCACCCTGCTGCTGGCCCCACTGTGTCACA
GAGCTGCCTGGCACAGGTCCCAGCCCTCTGCAGAGACACAATAAAAGCCAGCAGACCCCTTG

4642/5332
FIGURE 4046A

CCGTCCGGTGAGGCGGTGCCGGGCGGGGGTTGTCCGGTGTTCATGGGCGGTGGCGACGGCACCGCCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGACGACAGCGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTTCAGT
AATCAAGTGGGAGAGTTCCTTGACTTGTTTTTCAGAACAGCTGTGTAGCTCCTTTCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCCT
TCAGTGCAACGGTCATTACCCAGGTCACATTACCTTCTCTCCCTCGGCGGCTCCCCACAGGCTCCAACCT
CTGCAAGTCAAGGTTTCTCCACCTCAGTTCACACACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACTCAGCTGCAACAACAGACGGTAATGATCAGCCAAACATTCAGCACCCTCCGCGAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCTCCAGGTACAGCCGGTCACCATTCAGCAGCAGGTGCAGACAGTACAGGCCACGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTGTCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCTGCGCCTCACCGCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCCTGGTGGGCAGCAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACAGCAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCTGTGCCTCTCCTTTAACCCCTGACTTCCCTGCTGCAGTGGGGAGGGGCCACGACTCTGACCAG
CACCACACTCAGGCTCTGGCCGAGTGTCTGTCAATCGAGTCAGGTTCTGGGGGCTGGTTTGACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGAGCTGCTGCCGGCAACCTACAAACCTGCCTGGCAGTTTTGGGCCGGGCACTGCCCACCTCC
CGCCTGGACCTGGCCTGAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCAGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGTGCACCAGCTGCACATCACAGGGAAGCTTCTGCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGCCCCGAGCACAGTGTCTTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCAGAGGAACCCAGCTGACCCCATTCGCGAGGTCCACCAGGCCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCCTTGTTGAAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCATTCTTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTCGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCACTGGGGCC
ACCTCTGACCTGCCCTCAACCACGTGGTCCAGCTGCTACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCTCAGGCGCTGAAGTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCCAGCATAACCGCAAGGTGTTCTTCATGAA
GCCACCGTGCCTGATGGCAGGAGCCAGCCCCACCGCACCCACCAGCTGCTGGAACACAGCCTGCGGCGGGCGC
ACCACGCAGAGCACCAGCAGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCCTGCTG
GCCTGCCGCCACCTGCCCCCTCTCCTTCTCTCTCCCCGGGCCAGCGGGCAGTGTCTGGCCGAAGCTGCCCGC
ACCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCAACAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTCTCTCTCTCCCCCTCAG

4643/5332
FIGURE 4046B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCTACTCTCTCCTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAATAAATGGTATCTTA

4644/5332
FIGURE 4047

GCACCGCAGGAGCAACGGTTGGTCCTGCGGCTGTGATGTCGGTGTTGAGGCCCTGGACAAGCTGCCCCGGCCTGA
ACACGGCCACCATCTTGCTGGTGGGCACGGAGGATGCTCTTCTGCAGCAGCTGGCGGACTCGATGCTCAAAGAGG
ACTGCGCCTCCGAGCTGAAGGTCCACTTGGCAAAGTCCCTCCCTTTGCCCTCCAGTGTGAATCGGCCCCGAATTG
ACCTGATCGTGTTTGTGGTTAATCTTCACAGCAAATACAGTCTCCAGAACACAGAGGAGTCCCTGCGCCATGTGG
ATGCCAGCTTCTTCTTGGGGAAGGTGTGTTTCCCTCGCCACAGGTGCTGGGCGGGAGAGCCACTGCAGCATTACCC
GGCACACCGTGGTGAAGCTGGCCACACCTATCAAAGCCCCCTGCTCTACTGTGACCTGGAGGTGGAAGGCTTTA
GGGCCACCATGGCGCAGCGCTGGTGCCTGCTGCAGATCTGTGCTGGCCACGTGCCCGGTGTCTCAGCTCTGA
ACCTGCTGTCCCTGCTGAGAAGCTCTGAGGGCCCCCTCCCTGGAGGACCTGTGAGGGTGGCTGGCCCCCTGGGCTGC
CCCTTCTCATGGCTTCGTGCTGACTCCATAAACATTCTCTGTTGAGGATGTCCAGTCAGGGCTTGACAGGCCCCAG
GCTCAGCCCCCGGTGGCTGGGAAGGTTCCCTGCAGTGCCAGTGCTGCAGCAGGGAGAGCTGGGCAGAAGCAGCGA
GGGGGCCCAGCTGGCGAGACTGTAGCCCCCTCCCACTCCCACACTCACTCTTGAGAGCCTGTGTCTTTAAGCAG
CTGGCGTGTTACATCTCCATTTAAGGTTTCTTTGAACAAAAGGTCTGTGGCTAAAAAAGTTTAAAAATC

4645/5332
FIGURE 4048A

GATTTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGAGCCCCGCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGGCCGAAGGCGGCCGTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTCAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAAGTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCTGATGCCGATCCCAAGCGCTTCCCTCATGGCATTCTTTCTGCTGACT
ACGTTTCACTCCCTGGGCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACTGCAATGGGTTACCCAGGCA
CCACATGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCGAGTGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCGAGGAGCGGGCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCTCCCCCAAGGGTGAACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAACATATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTCTG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGACGCGAGGATTACAAAGGAAAAATCTCTCATCGAAGTGATACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTGGCCAGC
TGAACCTTACCGGGTCTGTGATATATGAGGCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCTTCAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAACTGGAGA
TGTCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCTCTTGGAACTTCTTTGGGGCAATTTTCTGTG
GCCTTCTGCGCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGACG
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTCACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGGTGTGGATTCA
AATCTCACCTCTATGGATGATGCTGGCATCGTCTGGCCCTCCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCTTACACCCAGGAGCTGCCCTGCTGTGCCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCCAGGTCTGACGCTTGTGCTCTGCCAGCAGTGCCCCCTGGCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTATTTCTCTCCCAACCTGG
CTGCAAAGGAGGTTTCATATCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAATTTGATTTCCTG
TCCCTCTTCTTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGTCTTCCCTGGTGGCTCTCCCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCCCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTTCTGAGGTCTTGTATTTAGGGT
ATGGTGTAATAAATTTACATATGCACATTTTGTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTTCTTTCCCGAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCTCCGTGCATAGCTCTGCCTTTGGGTCTTGTTCATAGTGCTGTTACAGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGCTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCTTTACCTTTACGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTCTTTTGTCTGGGGGTGCCTGATTGATCCTATCTCTTACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCAGGACATTTATTCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTTTGGACGCAAGGTACCCCTTCTCTTTTAAAACTTTTATCATGAAAACCTT

4646/5332

FIGURE 4048B

CAAATACAAAATAAAATGGTAGAGTGAACCTCCATG

4647/5332
FIGURE 4049A

CACCGCCGCCGCGCCCCATTGGGCGGGGTGCTGGGGCATCCCGGGCGCTGGGTGCCCGAGCGGCTACGACGAGT
CCCAGGTGGGGCCGGGCTCCAGGCCCGCGGGGAGCGGAGCCGTGCGCCGAGGCGGGCTCCGTGACGCCGGGTG
GGGAACGCCGGGCGGGTGGCGGGACTTCCGCCACGGGACTCGGAAGGGGCCGCGCCGCCGTGCTGGGAGTTGTA
GTCCGGCCGTGGTTGGGGGAGCCGCGGCTCATGCGCGGTGCACAGAGGCTTGTTTACATCTGTAAACAACAGGAG
GAGGCCCAGCCTCGTGATGAGGAATAGCAAGGAGAGAATTCAGCTCCAGTTCAAAGCCTACAAAATCTGAGACT
GTCATTGCTTTTATAAGGATTCCAGCTTTCCTCCTGGCCAGAAATGTTTACGCTGGACTCATTACAGAAAAGATC
GGGCCCAGCACAGGACGCTCAGTGCAAATTTCCCCACCCCGCCTTCCACCCATGTGTGTCAACCTACCCAG
GAGGGACCATCTCTCGAGGCTGAACGTTAACATTTCCAACATGGCAGCTTCTAGGGACCTATTAAGAGATTCCC
ACAGCCCCAAAATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCAAAAGACAACTAGTCTA
CGTGACACAAAATGGACCGAAGAAAAAGAAAGTCACACTGCACATAAAATGGCCCAAGAGCGTGAGGTTAGAAGG
CTATGGCAGCAAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCT
GCTAGGTCCCCGGAATGAGTTGTTTGACGCAGCCAAATACCGAGTGCTAGCTGATCGCTTTGGCTCCCCTGCCGA
CAGCTGGTGGCGTCCGGAACCCACCATGCCCCCTACTTCTTGGCGGCAGCTGAATCCAGAGAGTATTCGACCAGG
GGGACCTGGGGGCCTATCCCGCTCTTTAGGCCGGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGAC
CATAGATGTTACCGACTTCTTGTCCATGACCCAGCAGGATTCCCACGCTCCACTCAGGGACTCAAGGGGGAGTTC
CTTTGAGATGACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCAAGAACCTTCTGGCCAA
GGTGATTCAGATTGCAACGTCATCCTCCACAGCTAAGAACCTCATGCAGTTCCATACTGTGGGCACCAAGACCAA
GCTGTCTACACTCACCTGCTCTGGCCCTGCCCATGACCTTTGTTGCCAAGGGCGCCGCAAAGCAGAGGCTGA
GAATAAGGCGGCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGGACAGGAACAACGAACCGCTTAC
ACACGCCATGTATAACCTGGCCTCTTTGCGTGAGCTGGGTGAGACCCAGCGCCGACCATGCACCATCCAGGTGCC
CGAGCCCATCCTCCGCAAGATAGACCTTCTTGAACCATTACCCTGTGGAGAGTTCATGGATCGCCCCAGAAT
CCGGCTGCAGAGTGATGACATCTTGCCCTTGGGCAAGGACTCAGGGCCTCTGAGTGACCTATCACAGGCAAGCC
CTATGTGCCCCCTGTTGGAAGCAGAGGAGGTACGTCTCAGCCAGAGTCTGCTAGAATGTGGCGCGGCGAGGGCC
GGTCTGGCAGGAGGCCCCCAGCTACCTGTGGACCCACATCGGGACACCATCCTCAACGCCATTGAGCAGCACCC
GGTGGTGGTCACTCTTGGGGACACGGGCTGTGGGAAGACCACGCGCATCCCCAGCTGTTGCTGGAGCGCTATGT
GACCGAGGGCCGAGGTGCCCGCTGCAATGTTATCATCACCCAACCTCGCCGCATCTCTGCTGTGTCTGTGGCACA
GCGGGTCAGCCACGAATGGGCCCCCTCCCTGCGCCGGAATGTGGGCTTCCAGGTGCGGTTGGAAAGTAAGCCCCC
ATCCCGAGGCGGGGCCCTGCTCTTCTGCACTGTGGGTATCCTGCTGCGTAAGCTGCAGAGCAACCCAGCCTGGA
GGGCGTGAGCCACGTCATCGTGGATGAGGTGCATGAGCGGGACGTGAACACAGACTTTCTGCTGATCCTGCTCAA
GGGCTGCAGCGGCTCAACCCGGCCCTGCGGCTGGTGCTCATGAGTGCCACAGGGGACAATGAGCGCTTCTCCCG
ATACTTTGGTGGCTGCCCCGTATCAAGGTGCCCTGGCTTATGTACCCAGTCAAGGAGCACTACCTAGAGGACAT
CCTGGCCAAGTTGGGCAAGCACCAGTACCTGCACCGGCACCGGCACCATGAGTCTGAGGATGAATGCGCACTCGA
TTTGGACCTTGTGACTGATCTGGTTCTGCACATCGATGCTCGCGGGGAACCAGGTGGGATCCTGTGCTTCTGCC
TGGGTGGCAGGAGATCAAAGGAGTGCAGCAGCGCTCCAGGAGGCCCTGGGCATGCACGAGAGCAAGTACCTCAT
CCTGCCAGTGCACCTCAACATCCCCATGATGGATCAGAAGGCCATATTCCAGCAGCCTCCAGTTGGGGTGGCAA
GATTGTCTTGGCCACCAACATTGCTGAGACTTCCATCACAATCAATGACATCGTGATGTGGTGGACAGTGGGCT
GCACAAGGAAGAACGCTATGACCTGAAGACCAAGGTGTCTGCCTGGAGACAGTGTGGGTATCAAGAGCCAATGT
GATCCAGCGCCGGGGCCGGGCGGCGCTGCCAGTCCGGCTTTGCCTACCACTTGTTCCTCGAAGCCGGCTGGA
GAAATGGTCCCTTTCCAAGTGCCAGAGATCCTGCGCACACCTCTTGAGAACCTGGTGCTGCAAGCGAAAATCCA
CATGCCTGAGAAGACGGCGGTGGAGTTCTGTCCAAGGCTGTGGACAGTCCAACATCAAGGCAGTGGACGAGGC
TGTGATCTTGCTCCAGGAGATCGGGGTGCTGGACCAGCGGAGTACCTGACTACCCTGGGGCAGCGCCTGGCTCA
CATCTCCACCGACCCCGGTTGGCCAAGGCCATTGTGTTGGCTGCCATCTTCCGTTGCCTGCACCCACTACTGGT
GGTCGTTTCTGCCTCACCCGGGACCCCTTACGAGCAGCCTACAGAACCAGGAGGAGGTGGACAAGGTGAAAGC
ACTGTTGAGCCATGACAGCGGCAGTGACCACCTGGCCTTGTGCGGGCTGTGCGCGGCTGGGAGGAGGTGCTGCG
TTGGCAGGACCGCAGCTCCCGGGAGAATTACCTGGAGGAAAACCTGCTGTACGCACCCAGCCTGCCTTCAATCCA
CGGACTCATCAAGCAGTTCTCAGAGAACATTTATGAGGCCCTTCTGGTGGGGAAGCCCTCGGACTGCACCCCTGGC
CTCCGCCAGTGCAACGAGTACAGTGAGGAGGAGGAGCTGGTGAAGGGCGTGCTGATGGCCGGCTCTACCCCAA
CCTCATCCAGGTGAGGCAGGGCAAGGTACCCGGCAGGGGAAGTTCAAGCCCAACAGCGTCACATATAGGACCAA

4648/5332
FIGURE 4049B

ATCAGGCAACATCCTGCTGCACAAGTCGACCATTAACAGGGAGGCCACACGGTTACGGAGCCGATGGCTGACGTA
TTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCCGGGACTCCTCTCAGGTGCACCCGCTAGCTGTGCTGCT
GCTGACCGACGGGGACGTGCACATCCGTGATGACGGGCGCCGGGCCACCATCTCACTGAGCGACAGTGACCTGCT
GCGGCTGGAGGGTGACTCGCGTACCGTGCGGCTGCTGAAGGAGCTGCGGCGGGCCCTGGGCCGCATGGTGGAGCG
GAGCCTGCGCAGCGAGCTGGCTGCACTTCCCCCAGCGTACAGGAGGAGCACGGGCAGCTGCTTGCGCTACTGGC
AGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACTGAGGCCCTGCTTCTGCTGGG
GCTGTGTACAGAGTGCAAATGTTTATTTAAAAATAAAGTTCTATTTATCCCTTGTG

4649/5332
FIGURE 4050

CGTGCGTGCGCGCGCAGATGTGGGCCCCGCGGGAGCAGCTACTGGGCTGGACTGCGGAAGCTCTGCCTGCCAAGG
ATTCTGCCTGGCCCTGGGAAGAGAAGCCTAGATATCTGGTTCCAGTGGCAGATGGGGCACTGGCCAGAGGGGTTA
GGAGGATTTGGACTCTCCTTGGGAGTCGCTGTGATACGGCCTTCAATTATAGTTGTCTTTCTTCTTGGATTTC
ACCACTTCCCTGAAAACACGAGCTGGAAGCTGAGACCAGCTGGTCACTGCTGGGCCTGCTAGGAGCCACACGGA
AGCTGCCCACAGCCAGACACCAGAGCCTCAAAGGCCGCCATCTTGAAAAACCAACCCTGACCTCCACAATGATTG
ATTTTCAAATGTTGAACCAGCTTTCAGAACTATAATAAACCCAAGTGTGATACCCTGTCTCAAGTATTGTGGTG
ATCAAATAGGACCAGTGACTTTCGAGGATGTGGCTGTGCTTTTCACTGAGGCAGAGTGGAAGAGACTGAGCCTTG
AGCAGAGGAACCTATACAAAGAAGTGATGCTGGAAAATCTCAGGAATCTGGTCTCATTGGAATCAAAGCCAGAAG
TCCATACCTGCCCTTCTTGCCCTCTGGCCTTTGGCAGTCAGCAGTTCCCTCAGCCAAGATGAGCTACACAATCATC
CTATTCCAGGTTTCCATGCAGGAAATCAACTCCACCCAGGAAATCCCTGCCCAGAGGATCAGCCACAGTCACAAC
ATCCTTCTGATAAAAATCACAGGGGGGCTGAAGCAGAAGATCAACGAGTGGAGGAGGCGTCAGACCCCTTGT
GGAGTACAAATGAAAGGGGGGCTTTAGTGGGTTTCTCTAGCCTGTTCCAGAGACCACCAATAAGCTCTTGGGGAG
GCAACAGAATATTAGAGATACAGCTCAGTCCAGCCCAGAATGCAAGCTCTGAGGAAGTAGACAGAATTTCCAAGA
GGGCAGAAACCCAGGGTTTGGAGCAGTCACGTTTGGGGAGTGTGCTAGCTTTAACCAGAAGTCAAACCTGT
TCAGACAGAAGGCAGTCACAGCAGAAAAATCTTCAGACAAAAGGCAGTCACAGGTGTGCAGGGAGTGTGGGCGAG
GCTTTAGCAGGAAGTCACAGCTCATCATACACCAGAGGACACACACAGGAGAAAAGCCTTATGTCTGCGGAGAGT
GTGGGCGAGGCTTTATAGTTGAGTCAGTCTCCGCAACCACCTGAGTACACACTCCGGGGAGAAAACCTTATGTGT
GCAGCCATTGTGGGCGAGGCTTTAGCTGCAAGCCATACCTCATCAGACATCAGAGGACACACACAAGGGAGAAAT
CGTTTATGTGCACAGTGTGTGGGCGAGGCTTTCGTGAAAAGTCAGAGCTCATTAAGCACCAGAGGTGTCAAGTGA
CGGTCCCCTTGGAGGAATGGTCTTTGCATCTGACTACTTCTCTGCAACTGTGTCTTCCATTAGCTTCCATGA
CACTCTCCTGCTTTATTTTTTTCTACATCTCTAGCCTTTGCTGTTTCTCTCTCTACCCACCTTTAGATTTTACT
CAGAGTTCAGTCTCCAGCCCTACAATCTGAGGGACACCTTTACCAGGTCCCCTTCCCTAACCCCTCCAGTCCCAAAT
CCAAGATTCTTTAACCACACTCTAAAAGTTCTTCAGACTCAGGACTTAAACATAGCCACGCCACCTTGGCCTTCA
ATGACAGGGATCTAGCAATGCTGCATCATCAGCCTTCCAATACCAGGTTTAAAGGGTATTTTAAACACAGCTCCTC
TTAAATCCTCCAATCTCAGTACCCAGTGTTTTAGCCATGCTCGGGTGGCTAAATTACATCCAGGAATGGTGCCAG
GGCCTTTAGCCATTTGTCTCTCTCACACTCCAGGGCCCATATGGCCCAGGTTCTGACAGTTTGCCTTACTCCCT
TGGGCTGGGGCTAGCCCTACCTGATACCTGTGTCAATGAGTGTACCTTGGAGAGCTATCCACTCAGGCCCCAGT
GCCTCTATTTGCTAAGGGACTCTGCCACAGAAAAGAAGGGGAGAGATGTTTATGTAACCTCAAAATACTTAGGCT
TGGTTTTGATGCTAGAGAGGAAAAAGGACTTGGAGAGAGAGAAGGAATGGCTGGTCCAGAGGCTTTTGTCCACTC
CCTCTCACTGGAAGTGGTTGATCTCCAGGGAATCCCCAAGGTTAGCCTGCTTAGGGGAAGGGCTAGGGGTACCTG
GAATGTAGGATCTCCCCATGCCTGGCCTACCACCCTAATGTGTCTGGAATTGGTGGGTCTTGGTCTTGCTGAC
TTCAAGAATGAAGCCGTGGACCCTCACGGTGAGTGTACAATTCTTAA

4650/5332
FIGURE 4051

AAGGTGAACCCGCAGCCGGACTTCTGCTGCACTGGGGCTCCGA^cATGACCCAGAATCTGGGGAGTGAGATGGCCTC
AATCTTGCGAAGCCCTCAGGCTCTCCAGCTCACTCTAGCCCTGATCAAGCCTGACGCAGTCGCCCATCCACTGAT
TCTGGAGGCTGTTCATCAGCAGATTCTAAGCAACAAGTTCTTGATTGTACGAATGAGAGAACTACTGTGGAGAAA
GGAAGATTGCCAGAGGTTTTACCAGAGCATGAAGGGCGTTTTTCTATCAGAGGCTGGTGGAGTTCATGGCCAG
CGGGCCAATCCGAGCCTACATCCTTGCCCAACAAGGATGCCATCCAGCTCTGGAGGACGCTCATGGGACCCACCAG
AGTGTTCCGAGCACGCCATGTGGCCCCAGATTCTATCCGTGGGAGTTTCGGCCTCACTGACACCCGCAACACCAC
CCATGGTTTCGGACTCTGTGGTTTCAGCCAGCAGAGAGATTGCAGCCTTCTTCCCTGACTTCAGTGAACAGCGCTG
GTATGAGGAGGAAGAGCCCCAGTTGCGCTGTGGCCCTGTGTGCTATAGCCCAGAGGGAGGTGTCCACTATGTAGC
TGGAACAGGAGGCCTAGGACCAGCCTGATGTCAGGTCTATGAAGACCAGTGGTAGTGCCAGACTTCTCCTAGACA
TCTAGTCTAAAACATTCTCCTA

4651/5332
FIGURE 4052A

ATGCCTGCTCTGGGCCCAGCTCTTCTCCAGGCTCTCTGGGCGGGTGGGTCCCTCACCCCTCCAGCCCTTCCACCA
ACTGCATTCACTCCCAATGGCACGTATCTGCAGCACCTGGCAAGGGACCCACCTCAGGCACCCTCTACCTGGGG
GCTACCAACTTCTGTTCAGCTGAGCCCTGGGCTGCAGCTGGAGGCCACAGTGTCCACCGGCCCTGTGCTAGAC
AGCAGGGACTGCCTGCCACCTGTGATGCCTGATGAGTGGCCCCAGGCCACGCTACCAACAACCCGAATCAGCTG
CTCCTGGTGAGCCCAGGGGCCCTGGTGGTATGCGGGAGCGTGCACCAGGGGGTCTGTGAACAGCGGCGCCTGGGG
CAGCTCGAGCAGCTGCTGCTGCGGCCAGAGCGGCCTGGGGACACACAATATGTGGCTGCCAATGATCCTGCGGTC
AGCACGGTGGGGCTGGTAGCCAGGGCTTGGCAGGGGAGCCCCCTCCTGTTGTGGGGCGAGGATACACCAGCAGG
GGTGTGGGGGTGGCATTCCACCCATCACAACCCGGGCCCTGTGGCCGCCCCGACCCCCAAGCTGCCTTCTCCTAT
GAGGAGACAGCCAAGCTGGCAGTGGGCGCCTCTCCGAGTACAGCCACCACTTCGTGAGTGCCTTTGCACGTGGG
GCCAGCGCCTACTTCCGTTCCTGCGGCGGGACCTGCAGGCTCAGTCTAGAGCTTTTCGTGCCTATGTATCTCGA
GTGTGTCTCCGGGACCAGCACTACTACTCTATGTGGAGTTGCCTCTGGCCTGCGAAGGTGGCCGCTACGGGCTG
ATCCAGGCTGCAGCTGTGGCCACGTCCAGGGAGGTGGCGCATGGGGAGGTGCTCTTTGCAGCTTTCTCCTCGGCT
GCACCCCCCACTGTGGGCCGGCCCCCATCGGCGGCTGCTGGGGCATCTGGAGCCTCTGCCCTCTGTGCCTTCCCC
CTGGATGAGGTGGACCGGCTTGCTAATCGCACGCGAGATGCCTGCTACACCCGGGAGGGTCTGTCTGAGGATGGG
ACCGAGGTGGCCTACATCGAGTATGATGTCAATTCTGACTGTGCACAGCTGCCAGTGGACACCCTGGATGCTTAT
CCCTGTGGCTCAGACCACACGCCCAGCCCCATGGCCAGCCGGTCCCGCTGGAAGCCACACCAATTCTGGAGTGG
CCAGGGATTAGCTAACAGCTGTGGCAGTACCATGGAAGATGGACACACCATCGCTTTCTTGGGTGATAGTCAA
GGGCAGCTGCACAGGGTCTACTTGGGCCCAGGGAGCGATGGCCACCCATACTCCACACAGAGCATCCAGCAGGGG
TCTGCAGTGAGCAGAGACCTCACCTTTGATGGGACCTTTGAGCACCTGTATGTCATGACCCAGAGCACACTTCTG
AAGGTTCCCTGTGGCTTCCGTGCTCAGCACCTGGACTGTGCATCTTGCCCTGCTCACAGGGACCCATACTGTGGG
TGGTGCCTGCTCCTTGGCAGGTGCAGTCGCCGTTCTGAGTGTCTGAGGGGCCAGGGCCCAGAGCAGTGGCTATGG
AGCTTCCAGCCTGAGCTGGGCTGTCTGCAAGTGGCAGCCATGAGTCTGCCAACATCAGCCGAGAGGAGACGAGG
GAGGTTTTCTATCAGTGCCAGACCTGCCACCCCTGTGGCCAGGGGAGTCAATTCTTCCCTGCCACTTTGGGGAACAT
CAGAGTCTGCCCCTGCTGACTGGTCTTGGTGTGATGTGCCCCTCCCCAGACCCTAGTGAGGCCCCAGTGTGCCG
AGAGAGCCGAGTACGTATCCGTGAGCGTGGAGCTCAGATTGGCGCTGTGTGATCGCCAAAACCTTCCCTCTCT
TTCTATGACTGTGTGGCGGTCACTGAACCTCCGCCCCATCTGCGCAGTGCCAGGCCTGTGTGAGCAGCCGCTGGGGG
TGTAACCTGGTGTGTCTGGCAGCACCTGTGCACCCACAAGGCCTCGTGTGATGCTGGGCCCATGGTTGCAAGCCAT
CAGAGCCCGCTTGTCTCCCCAGACCCTCCTGCAAGAGGTGGACCCAGCCCTCCCCACCCACAGCCCCCAAAGCC
CTGGCCACCCCTGCTCCTGACACCCTTCCCGTGGAGCCTGGGGCTCCCTCCACAGCCACAGCTTCGGACATCTCA
CCTGGGGCTAGTCCCTTCCCTGCTCAGCCCCCTGGGGGCCATGGGCAGGTTCTGGCTCCATATCTTCCCCTGGCTCC
ACAGGGTCGCCTCTCCATGAGGAGCCCTCCCCCTCCAGCCCCCAAATGGACCTGGAACCGCTGTCCCTGCCCCC
ACTGACTTTCAGACCCTCAGCCACACCTGAGGACCTCTTGGCCTCCCCGCTGTACCCGTCAGAGGTAGCAGCAGTG
CCCCCTGCAGACCCTGGCCCCGAGGCTCTTCATCCACAGTGCCCCCTGGACCTGCCCCCTGCCACTGTTCTGCC
ACCACTTTCCAGGGGCCATGGGCTCCGTGAAGCCCCGCTGGACTGGCTCACGAGAGAAGGCGGCGAGCTGCCC
GAGGCGGACGAGTGGACGGGGGTGACGCACCCGCTTCTCCACTTCCACCCTCCTCTCAGGTGATGGAGACTCA
GCAGAGCTTGAGGGCCCTCCCGCCCCCTCATCTCCCGTCCAGCCTCGACTACCAGTATGACACCCCGGGCTC
TGGGAGCTGGAAGAGGCGACCTTGGGGGCAAGCTCCTGCCCTGTGTGGAGAGCGTTCAGGGCTCCACGTTGATG
CCGGTCCATGTGGAGCGGGAATCCGGCTGCTAGGCAGGAACCTGCACCTTTTCCAGGATGGCCCAGGAGACAAT
GAGTGTGTGATGGAGCTGGAGGGCTCGAGGTGGTGGTTGAGGCCGGGTGAGTGTGAGCCACCTCCAGATACC
CAGTGCCATGTCACTGCCAGCAGCACCAGCTCAGCTATGAGGCTCTGCAGCCGAGCTCCGTGTGGGGCTGTTT
CTGCGTGGGGCCGGCGTCTGCGTGTGGACAGTGTGAGGGGCTGCATGTGGTACTGTATGACTGTTCCGTGGGA
CATGGAGACTGCAGCCGCTGCCAACTGCCATGCCCCAGTATGGCTGTGTGTGGTGTGAGGGGGAGCGTCCACGT
TGTGTGACCCGGGAGGCCTGTGGTGGGCTGAGGCTGTGGCCACCCAGTGCCAGCGCCCCCTCATCCACTCGGTG
GAGCCACTGACTGGGCCTGTAGACGGAGGCACCCGTGTACCATCAGGGGCTCCAACCTGGGCCAGCATGTGCAG
GATGTGCTGGGCATGGTACGGTGGCTGGAGTGCCCTGTGCTGTGGATGCCAGGAGTACGAGGTCTCCAGCAGC
CTCGTGTGCATCACCGGGGCCAGTGGGGAGGAGTGGCCGGCGCCACAGCGGTGGAGGTGCCGGGAAGAGGACGT
GGTGTCTCAGAACACGACTTTGCCTACCAGGATCCGAAGGTCCATTCCATCTTCCCGGGCCCGGGCCCCAGAGCT
GGGGGCACCCGCTCACCCCTGAATGGCTCCAAGCTCCTGACTGGGCGGCTGGAGGACATCCGAGTGGTGGTTGGA

4652/5332
FIGURE 4052B

GACCAGCCTTGTCACTTGTGTCGGGAGCAGCAGTCAGAACAACCTGCGGTGTGAGACCAGCCCACGCCCCACGCCT
GCCACGCTCCCTGTGGCTGTGTGGTTTGGGGCCACGGAGCGGAGGCTTCAACGCGGACAGTTCAAGTATACCTTG
GACCCCAACATCACCTCTGCTGGCCCCACCAAGAGCTTCTCAGTGGAGGACGTGAGATATGCGTCCGTGGCCAG
AATCTGGACGTGGTACAGACGCCAAGAATCCGGGTGACCGTGGTCTCGAGAATGCTGCAGCCCAGCCAGGGGCTT
GGACGGAGGCGTCGCGTGGTCCCGGAGACGGCATGTTCCCTTGGACCCTCCTGCAGTAGCCAGCAATTTGAGGAG
CCGTGCCATGTCAACTCCTCCCAGCTCATCACGTGCCGCACACCTGCCCTCCCAGGCCTGCCTGAGGACCCCTGG
GTCCGGGTGGAATTTATCCTTGACAACTGGTCTTTGACTTTGCAACACTGAACCCACACCTTTCTCCTATGAG
GCCGACCCACCCCTGCAGCCACTCAACCCTGAGGACCCACCATGCCATTCCGGCACAAGCCTGGGAGTGTGTTT
TCCGTGGAGGGGAGAACCTGGACCTTGCAATGTCCAAGGAGGAGGTGGTGGCTATGATAGGGGATGGCCCCCTGT
GTGGTGAAGACGCTGACGCGGCACCACCTGTACTGCGAGCCCCCGTGGAGCAGCCCCTGCCACGGCACCATGCC
CTCCGAGAGGCACCTGACTCTTTGCCGTAGTTACGGTGCAGATGGGGAACCTGCGCTTCTCCCTGGGTACAGTG
CAGTATGACGGCGAGAGCCCTGGGGCTTTCTGTGGCAGCCAGGTGGGCTTGGGGGTGGGCACCTCTCTTCTG
GCTCTGGGTGTCTATCATATTGTCCTCATGTACAGGAGGAAGAGCAAGCAGGCCCTGAGGGACTATAAGAAGGTT
CAGATCCAGCTGGAGAATCTGGAGAGCAGTGTGCGGGACCGCTGCAAGAAGGAATTCACAGACCTCATGACTGAG
ATGACCGATCTCACCAGTGACCTCCTGGGCAGCGGCATCCCCCTTCTCGACTACAAGGTGTATGCGGAGAGGATC
TTCTTCCCTGGGCACCGCGAGTCGCCCTGACCCGGGACCTGGGTGTGCCTGAGAGCAGACGGCCCACTGTGGAG
CAAGGGCTGGGGCAGCTCTCTAACCTGCTCAACAGCAAGCTCTTCTCACCAGTTTCATCCACACGCTGGAGAGC
CAGCGCACCTTTTCAGCTCGGGACCGTGCCTACGTGGCATCTCTGCTCACCCTGGCACTGCATGGGAAGCTTGAG
TATTTCACTGACATCCTCCGCACTCTGCTCAGTGACCTGGTTGCCAGTATGTGGCCAAGAACCCCAAGCTTGATG
CTGCGCAGGACAGAGACTGTGGTGGAAGCTGCTCACCAGGATTAAGCACCAGTGGATAAGGGGCCACTGGACAGT
GACTCCGTAGGGGAGCCTCTGTACATGCTCTTTCGAGGGATTAGCACCAGTGGATAAGGGGCCACTGGACAGT
GTGACAGGCAAGGCCAATAACACCTTGAACGACAACCGCTGCTCAGAGAGGATGTGGAGTACCGTCCCCTGACC
TTGAATGCATATTGGCTGTGGGGCTGGGGCAGGAGAGGCCAGGGCGTGCCCGTGAGGTCTCTAGACTGTGAC
ACCATCTCCCAGGCAAAGGAGAAGATGCTGGACCAGCTTTATAAAGGAGTGCCTCTCACCAGCGGCCAGACCCT
CGCACCCCTTGATGTTGAGTGGCGGTCTGGGGTGGCCGGGCACCTCATTCTTTCTGACGAGGATGTCACTTCTGAG
GTCCAGGGTCTGTGGAGGCGCCTGAACACACTGCAGCATTACAAGGTCCCAGATGGAGCAACTGTGGCCCTCGTC
CCCTGCCTCACCAGCATGTGCTCCGGGAAAACAGGATTATGTCCCTGGAGAGCGGACCCCAATGCTGGAGGAT
GTAGATGAGGGGGGATCCGGCCCTGGCACCTGGTGAAGCCAAGTGATGAGCCGGAGCCGCCAGGCCTCGGAGG
GGCAGCCTTCGGGGCGGGGAGCGTGAGCGCGCAAGGCCATCCCTGAGATCTACCTGACCCGCTGCTGTCCATG
AAGGGCACCCCTGCAGAAGTTCTGGATGACCTGTTCCAGGTGATTCTCAGCACCAGCCGCCCGTGGCGCTCGCT
GTGAAGTACTTCTTTGACCTGCTGGATGAGCAGGCCAGCAGCATGGCATCTCCGACCAGGACACCATCCACATC
TGGAAGACCAACAGCTTGCTCTGAGGTTCTGGATCAATATAATAAAAAACCCGAGTTTGTGTTGACGTGCAA
ACATCTGATAACATGGATGCGGTGCTCCTTGTCAATTGCACAGACCTTCATGGACGCCTGCACCCTGGCCGACCAC
AAGCTGGGCGGGGACTCCCCGATCAACAACTTCTGTATGCACGGGACATTCCCCGGTACAAGCGGATGGTGGAA
AGGTACTATGCAGACATCAGACAGACTGTCCCAGCCAGCGACCAAGAGATGAAGTCTGTCTGGCTGAAGTGTCC
TGGAAGTACTCCGGAGACCTCGGGGCGGAGTGGCCCTGCATGAAGTCTACAAGTACATCAACAAGTACTATGAC
CAGATCATCACTGCCCTGGAGGAGGATGGCACGGCCAGAAGATGCAGCTGGGCTATCGGCTCCAGCAGATTGCA
GCTGCTGTGGAACAAAGGTCACAGATCTATAGCAACCCAGGAGCCACGGCCTGCTGTTGCTTCAGCCTGGCCTG
GGCAGCCCTGGAAGCTCGGAGGAGAGGCCACCTTCTAGGTGCTGTAGTACTGACAAGCAGAGTTAGTGGAAAG
GTGACTCCCAGTCTCCTGGTGGCTCTGGCCTCGGCCCTGCTGGATCCACCTCCTAGACCCGGGGCCTCAAGGCTC
ATGGGGTAGTACCCAGCCTGCTCCCCGAGTCCAGCGACCTGT

4653/5332
FIGURE 4053

AGACGATTGGTCGGGGCCACGCCAGCCCAGGCCCAAGCCAGCCCGGAGAGAAAAGACCTGAGGAGGTGGCCCTGGG
GCTGCACCACCGCCTCCCAGCACTGGGAAGAGCCCTGGGGCACAGCATTTCAGCAACGAGCGACCTCCACAGCCAA
GACTTGGTGGGACAGATATGAAGAGTTTGTGGACTCAACGAGGTTTCGAGAGGCCAGGGAAAGGTGACAGAGGC
TGAGAAAGTGTTCATGGTGGCTCGAGGGCTTGTCCGAGAGGCTCGGGAGGACTTGGAAGTTCACCAGGCCAAGCT
GAAGGAGGTGAGGGACCGCTTGGACCGTGTCTCCAGGGAGGACAGTCAGTACTTGGAAGTGGCTACTCTCGAGCA
CAGGATGCTGCAGGAGGAGAAGAGGCTTCGCACAGCCTATCTGCGTGCAGAAGACTCTGAGCGAGAGAAGTTCTC
CCTCTTCTCTGCAGCTGTGCGGGAAAGTCATGAGAAGGAGCGCACAAAGGGCTGAGAGGACCAAGAAGTGGTCCCT
CATTGGCTCAGTCCTGGGGGCCCTGATTGGTGTGGCTGGCTCCACCTATGTGAACCGTGTGCGACTACAGGAGCT
GAAGGCTTTACTCCTGGAGGCGCAGAAGGGGCCTGTGAGTCTCCAAGAGGCCATTTCGAGAACAGGCGTCTAGCTA
CTCCCGCCAGCAGAGGGACCTCCACAATCTCATGGTGGACTTGAGGGGCCTGGTACATGCTGCTGGGCCAGGGCA
GGACTCTGGGTCACAGGCAGGTAGTCCCCCGACCAGAGACAGAGATGTAGATGTCCTTTCAGCTGCCTTGAAAGA
GCAGCTTAGTCATTCCAGGCAAGTCCATTTCATGTCTAGAAGGCTTACGAGAGCAGCTTGATGGCCTAGAAAAGAC
TTGTAGCCAAATGGCTGGGGTGGTTCAGCTTGTAAGTCTGCAGCACACCCAGGCCTGGTGGAACCAGCAGACGG
GGCTATGCCCAGCTTCTTGCTGGAGCAGGGGAGCATGATCTTGGCACTGTCAGACACGGAGCAGAGACTAGAAGC
CCAAGTCAACAGGAACACCATCTATAGCACCTGGTCACTGTGTGACATTTGTGGCCACACTGCCTGTGCTCTA
CATGCTATTCAAAGCCAGCTTAACCCCCTGGCCCCCTCCTCCAGAGGGTCTGAGGCAATAGCTGTGAATGTGGATTTA
AGTAGAGAATCGTAGCAATGAAGCGAGCCTTTGGGGGCATGTACAACCTCAATCTGAAGGAGCAGTATCTGTGTG
GCTCACCAGCAGGCATGCTTCGCTTTGTAGACAAGGTTTCAATTTACATTAATTATCAAACTTTGTGCTAATGTCC
AATTAATATATCCTGAGTTTTATTATTT

4654/5332

FIGURE 4054

TCCGGTGGCAGGGTCTGGGGAAGCGGCGGCAGGCGCCATGTTCCGGCCGCGAAGGTGGCAAGAAGAAGCCACTGAA
ACAGCCCAAGAAGCAGGCCAAGGAGATGGACGAGGAAGATAAGGCTTTCAAGCAGAAACAAAAAGAGGAGCAGAA
GAAACTCGAGGAGCTAAAAGCGAAGGCCGCGGGGAAGGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAA
AAAGTAAGCTGTTTCCTTGTGCCTGAGGAGATGGTGACCCITTTATTTTCATCTGTATTTAAACCTCTCTATTCCCTG
CCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTGTCTTGGAGCTGTTGTACATTTAAGAATAAACTTT
TGTA AAAA

4655/5332
FIGURE 4055

GCGCTGTGCGATACTTGGGGTGAGCGGAAAGCATGCGGGGACCTCCGCGCCAGGCAGCAAGAGGCGGAGCGAGC
CCCCGGCGCCTCGCCCCGGCCCGCCGGGCACCGGGCACCCCCCGAGCAAGCGGGCCCGGGGCTTCTCCGCAG
CCGCTGCCCCGGACCCTGACGACCCGTTCCGGCGCGCATGGGGACTTCACTGCCGACGACCTGGAGGAGCTTGACA
CCCTCGCGTTCACAGGCCCTGAGCCAATGTCCGGCCGCGGCTCGGGACGTGTCCAGTGATCATAAGGTCCACAGAT
TATTAGATGGCATGTCAAAAAATCCTTCAGGGAAAAACAGAGAACTGTTCCAATTAAAGATAATTTCGAATTAG
AGGTACTTCAGGCACAATACAAAGAACTTAAAGAAAAGATGAAAGTAATGGAAGAAGAAGTTCTCATTAAAGAAATG
GAGAAATTAATAATTTTTCGAGACTCACTACATCAGACGGAATCCGTTCTAGAGGAACAGAGAAGATCACATTTTC
TTCTTGAGCAAGAGAAAACCCAAGCACTCAGTGACAAGGAAAAGGAATTCTCCAAAAAGCTCCAATCATTGCAGT
CTGAACTCCAGTTTAAAGATGCAGAGATGAATGAATTAAGGACAAAGCTCCAGACCAGTGAACGAGCAAAATAAAC
TGGCTGCTCCCTCTGTTTCCCATGTCTAGTCCCTAGGAAAAACCTTCTGTGGTTATAAAGCCAGAAGCATGTTCTC
CACAATTTGGAAAAACATCTTTTCTACAAAGGAGTCTTTTAGTGCTAACATGTCCCTTCCCCACCCCTGCCAGA
CGGAGTCAGGATACAAGCCTCTGGTGGGCAGAGAGGATAGTAAGCCCCACAGTCTGAGAGGTGACTCCATAAAAC
AAGAAGAGGCCCAGAAAAGCTTTGTTGACAGCTGGAGACAGAGATCAAACACTCAAGGTTCCATTTTGATAAAC
TGCTCCTGAAGCAGCCTTTGATCCCAGGGTCATCCCTAAGCCTTTGCCACCTCCTGAGTAGTAGTTCTGAGTCTC
CTGCTGGCACCCCCCTGCAGCCACCAGGGTTTGGCAGTACCTTGGCTGGAATGTCAGGCCTCAGGACCACAGGTT
CTTATGATGGGTCAATTTTCCCTCTCAGCCCTGAGAGAAGCACAGAACCTGGCATTCACTGGACTGAATCTGGTTG
CCCGGAATGAGTGCTACGTGATGGAGACCCAGCAGAGGGAGGCAGAAGGGCCTTCCCACTCTGCCAGCTTCTG
GAGCCGTGCATTTCTCCCCCTGTACAGTTCTTCATCGGCTTACACTGCCAGGCCCTGCAGGACTTGGCAGCTG
CTAAGAGAAGCGGAGCACCTGGGGACTCACCGACACATTCTCTGCGTGAGCTCTGGGGTAGAGACCAACCCTG
AGGACTCAGTGTGCATCCTGGAAGGCTTCTCTGTGACTGCACTTAGCATTCTTCAGCACCTGGTGTGCCACAGCG
GAGCAGTCGTCTCCCTATTACTGTGAGGAGTGGGGGAGATTCTGTGCTGGGGAAGGAAACAGGAGCCTGGTTC
ACAGGCTTAGTGATGGAGATATGACCTCAGCCCTAAGGGGGGTTGCTGATGACCAAGGACAGCACCCACTGTTGA
AGATGCTTCTTCACCTGTTGGCTTCTCTTCTGCAGCAACAGGTCACCTTCAAGCCAGTGCTCTGACCCAGTGCC
TTAAGGTTTTGGTGAAATTAGCCGAAAACACTTCTGTGATTTCTTGCCAGGTTCCAGTGTTGTTCCAAGTGC
TGCCAAAGTGCCCTCAGCCCAGAGACACCCCTGCCTAGCGTGCTGCTGGCTGTTGAGCTCCTCTCCCTGCTGGCGG
ACCACGACCAGCTGGCACCTCAGCTCTGTTCCCACTCAGAAGGCTGCCTCCTGCTGCTGCTGTACATGTACATCA
CATCACGGCCTGACAGAGTGGCCTTGGAGACACAATGGCTCCAGCTGGAACAAGAGGTGGTGTGGCTCCTGGCTA
AGCTTGGTGTGCAGAGCCCCCTTGCCCCCAGTCACTGGCTCCAAGTGCAGTGAATGTGGAGGTGGTCAGAGCGC
TCACGGTGATGTTGCACAGACAGTGGCTGACAGTGCGGAGGGGAGGGGGACCCCCAAGGACCGACCAGCAGAGGC
GGACAGTGCGCTGTCTGCGGGACACGGTGCTGCTGCTGTCACGGCCTATCGCAGAAGGACAAGCTCTTCATGATGC
ACTGCGTGGAGGTCTGTCATCAGTTTGACAGGTTGATGCCGGGGGTCAGCATGCTCATCCGAGGGCTTCTGATG
TGACGGACTGTGAAGAGGCAGCCCTGGATGACCTCTGTGCCGCGGAAACCGATGTGGAAGACCCCGAGGTGGAGT
GTGGCTGAGGCCCTGAGTGTCAGCCACATGGTGGCACCAGCACCCTCTTCTTACCACATCAACTGATTAA
AGCAGTGACCAGCAGGAACTGCCCAGAGAACTGG

4656/5332
FIGURE 4056

TGAAAGGGCCGCAGCAGGGGCTCCCAGCAGTGTGTAAGACCGGGAGCTGGTCTGGCACCCTGCCCTGGTCCTTC
CAGCTGCCCTGTCACTGGTATGATGGCCCCGGTGCATTGTGCCACCAGCAGGCCACAGCTGTGGATCTTGGAAGGC
CTCTGGGGTCCCCCGGGAGCAGGGGAGTGGGTGTGGGGGGGAACGGATGGTGGTGAGAGGGACAGACCAGGCAGG
CCCTGCCCCCGGGGCCCCATGCAGACCCTCATCTTTTTCGACATGGAGGCCACTGGCTTGCCCTTCTCCAGCCCA
AGGTCACGGAGCTGTGCCTGCTGGCTGTCCACAGATGTGCCCTGGAGAGCCCCCCCACCTCTCAGGGGCCACCTC
CCACAGTTCCTCCACCACCGCGTGTGGTAGACAAGCTCTCCCTGTGTGTGGCTCCGGGGAAGGCCTGCAGCCCTG
CAGCCAGCGAGATCACAGGTCTGAGCACAGCTGTGCTGGCAGCGCATGGGCGTCAATGTTTTGATGACAACCTGG
CCAACCTGCTCCTAGCCTTCCTGCGGCGCCAGCCACAGCCCTGGTGCCTGGTGGCACACAATGGTGACCGCTACG
ACTTCCCCCTGCTCCAAGCAGAGCTGGCTATGCTGGGCCTCACCAGTGCTCTGGATGGTGCCTTCTGTGTGGATA
GCATCACTGCGCTGAAGGCCCTGGAGCGAGCAAGCAGCCCCTCAGAACACGGCCCAAGGAAGAGCTACAGCCTAG
GCAGCATCTACACTCGCCTGTATGGGCAGTCCCCTCCAGACTCGCACACGGCTGAGGGTGATGTCCTGGCCCTGC
TCAGCATCTGTCACTGGAGACCACAGGCCCTGCTGCGGTGGGTGGATGCTCACGCCAGGCCTTTCGGCACCATCA
GGCCCATGTATGGGGTCACAGCCTCTGCTAGGACCAAGCCAAGACCATCTGCTGTCAACAACCACTGCACACCTGG
CCACAACCAGGAACACTAGTCCCAGCCTTGGAGAGAGCAGGGGTACCAAGGATCTTCCTCCAGTGAAGGACCCTG
GAGCCCTATCCAGGGAGGGGCTGCTGGCCCCACTGGGTCTGCTGGCCATCCTGACCTTGGCAGTAGCCACACTGT
ATGGACTATCCCTGGCCACACCTGGGGAGTAGGCCAAGAAGGAAAATCTGACGAATAAAGACCCCCGCTGCCCCA
T

4657/5332
FIGURE 4057

CAGCGTGCCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGAGGTTTCGCCCTGGCTACAACGACCC
CATGTCAGGGTTTCGGAGCGACCTTGGCCGTTGGCCTGACCATCTTTGTGCTGTCTGTCGTCACATCATCTG
CTTCACCTGCTCCTGCTGCTGCCTTTACAAGACGTGCCGCCGACCACGTCCCTCCAAGTGTGCCGCCAGCTACC
CTGGACCAAGCTACCAGGGCTACCACACCATGCCGCCTCAGCCAGGGATGCCAGCAGCACCCCTACCCAATGCAGT
ACCCACCACCTTACCCAGCCCAGCCCATGGGCCCCACCGGCCTACCACGAGACCCTGGCTGGAGGAGCAGCCGCGC
CCTACCCCGCCAGCCAGCCTCCTTACAACCCGGCCTACATGGATGCCCCGAAGGCGGCCCTCTGAGCATTCCCTG
GCCTCTCTGGCTGCCACTTGGTTATGTTGTGTGTGTGCGTGAGTGGTGTGCAGGCGCGGTTCTTACGCCCCATG
TGTGCTGTGTGTGTCCAGGCACGGTTCCTTACGCCCCATGTGTGCTGTGTGTGTCTGCTGTATATGTGGCTTC
CTCTGATGCTGACAAGGTGGGGAACAATCCTTGCCAGAGTGGGCTGGGACCAGACTTTGTTCTCTTCCTCACCTG
AAATTATGCTTCCTAAAATCTCAAGCCAAACTCAAAGAATGGGGTGGTGGGGGGCACCCTGTGAGGTGGCCCTG
AGAGGTGGGGGCTCTCCAGGGCACATCTGGAGTTCTTCTCCAGCTTACCCTAGGGTGACCAAGTAGGGCCTGTC
ACACCAGGGTGGCGCAGCTTTCTGTGTGATGCAGATGTGTCTGGTTTCGGCAGCGTAGCCAGCTGCTGCTTGAG
GCCATGGCTCGTCCCCGGAGTTGGGGGTACCCGTTGCAGAGCCAGGGACATGATGCAGGCGAAGCTTGGGATCTG
GCCAAGTTGGACTTTGATCCTTTGGGCAGATGTCCCATTGCTCCCTGGAGCCTGTCATGCCTGTTGGGGATCAGG
CAGCCTCCTGATGCCAGAACACCTCAGGCAGAGCCCTACTCAGCTGTACCTGTCTGCCTGGACTGTCCCCTGTCC
CCGCATCTCCCCTGGGACCAGCTGGAGGGCCACATGCACACACAGCCTAGCTGCCCCAGGGAGCTCTGCTGCCC
TTGCTGGCCCTGCCCTTCCCACAGGTGAGCAGGGCTCCTGTCCACCAGCACACTCAGTTCTCTCCCTGCAGTGT
TTTCATTTTATTTTAGCCAAACATTTTGCCTGTTTCTGTTTCAAACATGATAGTTGATATGAGACTGAAACCCC
TGGGTTGTGGAGGGAAATTGGCTCAGAGATGGACAACCTGGCAACTGTGAGTCCCTGCTTCCCGACACCAGCCTC
ATGGAATATGCAACAACCTCCTGTACCCAGTCCACGGTGTTCTGGCAGCAGGGACACCTGGGCCAATGGGCCATC
TGGACCAAGGTGGGGTGTGGGGCCCTGGATGGCAGCTCTGGCCAGACATGAATACCTCGTGTTCCTCCTCCCT
CTATTACTGTTTACCAGAGCTGTCTTAGCTCAAATCTGTTGTGTTTCTGAGTCTAGGGTCTGTACACTTGTTTA
TAATAAATGCAATCGTTTGG

4658/5332
FIGURE 4058

CTCTAGCTCGAGCAGCAGGAGCAGCCCGCACCGGACAACCTTGCGAGCCATGGGGCTGGCGGATGCGTCGGGACCG
AGGGACACACAGGCACTGCTGTCTGCAACACAAGCAATGGACCTGCGGAGGCGAGACTACCACATGGAACGGCCG
CTGCTGAACCAGGAGCATTGAGGAGCTGGGGCGCTGGGGCTCAGCACCTAGGACCCACCAGTGGCGGACCTGG
TTGCAGTGCTCCCGTGCTCGGGCCTATGCCCTTCTGCTCCAACACCTCCCGGTTTGGTCTGGTTACCCCGGTAT
CCTGTGCGTGACTGGCTCCTGGGTGACCTGTTATCCGGCCTGAGTGTGGCCATCATGCAGCTTCCGCAGGGCTTG
GCCTACGCCCTCCTGGCTGGATTGCCCCCGTGTTTGGCCTCTATAGCTCCTTCTACCTGTCTTCATCTACTTC
CTGTTTGGCACTTCCCGGCACATCTCCGTGGGGACCTTTGCTGTCATGCTGTGTATGGTGGGCAGTGTGACAGAA
TCCCTGGCCCCGAGGCTTGAACGACTCCATGATCAATGAGACAGCCAGAGATGCTGCCCGGGTACAGGTGGCC
TCCACACTCAGTGTCTGGTTGGCCTCTTCCAGGTGGGGCTGGGCCTGATCCACTTCGGCTTCGTGGTCACCTAC
CTGTGAGAACCTCTTGTCCGAGGCTATACCACAGCTGCAGCTGTGCAGGTCTTCGTCTCACAGCTCAAGTATGTG
TTTGGCCTCCATCTGAGCAGCCACTCTGGGCCACTGTCCCTCATCTATACAGTGTCTGGAGGTCTGCTGGAAGCTG
CCCCAGAGCAAGGTTGGCACCCTGGTCACTGAGCTGTGGCTGGGGTGGTGTCTCGTGGTGGTGAAGCTGTTGAAT
GACAAGCTGCAGCAGCTGCCATGCCGATCCCGGGGAGCTGCTCACGCTCATCGGGGCCACAGGCATCTCC
TATGGCATGGGTCTAAAGCACAGATTTGAGGTAGATGTCTGGGCAACATCCCTGCAGGGCTGGTGGCCCCAGTG
GCCCCAACACCCAGCTGTTCTCAAAGCTCGTGGGCAGCGCCTTACCATCGCTGTGGTTGGGTTTGCCATTGCC
ATCTCACTGGGGAAGATCTTCGCCCTGAGGCACGGCTACCGGGTGGACAGCAACCAGGAGCTGGTGGCCCTGGGC
CTCAGTAACCTTATCGGAGGCATCTTCCAGTGCTTCCCGTGAGTTGCTCTATGTCTCGGAGCCTGGTACAGGAG
AGCACCGGGGGCAACTCGCAGGTTGCTGGAGCCATCTCTTCCCTTTTCATCCTCCTCATCATTGTCAAACCTTGGG
GAACTCTTCCATGACCTGCCCAAGGCGGTCTTGGCAGCCATCATCATTGTGAACCTGAAGGGCATGCTGAGGCAG
CTCAGCGACATGCGCTCCCTCTGGAAGGCCAATCGGGCGGATCTGCTTATCTGGCTGGTGACCTTCACGGCCACC
ATCTTGCTGAACCTGGACCTTGGCTTGGTGGTTGCGGTCTCTTCCCTGCTGCTCGTGGTGGTCCGGACACAG
ATGCCCCACTACTCTGTCTGGGCGAGGTGCCAGACACGGATATTTACAGAGATGTGGCAGAGTACTCAGAGGCC
AAGGAAGTCCGGGGGGTGAAGGTCTTCCGCTCCTCGGCCACCGTGTACTTTGCCAATGCTGAGTTCTACAGTGAT
GCGCTGAAGCAGAGGTGTGGTGTGGATGTGCACTTCTCATCTCCCAGAAGAAGAACTGCTCAAGAAGCAGGAG
CAGCTGAAGCTGAAGCAACTGCAGAAAGAGGAGAAGCTTCGGAACAGGCTGCCTCCCCAAGGGCGCCTCAGTT
TCCATTAATGTCAACACCAGCCTTGAAGACATGAGGAGCAACAACGTTGAGGACTGCAAGATGATGCAGGTGAGC
TCAGGAGATAAGATGGAAGATGCAACAGCCAATGGTCAAGAAGACTCCAAGGCCCCAGATGGGTCCACACTGAAG
GCCCTGGGCCTGCCTCAGCCAGACTTCCACAGCCTCATCTGGACCTGGGTGCCCTCTCCTTTGTGGACACTGTG
TGCTCAAGAGCCTGAAGAATATTTCCATGACTTCCGGGAGATTGAGGTGGAGGTGTACATGGCGGCCTGCCAC
AGCCCTGTGGTCAGCCAGCTTGAGGCTGGGCACTTCTTCGATGCATCCATCACCAGAAGCATCTCTTTGCCTCT
GTCCATGATGCTGTACCTTTGCCCTCCAACACCCGAGGCCTGTCCCCGACAGCCCTGTTTCGGTCAACCAGACTC
TGAACATGCTACATCCTGCCCAAGACTGCACCTCTGGAGGTGCAGGGCACCTTGAGAAGCCCTCACCCCTAGG
CCGCTCCAGGTGCTACCCAGGAGTCCCTCCATGTACACACACAACTCAGGGAAGGAGGTCTGGGACTCCA
AGTTCAGCGCTCCAGGTCTGGGACAGGGCCTGCATGCAGTCAGGCTGGCAGTGGCGCGGTACAGGGAGGGAAGT
GTGCATATTTAGCCTCAGGAATAAAGATTTGTCTGCTC

4659/5332
FIGURE 4059

TACTGACTTTTCAGCACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTCAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAAATAGACTGTC
CCGGTTCCCGCCAGGAGGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCAG
TCTACGCTTGC CGCGCAACAGGGCCGACTGCAGCTGGAAGATGGCGGCGTCCGTGGTCTGTGCGGGCCGTACC
GCCGGGGCACAAGTGCTATTGCGCGCCCGCGCTGCGCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA
ACCTTCGCTCAGGCGCTCCAGTTCGTGCCGAGACGCGAGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC
GAGCAGTCCCTCTCAGCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCCTGGAGAAG
GAGGTGGAGAGCATGGGGGGCCCATCTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCAGAACTGTAGTCTGGAAGACTCACAGATT
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC
CTGCATGCCACAGCATTCCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG
TCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGCTGGCAGCAGCTGGAGGA
GTGGAGCACCAGCAACTGTTAGACCTCGCCGAGAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT
GTGCCCCTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGCCAC
GTGGCCATTGCAGTAGAGGGTCTGGCTGGGCCAGCCCGGACAATGTGGCCTTGCAAGTGGCCAATGCCATCATC
GGCCACTATGACTGCACTTATGGTGGTGGCGTGACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAG
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC
CGAATGAAAATCGATGACATGATGTTCTGCTCCTGCAAGGGCAGTGATGCGCCTGTGTACCAGTGCCACGGAGAGT
GAGGTGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGCATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTG
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGGCCAGCAGTGGCTGGATATGGCCCC
ATTGAGCAGCTCCAGACTACAACCGGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGCGGGGAAGCCTATGT
AAGCAAGAGGGCAGGGCCGGGGTTTGTGGTCCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

4660/5332
FIGURE 4060A

GGGCTGGAGGGGCGCTGGGCTCGGACCTGCCAAGGCCACGGGGGAGCAAGGGACAGAGGCGGGGTCCTAGCTGA
CGGCTTTTACTGCGCTAGGATGACGCTGCGGCTTCTGGTGCCGCGCTCTGCGCCGGGATCCTGGCAGAGGCGCCC
CGAGTGCGAGCCCAGCACAGGGAGAGAGTGACCTGCACGCGCTTTACGCCGCTGACATTGTGTTCTTACTGGAT
GGCTCCTCATCCATTGGCCGAGCAATTTCCGCGAGGTCCGAGCTTTCTCGAAGGGCTGGTGTGCTGCTTTCTCT
GGAGCAGCCAGTGCACAGGGTGTGCGCTTTGCCACAGTGCAGTACAGCGATGACCCACGGACAGAGTTCGGCCTG
GATGCACTTGGCTCTGGGGGTGATGTGATCCGCGCCATCCGTGAGCTTAGCTACAAGGGGGGCAACACTCGCACA
GGGGCTGCAATTCTCCATGTGGCTGACCATGTCTTCTGCCAGCTGGCCCCGACCTGGTGTCCCCAAGGTCTGC
ATCCTGATCACAGACGGGAAGTCCCAGGACCTGGTGGACACAGCTGCCCAAAGGCTGAAGGGGCAGGGGTCAAG
CTATTTGCTGTGGGGATCAAGAATGCTGACCTTGAGGAGCTGAAGCGAGTTGCCTCACAGCCCACCACTGACTTC
TTCTTCTTCGTCAATGACTTCAGCATCTTGAGGACACTACTGCCCTCGTTTCCCGGAGAGTGTGCACGACTGCT
GGTGGGATGCCCTGTGACCCGACCTCCGGATGACTCGACCTTGCTCCACGAGACCTGGTGTGCTGTGAGCCAAGC
AGCCAATCCTTGAGAGTACAGTGGACAGCGGCCAGTGGCCCTGTGACTGGCTACAAGGTCCAGTACACTCCTCTG
ACGGGGCTGGGAGCACTGCCCAGTGAGCGGCAGGAGGTGAACGTCCCAGCTGGTGAGACCAGTGTGCGGCTG
CGGGGTCTCCGGCCACTGACCAGTAGTACCAAGTGACTGTGATTGCCCTCTACGCCAACAGCATCGGGGAGGCTGTG
AGCGGGACAGCTCGGACCACTGCCCTAGAAGGGCCGGAAGTACCATCCAGAATACCACAGCCCACAGCCTCCTG
GTGGCCTGGCGGAGTGTGCCAGGTGCCACTGGCTACCGTGTGACATGGCGGGTCTCAGTGGTGGGCCACACAG
CAGCAGGAGCTGGGCCCTGGGCAGGGTTAGTGTGTGCTGCGTGACTTGGAGCCTGGCACGGACTATGAGGTGACC
GTGAGCACCTATTGGCCGAGTGTGGGGCCCGCCACTTCCCTGATGGCTCGCACTGACGCTTCTGTTGAGCAG
ACCCTGCGCCCGGTCTCCTGGGCCCCACATCCATCCTCCTTTCTGGAAGTGGTGCCTGAGGCCGTGGCTAC
CGGTTGGAATGGCGGCGTGAGACTGGCTTGGAGCCACCGCAGAAGGTGGTACTGCCCTCTGATGTGACCCGCTAC
CAGTTGGATGGGCTGCAGCCGGGCACTGAGTACCGCCTCACACTCTACACTCTGCTGGAGGGCCACGAGGTGGCC
ACCCCTGCAACCGTGGTTCCCACTGGACCAGAGCTGCCTGTGAGCCCTGTAACAGACCTGCAAGCCACCGAGCTG
CCCGGGCAGCGGGTGCAGTGTCTGGAGCCAGTCCCTGGTGCCACCCAGTACCGCATCATTGTGCGCAGCACC
CAGGGGGTTGAGCGGACCCTGGTGTCTTCTGGGAGTCAGACAGCATTGACTTGGATGACGTTGAGGTGGGCTT
AGCTACACTGTGCGGGTGTCTGCTCGAGTGGGTCCCCGTGAGGGCAGTGCCAGTGTCTCACTGTCCGCCGGGAG
CCGGAACCTCCACTTGTGTTCAGGGCTGCGGGTTGTGGTGTGAGTGCAACGCGAGTGAGGGTGGCCTGGGGA
CCCGTCCCTGGAGCCAGTGGATTTCCGATTAGCTGGAGCACAGGCAGTGGTCCGGAGTCCAGCCAGACACTGCCC
CCAGACTCTACTGCCACAGACATCACAGGGCTGCAGCCTGGAACCACTACCAGGTGGCTGTGTGCGTACTGCGA
GGCAGAGAGGAGGGCCCTGTGAGTGTGCTGAGGCTCGAACGGACCCACTGGGCCCAGTGAGGACGGTCCATGTG
ACTCAGGCCAGCAGCTCATCTGTACCATTACCTGGACCAGGGTTCTTGGCGCCACAGGATACAGGGTTTCTTGG
CACTCAGCCCACGGCCCAGAGAAATCCCAGTTGGTTTCTGGGGAGGCCACGGTGGCTGAGCTGGATGGACTGGAG
CCAGATACTGAGTATACGGTGCATGTGAGGGCCCATGTGGCTGGCGTGGATGGGCCCCCTGCCTCTGTGGTTGTG
AGGACTGCCCCCTGAGCCTGTGGGTGCTGTGTCAGGGCTGCAGATCCTCAATGCTTCCAGCGACGTTCTACGGATC
ACCTGGGTAGGGGTCACTGGAGCCACAGCTTACAGACTGGCCTGGGGCCGGAGTGAAGGCGGGCCCCATGAGGCAC
CAGATACTCCCAGGAACACAGACTCTGCAGAGATCCGGGGTCTCGAAGGTGGAGTCACTACTCAGTGCAGTG
ACTGCACTTGTGCGGGACCGCGAGGGGCACACCTGTCTCCATTGTTGTCACTACGCCGCTGAGGCTCCGCCAGCC
CTGGGGACGCTTACGTTGGTGCAGCGCGGGGAGCACTCGCTGAGGCTGCGCTGGGAGCCGGTGGCCAGAGCGCAG
GGCTTCCTTCTGCACTGGCAACCTGAGGGTGGCCAGGAACAGTCCCGGGTCTGGGGCCCGAGCTCAGCAGCTAT
CACCTGGACGGGCTGGAGCCAGCGACACAGTACCGCGTGAGGCTGAGTGTCTTAGGGCCGGCTGGAGAAGGGCCC
TCTGCAGAGGTGACTGCGCGCACTGAGTCACCTCGTGTTCAGCAATGAACTACGTGTGGTGGACACCTCGATC
GACTCGGTGACTTTGGCCTGGACTCCAGTGTCCAGGGCATCCAGCTACATCCTATCCTGGCGGCCACTCAGAGGC
CCTGGCCAGGAAGTGCTGGGTCCCCCGAGACACTTCCAGGGATCTCAAGCTCCCAGCGGGTGACAGGGCTAGAG
CCTGGCGTCTCTTACATCTTCTCCCTGACGCTGTCTGGATGGTGTGCGGGGTCTGAGGCATCTGTACACAG
ACGCCAGTGTGCCCCGTGGCCTGGCGGATGTGGTGTTCCTACCACATGCCACTCAAGACAATGCTCACCCTGCG
GAGGCTACGAGGAGGGTCTGGAGCGTCTGGTGTGGCACTTGGGCTCTTGGGCCACAGGCAGTTGAGGTTGGC
CTGCTGTCTTACAGTCATCGGCCCTCCCCACTGTTCCCACTGAATGGCTCCCATGACCTTGGCATTATCTTGCAA
AGGATCCGTGACATGCCCTACATGGACCAAGTGGGAACAACCTGGGCACAGCCGTGGTCACAGCTCACAGATAC
ATGTTGGCACCAAGATGCTCTGGGCGCCGCCAGCACGTACCAGGGGTGATGGTTCTGCTAGTGGATGAACCTTG

4661/5332
FIGURE 4060B

AGAGGTGACATATTCAGCCCCATCCGTGAGGCCAGGCTTCTGGGCTTAATGTGGTGATGTTGGGAATGGCTGGA
GCGGACCCAGAGCAGCTGCGTTCGCTTGGCGCCGGGTATGGAATCTGTCCAGACCTTCTTCGCCGTGGATGATGGG
CCAAGCCTGGACCAGGCAGTCAGTGGTCTGGCCACAGCCCTGTGTGAGGCATCCTTCACTACTCAGCCCCGGCCA
GAGCCCTGCCAGTGTATTGTCCAAAGGGCCAGAAGGGGGAACCTGGAGAGATGGGCCTGAGAGGACAAGTTGGG
CTCCTGGCGACCCCTGGCCTCCCGGGCAGGACCGGTGCTCCCGCCCCCAGGGGCCCCCTGGAAGTGCCACTGCC
AAGGGCGAGAGGGGCTTCCCTGGAGCAGATGGGCGTCCAGGCAGCCCTGGCCGCGCCGGGAATCCTGGGACCCCT
GGAGCCCTGGCCTAAAGGGCTCTCCAGGGTTCCTGGCCCTCGTGGGGACCCGGGAGAGCGAGGACCTCGAGGC
CCAAAGGGGGAGCCGGGGGCTCCCGGACAAGTCATCGGAGTGAAGGACCTGGGCTTCTGGGCGGAAAGGGGAC
CCTGGACCATCGGGCCCCCTGGACCTCGTGGACCTGCGGGGACCCAGGACCCCGTGGCCCCCAGGGCTTCTCT
GGAACAGCCATGAAGGTGACAAAGGCGATCGTGGGGAGCGGGTCCCCCTGGACCAGGTGAAGGTGGCATTGCTC
CTGGGGAGCCTGGGCTGCCGGGTCTTCCCGGAAGCCCTGGACCCCAAGGCCCGTTGGCCCCCTGGAAAGAAAG
GAGAAAAAGGTGACTCTGAGATGGAGCTCCAGGCCTCCAGGACAACCTGGGTCTCCGGGTGAGCAGGGCCAC
GGGACCCCTCGGCTAATTGCCCCAAAGGTGACCGGGGCTTCCAGGGCCCTGGGTGAGGCTGGAGAGAAGG
GCGAACGTGGACCCCAAGGCCAGCGGGATCCCGGGGGCTGCCAGGGGTGCTGGACGTCTGGAGCCAAGGGTC
CTGAAGGGCCACCAGGACCCACTGGCCGCCAAGGAGAGAAGGGGGAGCCTGGTCCGCTGGGGACCCCTGCAGTGG
TGGGACCTGCTGTTGCTGGACCCAAAGGAGAAAAGGGAGATGTGGGGCCCGCTGGGCCAGAGGAGCTACCGGAG
TCCAAGGGGAACGGGGCCACCCGGCTTGGTTCTTCTGGAGACCCCTGGCCCCAAGGGAGACCCCTGGAGACCGGG
GTCCCATTTGGCCTTACTGGCAGAGCAGGACCCCAAGGTGACTCAGGGCCTCCTGGAGAGAAGGGAGACCCCTGGGC
GGCCTGGCCCCCAGGACCTGTTGGCCCCCAGGACGAGATGGTGAAGTTGGAGAGAAAGGTGACGAGGGTCTC
CGGGTGACCCGGGTTTGGCTGGAAAAGCAGGCGAGCGTGGCCTTCGGGGGGCACCTGGAGTTCCGGGGCCTGTGG
GTGAAAAGGGAGACCAGGGAGATCCTGGAGAGGATGGACGAAATGGCAGCCCTGGATCATCTGGACCCAAGGGTG
ACCGTGGGGAGCCGGTCCCCCAGGACCCCGGGACGGCTGGTAGACACAGGACCTGGAGCCAGAGAGAAGGGAG
AGCCTGGGGACCGCGACAAGAGGGTCTCGAGGGCCCAAGGGTGATCCTGGCCTCCCTGGAGCCCTGGGGAAA
GGGGCATTGAAGGGTTTCGGGGACCCCAAGGCCACAGGGGGACCCAGGTGTCGAGGGCCAGCAGGAGAAAAGG
GTGACCGGGGTCCCCCTGGGCTGGATGGCCGGAGCGGACTGGATGGGAAACCAGGAGCCGCTGGGCCCTCTGGGC
CGAATGGTGCTGCAGGCAAGCTGGGGACCCAGGGAGAGACGGGCTTCCAGGCCTCCGTGGAGAACAGGGGCCCTC
CTGGCCCCCTCTGGTCCCCCTGGATTACCGGGAAAGCCAGGCGAGGATGGCAAACCTGGCCTGAATGGAAAAACG
GAGAACCTGGGGACCCCTGGAGAAGACGGGAGGAAGGGAGAGAAAGGAGATTAGGCGCCTCTGGGAGAGAAGGTG
GTGATGGCCCCAAGGGTGAGCGTGGAGCTCCTGGTATCCTTGGACCCCAAGGGGCCCTCCAGGCCTCCAGGGCCAG
TGGGCCCTCCTGGCCAGGGTTTTCTGGTGTCCCAGGAGGCACGGGGCCCAAGGGTGACCGTGGGGAGACTGGAT
CCAAAGGGGAGCAGGGCCTCCCTGGAGAGCGTGGCCTGCGAGGAGAGCCTGGAAGTGTGCCGAATGTGGATCGGT
TGCTGGAACTGCTGGCATCAAGGCATCTGCCCTGCGGGAGATCGTGGAGACCTGGGATGAGAGCTCTGGTAGCT
TCTGCTGTGCCGAACGGCGTCGAGGCCCAAGGGGGACTCAGGCGAACAGGGCCCCCAGGCAAGGAGGGCC
CCATCGGCTTTCTGGAGAACGCGGGCTGAAGGGCGACCGTGGAGACCCCTGGCCCTCAGGGGCCACCTGGTCTGG
CCCTTGGGGAGAGGGGCCCCCGGGCCTTCCGGCCTTGGCGGGAGCCTGGAAAGCCTGGTATTCCCGGGCTCC
CAGGCAGGGCTGGGGGTGTGGGAGAGGCAGGAAGGCCAGGAGAGAGGGGAGAACGGGGAGAGAAAGGAGAACGTG
GAGAACAGGGCAGAGATGGCCCTCCTGGACTCCCTGGAACCCCTGGGCCCCCGGACCCCTGGCCCCAAGGTGT
CTGTGGATGAGCCAGGTCTGGACTCTCTGGAGAACAGGGACCCCTGGACTCAAGGGTGCTAAGGGGGAGCCGG
GCAGCAATGGTGACCAAGGTCCCAAAGGAGACAGGGGTGTGCCAGGCATCAAAGGAGACCGGGGAGAGCCTGGAC
CGAGGGGTGACGACCGCAACCCGGGTCTACCAGGAGAGCGTGGTATGGCTGGGCCTGAAGGGAAGCCGGGTCTGC
AGGGTCCAAGAGGGCCCCCTGGCCAGTGGGTGGTTCATGGAGACCCCTGGACCACCTGGTGCCCCGGGTCTTGCTG
GCCCTGCAGGACCCCAAGGACCTTCTGGCCTGAAGGGGGAGCCTGGAGAGACAGGACCTCCAGGACGGGGCCTGA
CTGGACCTACTGGAGCTGTGGGACTTCTGGACCCCGGCCCTTCAGGCCTTGTGGGTCCACAGGGGTCTCCAG
GTTTGCCTGGACAAGTGGGGGAGACAGGGAAGCCGGGAGCCCCAGGTGAGATGGTGCCAGTGGAAAAGATGGAG
ACAGAGGGAGCCCTGGTGTGCCAGGGTCACCAGGTCTGCTGGCCCTGTGCGACCTAAAGGAGAACCTGGCCCCA
CGGGGGCCCCCTGGACAGGCTGTGGTCCGGCTCCCTGGAGCAAAGGGAGAGAAGGGAGCCCTGGAGGCCCTGTCTG
GAGACCTGGTGGGTGAGCCGGGAGCCAAAGGTGACCGAGGACTGCCAGGGCCGCGAGGCGAGAAGGGTGAAGCTG
GCCGTGCAGGGGAGCCCGGAGACCTGGGGAAAGTGGTCAGAAAGGGGCTCCAGGACCCAAAGGTTTCAAGGGTG

4662/5332
FIGURE 4060C

ACCCAGGAGTCGGGGTCCCGGGCTCCCTGGGCCTCCTGGCCCTCCAGGTGTGAAGGGAGATCTGGGCCTCCCTG
GCCTGCCCCGGTGCTCCTGGTGTGTGTTGGGTTCCCGGGTCAGACAGGCCCTCGAGGAGAGATGGGTGAGCCAGGCC
CTAGTGGAGAGCGGGTCTGGCAGGCCCCCAGGGAGAGAAGGAATCCCAGGACCCCTGGGGCCACCTGGACCAC
CGGGGTCACTGGGACCACCTGGGGCCTCTGGACTCAAAGGAGACAAGGGAGACCCTGGAGTAGGGCTGCCTGGGC
CCCGAGGCGAGCGTGGGGAGCCAGGCATCCGGGGTGAAGATGGCCGCCCGGCCAGGAGGGACCCCGAGGACTCA
CGGGGCCCCCTGGCAGCAGGGGAGAGCGTGGGGAGAAAGGTGATGTTGGGAGTGCAGGACTAAAGGGTGACAAGG
GAGACTCAGCTGTGATCCTGGGGCCTCCAGGCCCCAGGGGTGCCAAGGGGGACATGGGTGAACGAGGGCCTCGGG
GCTTGGATGGTGACAAAGGACCTCGGGGAGACAATGGGGACCCTGGTGACAAGGGCAGCAAGGGAGAGCCTGGTG
ACAAGGGCTCAGCCGGGTTGCCAGGACTGCGTGGACTCCTGGGACCCAGGGTCAACCTGGTGACGAGGGATCC
CTGGTGACCCGGGATCCCCAGGAAAGGATGGAGTGCCTGGTATCCGAGGAGAAAAAGGAGATGTTGGCTTCATGG
GTCCCCGGGGCCTCAAGGGTGAACGGGGAGTGAAGGGAGCCTGTGGCCTTGATGGAGAGAAGGGAGACAAGGGAG
AAGCTGGTCCCCCAGGCCGCCCGGGCTGGCAGGACACAAAGGAGAGATGGGGGAGCCTGGTGTGCCGGGCCAGT
CGGGGGCCCCCTGGCAAGGAGGGCCTGATCGGTCCCAAGGGTGACCGAGGCTTTGACGGGCAGCCAGGCCCCAAGG
GTGACCAGGGCGAGAAAGGGGAGCGGGGAACCCAGGAATTGGGGGCTTCCCAGGCCCCAGTGGAAATGATGGCT
CTGCTGGTCCCCCAGGGCCACCTGGCAGTGTGTTGGTCCCAGAGGCCCCGAAGGACTTCAGGGCCAGAAGGGTGAGC
GAGGTCCCCCGGAGAGAGAGTGGTGGGGGCTCCTGGGGTCCCTGGAGCTCCTGGCGAGAGAGGGGAGCAGGGGC
GGCCAGGGCCTGCCGGTCTCGAGGCGAGAAGGGAGAAGCTGCACTGACGGAGGATGACATCCGGGGCTTTGTGC
GCCAAGAGATGAGTCAGCACTGTGCCTGCCAGGGCCAGTTCATCGCATCTGGATCACGACCCCTCCCTAGTTATG
CTGCAGACACTGCCGGCTCCCAGCTCCATGCTGTGCCTGTGCTCCGCGTCTCTCATGCAGAGGAGGAAGAGCGGG
TACCCCTGAGGATGATGAGTACTCTGAATACTCCGAGTATTCTGTGGAGGAGTACCAGGACCCCTGAAGCTCCTT
GGGATAGTGATGACCCCTGTTCCCTGCCACTGGATGAGGGCTCCTGCACTGCCTACACCCTGCGCTGGTACCATC
GGGCTGTGACAGGCAGCACAGAGGCCTGTCACCCTTTTGTCTATGGTGGCTGTGGAGGGAATGCCAACCGTTTTG
GGACCCGTGAGGCCTGCGAGCGCCGCTGCCACCCCGGGTGGTCCAGAGCCAGGGGACAGGTACTGCCCAGGACT
GAGGCCCAGATAATGAGCTGAGATTGAGCATCCCTGGAGGAGTCGGGGTCTCAGCAGAACCCCACTGTCCCTCC
CCTTGGTGCTAGAGGCTTGTGTGCACGTGAGCGTGCCTGTGCACGTCCGTTATTTAGTGACTTGGTCCCGTGGG
TCTAGCCTTCCCCCTGTGGACAAACCCCAATTGTGGCTCCTGCCACCCTGGCAGATGACTCACTGTGGGGGGGT
GGCTGTGGGCAGTGAGCGGATGTGACTGGCGTCTGACCCGCCCTTGACCCAAGCCTGTGATGACATGGTGCTGA
TTCTGGGGGGCATTAAAGCTGCTGTTTTTAAAAGGC

4663/5332
FIGURE 4061

CAGCAGAGCATCCTGGCCAGAACAAGCCAAGGAGCCAAGACGAGAGGGACACACGGACAAACAACAGACAGAAGA
CGTACTGGCCGCTGGACTCCGCTGCCTCCCCATCTCCCGCCATCTGCGCCCGGAGGATGAGCCAGCCTTCAG
GGCCATGGATGTGGAGCCCCGCGCCAAAGGCGTCCTTCTGGAGCCCTTTGTCCACCAGGTCGGGGGGCACTCATG
CGTGCTCCGCTTCAATGAGACAACCCTGTGCAAGCCCCTGGTCCCAAGGGAACATCAGTTCTACGAGACCCTCCC
TGCTGAGATGCGCAAATTCATCCCCAGTACAAAGGTGTGGTATCTGTGCGCTTTGAAGAAGATGAAGACAGGAA
CTTGTGTCTAATAGCATATCCATTGAAAGGGGACCATGGAATTGTGGACATTGTAGATAATTCAGACTGTGAACC
AAAAAGTAAGCTCCTAAGGTGGACAACAAACAAAAAACATCATGTCTTAGAAACAGAAAAGACCCCTAAGGACTG
GGTGCGTCAGCACCGTAAAGAGGAGAAAATGAAGAGCCATAAGTTAGAAGAAGAATTTGAGTGGCTAAAGAAATC
TGAAGTCTTGTACTACACTGTAGAGAAGAAGGGGAATATAAGTTCCAGCTTAAACACTATAACCCTTGGAGCAT
GAAATGTCACCAGCAACAGTTACAGAGAATGAAGGAGAATGCAAAGCATCGGAACCAGTACAAATTTATCTTACT
GGAAAACCTGACTTCCCGCTACGAGGTGCCTTGTGTCTTGACCTCAAGATGGGCACACGACAACATGGTGATGA
TGCTTCAGAGGAGAAGGCAGCCAACCAGATCCGAAAATGTGAGCAGAGCACATCTGCAGTCATTGGTGTGCGTGT
GTGTGGCATGCAGGTGTACCAAGCAGGCAGTGGGCAGCTCATGTTTCATGAACAAGTACCATGGACGGAAGCTATC
GGTGCAGGGCTTCAAGGAGGCATTTTCCAGTTCTTCCACAATGGGCGGTACCTGCGCCGTGAACCTCTGGGCCC
TGTGCTCAAGAAGCTGACTGAGCTCAAGGCAGTGTTGGAGCGACAGGAGTCTACCGCTTCTACTCAAGCTCCCT
GCTGGTCATTTATGATGGCAAGGAGCGGCCCCGAAGTGGTCCTGGACTCAGATGCTGAGGATTTGGAGGACCTGTC
AGAGGAATCAGCTGATGAGTCTGCTGGTGCCTATGCCTACAAACCCATCGGCGCCAGCTCTGTAGATGTGCGCAT
GATCGACTTTGCACACACCACCTGCAGGCTGTATGGCGAGGACACCGTGGTGCATGAGGGCCAGGATGCTGGCTA
TATCTTCGGGCTCCAGAGCCTGATAGACATTGTACAGAGATAAGTGAGGAGAGTGGGGAGTGAGCTTGCTAGCT
GCTCCAGTACTTGAGAGCGACTCTGTGTCCCAGGCACAGCTGTGCTGCGTCAGGGAGGAAGCCAGTATGCGCAGG
TGGTGGCTCCTGCAGCCTGGAGCTGATGTGCAAGTGGCTCTGTGAGCCCCAGCCTGAGCCAGTCCCAGCTGTGCT
TGGAGTCTTTATTTATTTTAACTATTTCTTCAACATTCCACATTTGATGATGATACCTCTTTCTTCCCTGAGTGT
ATATGTTCTAATACAAATCTTTTTGTT

4664/5332
FIGURE 4062

GGACCGGGTGACTTTTAGAAGAATCATAGTGAAAAATAATGCAAAGAAGAGGAAGATGTTTGAATCATTTATTGA
GTCTGTGCCCCCTCCTTAAATCACTAGAGGTGTGAGAACGAATGAAGATTGTGGATGTAATAGGAGAGAAGATCTA
TAAGGATGGAGAACGCATAATCACTCAGGGTGAAAAGGCTGATAGCTTTTACATCATAGAGTCTGGCGAAGTGAG
CATCTTGATTAGAAGCAGGACTAAATCAAACAAGGATGGTGGGAACAGGAGGTCGAGATTGCCCCGTGCCATAA
GGGGCAGTACTTTGGAGAGCTTGCCCTGGTCACCAACAAACCCAGAGCTGCCTCAGCTTATGCAGTTGGAGATGT
CAAATGCTTAGTTATGGATGTACAAGCATTGAGAGGCTTCTGGGGCCCTGCATGGACATCATGAAGAGGAACAT
CTCACACTATGAGGAACAGCTGGTGAAGATGTTTGGCTCCAGCGTGGATCTGGGCAACCTCGGGCAGTAGGTGTG
CCACACCCCAAGAGCCTTCTTAGTGTGACACCAAAACCTTCTGGTCAGCCACAGAACACATACAGAAAACAGACAT
GACAGAACTGTTTCTGCGTTGCCGCCACTGCTGCCATTGCTGTGGTTATGGGCATTTAGAAAACCTTGAAAGTCA
GACTAAAGGATGGGCAGAGGTTCAACCCACACCTCCACTTGGCTTCTGAAGGCCATTTCATTAGACCACTTGTA
AAGATTACTCCAACCCAGTTTTTATATCTTTGGTTCAAAACGGCATGTCTCTCCAACAATTTAAGTGCCTGATAC
AAAGTCCAAAGTATAAACATGCTCCTTCTCTTGTGCTACTCTTGGTTTTACAGTGGGAAATGGTGGGTCTGTC
AGAACCTGTTGTATAACTGTAGACACTCTCTAATGGTTCTCAAAGGAGGAAATGTAGCCTTCAGTCTCCTCTATT
TGTCTTTGAGGAAGTCCACTTGTTCACAGTTGCAGCCTTGGTTTTTACAGTGGGAAATGGTGGGTCTGATGATA
TGGACATATGTAGCCAGTGGCATTTGACTTTCTGCTGACAGCTGCACACATTACAGCTGTCTCCAAACCCACAG
TGATGCTTAGGGAAAGACCCTGCTCAGGACCCAGCAGGTCAGCACCCAGAGCAGACTGATAGGTCCGTGGGACC
CATGTTAGAGCAGAAAATTTGGGCTCAGCACATTTTACTGTTAGTAGAGAGCCAGGAAACGTTTTCTGGGTTGGG
GATTTTGTGGGATTTTTTAATTTTTTTAGTAGGTTTTGTTTAACTCTGTGCAGTTTGTATGAATGAATTGCTAT
ACATTTATAAGGAGCCAGGGTCTGGAGGGTTGCTATCACTTTGTCCAGCCCAAATACCTTCTGGGCAACTCCTA
CCATTTGTTTGCAGTTGCCCTCTACTAGCTGATGGCAGTATGCTGGAAAGAGGTTGTACTATAAAGAGAGTTCTTT
CCTTCTACTCCAGAGTTGTTGTGTAGCTTTGCCATTGAACCGATCAATTTTTAACTCTTTAAAGAAGCAGCAGC
TATTTTTTTGAAATTAAGAAAATTTCTCAGGCCAGGCTCAATGGCTCATGCCTATAATTGTAGTGCTTTGGGAGG
CTGAGCTGGGAGGATCGCTTAAGACCAGCCTAGGCAACAGAGTGAGATCCTGTCTCTACAAAAACAAAAATTTTT
TTTTTGTCTTTCTTTTGAGACGGAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAATGGTGCAGGCTCTGGCTCAC
CGCAACCTCCGCTCCAGATTAAAGTGATTCTCCTGCCTCAACCTCCTGAGTAGCTGGGATTAGCAGATGCGCC
ACCATGCCGGGCGAATTTTGTATTTTAAATAGAGACAGGGTTTCTCTGTGTTGGTCAGGCTGGTCTCAAACCTCCC
AACCTCAGGTGATCCGCCCACCTCAGCCTCTCAGAGTGCTGGGATTACAGATGTGAGCCACTGCACCTGGCAAAA
AAAAAATTTTTTTTTTAATTTGTCAGGTGTGGTGATGCATGCATGTAGTCCCAAATACTTAGGAGGCTGAGGTGGA
AGGATCACTTGAGCCAGGAGGTCAAGGCAACAGTGAGCTGTGATCATGCCACTGCACTCCAGTCTGGGTGACAC
AGTGAGACCCTGTCTCTTAAAAAAAAAAAAAAGAAAGAAAAAAATTTATTTTAGGTAATTTCACTTGGACATAT
TCATGTATATGGAGTTTGTCTAGCTGACTCAGGCATTTACCCTAAAGATCAAATCTGTTTCAAAAATTGGCATTG
GCCAGGCACGGTGACCCACACCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTGAGGGT
TCAAGACCAGCCTGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATACAAAAA

4665/5332
FIGURE 4063

GAGATGCGGGAAGGTGGAGGCTGCCGTGAGCGACCGGATGCGGAGACTCAGAAGTCCGAGCTTGGACCCTTAATG
AGGACCACACTCCAACGCGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAAGAAGTATGTG
GGCTTTGACAGCTGGGACATGTACAATGTGGGTGAACATAACCTATTTCTGGCCCAATAGACAACCTCTGGGCTA
TTTTCAGATCCTGAGAGTCAGACCTTGAAAGAACCTTAATTGATGAATTGGACTATGTATTGGTCCCTACCGAG
GCGTGGAATAAACTACTAACTGGTACGGCTGTGTAGAAGGCCAGCAACCCATCGTCAGAAAAGTTGTGGAGCAT
GGCCTGTTTGTCAAGCACTGCAAAGTCGAGGTGTATTTGCTGGAAGTGAAGCTCTGTGAGAACAGTGACCCACC
AATGTGCTGAGTTGCCATTTAGCAAGGCAGACACCATTTCAACCATCGAGAAAGAGATGCGGAAGCTATTCAAC
ATCCCTGCGGAGCGTGAAACACGGCTCTGGAACAAATACATGAGCAACACCTACGAGCAGTTGAGCAAGCTAGAC
AACACTGTCCAGGATGCTGGGCTATACCAGGCTCAGGTGCTAGTAATTGAGCCTCAAATGAAGATGGCACATGG
CCCAGGCAGACCTTGCACTCAAATCAAGCACTGCGCTAGCAGAAATTTTACTACCTCTCCAAAATCATCAGCA
AGTCCCTATTCCCTCAGTGTCTGCCTCTCTCATTGCAAATGGTGATAGCACTAGCACCTGTGGGATGCACAGTTCC
GGTGTGAGAGGGGTGGATCTGGCTTTTCTGCTTCGTATAATTGTGAGGAGCCACCATCCTCTCATATACAACT
GGGCTCTGTGGACTTGGAAACCTGGGAAACACCTGCTTCATGAAGTCCGCTTTGAGTGTGTTGAGCAACACTGCA
CCACTGACTGACTACTTTTCTCAAAGATGAGTATGAAGCCGAAATCAACAGAGACAACCTCTGGGGATGAAAGG
GAAATTGAGAAGCCTATGCTGAAGTCAATTAAGCAGATGTGGTCTGGAAGGGACGCCCATGTGGCACCTCGCATG
TTCAAACCTCAAGTAGGACGTTTTGCTCCTCAATTTTCTGGCTACCAGCAACAAGATTCTCAGGAGCTGTGGCC
TTTCTTCTAGATGGATTGCATGAAGATCTGAACCGGGTAAAGAAAAAGCCCTACTTGGAGCTGAAGGATGCCAAT
GGGCGGCCAGATGCGGTGGTGGCAAAGGAAGCCTGGGAGAATCACAGGTTGAGGAATGATTCTGTGATTGTGGAT
ACTTTCCATGGCCTCTCAAATCTACTTTGGTTTGCCAGAATGTGCTAAGGTTTCTGTGACCTTTGACCCATTT
TGCTATCTAACGCTGCCACTGCCCTTGAAGAAAGATCGAGTTATGGAGGTTTTCTGGTTCTGCTGACCCCTCAC
TGCAGACCTACTCAGTACCGTGTGACTGTGCCGCTGATGGGGGCTGTGTCCGACCTGTGCGAGGCTCTCTCCAGG
CTGTCTGGCATTGTGTCAGAAAATATGGTGGTTCGAGATGTGTATAATCACCGATTCCACAAAATTTTCCAAATG
GATGAAGGTTTTAAACCACATCATGCCTCGGGATGACATTTTCGTGTACGAGGTCTGCAGCACTTCCGTGGATGGC
TCGGAATGTGTACGCTTCCAGTCTACTTCAGGGAGAGGAAGTCCAGGCCATCAAGCACTTCTCCGCATCAGCG
CTATATGGGCAGCCACTATTGCTTTCTGTCCCAAGCACAAAGTTAACCTTGAGTCTTTGTACCAGGCTGTTTGT
GATCGTATCAGCCGCTATGTGAAACAGCCTTTGCCTGATGAGTTTGGCAGCTCACCATTGGAGCCAGGGGCTGC
AATGGCTCCAGGAACAGCTGTGAAGGAGAAGATGAGGAAGAAATGGAGCATCAGGAAGAAGGCAAAGAGCAGCTT
TCAGAAACAGAGGAGTGGGAAGATGAGCCAGGAATGACCCAGTGAGACCACCCAAAAGAAGATCAAAGGC
CAGCCCTGCCCAAAAAGGCTTTTACCTTCAGTCTTGTGAAGTCTATGGAACAGCTGACATAAATTCAGTTGCA
GCTGATGGAAAACACTTAACTCAACTCTCGATCTACACTGGCCATGGATTGGGACAGTGAACTCGGAGACTT
TACTATGATGAGCAAGAATCTGAGGCCTACGAGAAGCATGTGAGCATGTTGCAGCCTCAGAAGAAGAAGACC
ACAGTGGCCCTGAGAGACTGCATCGAGCTCTTACCACCATGGAGACCCCTGGGGAGCATGACCCCTGGTACTGT
CCCAACTGTAAGAAGCATCAACAGGCCACAAAAAAGTTTGACCTATGGTCTTGGCCAAGATCCTGGTGGTCCAC
CTCAAACGTTTCTCTTACAACAGATACTGGAGGGATAAGCTCGACACAGTCGTAGAATTCCTAATCAGAGGGCTG
AACATGTCCGAGTTTGTCTGTAACCTGTGAGCAAGGCCTTATGTGTACGACCTCATTGCCGTGTCCAATCATTAT
GGAGCCATGGGGGTTGGCCACTACACTGCATATGCGAAGAACAACTGAATGGTAAATGGTATTACTTTGATGAT
AGCAACGTGTCCCTGGCCTCTGAGGATCAGATAGTGAAGTAAAGCAGCTTATGTGCTATTTTACCAACGTCGAGAT
GATGAATTTTATAAGACACCTTCACTTAGCAGTTCTGGTTCTCTGATGGAGGGACACGACCAAGCAGCTCTCAG
CAGGGCTTTGGGGATGATGAGGCTTGAGCATGGACACCAACTAATGCTGACTCCACGATCCTGCCACCCCTGTAG
CGCCAGTGTAAATCCCCAAGAGAACATCTTTGACACTCTGCAGACTGCTAGTGTCTGTCTAAAAACCAGACAAG
GAAATACCCTTCTTTTATGAGCAGAAGGAAACAAAAAAGAAAGACCGTTTACCTAGAA

4666/5332
FIGURE 4064

CCCTCGAGGGCCCCAGCCCTTGGAAGGGTAACCTGGACCGCTGCCGCCTGGTTGCCTGGGCCAGACCAGACATGC
CTGCTGCTCCTTCCGGCTTAGGAGGAGCACGCGTCCCGCTCGGGCGCACTCTCCAGCCTTTTCCTGGCTGAGGAG
GGGCCGAGCCCTCCGGGTAGGGCGGGGGCCGGATGAGGCGGGACCCTCAGGCCCCGAAAAGTGCCTGTGCCACGT
GACCCGCCGCCGGCCAGTTAAAAGGAGGCGCTGCTGGCCTCCCCTTACAGTGCTTGTTTCGGGGCGCTCCGCTGG
CTTCTTGACAATTGCGCCATGTGTGCTGCTCGGCTAGCGGCGGGCGGGCGGGCGGCCAGTCGGTGTATGCCTT
CTCGGCGCGCCCGCTGGCCGGCGGGGAGCCTGTGAGCCTGGGCTCCCTGCGGGGCAAGGTACTACTTATCGAGAA
TGTGGCGTCCCTCTGAGGCACCACGGTCCGGGACTACACCCAGATGAACGAGCTGCAGCGGCGCCTCGGACCCCG
GGGCCTGGTGGTGCTCGGCTTCCCGTGCAACAGTTTGGGCATCAGGAGAACGCCAAGAACGAAGAGATTCTGAA
TTCCCTCAAGTACGTCCGGCCTGGTGGTGGGTTTCGAGCCCACTTCATGCTCTTCGAGAAGTGCGAGGTGAACGG
TGCGGGGGCGCACCCCTCTCTTCGCCTTCCTGCGGGAGGGCCCTGCCAGCTCCCAGCGACGACGCCACCGCGCTTAT
GACCGACCCCAAGCTCATCACCTGGTCTCCGGTGTGTGCGCAACGATGTTGCCTGGAACCTTTGAGAAGTTCCTGGT
GGGCCCTGACGGTGTGCCCCCTACGCAGGTACAGCCGCCGCTTCCAGACCATTGACATCGAGCCTGACATCGAAGC
CCTGCTGTCTCAAGGGCCCAGCTGTGCCTAGGGCGCCCCCTCTACCCCGGCTGCTTGGCAGTTGCAGTGCTGCTG
TCTCGGGGGGTTTTTCATCTATGAGGGTGTTCCTCTAAACCTACGAGGGAGGAACACCTGATCTTACAGAAAAT
ACCACCTCGAGATGGGTGCTGGTCTGTTGATCCAGTCTCTGCCAGACCAAGGCGAGTTTCCCCTAATAAAAG
TGCCGGGTGTCAGCA

4667/5332
FIGURE 4065

AGCAATGGCTGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCATAGT
CTTCAGCAAGGACCAGTTCAGAGGTGTATGTGCCCACAGTGTTTGAGAACTATGTGGCAGATATCGAGGTGGA
TGGAAGCAGGTAGAGTTGGCTTTGTGGGACACAGCTGGGCAGGAAGATTATGATCGCCTGAGGCCCTCTCCTA
CCCAGATACCGATGTTATACTGATGTGTTTTCCATCGACAGCCCTGATAGTTAGAAAACATCCCAGAAAAGTG
GACCCAGAAGTCAAGCATTCTGTCCCAACGTGCCCATCATCCTGGTTGGGAATAAGAAGGATCTTCGGAATGA
TGAGCACACAAGGCGGGAGCTAGCCAAGATGAAGCAGGAGCCGGTGAAACCTGAAGAAGGCAGAGATATGGCAA
CAGGATTGGCGCTTTTGGGTACATGGAGTGTTTCCAGCAAAGACCAAAGATGGAGTGAGAGAGGTTTTTGAAATGGC
TACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAATCTGGGTGCCTTGCTTTGTGAACCTTGCTGCAAG
CACAGCCCTTATGCGGTTAATTTGAAGTGCTGTTTATTAATCTTAGTGATGATTACTGGCCTTTTTTCATTTAT
CTATAATTTACCTAAGATTACAAATCAGAAGTCATCTTGCTACCAGTATTTAGAAGCCAACTATGATTATTAACG
ATGTCCAACCCGTCTGGCCACCAGGGTCCTTTTGACACTGCTCTAACAGCCCTCCTCTGCACTCCCACCTGACA
CACCAGGCGCTAATTCAAGGAATTCTTAACCTTCTTGCTTCTTTCTAGAAAGAGAAAACAGTTGGTAACCTTTTGTG
AATTAGGCTGTAACCTACTTTATACTAACATGTCCTGCCTATTATCTGTGCTGCAAGGTACTCTGGTGAGTCA
CCACTTCAGGGCTTTACTCCGTAACAGATTTTGTGGCATAGCTCTGGGGTGGGCAGTTTTTTGAAAATGGGCTC
AACCAGAAAAGCCCAAGTTCATGCAGCTGTGGCAGAGTTACAGTTCTGTGGTTTCATGTTAGTTACCTTATAGTT
ACTGTGTAATTAGTGCCACTTAATGTATGTTACCAAAAATAAATATATCTACCCCAGACTAGATGTAGTATTTTT
TGTAATAATTGGATTTCTAATACTGTCATCCTCAAAGAAAGTGATTGGTTTTTTAAAAAAGAAAGTGATTGG
AAATAAAGTCAGATGGAAAATTCATTTTTTAAATTCCCGTTTTGTCACTTTTTCTGATAAAAGATGGCCATATTA
CCCCTTTTCGGCCCCATGTATCTCAGTACCCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAG
GCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCATCTGGCTCTAATTCACAGTGCTC
TTTTCTCCTCACTGTATCCAGTTCCCTCCCAGAGGAGCCACCAGTTCTCATGGGTGGCACTCAGTCTCTCTTCT
CTCCAGCTGACTAACTTTTTTTCTGTACCAGTTAATTTTTCCAACCTACTAATAGAATAAAGGCAGTTTTCT

4668/5332
FIGURE 4066

TGAGCCCCAGCTAAGCGCTGCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTGTGGACTTCGA
GCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGCTGCTATTAACAGGCA
CCGGCCCCAGCTCCTGGTGGAACGTTACCATTTCAACATGGGGCTGCTGATGGGAGAGGCTCGGGCTGTGCTGAA
GTGGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGTCCTCCACCTTCTGGGCCCCAAGTTGGAGGC
TGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGAAACAGACCGGAGGACGGCAAAGGATGTGGT
GGAGAATGGCGAGACTGCTGACCAGACCCTGTCTCTGATGGAGCAGCTCCGGGGGGAGGCCCTTAAGTTCCACAA
GCCTGGTGAGAACTACAAGACCCAGGCTATGTGGTCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGA
GATTACTGGTGGGCAGGTACGTACCCGGTTCCCGCCAGAACCCAATGGAATCCTGCATATTGGACATGCCAAAGC
CATCAATTTCAACTTTGGCTATGCCAAGGCCAACAATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGA
GAAGGAGGAAGCAAAGTTCTTCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCAC
ATATCGCTCTGACTATTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGCAGGGGTCTGGCTTATGTGTG
CCACCAGCGAGGAGAGAGCTCAAAGGCCATAATACTCTGCCTTCACCCTGGAGAGACCGTCCCATGGAGGAGTC
ACTGCTGCTCTTTGAGGCAATGCGCAAGGGCAAGTTTTTCAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGAT
GGAGGATGGCAAGATGGACCCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAATGGTG
CATCTATCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCACTCTGCACCAA
GGAATTCCAGGCCCCG

4669/5332
FIGURE 4067A

TAAGGCGGTGGCGGGCGCGGGGACGGGGGAGGGGCGCGCCGGAACCGGAACCGACCTGCGCCGGAACCGGAAC
GGAGAGCGGGTTGCCAGGGCCCGAAGAGGGCTGGCTGCGGCGGTCTCGCTCGGCTGTCCGTTCCCTTGCTGGAGAA
TTTGGCCACAAAGAGTTGCCAAGATAGCTGGGCCAGGAAGAAAGCGCCGACGCCCTGACCCAGACGCTGTTGCCG
ACCCCGGGGCACTCTGGCTGTGACCAAGCGGCTCAAGATGCTGGCGGGGCCAGTGCCACAGGCCCAAGGAGAG
GGCCCCCAGGACTGGAGGACACCACTAGTAAGAAGAAGCAGAAGGATCGAGCAAACCAGGAGAGCAAGGATGGAG
ATCCTAGGAAAGAGACAGGGTCTCGATATGTTGCCAGGCTGGTCTTGAACCTCTGGCCTCAGGTGATCCTTCTG
CCTCAGCCTCCCATGACGCTGGGATCACAGGCTCACGCCACCGTACCCGGCTGTTCTTTCCCTTCATCGTCAGGGT
CAGCATCCACTCCTCAAGAGGAGCAGACCAAGAGGGAGCTTGTGAAGACCCTCATGATCTCTTGCTACTCCCA
CTCCAGAGTTGTTGCTCGATTGGAGGCAGAGTGAGAAGAGGTGATTGTCAAGCTTCGTGTGGGAGTAGGTCCCC
TGCAGCTGGAGGATGTAGATGCTGCTTTCACAGATACAGACTGTGTGGTGCGGTTTGCAGGTGGTCAGCAGTGGG
GTGGTGTCTTCTATGCTGAGATAAAAAGCTCTGTGCTAAAGTGCAAACCCGCAAGGGCAGTCTCCTGCACCTGA
CAGTCCCCAAAAGGTGCCTATGCTCAGTGGCCCTCCCTCCTGGTTGAGGCTGATGAACAGCTTTCATATCCAC
CGCTGACCTCCCAAACCTGTCTCCTGGGCTCAGAGGAAGATTTAGCCCTTTGGCAGGAGAGAAAGCAGGCTC
CCGGGAATGACCCAGTCTCTCCAGCCATGGTCCGGAGCAGAAACCTGGGAAAGATGACTGTGCCAAGGAGGAGA
TGGCAGTGGCAGCAGATGCTGCAACCTTGGTGGATGAGCCGAGTCGATGGTGAACCTGGCGTTTGTCAAGAATG
ACTCGTATGAGAAGGGCCCGGATTCACTGGTGGTGCACGTGTACGTGAAGGAGATCTGCAGGGACACCTCAAGAG
TACTTTTCCGTGAGCAGGACTTCACGCTCATCTTCCAGACCAGGGATGGAACTTCCTGAGGCTGCACCCGGGCT
GTGGGCCCCACACCACCTTCCGTTGGCAGGTGAAGCTCAGGAATCTGATTGAGCCAGAGCAGTGCACCTTCTGTT
TCACGGCTTCTCGCATCGACATCTGCCTTCGTAAGAGGCAGAGTCAGCGCTGGGGGGGCTGGAGGCCCCGGCTG
CACGAGGTGCAGTGGGTGGTGCAGGTTGCCGTGCCGACAGGTCCAACCCCTCTGGATTCAACCCACACAGGAG
GTGCTCCCCACCCCTGACAGGCCAGGAGGAGGCCCGGGCTGTGGAGAAGGATAAATCCAAGGCACGATCTGAGG
ACACAGGGCTAGACAGTGTGGCAACCCGCACACCCATGGAGCATGTAACCCCAAAGCCAGAGACACACCTGGCCT
CGCCCAAGCCTACATGCATGGTGCCTCCCATGCCCCACAGCCAGTTAGTGGAGACAGCGTGGAGGAGGAGGAAG
AGGAAGAGAAGAAGGTGTGTCTGCCAGGCTTCACTGGCCTTGTCAATTTAGGCAACACCTGCTTCATGAACAGCG
TCATTCACTCTCTGTCCAACACTCGGGAACCTCCGGGACTTCTTCCATGACCGCTCCTTTGAGGCTGAGATCAACT
ACAACAACCCACTAGGGACTGGTGGGCGTCTGGCCATTGGCTTTGCCGTGCTGCTTCGGGCGCTGTGGAAGGGCA
CCCACCATGCCTTCCAGCCTTCCAAGTTGAAGGCCATTGTGGCGAGTAAGGCCAGCCAGTTCACAGGCTATGCAC
AGCATGATGCCCAGGAGTTCATGGCTTCTCTGCTGGATGGGCTGCACGAGGACCTGAATCGCATTGAGAACAAGC
CCTACACAGAGACCGTGGATTGAGATGGGCGGCCGATGAGGTGGTAGCTGAGGAAGCATGGCAGCGGCACAAGA
TGAGGAATGACTCTTTCATCGTGGACCTATTTAGGGGCGAGTACAAGTCGAAGCTGGTGTGCCCTGTGTGTGCCA
AGGTCTCCATCACTTTTGACCCGTTTCTTTATCTGCCGGTGCCCTTGCCACAAAAGCAAAGGTTCTCCCTGTCT
TTTATTTTGCCGAGAGCCCCACAGCAAGCCCATCAAGTTCTTGGTGGAGCTCAGCAAGGAGAACTCCACTGCGA
GCGAAGTATTGGACTCCCTCTCTCAGAGTGTTCATGTGAAGCCTGAGAACCTGCGTTTGGCAGAGGTAATTAAGA
ATCGTTTTTCATCGTGTGTTCTACCTCCCACTCACTGGACACTGTGTCCCCTCTGATACGCTCCTCTGCTTTG
AGCTGCTATCCTCAGAGTTGGCTAAGGAGCGGGTAGTGGTGTAGAGGTGCAACAGCGCCCCCAGGTGCCAGCG
TCCCCATCTCCAAGTGTGACGCTGCCAGCGGAAGCAACAGTCGGAGGATGAAAAGCTGAAGCGCTGTACCCGGT
GCTACCGTGTGGGCTACTGCAACCAGCTCTGCCAGAAAACCACTGGCCTGACCACAAGGGCTCTGCCGACCTG
AGAACATTGGCTACCCCTTCTCTGGTCACTGTACCTGCCTCACGCCTCACTTATGCCCCCTCGCTCAGTTGCTAG
AGGGCTATGCCCGGTACTCTGTGAGTGTATTCCAGCCACCCCTTTTCCAGCCAGGCCGATGGCCTTGGAGTCTCAGA
GCCCTGGCTGCACCACACTGCTCTCCACAGGTTCCCTGGAGGCTGGGGACAGCGAGAGAGACCCCATTCAGCCAC
CTGAGCTCCAGCTGGTGACCCCTATGGCTGAGGGGGACACAGGGCTTCCCCGGGTGTGGGCAGCCCCCTGACCGGG
GTCTGTGCCCAGCACCAGTGGAAATTTCTTCTGAGATGCTGGCCAGTGGGCCCATTGAGGTTGGCTCCTTGCCAG
CTGGCGAGAGGGTGTCCCGACCCGAAGCTGCTGTGCCTGGGTACCAGCATCCAAGTGAAGCTATGAATGCCACA
CACCCAGTTCTTCATCTATAAAATTGATTCATCCAACCGAGAGCAGCGGCTAGAGGACAAAGGAGACACCCAC
TGGAGCTGGGTGACGACTGTAGCTGGCTCTCGTCTGGCGGAACAATGAGCGCTTGACAGGATTTGTGTTGGTAG
CCTCCAAGGAGCTGGAATGTGCTGAGGATCCAGGCTCTGCCGGTGGAGCTGCCGGGGCCGGCCACTTCACCCCTGG
ACCAGTGCCTCAACCTCTTACACGGCTGAGGTGCTGGCACCCGAGGAGGCTGGTACTGCCACAGTGCAAAC
AGCACCGTGAGGCCTCCAAGCAGCTGTGCTATGGCGCTGCCAAATGTTCTCATCGTGCAGCTCAAGCGCTTCT

4670/5332
FIGURE 4067B

CCTTTCGTAGTTTTATCTGGCGTGACAAGATCAATGACTTGGTGGAGTTCCCTGTTAGGAACCTGGACCTGAGCA
AGTTCTGCATTGGTTCAGAAAGAGGAGCAGCTGCCCAGCTACGATCTATATGCTGTTCATCAACCACTATGGAGGCA
TGATTGGTGGCCACTACACTGCCTGTGCACGCCTGCCCAATGATCGTAGCAGTCAGCGCAGTGACGTGGGCTGGC
GCTTGTTTGATGACAGCACAGTGACAACGGTAGACGAGAGCCAGGTTGTGACGCGTTATGCCTATGTACTCTTCT
ACCGCCGGCGGAACCTCTCCTGTGGAGAGGCCCCCAGGGCAGGTCACCTCTGAGCACCACCCAGACCTAGGCCCTG
CAGCTGAGGCTGCTGCCAGCCAGGCTTCCCGGATTTGGCAGGAGCTGGAGGCTGAGGAGGAGCCGGTGCCTGAGG
GGTCTGGGCCCCCTGGGTCCCTGGGGGCCCCAAGACTGGGTGGGCCCCCTACCACGTGGCCCTACCACACCAGATG
AGGGCTGCCTCCGGTACTTTGTCCCTGGGCACCGTGGCGGCTTTGGTGGCCCTCGTGCTCAACGTGTTCTATCCTC
TGGTATCCCAGAGTCGCTGGAGATGAGCTCGCCTGCAGGCAGCTGCTGTGAGCTGGCCTACCTGCCTGCCCCAGG
CCATGCCTGCCTTTGTTGTGGGGAACACCTCTGGGCTTTGGGCCTCAGCTTATGCATCTGGTGGGAGAGGGTGGG
GAGGTTGTGGCCCCCTGCAGGGGCAGAGTATCCTAGGGTGTGTATCCATCTGGCTGTCTGTCCATTATCCTGCTG
CTCTGACCCCTTGGCCTCAGGCTTGGCCCTGCCCAAGCTACTTCCTGTACTTAAAAGTGTTAATAAAAACCAGACTA
TTCAGGCCC

4671/5332
FIGURE 4068A

GAAGGCAGTTTCCGGAGGGAAGGGGTAGGGTTGGGGTGGGGGCGCTCTCCGCCCGGTGTTGCGCTCCTTCCCAGA
ATCCGCTCCGGCCTTTCCTTCCCTGCCGCGATTCCCAACTTTGCTCAAAGTCGCTGGACTCTAAGCTGTGCGAGGG
ACCGCTGGACAGACCTGGGAAGTACAGAGGGCCTGGAGGGAAACAGGCCAAAGACCCACAGGCAGAGTTGACAC
GGAACCCCAAAGCAAGGAGGAGGGCTCGGGCCCCGAGACCGTTACCTCCCTTATCCCTGTTCCCTCTTTCAGGA
TGGAGCTGACCTCAAGGGAAGAGGGAGGGGACAGCCTCTGCCCTGGGAACCTTCGACTGGGCCTACTGCTAAGCG
GTGAGAGGGCCTGGTGGGGGCTGGGGGTTGTGGAATGTGATGGTAGTCCCTGGGAGTTGCCCTTGGGGCACATGA
GGTGGAGCCACTGGATAGGAAGTCCACGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
GGCCCTGCCCCGATGNN
NN
AGAATGGTATCCCTGCGGTACCATCCAGCTGGACCTGGAGGCTGAGTTTCATTTACACACCTCATTATGACCT
TCAAGACATTTGCCCCGTGCTGCCATGCTGGTGGAAAGCTCAGCAGACTTTGGCCGCACCTGGCATGTGTACCGAT
ATTTCTCCTATGACTGTGGGGCTGACTTCCCAGGAGTCCACTAGCACCCCCACGGCACTGGGATGATGTAGTCT
GTGAGTCCCGCTACTCAGAGATTGAGCCATCCACTGAAGCGAGGTCATCTATCGTGTGCTGGACCTGCCATCC
CTATCCAGACCCCTACAGCTCACGGATTGAGAAGCTGTTGAAGATACCAACCTACGGGTGAACCTGACTCGTC
TACACAGTTGGGAGACAACCTACTCGACCCACGGAGGGAGATCCGAGAGAAGTACTACTATGCCCTCTATGAGC
TGGTTGTACGTGGCAACTGCTTCTGCTACGGACACGCCTCAGAGTGTGACCCGCCCCAGGGGACACGCCCATG
CTGAGGGCATGGTGCACGGAGCTTGCATCTGAAACACAACACACAGTGGCCTCAACTGCGAGCAGTGTGAGGAT
TCTATCGTGACCTGCCCTGGCGTCCGGCTGAGGACGGCCATAGTCAATGCTGTAGGAAGTGTGAGTGGCATGGGC
ACACCCACAGCTGCCACTTCGACATGGCCGTATACCTGGCATCTGGCAATGTGAGTGGAGGTGTGTGTGATGGAT
GTCAGCATAACACAGCTGGGCGCCACTGTGAGCTCTGTGCGCCCTTCTTCTACCGTGACCCAACCAAGGACCTGC
GGGATCCGGCTGTGTGCGCTCCTGTGATTGTGACCCATGGGTTCTCAAGACGGTGGTTCGCTGTGATTCCCATG
ATGACCTGCACTGGGACTGGTCTCCGGCCAGTGTGCTGCAAGAACATGTGGTGGGCACTCGCTGCCAGCAAT
GCCGTGATGGCTTCTTTGGGCTCAGCATCAGTGACCGTCTGGGCTGCCGGCGTATGTCAATGTAATGCACGGGGC
ACAGTGCCTGGGAGCACTCCTTGTGACCCCAACAGTGGATCCTGTTACTGCAACGTCTAGTGAAGTGGAGCTGGA
TGTGACCGCTGCCTGCCTGGCCACTGGGGCCTGAGCCACGACCTGCTCGGCTGCCGCCCTGTGACTGCGACGTG
GGTGGTGTCTTGGATCCCCAGTGTGATGAGGGCACAGGTCAATGCCACTGCCGCCAGCACATGGTTGGGCGACGC
TGTGAGCAGGTGCAACCTGGCTACTTCCGGCCCTTCTTGACCACTAATTTGGGAGGCTGAGGACACCCGAGGG
CAGGTGCTCGATGTGGTGGAGCGCTGGTGAACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTTCGTGCGG
CTACAGGAAGGTGAGACCTGGAGTTCTGGTGGCCTCTGTGCCGAAGGCTATGGACTATGACCTGCTGCTGCGC
TTAGAGCCCCAGGTCCCTGAGCAATGGGCAGAGTTGGAAGTGAATGTGACGCTCAGGGCCTGTGCTGCCAC
AGCTGTGTGGGCATTTGGTGCCCAAGGATGATCGCATCAAGGGACTCTGCAACCACATGCCAGGTACTTGATA
TTCTTAATCCTGTCTGCCTTGAGCCTGGTATCTCTACAAGCTGCATCTGAAGCTGGTACGGACAGGGGGAAGT
GCCAGCCTGAGACTCCCTACTCTGGACCTGGCCTGCTCATTGACTCGCTGGTGTGCTGCCCCGTGTCTGGTG
CTAGAGATGTTTAGTGGGGGATGCTGCTGCCCTGGAGCGCCAGGCCACCTTTGAACGCTACCAATGCCATGAG
GAGGGTCTGGTGGCCAGCAAGACTTCTCCCTCTGAGGCCTGCGCACCCCTCCTCATCAGCCTGTCCACCCTCATC
TACAATGGTGGCTGCCATGTGAGTGAACCCCTCAAGGTTCACTGAGTTCTGAGTGAACCCCTCATGGTGGTCAG
TGCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCTGGCTACTATGGCTTGGCCCCACA
GGCTGTCAAGCCTGCCAGTGCAGCCACGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACCAGTGGGCAATGTCTC
TGTGCAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGGATTCCCTAGCTGCCGGCCA
TGTGTCTGCAATGGGCATGCAGATGAGTGAACACCCACACAGGCGCTTGCTGGGCTGCCGTGATCACACAGGG
GGTGAAGCACTGTGAAAGGTGCATTGCTGGTTTCCACGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCC
TGTCCCTGTCTGAAGGCCCTGGGAGCCAACGGCACTTTGCTACTTCTTGCCACCAGGATGAATATTTCCAGCAG
ATTGTGTGCCACTGCCGGGCAGGCTATACGGGGCTGCGATGTGAAGCTTGTGCCCTTGGGCACTTTGGGGACCCA
TCAAGGCCAGGTGGCCGGTGCCAAGTGTGTGAGTGCAGTGGGAACATTGACCCAATGGATCCTGATGCCTGTGAC
CCCCACACGGGGCAATGCCTGCGCTGTTACACCACACAGAGGGTCCACACTGTGCCCACTGCAAGCCTGGCTTC
CATGGGCAGGCTGCCCCACAGAGCTGTACCGCTGCACATGCAACCTGCTGGGCACAAATCCGCAGCAGTGCCCA
TCTCTGACCAAGTGCCTGTGATCAAGCAGTGGGCAGTGGCCATGCCTCCCCAATGTCCAGGGCCCTAGCTGT
GACCGCTGTGCCCCCAACTTCTGGAACCTCACCAGTGGCCATGGTTGCCAGCCTTGTGCTGCCACCCAAGCCGG

4672/5332
FIGURE 4068B

GCCAGAGGCCCCACCTGCAACGAGTTACAGGGCAGTGCCACTGCCGTGCCGGCTTTGGAGGGCGGACTTGTTC
GAGTGCCAAAGAGCTCCACTGGGGAGACCCTGGGTTGCAGTGCCATGCCGTGTGATTGTGACTCTCGTGGAATAGAT
ACACCTCAGTGTACCCGCTTCACAGGTCACTGCAGCTGCCGCCAGGGGTGTCTGGTGTGCGCTGTGACCAGTGT
GCCCCGTGGCTTCTCAGGAATCTTTCCTGCCTGCCATCCCTGCCATGCATGCTTCGGGGATTGGGACCGAGTGGTG
CAGGACTTGGCAGCCCCGTACACAGCGCCTAGAGCAGCGGGCGCAGGAGTTGCAACAGACGGGTGTGCTGGGTGCC
TTTGAGAGCAGCTTCTGGCACATGCAGGAGAAGCTGGGCATTGTGCAGGGCATCGTAGGTGCCCCGAACACCTCA
GCCGCCTCCACTGCACAGCTTGTGGAGGCCACAGAGGAGCTGCCGCGTGAATTTGGGGAGGCCACTGAGCACCTG
ACTCAGCTCGAGGCAGACCTGACAGATGTGCAAGATGAGAACTTCAATGCCAACCATGCACTAAGTGGTCTGGAG
CGAGATAGGCTTGCACCTTAATCTCACACTGCCGCAGCTCGACCAGCATCTTGACTTGCTCAAACATTCAAACCTC
CTGGGTGCCTATGACAGCATCCGGCATGCCCATAGCCAGTCTGCAGAGGCAGAACGTCGTGCCAATACCTCAGCC
CTGGCAGTACCTAGCCCTGTGAGCAACTCGGCAAGTGCTCGGCATCGGACAGAGGCACTGATGGATCTCAGAAAG
GAGGACTTCAACAGCAAACACATGGCCAACCAGCGGGCACTTGGCAAGCTCTCTGCCCCATACCCACACCCTGAGC
CTGACAGACATAAATGAGCTGGTGTGTGGGGCACCAGGGGATGCACCCTGTGCTACAAGCCCTTGTGGGGGTGCC
GGCTGTGAGATGAGGATGGGCAGCCGCGCTGTGGGGCCCTCAGCTGCAATGGGGCAGCGGCTACAGCAGACCTA
GCACTGGGCGGGCCCGGCACACAGGCAGAGCTGCAGCGGGCACTGGCAGAAAGGTGGTAGCATCCTCAGCAGA
GTGGCTGAGACTCGTCGGCAGGCAAGCGAGGCACAGCAGCGGGCCAGGCAGCCCTGGACAAGGCTAATGCTTCC
AGGGGACAGGTGGAACAGGCCAACCAGGAACCTCAAGAACTTATCCAGAGTGTGAAGGACTTCCTCAACCAGGAG
GGGGCTGATCCTGATAGCATTGAAATGGTGGCCACACGGGTGCTAGAGCTCTCCATCCCAGCTTCAGCTGAGCAG
ATCCAGCACCTGGCGGGTGCATTTGCAGAGCGAGTCCGGAGCCTGGCAGATGTGGATGCGATCCTGGCACGTACT
GTAGGAGATGTGCGTGTGCGGAGCAGCTACTGCAGGATGCACGGCGGGCAAGGAGCTGGGCTGAGGATGAGAAA
CAGAAGGCAGAGACAGTACAGGCAGCACTGGAGGAGGCCAGCGGGCACAGGGTATTGCCAGGGTGCCATCCGG
GGGGCAGTGGCTGACACACGGGACACAGAGCAGACCCTGTACCAGGTACAGGAGAGGATGGCAGGTGCAGAGCGG
GCACTGAGCTCTGCAGGTGAAAGGGCTCGGCAGTTGGATGCTCTCCTGGAGGGCTCTGAAATTGAAACGGGCAGGA
AATAGTCTGGCAGCCTCTACAGCAGAAGAAACGGCAGGCAGTGCCAGGGTCTGTGCCAGGAGGCTGAGCAGCTG
CTACGCGGTCTCTGGGTGATCAGTACCAGACGGTGAAGGCCCTAGCTGAGCGCAAGGCCCAAGGTGTGCTGGCT
GCACAGGCAAGGGCAGAACAACCTGCGGGATGAGGCTCGGGACCTGTTGCAAGCCGCTCAGGACAAGCTGCAGCGG
CTACAGGAATTGGAAGGCACCTATGAGGAAAAATGAGCGGGCACTGGAGAGTAAGGCAGCCCAGTTGGACGGGTTG
GAGGCCAGGATGCGCAGCGTGCTTCAAGCCATCAACTTGACAGGTGCAGATCTACAACACCTGCCAGTGAACCCCTG
CCCAAGGCCTACCCAGTTCTTAGCACTGCCCCACATGCATGTCTGCCTATGCACTGAAGAGCTCTTGGCCCGGC
AGGGCCCCCAATAAACAGTGTGAACCCCC

4673/5332
FIGURE 4069A

AGCTCACAGGAGGCAAAGAGTCCGAAGGTGGAGCTGCACAGCCACTCAGAGGTCCCTTTCCAGATGCTAGATGGC
AACAGTGGCTTGAGTTCTGAGAAGATCAGCCACAACCCCTGGAGCCTGCGTTGTCACAAGCAGCAGCTGAGCCGC
ATGCGCTCCGAGTCCAAGGACCGAAAGCTCTACAAGTTCCCTGCTTGAGAACGTGGTGCACCACTTCAAGTAC
CCCTGCGTGTGGACCTGAAGATGGGCACGCGGCAGCATGGCGATGACGCGTCAGCTGAGAAGGCAGCCCGGCAG
ATGCGGAAATGCGAGCAGAGCACATCAGCCACGCTGGGCGTCAGGGTCTGCGGCATGCAGGTGTACCAGCTGGAC
ACAGGGCATTACCTCTGCAGGAACAAGTACTATGGCCGTGGGCTCTCCATTGAAGGCTTCCGCAATGCCCTCTAT
CAATATCTGCACAAATGGCCTGGACCTGCGACGTGACCTGTTTGAGCCTATCCTGAGCAAACCTGCGGGGCTGAAA
GCTGTGCTGGAGCGGCAGGCCTCTTACCGCTTCTACTCCAGTTCCCTGCTTGTCATCTATGATGGCAAGGAGTGC
CGGGCTGAGTCCCTGGACCGCCGGTCTGAGATGCGTCTCAAGCACCTGGACATGGTGTCTCCCTGAGGTGGCG
TCATCCTGTGGCCCCAGCACCAGCCCCAGCAACACCAGCCCCGAGGCGGGTCCCTCCTCTCAGCCCAAGGTGGAT
GTCCGCATGATTGACTTTGCACACAGCACATTCAAGGGCTTCCGGGATGACCCACCGTGCATGATGGGCCAGAC
AGAGGCTACGTGTTTGGCCTGGAGAACCTCATCAGCATCATGGAACAGATGCGGGACGAGAACCAGTAGGCCCTG
TTCTGGGCCCCCAGAACCCCTTCCCTCTCCACTGCAGGCAGGACCATTGTTCTGAACCTTGGCGTAGGACACACA
GACTTGCTTTTAAAGGGTTATATTTCTCTTTGGTGTAACATAAAAGAAATGTTTTTAGCTGTAGCTGGAATCCA
TATATATAAAGTGAAGGAGGGCAGACCACAGCCCTCTCAGCCAGGCTCCTCAGCTTTGTGGCTCTGACTGGTGT
GTCCAGGCTGCCTTAGGAAGGAAGAGGTGCCCTGGTGGCTTGGCAGCAGGGACAGGGTGGCCTTGGACATTGG
TTTCTCTTGTCTAGATCTTTGAGATCTGTGGCTGCAGGGCCCTGCTGATTGTAAGGTAAAGCCCTGGGCTGGTGC
AGGCCCCCTCCAGCCCACTCTTCCCTTGTTCGCCAGAAGTAGAGGGCTCTGGGTGCCCATTTCTTGGGGGCTTT
CCAGTCTTATGCTGTGGGTGTCAGCTAGCTCTTTAATAGGTGCCCTCAGGGCACACAGGGCTGACTGCACAAAG
CTGGACCCATCCTTCGGTCTGACCTTAGCATGGGGCTAGATTAATGAAGCTGGGCTGAGGCCAAGTTATGGCAGA
GGGCGGCGCCTGGGTTCCCCAGGCACCTGTTGGCACGTGACAGGTTGGCACCTGTCTATTCTGAAACAGCCTC
TCTACCAAGTTCCCTTGCTAAGAAGGCCACTCCCTCCCACCCCACTGAAGTGGGGGATAGTCGGTGTCTTAGC
AGGCCTCAGGGCCTCTGGTGCTCTGGCCCAGACAGTATTGTCAGTTCTTGTGCTATGGGTGGGAGTCTTCTTCC
TCAAGTTTCGGCAGCTGTGCTGCTGCTGGATGGGCTGCTCCTCCCAGGGCTCAAGGGCTGTGGTCCGCTCAGGGT
CTCATTTCCCCAGGCCAAGTTCAAGGCAGCAGCCCTTTGTGAGGCGCTCTTGGCCCTGGGCTGGAGGGAGAAGT
TTAAGCTTTTTTGTCTACAGGGACGTGGTATGGGCCCTGGGTGCAGGTGCCACATTCTGCTAATGAGAGCTTTG
TCTGATCAGTCTGGGTCCATCAGTTTGTCCATGTGTCCGGCTGCCAGCCCGTCCCTTGGGATCCTTCCCTGGG
GTGTAGCCTTGTTTATTAGTATATACTATTCTTTCATGCTTTCTCAGCAGAACACTTCCACTTCTGAGGTGAG
CTTTTGCCCCATGCCCTTCTCCACAGGTGTTGCCTTTTTATAAAGACCTGATAGCAGAATAAATTGGTGTTC
CTGTTGACCCAGCACCATTCTGTGGGCCTAGAATATGGCCCTCAACCCTTAGAGTGGGGCAGTGAGGGCTTGAG
GAGTGACCTTCTTTCTCATGGTTTTAGTCATTTTGGCTGCCAGCCCTTAATGGCACAGATCTGCTGCTTCTAA
CAGATGGCCAGGAGGTGACACCGATTTCAGCCATTGCCAAGGTTAGCACCTCTCCTTTGAGCCTAGGGCCACAC
TGTTTATTGTCACTTTAGGCAAGTGCCTGTTTGGCTTTAAAGGTAAGCCTGCCAGCTGTGAGAAGCCTTGGTAAC
TGATGGACTCATTTCCTGGTCTTAAAGATGCAGCCTCTTAAGGGCTCCTTGATGGATGCCATCTCTCCTAGCCC
CCAGCCCTGGTGCCACTGGTGGGCAGGTTCCCATTCTTTGGGGCTGGGAGGGACAGCTTGCCTGTTTCTGGTAC
AAATTACAGTCTTCTCTCCTGTACCATTTCTGTGGCTTCAGCCATGGGGGCAGTAGCCCTTCATTAGTGTAGATAG
TCATTCCCTGGTAGGGTGGAGGGTAAGACATAGGGTCTGGAAGTGTGGGACCTTTGGGGATGTCTGTGCCT
CCCAGATTCTCGATTCTGGGAGGAGAGGCTGCCGCATTCTGCTGCTCCTCACAGCGAGCAAAGCTGCACCCACT
TACATTAGTATTTTCTGGCACTACAAAGAGTGGGAAGGCCTGGGATTGTGCTGCTCCCTTAGAGCAGGGCC
CCTCTTTTACAGCACTTTGGACACCTGGAGACCCAGCCCTGTTATTTAATGGTAGTGGGCAAGTGTGTGTGCATAC
TGTCTGCCACTGCTTTCTCCCTGCCCCATGCCAGAGAGCCCTGTCCCTGCCAGGCCCAGCCTTCTTAGCCCCAAC
TTGGGAACAAAGTGAACATGGGATCATGGGTGGGGTGGCTCAGGTGAGCCCTCTCTATAGTGCTTCCCTGGGCC
AAGCTGACACCAGCCCTGAGGGTGGGGTGGGACGGGTGGTGTCTAAAAGAGGAAGGGGACCAGTGTAGCAACTT
GCCAGGGACCCACCCCTCCCTCTCTGGGCCTGTGTCAGTGAGCATGGGGATTCCCATCAAGGGGCTGGCACCTG
TGCTAGTTACGTAGCCGCTGCTCACGCGCTCACTCCTGACCACATGCACGTTCCCTAGATGCAGACTGCTTTGAA
CTTTAAAGCTGTACAATTTGGTTATGTTTGTGCTGACTTAAATATATTTTTAATGAGGAAAAAATAATGGAGAAC
CCTGGGAAGGACCTGGTTCTTTTGTCTCTCGGGGAAGTGAAGCCCTCGCGTTCTGGGAATCGCTCTCTGCTGCT
CTTTCCTGGAAGCTAAGCCTGTCTCCACCGCCCGAGGCCTGCGCCGGTGGCTCCCGCCGAGTGCCTTTGCTTT

10/531147

4674/5332
FIGURE 4069B

GGACCTTGCGTGCGGGGGAGGGGGTGCTCGGTCCGAGCCCGCTCCTTCTGTACACCTAGCGCTGCCCGCCCCGC
TTGTGTCTGAGGTCGTGTATGTCAAAAATAAAGCCGCTAGAAACGG

4675/5332
FIGURE 4070

GGCGGCAGAGAGGAGACTATGGAACGTCAGGTGCTGCTGAGCGAGCCCCGAGGAGGCGGCGGCTCTGTATCGGGGC
CTTAGCCGCCAGCCCGCGCTGAGCGCCGCTGCCTGGGCCCGGAGGTCACCACGCAGTACGGCGGCCAATACCGG
ACGGTGCACACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTGATTCTGCCGCCAATACCTGGTG
TTCCATGACGGGGACTCAGTGGTGTTTGCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGGAACCTGCTGAGC
AGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAG
TTCCTGGAGGTCTGGGAGAAGAACCAGGAAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTT
TATGAGGATGACTGCTTTGGCTGCCGTGCTGGTTCGCACTCGGAGACACACTTGTTGTATGTGGCAGAGAAGAAG
CGCCCCAAGGCCGAGTCCTTCTTTTCAGACCAAAGCCTTGGACGTCAGTGCCAGCGATGATGAGATAGCCAGGCTG
AAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAAGACTGGGGAGAAAACATGGTTTCCAAA
AGCATCCCTGTGCTCTGCGTGCTGGATGTGAGAGTGGCAACATCTCTGTGCTTGAGGGGGTCCCTGAGAATGTG
TCCCTTGGACAGGCATTTTGGGCCCTGGAGATGCTGGTGTGGTGTTTGTGGGCTGGTGGCATGAGCCCTTCCGG
TTGGGCATCCGCTTTTGCACCAATCGCAGGTGAGCCCTGTATTATGTGGACCTCATCGGGGGGAGTGTGAGCTC
CTCTCGGATGACTCCCTGGCTGTCTCTTCTCCCCGGCTGAGCCCAGACCAATGTCGCATTGTCTACCTGCAGTAC
CCATCTCTGATCCCCATCACCAATGCAGCCAGCTGTGCTGTATGACTGGTATACCAAGGTTACCTCAGTGGTG
GTAGATGTTGTGCTCGGCAGCTGGGAGAGAACTTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGG
TCAGCTGACAGCCAGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGTGTGGACACCCAA
GTGGGCACTGTGACCTCCCTCACAGCTGGAGGGTCAGGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTC
ATGGTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCCTGCCTTCTGCAGGGAAGGAG
CAGTCAGTGTGTGGGTGTCCCTGGAGGAGGCCGAGCCATTCCCGACATCCACTGGGGCATCCGGGTGCTACAG
CCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAGCCTGGCAGCCCT
CCAGATAAGACCCAAGTGCCCATGGTGGTCATGCCCCACGGGGGGCCCCATTTCATCCTTTGTCACTGCCTGGATG
CTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAACATATCGTGGCTCCACGGGCTTTGGC
CAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTGAAGGATGTCCAGTTTGCAGTGGAAACAG
GTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTATGGGTGGTTCCTATGGTGGCTTCATTTCTGTC
CACTTGATTGGTTCAGTACCCAGAGACCTACAGGGCCTGCGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATG
TTGGGCTCCACTGACATCCCTGACTGGTGCCTGGTGGAGGCTGGCTTTCTTTTCAGCAGTGAAGTGCCTGCCAGAC
CTCAGCGTGTGGGCTGAGATGTGACAAATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTG
ATGTTGGGCCAGGAGGACCGGCGTGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCCTCAAGACCCGGAAT
GTGCTGTTCCGGCTCCTGCTCTATCCCAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTCAGACAGCTTC
ATGAATGCTGTGCTCTGGCTACGCACACACTTTGGGCAGCTGAAGCCCTGCCATTCTGCATGAGCTGATCAGCCTG
TGCCACACTTCGCTCTTGAGGAGCTCAACGGTCTGGCAGGGCAGCAGGAGGCTTTCTGGGCTCTGGACTCCACGG
ATGCGTGGGCAGAGGAATGTGGGCTATGTAGTCATAATAAATTAGGAC

4676/5332
FIGURE 4071A

GAGCCGAGCTGGGAGATGGCGGCGGCAGCGGGCGCGCGAGAGTGTGAGCACCGCCCGGGAGCCGCGCGGCCGGG
CGCAGCGCGACCCGACCCCGCCCGCCCGCCTGCCCGCCATGGGCAACGAGGTTCAGCCTGGAGGGCGGCGCTGGC
GACGGGCGCTGCCCGCCGGCGGCGCCGGCCCCGGCCCGGGCCCCGGCCCCGGCGCAGGAAAGCCGCCT
TCAGCACCGGCCGTGGCGGACAGCTCCCCGCGGCGGGAGCAGCGCGGTTCAGCCGCGGTACCACCGGTCCCTGGC
CCCGCCCCGGCCCCGGTCCCGGCCCTGGCCCCGGGCAGCACTTCCCGGAGACTGGACCCCAAGGAACCCCTGGGT
AACCAGAGAGCAGCTTCCCCAACTCCGAAGCAGGCTTCTGCTACCACTCCTGGCCATGAGAGCCCCGAGAGACA
AGGGCACAGGGACCAGCAGGCCAGGAGGCTGATGGTCCCCGACAGGACGCTGCAGGTAGACAGCAGGACACAGAGA
TCAGGGCGGTCCCCCTCAGTGTACCGGACAGAGGCAGCACCCCCACATCACCTACTCCGTCCCTCAGATCGCC
CCCCTTCCAGCAGCACGCTGTGTCCCATATGCAAGACTTCGGACCTCACGTGCACCCCCAGCCAGCCAACTTC
AACACTGCACCCAGTGTCAACAAGGTCTGCAACCAAGTGTGGGTTCAACCCCAACCCCTCATCTCACCCAGGTG
AAGGAGTGGCTCTGTCTGAAGTGTGATGCAGAGGGCTCTGGGAATGGACATGACCACTGCACCTCGCTCCAAG
AGCCAGCAGCAGTGCATCCCCAGCCCTGTCTCCTGGCCACTCCCCGGCCAAACAGCCCCCTGGGGAAGCCAGAC
CAAGAGAGATCTCGGGGCCAGGAGGACCACAGCTTGGGTCCCGCCAGGCTGAGACAGCCAGGGCCACCTCAGTG
CCGGGGCCTGCCAAAGCAGCTGCCCCCTCCAGAGGTGGGGAGGGTGTCTCCTCAGCCCCCTCAACCCACCAAGCCT
TCCACAGCTGAGCCAGGCCACCTGCAGGAGAGGCCCCGGCCAAAAGTGCCACCGCAGTGCCCGCTGGGCTTGGT
GCCACTGAGCAGACCCAGGAGGGCCTCACTGGTAAGCTCTTCGGCCTTGGCGCGTCACTGCTAACCCAGGCGAGC
ACCCCTCATGTCTGTGCAGCCCGAGGCTGACACCCAGGGCCAGCCTGCCCCAGCAAGGGGACACCTAAGATCGTC
TTCAATGATGCCAGCAAGGAGGCTGGCCCAAACCCCTTGGGCTCAGGGCCCCGGGCTGGGCCAGCACTGGAGCC
AAAAGTGAAGCTGGGGCTAGAATGGGTCTTGGATCTGGACCTGGAGCCCTGCCGAAAAGTGGGGGAACAACCAAGT
CCAAAGCATGGCAGAGCAGAACATCAGGCAGCATCGAAGGCTGCTGCCAAGCCAAAGACCATGCCGAAGAAAGG
GCCATCTGCCCACTGTGCCAAGCCGAGCTCAACGTGGGCAGCAAGAGCCAGCCAACTATAACACATGCACCAAC
TGCAGGCTCCAGGTGTGCAACCTGTGTGGCTTCAACCCAAACCCCCACCTGGTGGAGAAAACAGAGTGGCTCTGT
CTGAAGTCCCAAACCAAGCGCTACTGGAGGGCAGCCTAGGAGAGCCGACCCCCCTGCCGCGCCACCTCACAG
CAGCCCCCTGTAGGGGGCCCCCTACCGTGCATCTGGAACATCCCCCTCTGAAGCAGAAAGGGCCACAGGGGCTGGGC
CAGCCTTCAGGCCCCCTGCCTGCCAAGGCCAGCCCTCTATCCACCAAGGCCAGCCCTCTGCCAGCAAGGCCAGC
CCCCAGGCCAAGCCCCCTCAGGGCTTCTGAACCCAGCAAGACCCCAAGCAGTGTCCAGGAAAAGAACCCGAGTC
CCCACTAAAGCTGAGCCCATGCCGAAGCCACCTCCAGAGACTACCCCAACCCCTGCGACTCTAAAGTAAAGAGT
GGGGTGAAGAGGGCTGAACCTGCCACCCCTGTCTGTCAGGCTGTTCAGAAGCCCCCAAGGGTGGGGAGGCGGAG
GACCTGGTGGGCAAGCCTTACTCTCAGGATGCGTCTCGGAGCCACAGAGCCTCAGTGACACAGGCTATTCTCT
GACGGCATCTTAGCTCCAGAGTGAGATCACAGGAGTCGTGCAGCAGGAGGTGGAACAGCTGGACAGTGACAGG
GTGACAGGGCCACATCCACCCAGCCCCCTCCGAGATCCACAAGGTGGGGAGCAGCATGCGGCCCTTTGCTGCAGGCC
CAGGGCCTGGCCCCAAGTGAGCGGAGCAAGCCACTCTCCAGCGGTACTGGCGAGGAGCAGAAGCAGCGGCCCCAC
TCCTTGTCCATCACGCCTGAGGCCTTTGACTCTGATGAGGAGCTGGAGGATATCCTGGAGGAAGACGAAGACTCT
GCTGAGTGGAGGCGCCGGAGAGAGCAGCAGGACACTGCCGAGTCTCAGACGACTTTGGCAGCCAATTGAGGCAC
GACTATGTGGAGGACAGCAGTGAGGGTGGCCTGTCCCTCTTCCACCCAGCCCCAGCCCGGGCAGCAGAACTG
ACTGATGAGGATTTTCATGCGACGGCAGATTCTCGAGATGAGCGCCGAGGAAGACAACCTGGAGGAGGATGACACT
GCCACCTCCGGGCGTGGCCTGGCCAAACATGGCACCCAGAAAGGTGGCCCCAGACCCAGGCCCTGAGCCTAGCCAA
GAACCAGCAGCACTGCCAAAGAGGCGCCTGCCCCACAATGCCACCACGGGCTATGAGGAGCTGCTCCCTGAGGGA
GGCTCAGCAGAGGCTACCGATGGCAGTGGGACCTGCAGGGTGGGCTCCGTGCTTCAAGACCATGAGCTCAAC
AGCACGGGAAGTTATGGTCATGAGTTGGACCTGGGCCAAGGCCCCAGACCCAGTCTGGACCGGGAGCCTGAGCTG
GAGATGGAGAGCCTAACGGGCTCCCTGAGGACCGCTCCCGTGGTGGAGTCTCTACATGCTGCTGCCCTCCACA
CCCAGCTACACCTCGGGCACCTCTCCACCTCTCTGTCTCCCTAGAGGAGGACAGTGACAGCAGCCCCAGCCGC
AGGCAGCGTCTAGAAGAAGCAAAGCAGCAGCGCAAGGCCCCGGCACCGCTCCACGGGCCCCCTGCTACCCACCATC
GAGGACTCCTCAGAGGAGGAGGAGCTGCGGGAGGAAGAGGAGCTGCTTCGTGAGCAAGAGAAGATGCGGGAGGTG
GAGCAGCAGCGCATCCGCAGCACGGCCCCGAAGACCCGGCGGGACAAGGAAGAAGTGCGGGCCAGCGGAGGCGA
GAGCGCTCCAAGACACCACCCAGTAACCTTGTACCCATCGAGGATGCCTCCCCGACGGAGGAGCTGAGGCAGGCG
GCCGAGATGGAGGAGCTACACCGCTCCTCCTGCTCTGAGTACTCACCTCACCTCCCTTGAAGTCTGAGGCTGAG
GCCTTGGATGGTGGCCCTAGCCGGCTTTACAAGTCAGGCAGTGAGTACAACCTGCCACCTTCATGTCCCTCTAC

4677/5332
FIGURE 4071B

TCACCAACCGAGACACCCTCCGGCAGCTCCACCCTCCAGTTCCGGACGGCCGCTCAAGAGCGCTGAGGAGGCT
TATGAGGAGATGATGCGCAAAGCTGAGCTGCTCCAGAGGCAGCAAGGCCAGGCAGCAGGGGCCCCGGGACCCCAT
GGCGGCCCCCTCTCAGCCACAGGCCCCCGGGGCTGGGCTCCTTCGAATATCAAGACACTACAGACCGTGAGTAT
GGCCAGGCTGCTCAGCCTGCCGAGAGGGCACGCCAGCCAGCCTGGGAGCAGCCGTGTACGAAGAAATCCTTCAG
ACATCACAGAGCATAGTCCGCATGCGGCAGGCCCTCCTCACAGAGCCTGGCTTTTGCTGAGGACAAAAGAAGGAG
AAGCAGTTTTCTAAATGCTGAGAGTGATACATGGACCCAATGAAGCAAAATGGTGGCCCCCTTACCCCTGGTACC
AGTCCCAACCCAGCTCGCTGCCCTGTGTCTTCTTACCCCCACCTCCTCAGACAGCAGCGGGGGCCGAGTTATT
CCCGATGTCCGTGTCACTCAGCATTTTGCAAAGGAGACTCAGGACCCCTCAAGCTGCACAGCTCTCCTGCCTCC
CCCAGCTCAGCCTCCAAGGAGATAGGCATGCCCTTTTCCAGGGCCCTGGGACCCACAGCCACAGCTGTGGCT
CCTTGTCCAGCTGGGCTGCCACGAGGATATATGACTCCAGCCTCCCCAGCAGGCTCCGAGCGTAGTCCTTCACCA
TCTTCCACAGCCCACAGCTATGGACACAGCCCAACCACTGCAAACTATGGGTCCCAACTGAGGATCTACCCAG
GCCCCAGTGGCCTTGCTGCAGCTGGACGAGCTGCTAGAGAGAAGCCCTTGAGTGCGAGTGACGGTGAGGGTGGC
ACTCCTCAGCCTTCCCGGCATATTCTTACTTTGCAAGCTCCAGCCACCTCTCTCCCCGTCTTCCCCCTCAGAG
AGTCCACATTCTCCCTGGCAAGATGGGCCCAAGGGCCACAGCAGAGTTCTCTACACAGACGCCAAGTCCAGCC
CCTGCCTCAGACATGCCACGGAGCCCTGGTGGCCCCACTCCATCACCTATGGTAGCCAGGGTACACAAACACCA
CATCGACCCAGCACGCCTCGCCTGGTGTGGCAGGAGTCTCTCAAGAGGCTCCCTTTATGGTCATCAGCTGGCA
TCTGACGCCTCCAGCCAGACCAGGATGGTACATGCCAGTGCCTCCACCTCCCCGCTCTGCTCACCTACTGAAACC
CAGCCCCACCCCATGGCTACAGCCAGACAACACCTCCGAGTGTGTCTCAGCTGCCCCCAGAGCCACCTGGGCCA
CCTGGCTTTCCACGGGTGCCAGTGTGGTGCAGATGGGCCCTGGCACTATATGGCTGGGGTGCCCTCCCTGCT
GAGAACATCTCCCTGTGCCGATCTCCTCTGTCCCTGGGACGTCTAGGGTTGAGCCAGGCCCCAGGACCCCTGGC
ACTGCAGTGGTAGACCTCCGTACAGCTGTCAAGCCCACTCCCATCATCCTCACTGACCAGGGCATGGACCTCACC
TCTCTTGCTGTGGAAGCGAGGAAGTATGGTCTTGCCCTGGATCCAATCCCAGGACGGCAGTCGACCGCCGTGCAG
CCCTTGTTATCAACCTCAATGCCAGGAGCATACCTTCTTGCTACTGCCACCACCGTGAGCATCACCATGGCC
TCGTCTGTGTTTATGGCTCAACAAAAGCAGCCTGTGGTCTATGGAGACCCCTACCAGAGCCGCCTTGACTTTGGC
CAGGGTGGGGGTAGCCCTGTGTGCTGGCCAGGTCAAACAAGTAGAGCAGGCTGTCCAGACAGCCCCATACCGA
AGTGGGCCCCGGGAAGACCCAGGGAGGCCAAGTTTGCCAGATATAACCTACCCAACCAAGTAGCTCCTCTGGCC
AGAAGAGACGTTTTGATCACTCAGATGGGCACCGCCAGAGCATTGGCCTCAAGCCAGGCCCAGTGCCAGAGCCA
GGTGCCGAGCCCCACCGGGCCACCCCTGCAGAGCTGCGGTACATGCTCTGCCAGGTGCCAGGAAGCCACACACA
GTGGTGGTGCAGATGGGAGAGGGCACAGCAGGCACTGTGACCACACTGTCCCAGAGGAGCCTGCGGGTGCCCTG
GACCTTACCGGGATGAGGCCTGAGAGCCAGCTGGCATGCTGTGACATGGTCTACAAGCTCCCCCTTTGGCAGCAGC
TGCACTGGCACCTTCCACCCGGCCCCCAGTGTGCCTGAGAAGAGCATGGCAGATGCTGCCCCACCTGGCCAAAGC
AGCAGCCCCCTTCTATGGTCCCCGGGACCCCTGAGCCTCCTGAGCCCCCAACCTACCGGGCACAGGGGTGGTGGGG
CCTGGGCCCCATGAGGAGCAGAGGCCCTACCCACAAGGCCTGCCTGGTAGGCTGTACTCCTCCATGTCTGACACC
AATTTGGCTGAGGCTGGCCTCAACTACCATGCCAGAGGATCGGGCAGCTCTTCCAGGGTCTGGACGAGACTCG
GCTATGGACCTCAGCTCACTGAAGCACTCCTACAGCCTGGGCTTTGCGGATGGACGCTACCTAGGGCAGGGCTTG
CAGTATGGCTCAGTCACGGACCTGCGTCATCCTACAGACCTTTTGGCTCACCCGCTTCCCATGCGGCGCTATAGC
TCAGTGTGCAACATCTACTCAGACCACAGGTACGGCCACGGGGAGATGCAGTTGGCTTCCAGGAGGCCAGCCTG
GCCCAGTACAGTGCCACCACAGCCCGTGAAATCAGTCGCATGTGCGCTGCCCTCAACTCCATGGACAGTATGGT
GGCGGCATGGCAGTGGTGGTGGTGGCCCTGACCTTGTGCACTACAGCCCCAGCACGGGCCGGGCTCAGTGCT
CCACAGAGTCTGGTTCCTCAGACCTGGACTCCTTGGTAACCCACCTTCCAGAGGGCCACCCAAGTCTGGG
AACTTGGCCAGTATGGGCTGCAGCAGGCCAAGGAACAGCAGTCAGACAGCTGCTGCCGTCCACAGCCACTGTA
CGTGCAGCTGATGGCATGATCTACTCGACTATCAATACCCCAATTGCTGCAACACTGCCCATCACCACCCAGCCT
GCCTCAGTCTGCGGCCCATGGTGGTGGTGGCATGTACAGGCCTTACGCATCTGGTGAATCACAGCCGTGCCA
CTCACCAGTCTGACACTGTGCCCCATGATTGCCCCCGGGTACCTCTTGACCCACAGGGCTGTACCGCTATCCT
GCACCAAGTAGATTTCCATTGCTTCCAGTGTCCACCTGCAGAAGGGCCTGTCTATCTGGGGAACCTGCTGCT
GCCAAGGCCCTGGGGCTGGGGGCCCTTCAAGGCCAGAGATGCCAGTAGGGGCTGCACGGGAAGAGCCTCTTCCC
ACAACCACCCCTGCTGCCATCAAGGAGGCTGCAGGAGCCCCAGCTCCTGCCCCACTAGCTGGCCAGAAGCCACCA
GCAGATGCTGCTCCTGGGGGTGGCAGTGGGGCCCTCAGCCGGCCAGGGTTCGAGAAAGAGGAAGCATCACAGGAG

4678/5332
FIGURE 4071C

GAGAGGCAGCGGAAGCAACAGGAGCAGCTGCTCCAGCTAGAGCGGGAGCGGGTGGAGTTGGAGAAGCTGCGACAA
CTTCGGCTGCAAGAGGAGCTAGAGCGGGAACGTGTGGAGCTGCAGAGGCACCGTGAGGAGGAGCAGCTGCTGGTG
CAGCGGGAGTTGCAGGAGCTGCAGACCATCAAGCACCATTGTGCTGCAGCAGCAGCAAGAGGAACGCCAGGCTCAA
TTTGACTGCAGCGGGAACAGCTAGCGCAGCAGCGTCTGCAGCTGGAGCAGATCCAGCAGCTGCAGCAGCAGCTG
CAGCAGCAGCTAGAGGAGCAGAAGCAGCGGCAGAAGGCTCCCTTTCTGCAGCCTGTGAGGCACCTGGCCGAGGG
CCTCCCTAGCGGCTGCTGAGTTGGCCAGAATGGCCAGTATTGGCCCCCCTTACACATGCAGCCTTCATTGCC
ATGGCAGGGCCTGAAGGACTTGGGCAGCCTCGTGAGCCTGTGCTGCACCGGGGTCTCCCAGCTCTGCCTCAGAC
ATGTCACTGCAAACGGAGGAGCAGTGGGAGGCCAGCCGTAGTGGCATCAAGAAGCGGCACTCCATGCCACGCCTG
CGGGATGCCTGTGAGCTAGAGTCTGGGACTGAGCCCTGTGTGGTCAGGAGGATTGCCGACAGCAGCGTGCAGACA
GACGATGAGGATGGGGAGAGCCGCTACCTCTTGAGTCGGCGACGCCCGGGCAGCGGAGTGTGACTGCAGTGTG
CAGACGGACGACGAAGCAGTGTGAGTGGGAGCAGCCAGTGCGCCGCCGAGGTCTGCTCTTCCCCGCCACTCA
GACTCAGGCTCTGACAGCAAGCACGATGCCACTGCCTCATCATCCAGTGTGCTGCCACTGTGAGGGCCATGAGC
AGCGTGGGCATCCAGACCATCAGTACTGCTCCGTGCAGACGGAGCCTGACCAGCTGCCAGGGTCTCTCCAGCC
ATCCACATCACAGCTGCCACCGATCCCAAGGTGGAGATCGTCAGGTACATATCGGCGCCAGAGAAGACTGGGCGT
GGGGAGAGCCTGGCCTGCCAGACGGAGCCAGATGGGCAGGCCCAGGGTGTAGCCGGGCCGAGCTTGTAGGGCCA
ACTGCCATCAGCCCCCTACCTGCCTGGCATCCAGATCGTCACCCAGGGCCTCTGGGCAGATTTGAAAAAAGAAG
CCAGATCCCCTGGAGATTGGGTACCAGGCCACCTGCCTCCGGAGTCTCTCTCACAGCTTGTGAGCCGCCAGCCT
CCCAAGTCCCCTCAGGTCTCTACTCACCAGTCTCACCCTGTCCCTCACCAGGCTCTTGACACCTCCTTTGCT
TCCAGTGAGAGGCTGAACAAAGCTCACGTGAGTCCCCAGAAGCACTTACGGCTGACAGCGCTCTCCGCCAGCAG
ACGCTGCCTCGCCCCATGAAGACCTGCAGCGGTCCCTGTCTGACCCTAAGCCCTCAGCCCCACCGCCGAAGAG
TCTGCCAAAGAGAGATTCTCCCTCTACCAGCACCAGGGGGGACTGGGTAGCCAGGTGTGCGCGTTGCCACCCAAC
AGCCTGGTCCGCAAGGTGAAGCGGACACTGCCAGCCCCCTCCAGAGGAGGCTCACCTTCCCCTGGCTGGCCAG
GCCTCCCCACAGCTGTATGCAGCCAGCCTGCTGCAGCGAGGGCTGACGGGGCCCACTGTCCCTGCTACCAAG
GCCAGCCTGCTCCGGGAGCTGGACCGGACCTGCGGCTGGTGGAGCATGAGTCCACCAAACTGCGCAAGAAGCAG
GCAGAGCTGGATGAGGAGGAGAAGGAGATTGACGCCAAGCTCAAGTACCTGGAGTTGGGTATCACACAACGCAAA
GAGTCTTTGGCCAAAGACCGGGTGGCCGTGACTACCCACCCTTGCGTGGTCTTGGCGAGCATCGTGAATACCTA
TCGGACAGTGAGCTCAACCAGCTGCGGCTCCAGGGCTGCACCACTCCCGCTGGCCAGTTTGTGGAATTCCTGCC
ACTGCCGCTGCTCCTGCCACCCCTCTGGTCCCACTGCCTTCCAGCAGCCCCGCTTCCAGCCTCCAGCCCCACAG
TATTCTGCAGGCACTGGTGGGCCAACTCAGAACGGATTCCAGCCCCACAGCCCCCCTACCTTGGCCCCAGC
ACGTACCCAGCTCCTGCCTTTCTCCTGGTGGCAGTTACCCAGCTGAGCCTGGCCTGCCAAACCAGCAGGCTTTC
CGCCCCACAGGCCACTATGCAGGCCAAACACCCATGCCAACCACACAGAGCACCTTTTCCAGTCCCCGCTGAT
AGCCGTGCCCCACTGCAGAAGCCAGCCAGACATCGCTAGCCGACTTGGAGCAGAAGGTGCCCCACCAACTATGAG
GTGATCGCCAGCCCCGTTGTGCCCATGTCTTCAGCCCCATCTGAAACCAGCTACAGTGGCCCAGCAGTGAGCAGC
GGCTATGAGCAGGGCAAGTCCCTGAGGTGCCCCGGGCTGGTGACCGTGGCAGTGTGAGCCAGAGCCCCAGCCCC
ACCTACCCCTCTGACTCACACTATACCACTCTGGAGCAGAACGTTCTCGAAACTACGTAATGATTGATGACATC
AGTGAAGTACCAAGGACAGCACCTCTACTGCTCCTGATAGCCAACGGCTGGAGCCCTGGGGCCAGGCAGCAGT
GGGCGTCCAGGGAAGGAGCCTGGAGAACCAGGTGTCTTGACGGGCCACACTGCCCTGCTGCTATGCCAGAGGA
GAAGAGGAATCTGAGGAGGACTCATACGATCCCCCGGGGAAGGGTGGCCACCTCCGGAGCATGGAGAGCAATGGT
CGACCAGCCAGTACCCACTACTATGGTGACAGTGACTACAGGCATGGGGCTCGAGTAGAGAAGTATGGTCCAGGG
CCCATGGGGCCCAAGCATCCCTCCAAGAGCCTGGCTCCAGCTGCCATCTCCTCAAAGCGCAGCAAGCACCGGAAG
CAGGGCATGGAGCAAAAGATATCCAAGTTCTCGCCTATTGAAGAGGCCAAAGACGTAGAGTCAGACCTGGCGTCC
TACCCCCACCTGCAGTCAGCAGCAGCCTGGTCTCTCGGGGCAGGAAGTTCAGGATGAAATCACCTATGGGCTC
AAGAAGAAGCTGTATGAGCAGCAAAAATACTATGGGATGTCCAGCCGGGACGCAGTGGAGGACGACCGCATTTAT
GGCGGGAGCAGCCGTCCTCGGGCACCTTCTGCATACAGTGGGGAGAAGCTGTCCAGCCACGACTTCACTGGCTGG
GGCAAGGGGTACGAAAGGGAACGGGAGGCTGTGGAGCGACTTCAAAAAGCGGGCCCCAAGCCCTCATCCCTAAGT
ATGGCCACAGCCGGGTACGACCCCCCATGCGGAGCCAGGCCTCTGAAGAGGAGAGCCCCGTGAGTCTTTGGGG
AGGCCCCGCTTGCCTGGAGGGCCCCCTCCCTCCCGCGGGGATACCTGCCCACAGTTCTGCTCCAGCCACTCCATG
CCTGATGTCCAGGAACATGTCAAGGACGGACCTCGGGCCACGCATATAAGCGTGAGGAGGGCTACATCCTGGAT

4679/5332
FIGURE 4071D

GATTCCCATTTGCGTGGTTTCCGACAGCGAAGCGTATCACCTGGGCCAGGAGGAGACGGACTGGTTTGATAAGCCC
CGGGATGCCCCGCTCTGACCGGTTTCAGGCACACGCGGGGCCATGCAGTTTCTCCTCCTCCCAGAAGCGAGGCCCT
GCCAGGCACAGCTACCATGACTACGATGAACCCCTGAGGAGGGCCTGTGGCCTCATGATGAGGGTGGCCAGGC
CGCCATGCCTCAGCCAAGGAACACCGGCACGGTGACCACGGGCGGCACTCAGGCCGCCACACTGGTGAGGAGCCG
GGACGGCGTGCTGCCAAACCACACGCTCGGGACCTGGGTGCGCCATGAGGCCCGGCCCACTCTCAGCCCAGCTCT
GCTCCAGCTATGCCGAAGAAGGGTCAGCCTGGGTATCCAGCTCTGCTGAGTACTCACAGCCATCCCGTGCTTCA
TCCGCATACCATCATGCCTCTGACAGCAAGAAGGGCTCCCGCAAGCCCACTCCGGGCCCGCTGCACTGCAGTCA
AAGGCAGAACCCAGGCGCAGCCGAGCTGCAAGGTGCGCAGGCAGCTCCAGGACCACAGCAGTCACAGTACCA
TCATCCAGGCAAATACCCTCTGGGGCAGCATCACGCCAGCCACAGACACAGCAGCAGCAGCAAGGTCTTGGGCTG
CAGCCCCACAGCAGGCTCTGACACAGGCTCGGCTGCAGCAACAGAGCCAGCCAACCACCGGGGCTCAGCCCC
GCTGCCAGCCAGCCTGCAGGGAAGCCTCAGCCAGGCCCCAGCACAGCCACAGGTCTCAACCAGCAGGACCGCCA
CGGGCAGAACAGACAAATGGCTCTAAAGGGACAGCCAAAGCACCGCAACAGGGGAGGGCTCCTCAGGCCAGCCA
GCACCAGGACCTGGACCTGCAGGTGTGAAGGTGGAGCCAGGCCTGGAGGAACCCAGGGGCTCCCGCCGGCCAG
CCAGGTGCCGATGGGGAGAGCGTGTCTCCAAGATCTCCCTGGCGGGGAGCCGAGCAAGCTGGCAAATGACG
GAAGCTGTCTCTGCTTTTGGCAAAAAATTTTCTCATTCTGGTGAACCATGCCCAGCATGGCTCTTGAAGAAATGA
AGAGAGGTATCATTGCTGTGGAAAAATCTCTGGAGTCAGAGGCCTGGGCGCAGCTCTGGACTCTGCGTATAACAC
ATCTACAATCTGGCAAACCTTGGCCCAAAGACTCACCAGGTGGGACGTGGCAGGCAGGCCTCAGTTGAGGACGT
GATGTTTTCTCACAGCAGCTGCCTGGGTGAAGCATCTGCTGGACAAGTCGGACCACTGGCCAGGGGACCTTTGAT
TGTCTTTCCAGAGATGCTGCTCTCTGCAGGGCACCACCTTCAAGGCACAGCCCTTGTGGGAGGGAGAACCCTCT
CCAGAAACCTGCCACCATGGTGTCTTGCCGTACTTCCACAGCCGCTTTTGGCGCCTGGCCGGCCAGGCTTC
CCGTGCGTTATACACAGAGTTTGGGCACACACTGCCCTCCCTCCGAGATGCCAGAAGTTTTTCCACAGCCTTGGA
GAGGGGCTTTGACTGAGGGCTGGGGGCCCTGGGCTCCGTTTCCCTTACATTCCAGCTGGCCCGGATCCCTCTGTG
GCACAGGGCCCTGCCCGTCATATGCCCTCTGGGTGACATCGGAGCAGACCTCCATGTGGCCAGGGGTTGGGAGAA
CTTTACAACATTAGGACCTAACACTGTCTCATCGCTGAAATAAGAGGCCATAGCACCGAAAAGCAGCGTGGGCG
CCGGCTGAGGCTTCTCCAGCCCGTGGGTGGCAGCGTGCTAGCACACTGCCACCATCTCAAAGCCATCCCCCTAG
CCATCGTGAGCATCCAGCGGCACCGCCATTGTCTCAACCAGCCGGCTCCTCGTCTGTACACCTGGGGATTCTT
TTGATTTCAAGAACAGCCTTAATCATTCCAGTTTGATTTACGTGTATACCTCATAAACATTTTTCTTTTGTCT
CTCTCCCCCTTTCTCTCTCTTGGCTCACTCCCTTGCCCTCTCCCCCTCCACCACCACCTTGTGACTGATGGTT
TGGTTTTCTCTCTGCTCTGCCCTGCTCAGCACAGGGAGAAATGTGACTTAGAAGCAATAGGGGGCAGCAGGCCA
CCAAGAGCACAACCCAGGGCGAGGTCTGGGGAGGCCTCCAGCCCGCTCTGTTTACTGTGCAATTCAGTCGT
TCTTAAGCCATCACCAGTGGGTGTACTCAGAGCAGAGGGGCCAGGACTTCTGCCAGCCAAGGGAAGGCCAGAG
CCCTGTGCGGGGAATGTGGCACTGTCTATCCATCCGGTGGACTGGGCAGCATTCTCCAGGGGCTCTTCCCTT
GGGGGCTCCTTTCTATCTGGGGCAGCCACAAGTCTCATCTCTAACGTTCTATGCAATGAAATATAAACCTCA
ATGACAACCTGTTAATATTTAATAAATTCATGTTATGTATAAGGAGTTAATTGCAAACATGCAATTGAGAACTG
GATAGATACTCATAAAACCCCCACCCCTCCCCACCCACCCCTGCTCCCATTTGTGTGTGTGAAATTCTCAGTC
TGTGGCATTGTTGACCTGTGGCAGGACTCGCTGCTGCCAGGTGAGTCACCGCCTGCTCTGAGTGGAGATCTTTTGCCTCAG
AACCTCTCCTTCAGGAGCACTTCTAGCTGACTTCTGCACAAGCTAGTGAGGACCTGCCAGAATTGTTGCCTGAGC
GTGCCAGGCTGCAGGGCAGGCAGTAAAAGGCCCCACATACCTGCAAGTTTCTCTGTCCAGGACAGCAGGTAAA
AAGGAATCCCAGAGCAGACGCAATGGTAGGAGCCTGCACAGGATGTGTGTGTATGGACATTCTGAAGGTTTGCT
GTAGGATATCTGTCTGTCTGCTATTTCCCTTCTACCCCAACCTGAGCCAGAGGCATCTGACAGCCCTTTCCC
AGAGGGCACCACGCAAGGGCAGAGCTGGGCGGCATCCACAGCCAGAGAGGCAGAGCAAGAGCAGAGCCAGGCTG
TGCCCCGAGGGACCCAGCTCTTGACTGCACCTGTTTCATGCCTCTCTCTGTGGCTAGGAGGCTCAAAGGACTGT
GAGCCAGGAGATCTGGGCTGGAGCTAGGGGGTCAATGGATGCTCAGGAAGAGCTGGGCTTTGGCACTTGTGGTG
AGAACAGTTGACAGTGGTCATCTGGAAGTTCATATAAAGAGTGGCTTCAAGCTAAGTTTCTTGTGAAGTTTCT
CAATAGCAAATCTTACAGAAGGTCTGTGTGACCCCTCTCTGCATCTGTCCCCAGGACCTATGCTCCCTGCTCACC
CCCTTCTCAAAGCCCAAGCGTCCCGCTGCTCATCAGCTTTTTTACCATTGAGCCAGGAGTGCGGCAGGCAGTAC
CTGCTGACCCTTCAAGGCCTGACCTTCGTCCAGAGTGTCTGTGGTTTGACCATGCATTTCTCAGGGGTCCGCAT

4680/5332
FIGURE 4071E

T T C T C A T G C T T T T C T A T A A G A T C T A C A C A C C C C T T C A G A G A G G G C T C C T C G C T C A C C T C T G G T A G C T A T G G A T G G
G A C A G G A A G C T G C C A A C C T T T G T G T T G G A C T T A A C A C C C T T G C C T T T C T G G G A C T T G G C C T C A C C C C A C C C A T G G
A A T A C C T G C C T C A T C C C A A G A T C A G G T A T G G G C T G A A T G C A G C C A T C T G A G C A A G G G C T G A G G G A A G C C A T C A C
C T A A C A C C T C T G G C C A C C A G G A C C A G G T C T G T G T G G G G A T G T G C C T T G G A G A C C A A G G C A A T A G T C C T T T C C A C
T A C A G G C C A G G G G A T G G G A C A A G A A G T A G G G A A C A G G C A G G G A A A T G T T A G G A G G T C A G C C T C C A G C A G G C C T A G
T C T C A G G C T C T A A A G T A C T G A C T T T T C A G C A A A T T T C C T T T C T G G C C A A G C C C T C T G A G T T T G A A A T T C T G A C A T
C T G C C A C T C C T C A T C C C C C A C T G T A C C C A C A G G A T A C A T C A T C G C C C C T C T G T G A A G G T G G C T G G A G C A G G C C T C
T G G T C C A T G G A C T G T C C T T C C T G G C C C T T G C A T G G A T G C A G T T G T G A C T C T G G G G A C A A T G C A G C C A G A A G C T G A
G G G A C C A G C A C T T G G T G C C T T G G A A A G T A G A G A G C A A C A G A C A C A T C T C C A A A T G G G C A A G G A G T C T C T A G C A T G
C A G C C C A G G C C T T C T C C A T A C C C C T C T C C C C A G C A T C A T G A G C A A G G G C A T T G C C T C C T C T C T G C T C A C T T C A
G G G C C C A G T G C A C T C A C T T C A C A G T G A C A G C C C T C C C C T A C A A T C C T T G G G C A G A G C A T G T G G T C T G A G G G C C C A
C A G T G A A A G A A C A G C A G T G G T G G C A A C T A T G C C T T G C C T T C T G G A G C C T G T A G G G A G T T T T C C A G G C A G G T C C T T
T G C C A G G A C A G C A T G G T C C T G C C C T G T T G T C C C G T C T G C T C T C C T C T T A C C C A C C C C C A T G C T G T A A A T A C T T G T
C A T C A T G G A C T C C A A C A G G G T T A G A G G G A C A G G C C T A A T C A A C T G A A A C T C C T C G G A G A T G C C A T C T C T G T C T C C
C T G G G T G C C A G C A G C C C T G C T G C C A T G T G C A T G G G T G G C A C T G G A G A C C A T G G C A G T C G T G A G A T A T T G T A T
G T G T A T G C A C A T G A T C A T G T G T A T G T G C G T G C G T G C G T G T G T G T G T G T G T G T G T T T C T G C C T C A T T C
A G T T T C T G G G G T C A A A T C A G C T C C T T C T C T C C A A G T G C A C T A C C C T G A G A C T G G T G G C C A C A A T A C C T T T T C
C T C T A G C T T T C A T G T C T T G T T T T T G C T T T C C C C T T C C T C C C C T C T C C C T T C C C T T T C T T T C C T T C T C C T T C T T T
A T T T G A G G G G G G A A G A G T G C T G T A C A A A G T C A A A C A A A C A A G T T T A C A G T T G T A A G T G C A A T G A C C C A G T C C C T C
C A C A T G A C C T T G T G A A T T G T G T G C T G T C C T T C T G T G C T C T G T G A A A C T C G T G G T A C T T C A G T G T C C C T C C C C T
G T A T T G T G A C A A G G T A A T T C T G T G G T A T C A G A A T A A A A G G A C T T G A T A T A A A C

4681/5332
FIGURE 4072A

GCCAGTCGGCGCCGCGCGGAGCTGGCCGCTGGATTGGCTGCAACACTCGCGTGTGAGGCGGTTGCTAGGCTCCGG
CCGCGCGCCCCGCCCTTGCGCTCAGCGCCCTCTCACCGCCCGGTACGTGCTCGCGCGAAGGCTGCGGCGCGGCGC
TCGCGCCTCTTAGGCTTGCGGCTGGCGGCGGCGGCGAGCTTCGCGCCGAATCCCCGGGGAGCGGCGGTGGCGGCGT
CCTGGGGCCAGGAGGAGCGAACACCTGCCGCGGTCTCCCGCCGGCGCTGGGCTCTGTGTGCTCCGGGATGGAGC
AGGTGTGCAGAGGGTGAGAACCCAGCTCTGGGACCAAGTCACTTGCTTCCTTACTTAGCAAGACTATCGACTTGA
GCAAACCTTGACCTGGGATGAGGATGTCTGTGGCCCTCTCGTGCTGCTGCCCCCTCTCGGGGAGGACCTTTCTCC
TCCTGCTCTCTGTGGTTATGGCTCAGTCCCACTGGGCCAGTGAACCCCTCAGAGGCTGTGAGGACTGGGAAAACC
AGCTTGAGGCATCCATGCACTCAGTGCTCTCAGACCTCCACGAGGCTGTTCCACAGTGGTTGGCATTCTGTATG
GCACGGCTGTGCTCGGGCGCTCATTTCAGTGTACCATTCACAGATTGATTGCCTCCAGTGGAGATATCATCA
AGGTATCAGCGGCAGGGAAGGAGGCTTTGCCATCTTGGCTGCACCTGAGGACTCACAGAGCCACACCCTGGAGGGCC
TCCCCCTTGACACTGATAAGGGTGTGCATTACATTTCACTGACGCTACACGGCTGGGGGCCAACGGGAGCCACA
TCCCCCAGACCTCCAGTGTGTTCTCCATCGAGGTCTACCTGAAGACCACAGTGAGCTGCAGTGGTGAGGACAG
CCTCCCCAGACCTGGTGAGGTGGTATCATCTGCCCTGTGCTGCGGATGAACCTGTGACTGTTTTGACGGTGATTT
TGGATGCCGACCTCACCAAGATGACCCCAAAGCAAAGGATTGACCTCCTGCACAGGATGCGGAGCTTCTCAGAAG
TAGAGCTTCACAACATGAAATTAGTGCCGGTGGTGAATAACAGACTATTTGACATGTGCGCCTTCATGGCTGGCC
CGGGAAATGCAAAAAGGTGGTGGAGAATGGGGCCCTTCTCTCCTGGAAGCTGGGCTGCTCCCTGAACAGACA
GTGTGCTGACATTATGTTGTAGAGGCCCTGCCAGGGAGGGCGCAATGTCTGCTCAGCTTGGCTACCTGTGG
TGGGTTGGCACATCGCCAATAAGAAGCCCCCTCTTCCCAAACGCGTCCGGAGGCAGATCCATGTACACCCACAC
CTGTCACTGCCATTGGGCCCCCAACCACGGCTATCCAGGAGCCCCCATCCAGGATCGTGCCAAACCCACATCTC
CAGCCATTGCTCTCTCAACAGAGACCATGGCTCCTCCAGTCAGGGATCCTGTTCTGGGAAACCCACGGTCACCA
TCCGGACTCGAGGCGCCATTATTCAAACCCCAACCTAGGCCCATCCAGCCTACTCGGGTGTGAGAAGCTGGCA
CCACAGTTCTTGCCAGATTTCGCCAACGATGACCATTCCTGGCTATGTGGAGCCTACTGCAGTTGTACCCCTC
CCACAACCAACCAAGAAGCCACGAGTATCCACACCAAAACAGCAACGCCTTCAACTGACTCCACCACCA
CGACTCGCAGGCCAACCAAGAAACACGACACCCCGGCCAGTGCCCGGGTCAACCAAAAGTTTCCATACCA
GATTGGAAACTGCCTCACCGCCTACTCGTATTTCGACACCACCAGTGGAGTGCCCCGTGGCGGAGAACCAACC
AGCGCCCAGAGCTCAAGAACCATTATGACAGGGTAGATGCCTGGGTTGGCACCTACTTTGAGGTGAAGATCCCGT
CAGACACTTTCTATGACCATGAGGACACCACCTGACAAGCTGAAGCTGACCCTGAAACTGCGGGAGCAGCAGC
TGGTGGGCGAGAAGTCTGGGTACAGTTCAACAGCAACAGCCAGCTCATGTATGGCCTTCCCGACAGCAGCCACG
TGGGCAAAACACGAGTATTTATGATGCCACAGACAAGGGGGGCTGTGCGCTGTGGATGCCTTCGAGATCCACG
TCCACAGGCGCCCCCAAGGGGATAGGGCTCCTGCAAGGTTCAAGGCCAAGTTTGTGGGTGACCCGGCACTGGTGT
TGAATGACATCCACAAGAAGATTGCCCTTGGTAAAGAAACTGGCCTTCGCCTTTGGAGACCGAAACTGTAGACCA
TCACCCTGCAGAATATCACCCGGGGCTCCATCGTGGTGAATGGACCAACAACACTGCCCTTGAGGCCCTGCC
CCAAGGAGCAGATCGCTGGGCTGAGCCGCCGGATCGCTGAGGATGATGGAAAACCTCGGCCTGCCTTCTCCAACG
CCCTAGAGCCTGACTTTAAGGCCACAAGCATCACTGTGACGGGCTCTGGCAGTTGTGCGCACCTACAGTTTATCC
CTGTGGTACCACCCAGGAGAGTGCCCTCAGAGGCGCCGCCCACAGAAGTGCTGACAGGGACCTTGAGAAGAGCA
GTGAGGATGATGTCTACCTGCACACAGTCATTCCGGCCGTTGGTGGTTCGACCCATCCTGCTCATTGCTGGCATCA
TTGCCATGATCTGCTACCGCAAGAAGCGGAAGGGCAAGCTTACCCTTGAGGACCAGGCCACCTTCATCAAGAAGG
GGGTGCCTATCATCTTTGCAGACGAACTGGACGACTCCAAGCCCCCACCCTCCTCCAGCATGCCACTCATTCTGC
AGGAGGAGAAGGCTCCCCCTACCCCTCCTGAGTACCCCAACCAGAGTGTGCCCCGAGACCACTCCTCTGAACCAGG
ACACCATGGGAGAGTACACGCCCTTGCGGGATGAGGATCCCAATGCGCCTCCCTACCAGCCCCCACCGCCCTTCA
CAGACCCATGGAGGGCAAGGGCTCCCGTCCCAAGAATGACCCCATACCGGTACCTCCTCCCTATGTCCCAC
CTTAACCCGCAAGCGCCTGGGTGGAGGCAGGGTAGGGCAGGGGCTGGAGACGACATGGTGTGCTGTGGAGAC
CGGTGGCTGCGAGACATTGCCACCGGGAGCCGACACCTGACCTAGCACACACTGACACAGGGGCTGGACAAG
CCCGCCCTCTCTGGTCTCCCAAACCCCAAAGCAGCTGGAGAGACTTTGGGGACTTTTTTATTTTTATTTTTGC
CTAACAGCTTTTGGTTGTTCATAGAGAATTCTTCGCTTCATTTTATGATGGCTGGCTCTGAAAGCACCATGTGGA
GTGGAGGTGGAGGGAGCGAGGAACCATGAATGAACTCGCAGGCAGTGCCGGGCGGCCCCCTGGCTCTCTGCGTTT
TGCCTTTAAACACTAACTGTACTGTTTTTCTATTACGTGTGCTAGCTGCAGGATGTAACATGGAAAACAGTAA
CTAAAGATTAAATTCAAAGGACTTTCAGAAGTTAAGGTTAAGTTTTACGTTTAACTGTGCTGTTTACCTAAACTT

4682/5332
FIGURE 4072B

GTATGTATAATTTTTGGGTGGGTATGGGGAATTGCTTTGCTAAAAATAAGCTCCCAGGGTGTTTCAAACCTTAGAG
AAGACCAAGGGACAGTATTTTTTATCAAAGGAATACTATTTTTTCACACTACGTCAACTTGGTTGCTCTGATACC
CCAGAGCCTGATTGGGGGCTCCCGGCCCTGGCTCACGCCAAGTCCCTGGTGCTGGGTTTGCTCTCCCGCTGTTG
CCAGGGGCTGGAAGCTGGAGGGGTCTCTTGGGCCATGGACATCCCCACTTCCAGCCCATGTACACTAGTGGCCCA
CGACCAAGGGGTCTTCATTTCCATGAAAAAGGGACTCCAAGAGGCAGTGGTGGCTGTGGCCCCCACTTTGGTG
TCCAGGGTGGGCCAGCTGCTTGTGGGGGCACCTGGGAGGTCAAAGGTCTCCACCACATCAACCTATTTTGTTTTA
CCCTTTTTCTGTGCATTGTTTTTTTTTTCCTCCTAAAAGGAATATCACGGTTTTTTGAAACACTCAGTGGGGGA
CATTTTGGTGAAGATGCAATATTTTTATGTCATGTGATGCTCTTCCCTCACTTGACCTTGGCCGCTTTGTCCTAA
CAGTCCACAGTCTCTGCCCCGACCCACCCCATCCCTTTTCTCTGGCACTCCAGTCCCAGGCCTTGGGCCCTGAAC
CTGGAAAAGGTCTGGCGGCTGGGGAGGAGTGCCAGCAATAGTTCATAATAAAAAATCTGTTAGCTCTCAAAGCTAA
TTTTTTTACTAAAGTTTTTATACAGCCTCAAATTGTTTTATTAAAAAAAAGATTTAAAATGGTGATGCTTACAGCA
GTTTGTACGAGCTCTTAAGTGTTGATTCCATGGAAGTACGGCTTTGCTTGTGTTTGATTCTTTTCCCCCTACTTT
TCCTAATGGTTTAAATCTGGAATTACACTGGGGTCTTTTTGCTTTTTTAGCAGAACATCCGTCCGTCCATCTG
CATCTCTGTCCCATGACTCAGGGGCGCCCACTCTGCTTCGATTCTCCTCCTGTGGAAGAAACCATTTTGAGCATG
ACTTTTCTTGATGTCTGAAGCGTTATTTTGGGTACTTTTTAGGGAGGAATGCCTTTTCGCAATAATGTATCCATTC
CCTGATTGAGGGTGGGTGGGTGGACCCAGGCTCCCTTTGCACACAGAGCAGCTACTTCTAAGCCATATCGACTGT
TTTGCAGAGGATTGTGTGTGCTGCCTCAGGAGGGGAGGGCTGGTAGGAGGGGGGAGAGGTCTCTGTCTACTG
CTCTCCAGAGGGCATTTCCCCTTGCGCCTTCTCCACAGGGGCCAGCCCCCTCTCCCCTGCCCCAGTCCCCAGGGG
GTACTCTGGAGTGAGCAGTGCCCCCTGTGGGGGAGCCTGTAAATGCGGGCTCAGTGGACCACTGGTGACTGGGCTC
ATGCCCTCCAAGTCAGAGTTTCCCTGGTGCCCCAGAGACAGGAGCACAAGTGGGATCTGACCTGGTGAGATTATTT
CTGATGACCTCATCAAAAAATAAACAATTCCCAATGTTCCAGGTGAGGGCTTTGAAAGGCCTTCCAAACAGCTCC
GTCGCCCTTAGCAACTCCACCATTGGGCACTGCCATGCAGAGACGTGGCTGGCCCAGAATGGCCTGTTGCCATAG
CAACTGGAGGCGATGGGGCAGTGAACAGAATAACAACAGCAACAATGCCTTTGCAGGCAGCTGCTCCCCTGAGC
GCTGGGCTGGTGATGGTCGTTGGACTCTGTGAGATGGAGAGCCAATCTCACATTCAAGTGTTACCAACCACTGA
TGTGTTTTTATTTCTTCTATATGATTTTAAGATGTGTTTTCTGCATTCTGTAAAGAAACATATCAAACCTAAATA
AAAGCAGTGTCTTTATT

4683/5332
FIGURE 4073

TACTCCCGGAGTCACTCATCCCTTAAGCAAGAGGGGTGGGGTTAGGTGCGCGTGCGCGGTTTTAATACTCCTCCC
CGAACTGCCAACTCTTCACGCACGCGAAGTAGGCCCCACCCTGGCTGGGTTTACGCGTGCGCACTAACGGGCCTG
GTCCCGGAAGACCACACGCGTGCGTGGTGGGGACTACGGTGACAGTACCCCGGGTGGGGCGAGGGCCAGTCA¹TGG
CGGAGTCTCTGGTCTGGGCAGGCCCTTGCAGGCTCTGCCGGCCACGGTGCTGGGCGCGCTGGGCAGCGAGTCTTGC
GGGAGTGGGAGGCGCAGGACATGCGCGTGACCCCTCTTCAAGCTGCTGCTGCTGTGGTTGGTGTTAAGTCTCCTGG
GCATCCAGCTGGCGTGGGGGTTCTACGGGAATACAGTGACCGGGTTGTATCACCGTCCAGGTCTGGGTGGTCAGA
ATGGATCCACGCCCTGATGGCTCCACGCATTTCCCTTCGTGGGAAATGGCAGCAAACGAACCTCTCAAAACCCACA
GAGAA²TAA³GGGAAGGCAGCAGAGGGTCTCCAAGGGCATCACTGGGTCTGCTGGCTTCTACACTGGGTCTGCTAC
TCCCCAGACCTCAGGGACAAC⁴TGCCGGGGGTT⁵CAGGGTTGGTAGCAGGGAGTACCCAGTGCCTACAGGGETGGGC
CTCTTCTGCCTCTTAAGCCTGCTCCCTCACCCAGGCACTGGGCAAGTGAAGAGTTTGCCTGTACTCTTATCTGGG
TGCTTAAAGGAGAGAGATTGTGTTCTTCTCTCAGGGGTGATAACTCAGGAAGCCTCTGGGTGGGAAGACCA
TCAGTTCTTTTGTCTTAGGTTTCTTTCTCTGTCCCTCTTCCATCCCCAAGATGTGACCCATAAAAAATTTTCT
GAGTTGGCCAGGCATGGTGGCTCAGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACGAGTCT
AGGAGTTCGAGACCAGCCTGACCAACATGGTGA⁶AAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGTGTG
GTGGCACACACCAGTAATCCCAGCTACTCAGGAGGCTGAAGCAGGAGATTGCTTGAACCTGGGAGGCAGAGGTT
GCAGTGAGCCAAGATTGCGCCGTTGTACTCCAGCCTGGGCAACAGAGCAAGACCCATCTCAAAAAAAAAAATTTT
TTCTGAGAGGAAGCCTGAGGTTGACCAGCTCTGGGGTTTGTAAAGGCAGGTCTGTTTTCTCCTAGGCCCTGAGTT
TTCTGAATCTCTGGTTTTGCTTTGTTGGCAAGGAGCCAGGGAATCCTGACCTGAGCCAGACCTTAAGCTCTATGG
TTATTTAGCTGGCCATT⁷CAGGTATAAGGCAGGGTGGTGACCTGCTGGCACTATCCAGATGGAGGCACCAAACAC
CCACATACCTGGCCCAACCAGACTTCTCCCGTGAGCCAGGCAAAGGAAATTGTCTATCTGCCAACTGTCTACTCA
TATTCCTCTCAGTCCTTCTTGGGGGTAAGCTGATTACCTGAAGGACAGCTGAACCCCTGGGGTAGCCTCCTATCC
ACCACTGCTTAAGTGCCTATGGGAATGTGGGTCTGCACCTTGTCCCTCATAGGATGGTACCAAGCATT⁸TAGTGC
ACAGTGGCCCCATCATAGCCTGCAGCCTCATCATTTCCCATCTGGACCTGGTACAAATGCACGTCACAGGCTCAG
CTCCTCCCCACTAGCATTTTCTCTACCTTCAAGAACCAGGCAGCCCTGCCATGTACAAATAGGCCAGGGGAGTTT
CCAAAGATGTGGGTGGCAAATGCCCTATAGAAACACCAGTACCTGAAAGCACTGTAGCCCTGGACCTGCCTCCT
TCCCTCGGGGCCATACTTCTGTTTCCATCTGCTGGGCCACCAGCCACTTTAGTGACCCCTGCCTACTTCTTCTCT
GTTGGATATCATACTTCCATCTGGCTGCCTTTGCTTAAGCCATCTTTGTGGTAGAGGGGCCCTGGAATTGCAGCT
GTACTGAGGATGATGTTATTCACAGCCCCTGGCCACCCACTAATACTACTGCACAGAGTCAGGATCTCACATTT
CACCCAGGCTCAACTGAGGATGTGGCTTATTAAACACGGAAGTGC

4684/5332
FIGURE 4074

AGCCTGCCCTTGGGGCTGCCCACGCCCCCTTCAGATCCTTTGCTCCGGAGAGAGACCTGTCCGAGCAGAGGCCTG
GACTACATCTCCCGGCGTGCTGGCAGTGTGGTGGCCTCTGTGCGCCGTCTGCACTCGTTGCAGGCGACGATGCA
GAGGGCTGTAAGTGTGGTGGCCCGTCTGGGCTTTTCGCTGCAGGCATTCCCCCGGCCTTGTGTCTCCACTTAG
TTGCGCACAGGAGGTGCTCCGCAGGACACCGCTCTATGACTTCCACCTGGCCCCACGGCGGGAATGGTGGCGTT
TGCGGGTTGGAGTCTGCCAGTGCAGTACCGGGACAGTCACACTGACTCGCACCTGCACACACGCCAGCACTGCTC
GCTCTTTGACGTGTCTCATATGCTGCAGACCAAGATACTTGGTAGTGACCGGGTGAAGCTGATGGAGAGTCTAGT
GGTTGGAGACATTGCAGAGCTAAGACCAACCAGGGGACACTGTCGCTGTTTACCAACGAGGCTGGAGGCATCTT
AGATGACTTGATTGTAACCAATACTTCTGAGGGCCACCTGTATGTGGTGTCCAACGCTGGCTGCTGGGAGAAAGA
TTTGGCCCTCATGCAGGACAAGGTGAGGGAGCTTCAGAACAGGGCAGAGATGTGGGCCCTGGAGGTGTTGGATAA
TGCCCTGCTAGCTCTGCAAGGCCCCACTGCAGCCCAGGTACTACAGGCCGGCGTGCCAGATGACCTGAGGAACT
GCCCTTCATGACCAGTGTCTGTGATGGAGGTGTTTGGCGTGTCTGGCTGCCGCGTGACCCGCTGTGGCTACACAGG
AGAGGATGGTGTGGAGATCTCGGTGCCGGTAGCGGGGGCAGTTACCTGGCAACAGCTATTCTGAAAAACCCAGA
GGTGAAGCTGGCAGGGCTGGCAGCCAGGGACAGCCTGCGCCTGGAGGCAGGCCCTCTGCCTGTATGGGAATGACAT
TGATGAACACACTACACCTGTGGAGGGCAGCCTCAGTTGGACACTGGGGAAGCGCCGCCGAGCTGCTATGGACTT
CCCTGGAGCCAAGGTCATTGTTCCCCAGCTGAAGGGCAGGGTGCAGCGGAGGCGTGTGGGGTTGATGTGTGAGGG
GGCCCCCATGCGGGCACACAGTCCCATCCTGAACATGGAGGGTACCAAGATTGGTACTGTGACTAGTGGCTGCCC
CTCCCCCTCTCTGAAGAAGAATGTGGCGATGGGTTATGTGCCCTGCGAGTACAGTCGTCCAGGGACAATGCTGCT
GGTAGAGGTGCGGGGAAGCAGCAGATGGCTGTAGTCAGCAAGATGCCCTTTGTGCCACAACTACTATACCCT
CAAGTGAAGCTGGCTCAGGGTGGGGCTGTCCCTTCCAGGAGTTTTGCCCTACAAGGGGTAGTCAAGAAGCTGA
GGCAGAACTCACTGGGGGTGGGCAGTTAAGGTGGAGGCTGATTCTAATTGTCTGGTTGAGGGGGCCACACCACCTA
TTCCCCCACCTAACTCATGCCATTCCAGCTTCCCTTCAGGACCCTGCTTCTGAGTGACGGACCAGCTCACACAAT
GTCTTGTTCAGTCCATGATCCCACTGACCTACTCTTGCTGTGGAGGGTAATGAGAAGCTTTGGTTCTGCCAT
CTCTCCCACTCTGCCAGGTGCTGGCTGTGGAGCAAAGGCTCACCTTTGTGGAGAGGATAAAACCTGCCCCAACCTA
CCTCACCATGGTTTTTTCACATTGCAAAGGGTAATAACATGGGCAGTGGGACTTAGGCTACCCCTCCAGTTTGC
TTTCCGTAAATGCAAATTGTCCTTACTGCAAGTCAGGAATGATTGCTGACTCACAGTAGGGCTGCTATGCCTGTG
TGTAACCTTGGGGATGGCTGAGGGAACATAGACTCACTCTCCACATTCCCAAGTTGGTCTAGTGTGCTGCCCAG
TAGCAAACCATGGCAGACTCACACCTATTCTGAGTTCCAGGGCTGCTGTAGGGCAGGGTGGGCTTCCCTCCAGA
CTTGCTTACCCTGGGCTGATCTTTGCCCTGGTATGCATTAATGGACTCCACTGAATCCTGAAAAAAAATTAA
ACTTCCTTCTTACTTGCCA

4685/5332
FIGURE 4075A

GGATCCTCTAGGGTCCCAGCTCGCCTCGATGAGCTCCTCCCGCCGCTGCCTCAGTCCTTCTGTGTGCTGCTGCT
GTTGCCGTGCCAAGCCCCGCGGCGGGCGAGGACTGGCAGTGCCCGCGCACCCCCCTACGCGGCCTCTCGCGACTTTGA
CGTGAAGTACGTGGTGGCCAGCTTCTCCGCCGAGGCCTGGTACAGGCCATGGTGACCTACGAGGGCGACAGAAA
TGAGAGTGCTGTGTTTGTAGCCATACGCAATCGCCTGCATGTGCTTGGGCCTGACCTGAAGTCTGTCCAGAGCCT
GGCCACGGGCCCTGCTGGAGACCCTGGCTGCCAGACGTGTGCAGCCTGTGGCCAGGACCCACGGCCCTCCCGG
TGACACAGACACAAAGGTGCTGGTGTGGATCCCGCGCTGCCGTGGTCAAGTGTGGCTCCAGCCTGCAGGG
CCGCTGCTTCTGTCATGACCTAGAGCCCCAAGGGACAGCCGTGCATCTGGCAGCGCCAGCCTGCCTTCTCAGC
CCACCATAACCGGCCCGATGACTGCCCCGACTGTGTGGCCAGCCATTGGGCACCCGTGTAAGTGTGGTTGAGCA
AGGCCAGGCCTCCTATTTCTACGTGGCATCCTCACTGGACGCAGCCGTGGCTGCCAGCTTACGCCACGCTCAGT
GTCTATCAGGCCTCTCAAGGCTGACGCCTCGGGATTTCGACCCGGGCTTTGTGGCGTTGTGAGTGTGCCCAAGCA
TCTTGTCTCCTACAGTATTGAATACGTGCACAGCTTCCACACGGGAGCCTTCGTATACTTCTGACTGTACAGCC
GGCCAGCGTGACAGATATCCTAGTGCCCTGCACACAGCCTGGCACGGCTTAGCGCCACTGAGCCAGAGTTGGG
TGACTATCGGGAGCTGGTCTCGACTGCAGATTGCTCCAAAACGCAGGCGCCGGGGGGCCCCAGAAGCGGACA
GCCCTACCCTGTGTGCGGGTGGCCCACTCCGCTCCAGTGGGTGCCCAACTTGCCACTGAGCTGAGCATCGCCGA
GGGCCAGGAAGTACTATTTGGGGTCTTTGTGACTGGCAAGGATGGTGGTCTGGCGTGGGCCCCAACTCTGTCTG
CTGTGCCCTTCCCCATTGACCTGCTGGACACACTAATTGATGAGGGTGTGGAGCGCTGTTGTGAATCCCCAGTCCA
TCCAGGCCTCCGGCGAGGCCTCGACTTCTTCCAGTCGCCCAGTTTTCGCCCAACCCGCCTGGCCTGGAAGCCCT
CAGCCCCAACACCAGCTGCCGCCACTTCCCTCTGCTGGTCACTAGCAGCTTCTCAGTGTGGACCTATTCAATGG
GCTGTTGGGACCAGTACAGGTCACTGCATTGTATGTGACACGCCTTGACAACGTACAGTGGCACACATGGGCAC
AATGGATGGGCGTATCCTGCAGGTGGAGCTGGTCAAGTCACTAACTACTTGTGTATGTGTCCAACCTTCTCACT
GGGTGACAGTGGGCAGCCCGTGCAGCGGGATGTGAGTCTTGGGGACCACCTACTCTTTCCTCTGGGGACCA
GGTTTTCCAGGTACCTATCCAAGGCCCTGGCTGCCGCCACTTCTGACCTGTGGGCGTTGCCTAAGGGCATGGCA
TTTCATGGGCTGTGGCTGGTGTGGGAACATGTGGGCCAGCAGAAGGAGTGTCTGGCTCCTGGCAACAGGACCA
CTGCCCACCTAAGCTTACTGAGTTCCACCCCCACAGTGGACCTTAAGGGGCAGTACAAGGCTGACCCTGTGTGG
CTCCAACCTTCTACCTTACCCTTCTGGTCTGGTGCCTGAGGGAACCCATCAGGTCACTGTGGGCCAAAGTCCCTG
CCGGCCACTGCCCAAGGACAGCTCAAACTCAGACCAGTGGCCCGGAAAGACTTTGTAGAGGAGTTTGAGTGTGA
ACTGGAGCCCTTGGGCACCCAGGCACTGGGGCCTACCAACGTGAGCCTACCGTGACTAACATGCCACCGGGCAA
GCACCTCCGGGTAGACGGCACCTCCGTGCTGAGAGGCTTCTCTTTCATGGAGCCAGTGTGATAGCAGTGCAACC
CCTCTTTGGCCACGGGCAGGAGGCACCTGTCTCACTCTTGAAGGCCAGAGTCTGTCTGTAGGCACAGCCGGGC
TGTGCTGGTCAATGGGACTGAGTGTCTGCTAGCACGGGTGAGTGGGGGACGCTTTTATGTGCCACACCCCTGG
GGCCACGGTGGCCAGTGTCCCCCTTAGCCTGCAGGTGGGGGGTGGCCAGGTACCTGGTTCTGGACCTTCCAGTA
CAGAGAAGACCCTGTCTGTCTAAGCATCAGCCCCAACTGTGGCTACATCACTCCACATCACCATCTGTGGCCA
GCATCTAACTTCAGCATGGCACTTAGTGCTGTCTATTCATGACGGGCTTAGGGCAGTGGAAAGCAGGTGTGAGAG
GCAGCTTCCAGAGCAGCAGCTGTGCCGCTTCTGAAATATGTGGTCCGAGACCCCCAGGGATGGGTGGCAGGGAA
TCTGAGTGGCCGAGGGGATGGAGCTGCTGGCTTTACACTGCCTGGCTTTCGCTTCTACCCCCACCCATCCACC
CAGTGCCAACCTAGTTCCACTGAAGCCTGAGGAGCATGCCATTAAGTTTGAGTATATTGGGCTGGGCGCTGTGGC
TGACTGTGTGGGTATCAACGTGACCGTGGGTGGTGGAGCTGCCAGCACGAGTTCCGGGGGGACATGGTTGTCTG
CCCCCTGCCCCCATCCCTGCAGCTTGGCCAGGATGGTGGCCCATTCAGGTCTGCGTAGATGGTGAATGTATAT
CCTGGGTAGAGTGGTGGGCCAGGGCCAGATGGGGTCCACAGAGCACGCTCCTGGTATCCTGCTGCCTTTGCT
GCTGCTTGTGGCTGCACTGGCGACTGCACTGGTCTTCAGCTACTGGTGGCGGAGGAAGCAGCTAGTTCCTTCTCC
CAACCTGAATGACCTGGCATCCCTGGACCAGACTGCTGGAGCCACACCCCTGCCTATTCTGTACTCGGGCTCTGA
CTACAGAAGTGGCCTTGCACTCCCTGCCATTGATGGTCTGGATTCCACCACCTTGTGTCCATGGAGCATCCTTCTC
CGATAGTGAAGATGAATCCTGTGTGCCACTGCTGCGGAAAGAGTCCATCCAGCTAAGGGACCTGGACTCTGCGCT
CTTGGCTGAGGTCAAGGATGTGTGATTCCCCATGAGCGGGTGGTCAACCACAGTGACCGAGTCATTGGCAAGG
CCACTTTGGAGTTGTCTACCACGGAGAATACATAGACCAGGCCAGAAATCGAATCCAATGTGCCATGAAGTCACT
AAGTCGCATCACAGAGATGCAGCAGGTGGAGGCTTCTGCGAGAGGGGCTGCTCATGCGTGGCCTGAACCACCC
GAATGTGCTGGCTCTCATTGGTATCATGTTGCCACCTGAGGGCCTGCCCATGTGCTGCTGCCCTATATGTGCCA
CGGTGACCTGCTCCAGTTTATCCGCTCACCTCAGCGGAACCCACCGTGAAGGACCTCATCAGCTTTGGCCTGCA

4686/5332
FIGURE 4075B

GGTAGCCCGCAGCATGGAGTACCTGGCAGAGCAGAAGTTTGTGCACAGGGACCTGGCTGCGCGGAACCTGCATGCT
GGACGAGTCATTACAGTCAAGGTGGCTGACTTTGGTTTGGCCCGCGACATCCTGGACAGGGAGTACTATAGTGT
TCAACAGCATCGCCACGCTCGCCTACCTGTGAAGTGGATGGCGCTGGAGAGCCTGCAGACCTATAGATTTACCAC
CAAGTCTGATGTGTGGTCATTTGGTGTGCTGCTGTGGGA¹ACTGCTGACACGGGGTGCCCCACCATAACCGCCACAT
TGACCCCTTTTGACCTTACCCACTTCCTGGCCCAGGGTCGGCGCCTGCCCCAGCCTGAGTATTGCCCTGATTCTCT
GTACCAAGTGATGCAGCAATGCTGGGAGGCAGACCCAGCAGTGCGACCCACCTTCAGAGTACTAGTGGGGGAGGT
GGAGCAGATAGTGTCTGCACTGCTTGGGGACCATTATGTGCAGCTGCCAGCAACCTACATGAACTTGGGCCCCAG
CACCTCGCATGAGATGAATGTGCGTCCAGAACAGCCGCAGTTCTCACCCATGCCAGGGAATGTACGCCGGCCCCG
GCCACTCTCAGAGCCTCCTCGGCCCACTTGA²CTTAGTTCTTGGGCTGGACCTGCTTAGCTGCCTTGAGCTAACCC
CAAGCTGCCCTCTGGGCCATGCCAGGCCAGAGGGCAGTGGCCCTCCACCTTGTTCTGCCCCTTTAACTTTCAGAGG
CAATAGGTAAATGGGGCCCATAGGTCCCTCACTCCACAGAGTGAGCCAGTGAGGGCAGTCCTGCAACATGTATT
TATGGAGTGCCTGCTGTGGACCCTGTCTTCTGGGCACAGTGGACTCAGCAGTGACCACACCAACACTGACCCTTG
AACCAATAAAGGAACAAATGACTATTAAAGCAC

4687/5332
FIGURE 4076

GGCCGGCGAAAGCTATCTTCCTGCACCGGCGGCCGGGTGAGGGCGGTGGGAGGGAGCGGTGCCTGCGCTGTGGCC
ATGTCTGTGTACGCAGGGGGCGGGGCCCCGCGAAGCTGTGCCCTCAGGCCGGCCCCGGCCGGACACCCTTACCC
CTCCATGGGTCCGGCAGAGGGCAGTGACCGGCACCTTCTGTGCGTCCCTGGACTCCTCTGAGAAACAGGAGAGCTC
AAAGGATGGCTACTGACATGCAGAGGAAGAGAAGCAGCGAATGCCTTGATGGCACATTGACTCCTTCTGATGGAC
AGAGTATGGAGAGAGCTGAGAGCCCCACACCAGGAATGGCCCAGGGAATGGAGCCAGGTGCGGGCCAGGAGGGTG
CCATGTTTCGTCCATGCCCCGTTCCCTACGAGGACCTGACTGAGTCAGAGGATGGGGCAGCTTCTGGGGACAGCCACA
AGGAGGGTACCAGGGGTCCCCCGCGCTGCCTACAGACATGCCCCAGATCAGCCAGGACTTTAGCGAGCTAAGCA
CCCAGCTGACGGGTGTGGCCCCGGGACCTGCAGGAGGAGATGCTGCCAGGAAGCTCTGAGGATTGGCTGGAACCCC
CAGGGGCAGTTGGGCGACCAAGCAGAGCCCCCAGGGAGGGCACAACCGAGGGGGATGAGGAGGATGCCACGG
AGGCATGGCGCCTGCACCAAGCATGTCTTTGTGCTGAGTGAGGCAGGGAAGCCTGTGTACTCCCGCTATGGGT
CTGAGGAGGCACCTTCCAGCACTATGGGTGTTATGGTGGCCCTGGTGTCTTCTGAGGAGCAGACAAGAAGCCCA
TCCGCTCCATCCATGCAGATGGCTACAAGGTAGTATTTCGTGCGCCGGAGCCCGCTGGTGCTAGTGGCGGTGGCTC
GTACGCGGCAGTCGGCACAAGAGCTGGCGCAGGAGCTGCTCTACATCTACTACCAGATCCTAAGCCTTCTTACCG
GTGCGCAGCTGAGCCACATCTTCCAGCAGAAGCAGAACTATGATTTGCGGCGCCTACTCTCGGGCTCAGAGCGCA
TCACCGACAACCTGCTGCAGCTCATGGCACGAGACCCCAGCTTCCCTGATGGGGGCGGCACGGTGCCTGCCCCCTGG
CGGCGGCCGTGCGCGACACTGTGAGCGCCAGCCTGCAGCAGGCGCGTGCAGCGCAGCCTGGTCTTCTCCATCCTGC
TGGCCCGCAACCAGCTCGTGGCACTCGTGCGCCGAAAGGACCAATTTCTGCACCCCATCGACCTGCACCTGCTCT
TCAACCTCATTAGTTCCCTCCTCGTCTTTTCGCGAGGGCGAGGCCTGGACGCCCCGTGTGCTGCCCCAAATTCAACG
CAGCCGGCTTCTTCCACGCACACATCTCTTACCTAGAGCCTGACACTGACCTCTGCCTGCTGCTTGTCTCCACTG
ACCGTGAGGACTTCTTTGCAGTCTCTGACTGCCGCCGCCGCTTCCAGGAGCGCCTTCGCAAGCGCGGAGCCACC
TGGCCCTGCGAGAGGCACTGCGCACACCCTACTACAGCGTTGCCCAAGTGGGCATCCCTGACCTGCGTCACTTCC
TCTATAAGTCAAAGAGCTCGGGACTCTTACCAGCCCTGAGATTGAGGCCCCATACACCAAGTGAAGAGGAGCAGG
AGCGGCTGCTGGGCCTCTACCAGTACTTGACAGTCGTGCCACAATGCCTCTCGCCCACTCAAGACCATTACT
ACACGGGCCCCAACGAGAACCTCCTGGCCTGGGTGACAGGCGCCTTTGAGCTCTACATGTGTTACAGCCCCCTGG
GGACCAAGGCGTCAGCCGTGAGTCCATCCATAAGCTGATGCGCTGGATCCGCAAAGAGGAAGACCGCCTCTTCA
TTCTCACGCCCCCTCACCTATTGATGGGAATGTGTGCGGGCTCAGCCTTCTTGACACACTAGGTGTGGGAAGCCA
TAGGAGCCTCCAGATGGGGGCTGGCCTCTCTTGCCAGCCAGCGGGCAGGACTGTGGGTGGTGAATGCATTAA
AGTGCTTTGGGG

4688/5332
FIGURE 4077A

AGTAAGAGTCTGCGGGACCGGCAGCTGTACTTCATCTCCCAGCGGGCCGAGCGCTGAAGGCAGCGGGCGCGCGCC
TTTGTGGTAGCAGTGGCCCCGCGCGGAGGAAGTTCCGGTGTCCGCGGCGCTGGGTCCGTGGCGGAGGCTGAGGAG
AAGGAGGAGCGGGCCGTGGAGGCTTCGCCGCTAGGTACTGCTATAACCAGAATTTGGTAGAAAAAGGATTTACT
TGTGGGGCCCTCTTGATAAAAAGAGATGTGGGGGGATTCTCGACCTGCTAACAGAACTGGACCTTTTCGTGGGA
GCCAAGAAGAAAGGTTTGCTCCCGGTGGAACAGGGATTATCCTCCTCCTCCCTTAAGAGTCATGCTCAAGAGA
GACACTCTGGCAACTTTCTGGCAGAGATTCACCTCCCTTTGATTTCCAGGGGCATTCCGGGCCCTCCTTTTGCA
ATGTAGAGGAGCATTCTTTAGCTATGGAGCTAGAGACGGACCGCATGGTGACTATCGAGGAGGGGAGGGACCTG
GACATGATTTAGGGGGGGAGATTTTCTGCTTCTGATTTCCAGAGCAGAGATTCATCACAGTTGGACTTCAGGG
GTAGGGACATACATTCTGGGGATTTTCGGGATAGAGAAGGACCACCTATGGACTATAGGGGTGGAGATGGTACTT
CTATGGATTATAGAGGTAGGGAGGCACCTCATATGAACACAGAGACAGGGATGCTCACGCTGTTGACTTCAGAG
GTAGGGATGCTCCTCCATCTGACTTCAGGGGCCGGGGCATTATGATTTAGATTTTAGAGGCCGGGATGGATCCC
ATGCAGATTTTAGGGGAAGGGATTTATCAGATTTGATTTTAGGGCCAGAGAACAGTCCCGTTCTGATTTTAGGA
ATAGAGATGTATCTGTGACTTTAGAGACAAAGACGGAACACAAGTAGACTTTAGAGGCCGAGGTTTCAGGTA
CTACTGATCTAGGACTTTAGGGACAGGGATACGCCACATTCAGATTTTCAGAGGTAGACACCGATCTAGGACTGATC
AGGATTTTAGGGGCAGAGAGATGGGATCTTGATGGAATTTAAAGATAGGGAGATGCCCCCTGTGGATCCAAATA
TTTTGGATTACATTCAGCCCTCTACACAAGATAGAGAACATTCTGGTATGAATGTGAACAGGAGAGAAGAATCCA
CACATGACCATACGATAGAAAGGCCTGCTTTTGGCATTTCAGAAGGGAGAATTTGAGCATTTCAGAAACAAGAGAAG
GAGAAACACAAGGTGTAGCCTTTGAACATGAGTCTCCAGCAGACTTTTCAGAACAGCCAAAGTCCAGTTCAAGACC
AAGATAAGTCACAGCTTTCTGGACGTGAAGAGCAGAGTTCAGATGCTGGTCTGTTTAAAGAAGAAGGCGGTCTGG
ACTTTCTTGGGCGGCAAGACACCGATTACAGAAGCATGGAGTACCGTGATGTGGATCATAGGCTGCCAGGAAGCC
AGATGTTTGGCTATGGCCAGAGCAAGTCTTTTCCAGAGGGCAAACTGCCCGAGATGCCCAACGGGACCTTCAGG
ATCAAGATTATAGGACCGGCCAAAGTGAGGAGAAACCCAGCAGGCTTATTTCGATTAAGTGGGGTACCTGAAGATG
CCACAAAAGAAGAGATTCTTAATGCTTTTCGGACTCCTGATGGCATGCCTGTAAAGAACTTCAGTGAAGGAGT
ATAACACAGGTTACGACTATGGCTATGTCTGCGTGGAGTTTCTACTCTTGAAGATGCCATCGGATGCATGGAGG
CCAACCAGGGAACTCTAATGATCCAGGACAAAGAAGTTACCCTGGAGTATGTATCAAGCCTGGATTTTGGTACT
GCAAACGATGTAAGGCAAAACATTGGTGGGCACCGATCTTCTGTTTATTCTGCAAGAACCCTAAGAGAAGTGACAG
AGGCCAAGCAAGAATTAATAACCTACCTCAGCCTCAGAAAACATCCATACCAGCACCATTGGAAGAACAGCCCA
ACCAGCCCCTAAGACCAGCTGATAAGGAACCTGAACCCAGGAAGAGGGGAAGAAGGCCAAGAGTCACGCTTAGGAC
ATCAAAAGAGAGAAGCAGAAAGGTATCTGCCTCCTTCTCGAAGGGAAGGGCCAACCTTTCCGAAGAGACCGAGAGA
GGGAGTCATGGTCTGGAGAGACAGCCAGGATGGAGAGAGCAAACTATCATGCTAAAGCGTATCTATCGTTCCA
CACCACCTGAGGTGATAGTGAAGTGCTGGAGCCCTATGTCGCCCTTACTACTGCCAACGTCCGTATCATCAAGA
ACAGAACAGGCCCTATGGGGCATACCTATGGCTTTATTGACCTCGACTCCCATGCGGAAGCTCTTCGTGTGGTGA
AGATCTTACAGAACCTTGATCCGCCATTTAGCATTGATGGGAAGATGGTAGCTGTAAACCTGGCCACTGGAAAAC
GAAGAAATGATTCTGGGGACCATTCGTGACCACATGCATTACTATCAGGGTAAAAAATATTTCCGAGATAGGAGGG
GAGGTGGCAGAAATTCAGACTGGTCTTCAGATACAAATCGACAAGGACAACAGTCATCATCTGACTGCTACATAT
ATGATTCTGCTACTGGCTACTATTATGACCCCTTGGCAGGAACCTTATTATGACCCCAATACCCAGCAAGAAAGTCT
ATGTGCCCCAGGATCCTGGATTACCTGAGGAAGAAGAGATCAAGGAAAAAACCACAGTCAAGGAAAGTCAA
GTAGCAAGAAGGAAATGTCTAAAAGAGATGGCAAGGAGAAAAAGACAGAGGAGTGACGAGGTTTCAGGAAAATG
CCAGTGAAGGGAAGGCCCTGCAGAAGACGTCTTTAAGAAGCCCCTGCTCCTACTGTGAAGAAGGAAGAGAGTC
CCCCTCCACCTAAAGTGGTAAACCCACTGATCGGCCTCTTGGGTGAATATGGAGGAGACAGTGAATGAGGAGG
AAGAAGAGGAGGAACAGACCCCTCCCCACAGCCCCGCACAGCACAGCCCCAGAAGCGAGAGGAGCAAACCAAGA
AGGAGAATGAAGAAGACAACTCACTGACTGGAATAAACTGGCTTGTCTGCTTTGCAGAAGGCAGTTTCCCAATA
AAGAAGTTCTGATCAAACACCAGCAACTGTGACACCTGCACAAGCAAAACCTGGAAATCCACCGGAAGATAAAAC
AGTCTGAGCAGGAGCTAGCCTATCTGAAAGGAGAGAACGAGAGGGGAAAGTTTAAAGGAAGAGGAATGATCGCA
GGGAAAAGCTCCAGTCTTTTGAATCTCCAGAAAGGAAACGGATTAAGTACTCCAGGGAACTGACAGTATCGTA
AACTTGTTGATAAAGAAGATATCGACACTAGCAGCAAGGAGGCTGTGTCCAACAGGCTACTGGCTGGAGGAAAG
GGACAGGCCTGGGATATGGCCATCCTGGATTGGCTTCATCAGAGGAGGCTGAAGGCCGGATGAGGGGCCCCAGTG
TTGAGCCTCAGGAAGAACCAGCAAAAGACAGTCCAACGAGACTTATCGAGATGCTGTTTGAAGAGTCATGTTTG

4689/5332
FIGURE 4077B

CTCGATATAAAGAACTCGATTAAGAAAGGAGACAAGTTCCATGGGATACAACCTCCCTCTGTTTTGTTTGCTC
TCCTTTTCTTTTGTTACTGTTCTTGCTGCTAGAACTTTTTTAAATAAACTTTTTTCAATGTG

4690/5332
FIGURE 4078

ACTGTGGGTAGGAGACGGCCGTCGGCGGAGGCGCCATTTTGTGTAGCCGCCGAACCTTGTGGAGGTTCTGGGGC
GCAGAACCGCTACTGCTGCTTCGGTCTCTCCTTGGGAAAAAATAAAATTTGAACCTTTTGGAGCTGTGTGCTAAA
TCTTCAGTGGGACAATGGGTTTCAGACAAAAGAGTGAGTAGAACAGAGCGTAGTGGAAGATACGGTTCCATCATAG
ACAGGGATGACCGTGATGAGCGTGAATCCCGAAGCAGGCGGAGGGACTCAGATTACAAAAGATCTAGTGATGATC
GGAGGGGTGATAGATATGATGACTACCGAGACTATGACAGTCCAGAGAGAGAGCGTGAAAGAAGGAACAGTGACC
GATCCGAAGATGGCTACCATTGAGTGGTGACTATGGTGAGCACGACTATAGGCATGACATCAGTGACGAGAGGG
AGAGCAAGACCATCATGCTGCGCGGCCTTCCCATCACCATCACAGAGAGCGATATTCGAGAAATGATGGAGTCCT
TCGAAGGCCCTCAGCCTGCGGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGTGGTTTCGCCTTCGTGG
AGTTTTATCACTTGCAAGATGCTACCAGCTGGATGGAAGCCAATCAGAAAAAGTTGGTGATTCAAGGAAAGCACA
TTGCAATGCATTATAGCAATCCAGACCTAAGTTTGAAGATTGGCTTTGTAACAAGTGCTGCCTTAACAATTTCA
GGAAAAGACTAAAAATGCTTCCGATGTGGAGCAGACAAGTTTACTCTGAACAGGAAGTGCCCTCCTGGAACACAG
AGTCGGTTTCAGTCTGTGGATTACTACTGTGATACGATCATTCTTCGGAACATAGCTCCGCACACTGTGGTGGATT
CCATCATGACAGCACTGTCTCCTTACGCGTCTTTAGCTGTCAATAACATCCGCCTCATAAAAGACAAACAGACCC
AGCAGAACAGAGGCTTCGCATTTGTGCAGCTGTCTCTGCAATGGATGCTTCTCAGCTGCTTCAGATATTACAGA
GTCTCCATCCTCCTTTGAAAATTGATGGCAAACTATTGGGGTTGATTTGCAAAAAGTGCCAGAAAAGACTTGG
TCCTCTCAGATGGTAACCGCGTCAGCGCCTTCTCTGTAGCTAGTACGGCTATTGCTGCTGCTCAGTGGTCAATCA
CCCAGTCTCAAAGTGGTGAAGGAGGAGTGTTGACTACAGTTATCTGCAACCAGGTCAAGATGGCTATGCCCAAT
ATGCTCAGTATTACAGGATTATCAGCAGTTTTATCAACAACAAGCTGGAGGATTGGAATCTGATGCATCATCTG
CATCAGGCACAGCAGTGACCAACCACTCAGCGGCTGTAGTGTCCAGAGTCCCTCAGCTGTATAATCAAACCTCCA
ATCCACCTGGCTCTCCGACTGAGGAAGCACAGCCTAGCACTAGCACAAAGTACACAGGCCCCAGCCGCTTCCCTTA
CTGGTGTAGTTTCTGGTACCAAATATGCAGTACCTGACACGTCCACTTACCAGTATGATGAATCTTCAGGATATT
ACTATGATCCGACAACAGGGCTCTATTATGACCCCACTCGCAATACTACTATAATTCCTTGACCCAGCAGTACC
TTTACTGGGATGGGGAAAAAGAGACCTACGTGCCAGCTGCAGAGTCTAGCTCCCACCAGCAGTCGGGCCTGCCTC
CTGCAAAAAGAGGGGAAAGAGAAGAAGGAGAAACCCAAAGAGCAAAAACAGCCCAGCAGATTGCCAAAGACATGGAAC
GCTGGGCTAAGAGTTTGAATAAGCAGAAAGAAAACCTTTAAAAATAGCTTTTACGCTGTCAATTCCTTGAGGGAAG
AAGAAAGGAGAGAATCTGCTGCAGCAGACGCTGGCTTTGCTCTCTTTGAGAAGAAGGGAGCCTTAGCTGAAAGGC
AGCAGCTCATCCAGAATTGGTGCGAAATGGAGATGAGGAGAATCCCTCAAAGGGGTCTGGTTGCTGCTTACA
GTGGTGACAGTGACAATGAGGAGGAGCTGGTGAGAGACTTGAGAGTGAGGAAGAGAAGCTAGCTGACTGGAAGA
AGATGGCCTGTCTGCTCTGCCGGCGCCAGTTCCCGAACAAAGATGCCCTAGTCAGGCACCAGCAACTCTCAGACC
TTCACAAGCAAAACATGGACATCTACCGACGATCCAGGCTGAGCGAGCAGGAGCTGGAAGCCTTGAGCTAAGGG
AGAGAGAGATGAAATACCGAGACCGAGCTGCAGAAAGACGGGAGAAGTACGGCATTCCAGAACCTCCAGAGCCCA
AGCGCAAGAAGCAGTTTGATGCCGGCACTGTGTATGTGATGTGCACATTTTCCAGTTCCGTAAGCTGGGGCCCTGG
CTGTTTTAAGTAACTGTGTGTTTGCCACTGGCAGGAATTACGAGCAACCCACCAAAGATGGCATTGACCACAGTA
ACATTGGCAACAAGATGCTGCAGGCCATGGGCTGGCGGAAGGCTCTGGCTTGGGACGAAAGTGTCAAGGCATTA
CGGCTCCCATTGAGGCTCAAGTTCCGGCTAAAGGGAGCTGGCCTAGGAGCCAAAGCGAGCGCATATGGTTTGTCCG
GCGCCGATTCTACAAAGATGCTGTCCGGAAGCCATGTTTGCCCGGTTCACTGAGATGGAGTGAGAGAGAGAGA
GAGAGAGAGATGACAAGGAGCACAAGAAGTGGTCCATCTCCCGAATTCTGCTGTTACCGCCTGTCTTTAAGGGC
ATGCCTTGCTGCTGTTAATAGATCTTAGGGTGAACCACTTCATTCTGCAGGGTTCTCCCTCCACCTTAAAGAAGT
TCCCCTTATGTGGGTTGCCTGGTGAATGGCCTTCCCTTCCCGCCAGAGGGCTTGTGAACAGACCGGAGAGGACAGT
GGATTGTTTATACTCCAGTGTACATAGTGAATGTAGCGTGTTTACATGTGTAGCCTATGTTGTGGTCCATCAGC
CCCTCACATTCTAGGGGTTTGAGATGCTGTAGGTGGTATGTGACACCAAAGCCACCTCTGTCAATTTGTTGTGAT
GTCTTTTCTTGGCAAAAGCCTTGTGTATATTGTATATTACACATTTGTACAGAATTTTGAAGATTTTCAGTCT
AGTTGCCAAATCTGGCTCCTTTACAAAAGAAATACCTTGAG

4691/5332
FIGURE 4079

GCCCAGGCCCCGCCGCTGCGGAAGAGGTTTCTAGAGAGTGGAGCCTGCTTCCTGGGCCCTAGGCCCTCCCACAA
TGCTTGTGCGCGGTCTTCTTCTGCGGCTTCCCTACTGACCGGGCCTGGCCATCCTTCCCCACCCAGGACCACC
TCCCGGCCACGCCCCGGGTCCGGCTCTCATTCAAAGAGCTGAAGGCCACAGGCACCGCCCACTTCTTCAACTTCC
TGCTCAACACAACCGACTACCGAATCTTGCTCAAGGACGAGGACCACGACCGCATGTACGTGGGCAGCAAGGACT
ACGTGCTGTCCCTGGACCTGCACGACATCAACCGGAGCCCTCATTATACACTGGGCAGCCTCCCCACAGCGCA
TCGAGGAATGCGTGCTCTCAGGCAAGGATGTCAACGGCGAGTGTGGGAACCTTCGTGAGGCTCATCCAGCCCTGGA
ACCGAACACACCTGTATGTGTGCGGGACAGGTGCCTACAACCCCATGTGCACCTATGTGAACCGCGGACGCCGCG
CCCAGGCCACACCATGGACCCAGACTCAGGCGGTGAGAGGCCGCGGCAGCAGAGCCACGGATGGTGCCCTCCGCC
CGATGCCCCACAGCCCCACGCCAGGATTACATCTTCTACCTGGAGCCTGAGCGACTCGAGTCAGGGAAGGGCAAGT
GTCCGTACGATCCCAAGCTGGACACAGCATCGGCCCTCATCAATGAGGAGCTCTATGCTGGTGTGTACATCGATT
TTATGGGCACTGATGCAGCCATCTTCCGCACACTTGGAAAGCAGACAGCCATGCGCACGGATCAGTACAACCTCC
GGTGGCTGAACGACCCGTCGTTTCATCCATGCTGAGCTCATTCTGACAGTGCAGGAGCGCAATGATGATAAGCTTT
ACTTCTTCTTCCGTGAGCGGTGCGCAGAGGCGCGCAGAGCCCCGCGGTGTACGCGCATCGGGCGCATTTGCC
TGAACGATGACGGTGGTCACTGTTGCCTGGTCAACAAGTGGAGCACATTCTGAAGGCGCGGCTCGTCTGCTCTG
TCCCGGGCGAGGATGGCATTGAGACTCACTTTGATGAGCTCCAGGACGTGTTTGTCCAGCAGACCCAGGACGTGA
GGAACCTGTCAATTACGCTGTCTTTACCTCCTCTGGCTCCGTGTTCCGAGGCTCTGCCGTGTGTGTCTACTCCA
TGGCTGATATTGCGATGGTCTTCAACGGGCCCTTTGCCACAAAGAGGGGCCCACTACCAGTGGATGCCCTTCT
CAGGGAAGATGCCCTACCCACGGCCGGGCACGTGCCCTGGTGGAACTTCACGCCATCTATGAAGTCCACCAAGG
ATTATCCTGATGAGGTGATCAACTTCATGCGCAGCCACCCACTCATGTACCAGGCCGTGTACCCTCTGCAGCGGC
GGCCCCCTGGTAGTCCGCACAGGTGCTCCCTACCGCCTTACCCTATTGCCGTGGACCAGGTGGATGCAGCCGACG
GGCGCTATGAGGTGCTTTTCTGGGCACAGACCGCGGGACAGTGCAGAAAGTCATTGTGCTGCCCAAGGATGACC
AGGAGTTGGAGGAGCTCATGCTGGAGGAGGTGGAGGTCTTCAAGGATCCAGCACCCGTCAAGACCATGACCATCT
CTTCTAAGAGGCAACAACCTCTACGTGGCGTCAGCCGTGGGTGTACACACCTGAGCCTGCACCGCTGCCAGGCGT
ATGGGGCTGCCTGTGCTGACTGCTGCCTTGCCCGGGACCCTTACTGTGCCTGGGATGGCCAGGCCTGCTCCCGCT
ATACAGCATCCTCCAAGAGGCGGAGCCGCGGCAGGACGTCCGGCACGGAACCCCATCAGGCAGTGCCGTGGGT
TCAACTCCAATGCCAACAAGAATGCCGTGGAGTCTGTGCAGTATGGCGTGGCCGGCAGCGCAGCCTTCTTGAGT
GCCAGCCCCGCTCGCCCCAAGCCACTGTTAAGTGGCTGTTCCAGCGAGATCCTGGTGACCGGCGCCGAGAGATT
GTGCAGAGGACCGCTTCTGCGCACAGAGCAGGGCTTGTGCTCCGTGCACTGCAGCTCAGCGATCGTGGCCTCT
ACTCCTGCACAGCCACTGAGAACAACCTTTAAGCACGTGCTCACACGAGTGCAGCTGCATGTACTGGGCCGGGACG
CCGTCCATGTGCCCTCTTCCCACCACTGTCCATGAGCGCCCCGCCACCCCCAGGCGCAGGCCCCCAACGCCTC
CTTACCAGGAGTTAGCCCAGCTGCTGGCCCAGCCAGAAGTGGGCCTCATCCACCAGTACTGCCAGGGTTACTGGC
GCCATGTGCCCCCAGCCCCAGGGAGGCTCCAGGGGCACCCCGGTCTCCTGAGCCCCAGGACCAGAAAAGCCCC
GGAACCGCCGACCAACCTCCGGACACATGAGGCGAGCTGCCTGTGCCTGCCATGGGCCAGCCTAGCCCTTGTC
CCTTTTAATATAAAAAGATATATATATATATATATATATA

CCGAGTGTCTTCCCGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTGCGGCGGGGCCGAGCCGGGCCGTGGGCCGT
GTGGGGGCCGGGCGGCGCGGGCCGGCGGACGGCGGGATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGCGG
CCGAGCGCTCTAAGATGATCGACAAGAACCTGCGGGAGGACGGAGAGAAGGCGGCGCGGGAGGTGAAGTTGCTGC
TGTGGGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCG
AGGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGCAACACCATTCCAGTCCATCATGGCCATTGTCAAAGCCA
TGGGCAACCTGCAGATCGACTTTGCCGACCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCCTGCA
CCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGC
AGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTA
TTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGGAGA
CACACTTCACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGGTCTGAGCGGAAGAAGTGGA
TCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGTCTAGCTGAGG
ACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTCGATAGCATCTGCAACAACAAGTGGTTCACAGACA
CGTCCATCATCTCTTCTTCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCT
TCCCTGAGTACACAGGGGCCAACAAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATA
AGCGCAAAGACACCAAGGAGATCTACACGCACTTCACGTGCGCCACCGACACCAAGAACGTGCAGTTCTGTGTTG
ACGCCGTACCGATGTGCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTCTGAGGGGGCAGCGGGCCTGGCG
GGATGGGCCACCGCGACTTTGTACCCCCCAACCCCTGAGGAAGATGGGGGCAAGAAGATCACGCTCCCCGCTT
TTCCCCCGCCGCTTTTCTCTCTTTCTCTCTTTGTTCTCAGTCCCCCTGTCCCCTCAGCTCCAGACGTAGGGG
AGGGGTTGCCACAGGCCTCCCTGTTTGAAGCCTGCCCTTGCTGAGATGCTGGTAATGGCCATGGTACCCCTTC
TGGGCATCTGTTCTGGTTTTTAAACCATTTGTCTTGTTCTGTGATGAGGGGAGGGGGGCACATGCTGAGTCTCCCAA
GGCTGCGTCTGGAGGGGCCCTGCTTCTCCAGCCTGGACCCCCAGCTTTGCCCAACACCAGCCCCTGCCCCAGCC
CAAGTCCAAATGTTTACAGGGAGCCTCCTGCCAGTCCCCCAACCCAGCCGCTCGGAGGCCCAAGGAAAAAG
CACAAGAAGCGTGAGACGCCACCATTCCTGGAAACCACAGTCC

4693/5332
FIGURE 4081

TCTGTGATTGTGGCCAGGCGGGGCACCCCTCGGAGGGGAGGGTTCGGAAGTGGAAATGCGACCCCCAGCCTCTTTC
CCCTAGGGGCTGTAATCTGATCCCTGGGGACTCCCCCCTAGCCTCCCGCCCTCGCCCTCACTGCTGACTCCTCT
TCCAGATCCTGGGGCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACACCCGCTGAACCTGAGCACCCCTG
AGCTGCTGAGATGGGGCGGGCCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTCTGGGCAGTGGGGCTGGG
GAGTGCCGCCCCCAGCCCCACGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTTC
AGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGAG
AACCATGTGGCCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAGAAGCTGGCCTGGCCGGCCCCCTGTGGAA
TGGCGAGAGGAGTGAACCTGGGCAGGGAAGGACATTGGTACTGAGTGCAATGAACCTTCGTGAAGTTGCTGCATGCC
TACAACCGCACCCATTGTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGTGCCTTTGTGGAAGTGGGGCCAC
CGGCAGAGGAGCCCCGTCTCCGGCTGGACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCTTATGACCCC
AGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGAGAC
TTTACCATCTTTTCGACAGCCTAGGGCAACGTCCAAGTCTCCGAACAGAGCCACACGACTCCCGCTGGCTCAATGAG
CCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAACCCAGACGACGACAAAATCTACTTCTTCTTTCGT
GAGACGGCGGTAGAGGCGGCGCCGGCACTGGGACGCCTGTCCGTGTCCCGCGTTGGCCAGATCTGCCGGAACGAC
GTGGGCGGCCAGCGCAGCCTGGTCAACAAGTGGACGACGTTCTGTAAGGCGCGGTGGTGTGCTCGGTGCCCGGC
GTGAGGGGCGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGTCTCGCGGGACCACCGGACCCCGCTG
CTCTATGCCGTCTTCTCCACGTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAACGACGTG
CGCCGGGCTTCTTGGGACCCTTTCACACAAGGAGGGGGCCATGCACCAGTGGGTGTACATACCAGGGTCGCGTC
CCCTACCCGCGGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTCCACCAAGGACTTCCAGACGAT
GTATCCAGTTTGGCGGAACCAACCCCTCATGTACAACCTCTGTCTGCCACTGGGGGGCGCCCTCTTTTCTTA
CAAGTTGGAGCCAATTACACCTTCACTCAAATTGCCGCGGACCGGGTTGCAGCCGCTGACGGACACTATGACGTC
CTCTTCATTGGCACAGACGTTGGCACGGTGCTGAAGGTGATCTCGGTCCCCAAGGGCAGTAGGCCCAGCGCAGAG
GGGCTGCTCCTGGAGGAGCTGCACGTGTTTGAAGACTCGGCCGCTGTACACAGCATGCAAATTTCTTCCAAGAGG
CACCAGCTGTACGTAGCCTCGCGGAGCGCGGTGGCCAGATCGCGTTGCACCGCTGCGCTGCCACGCGCGCTC
TGCACCGAATGCTGTCTGGCGCGTGACCCCTACTGCGCCTGGGACGGGGTTCGCGTGCACGCGCTTCCAGCCCAGT
GCCAAGAGGCGGTTCCGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCGT
CCCGCGCTGCTGGAACACAAGGTGTTCCGGCGTGGAGGGCAGCAGCGCCTTTCTGGAGTGTGAGCCCCGCTCGCTG
CAGGCGCGCGTGGAGTGGACTTTCAGCGCGCAGGGGTGACAGCCCACACCCAGGTGCTGGCAGAGGAGCGCACC
GAGCGCACCGCCCGGGGACTACTGCTGCGCAGGCTGCGGCGCCGGGACTCGGGCGTGTACTTGTGCGCCGCGTC
GAGCAGGGCTTTACGCAACCCTGCGTGCCTGTGCTGCACGTGTTGAGTGCTACGAGGCCGAACGACTGGCG
CGGGCCGAGGAGGCTGCGCCCGCGCGCCGGGCCCAAACCTCTGGTACCGGGACTTTCTGCAGCTGGTGGAG
CCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCCGCAGCCTGCGCTGCAGTCACTGCCCCTGGAG
TCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTGCGCTGAGCGGGGGCCGCGCAGCGCAACG
CACTGGTGAACAGACTGTCCCCACGCCGGGAACCAAGCAGGAGACGACAGGCGAGAGAGGAGCCAGACAGACCCT
GAAAGAAGGACGGGTGGGGCCGGGCACATTGGGGGTACCGGCCGATGGAGACACCAACCGACAGGCCCTGGC
TGAGGGCAGCTGCGCGGGCTTATTTATTAACAGGATAACCTTGAATGTAGCAGCCCCGGGAGGGCGGCACAGGT
CGGGCGCAGGATTACGCCGAGGGAAGGGACGGGGAAGCCGAGCTCCAGAGCAACGACCAGGGCCGAGGAGGTGC
CTGGAGTGCCCAACCTGGGAGACAGACCCACCTCCTTGGGTAGTGAGCAGTGAGCAGAAAGCTGTGAACAGGCT
GGGCTGCTGGAGGTGGGGCGAGGACGGCCGACTGTACTAAAGTAACGCAATAAACGCATTATCAGCCA

4694/5332
FIGURE 4082

ATGCCTCGCGCCCGTAAGGGCAACACGCTCCGGAAGGGTGGTCAGCGCCGTGGAGGAGGTGCCCGGAGCAGTGCC
CAAGCTGACTCGGGTTCCAGTGACGATGAGGCAGCCAGTGAGGCCCGCAGCACCGCCAGTGAATGCCCCAGCCTT
CTCAGCACCACTGCAGAGGACAGCCTTGGGGGGGATGTCTGGATGAGCAGGGCCAGCAGGAAGACCTTGAGGAA
AAGCTGAAGGAGTATGTGGACTGTCTCACAGACAAGAGTGCCAAGACCCGGCAGGGTGCTCTTGAGAGCCTGCGC
CTGGCCCTAGCGTCCCGCTACTCCCCGACTTCTTGCTGGAGCGCCGCTCACGCTAGCCGATGCCCTGGAAAAG
TGCCTCAAGAAAGGGAAGGGCGAGGAACAAGCCCTGGCTGCTGCTGTGCTAGGCCTGCTCTGCGTGACAGCTGGGC
CCTGGACCTAAGGGTGAGGAGCTGTTTCACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAGCACAGCT
AGCCCTGCTGCCCCGGCTCCACTGTGCTTCTGCCCTTGGCCTGGGCTGCTACGTGGCTGCCGCTGACATCCAGGAC
CTGGTCTCTTGCCCTGCCTGCTTAGAAAGTGTTTTAGCCGGTCTATGGCTTGGGGGGCAGCTCCACAAGTCCT
GTGGTTCCCTGCCAGCCTGCACGGCCTGCTCTCTGCTGCCCCTGCAGGCCTGGGCATTGCTGCTCACCATCTGCCCT
AGCACCCAAATCAGCCACATCCTTGACAGGCAGCTGCCCCGGCTGCCCCAGCTCTTGTCAGTGAAAGTGTAAC
CTGCGGATCGCTGCCGGTGAAACCATTGCACTGCTCTTTGAGCTTGCCCGGGACCTTGAGGAGGAGTTTGTTCAC
GAGGACATGGAGGCCCTCTGCAGTGCTCTGCGCACTCTGGCCACTGACAGTAACAAGTACCGTGCCAAGGCTGAT
CGTCGGCGCCAGCGCTCTACTTTCCGCGCCGTGCTGCACTCCGTGGAGGGCGGTGAATGCGAAGAAGAGATAGTG
CGCTTCGGCTTTGAGGTGCTCTACATGGACAGCTGGGCTCGGCACCGGATCTACGCTGCCTTCAAGGAAGTGCTG
GGTTCGGGCATGCACCACCACCTCCAGAACAATGAGOTACTCCGTGACATCTTTGGCCTGGGCCCTGTGCTGTTG
CTGGATGCCACTGCCCTGAAGGCCTGCAAGGTTCCACGCTTTGAGAAGCACCTGTACAATGCTGCTGCCTTCAAA
GCCCGGACCAAGGCTCGAAGCCGTGTGCGGGACAAGCGGGCAGACATCCTGTGA

4695/5332
FIGURE 4083

AGCCAGGGTAGAGACTGAGTCGGCGCCTGGCGGGTGTGTGACGCGCAAACCAGGGGCGGGTTCTAAGCGGCGAC
GCGCGGGTGCTGGGAGGCCTTAGAACGCCGTGGCGTGCCGACGACGCGACGGCTGCAGAACATCCGCCGCACCG
CTGGGGGCCAACGTTGTTCGGACCGAGGAGTCCGAGGTGGCGACTGAGTGAGATACCCAGCTGTGCGGAGCTAGGA.
CGCGGAACATCCCAGAGGCCAGCATCAACATGTTTCCATCCTTGGGGAATGACCACGCAACTGGGCCCCAGCCCTG
GTGCTGGGGGTGGCCCTGTGCCTGGGTTGTGGCCAGCCCTACCACAGGTCCCTGAACGCCCCCTTCTCTGTGCTG
TGGAATGTACCCTCAGCACACTGTGAGGCCCGCTTTGGTGTGCACCTGCCACTCAATGCTCTGGGCATCATAGCC
AACCGTGGCCAGCATTTTACGGTCAGAACATGACCATTTTCTACAAGAACCAACTCGGCCTCTATCCCTACTTT
GGACCCAGGGGCACAGCTCACAATGGGGGCATCCCCAGGCTTTGCCCTTGACCGCCACCTGGCACTGGCTGCC
TACCAGATCCACCACAGCCTGAGACCTGGCTTTGCTGGCCAGCAGTGCTGGATTGGGAGGAGTGGTGTCCACTC
TGGGCTGGGAAGTGGGCGCGCCGAGCTTATCAGGCAGCCTCTTGGGCTTGGGCACAGCAGGTATTCCCTGAC
CTGGACCCTCAGGAGCAGCTCTACAAGGCCTATACTGGCTTTGAGCAGGCGGCCCGTGCCTGATGGAGGATACG
CTGCGGGTGGCCAGGCACTACGGCCCCATGGACTCTGGGGCTTCTATCACTACCCAGCCTGTGGCAATGGCTGG
CATAGTATGGCTTCCAATAACCGGCCGCTGCCATGCAGCCACCCTTGCCCGCAACACTCAACTGCATTGGCTC
TGGGCGCCTCCAGTGCCTCTTCCCCAGCATCTACCTCCACCCAGGCTGCCACCTGCCACCACCAGGCCTT
GTCCGACATCGCCTGGAGGAGGCCTTCCGTGTGGCCCTTGTGGGCACCGACATCCCCTGCCTGTCCTGGCCTAT
GTCCGCTCACACACCGGAGATCTGGGAGGTTCTGTCCAGGATGACCTTGTGCAGTCCATTGGTGTGAGTGCA
GCCTAGGGGCGAGCCGGCGTGGTGTCTTGGGGGACCTGAGCCTCTCCAGCTCTGAGGAGGAGTGTGGCATCTC
CATGACTACCTGGTGGACACCTTGGGCCCCATGTGATCAATGTGACCAGGGCAGCGATGGCCTGCAGTACCAG
CGGTGCCATGGCCACGGGCGCTGTGCCCGGCGAGATCCAGGACAGATGGAAGCCTTTCTACACCTGTGGCCAGAC
GGCAGCCTTGGAGATTGGAAGTCCTTCAGCTGCCACTGTTACTGGGGCTGGGCTGGCCCCACCTGCCAGGAGCCC
AGGCCTGGGCCTAAAGAAGCAGTATAAAGCCAGGGCCCCCTGCCACTGCCCTCTCTTTTCCCTGCTGCCACTTTTC
CAGTCTTGGAATACTCTGTCCCACTCTTGCTCTATTAGTTTACAGTCAACCCTCCCAAGCACACACCCCGCTT
CCCTTGGAATCCCTGAGGGGTAGAAGGGGCCAGAAAAACGCTTATAAAACCAGAGGCCCTCTGAGATCATGTGA
GTCCTCCATGGCAAGGAAGCAGTTCAGGGAGAGTCAGGTTCCAGCTAGTTAGGGCTGCCAGCCTAGGGCTTTGT
GCCTACACCTCACTAAGCCCATGGAGAGGTCACAGATGGGCCGTGCACGGGCAGATGGGCCCCAAAAATCTTGG
CGAAGGTCGGTAAAGTGCTAAGCTGTTGTCTGCACTCTTTCATCATAAAGTCACTTTTTTCCACTGC

4696/5332
FIGURE 4084

CTGGGAGGCCTTAGAACGCCGTGGCGTGCCGCAGGACGCGACGGCTGCAGAACATCCGCCGCACCGCTGGGGGCC
AACGTTGTGCGACCGAGGAGTCCGAGGTGGCGACTGAGTGAGATACCCAGCTGTGCGGAGCTAGGACGCGGAACA
TCCAGAGGCCAGCATCAACATTGGTGGACTAGGAGGACTACTGGAAGACAGAAGGCCAGCAAGTAGATTGGGTC
GGCTGTTTTATAGACCTGGTGGTTACAGACCCCCCTGTGAGGGGAGGTCCTGAGGAGGACAAATTTGTAGCCAGAG
CAGGCTGGGGCCAGGACTCCTAGGTTCTGCCCCAGCCTTAAGCAGCTCATCCATCACTCCCAGCCTCCCTCCAAT
GTGGGGTAGACACCTGGATCTATCTGCCCTGCTCTATAGGGGATGGGTCTCTTCCAGGTCACCTGTGCTATCAGG
TGAGTGTGGGACAAAGTGCAGCCCCACCACTCCCCAGTTCCAGTATGCATGGTCCCCCTGCACTCTGTGAGCCCT
TCCCTGCTCCAACCCACCTCCCTCCTGGCACAGCCCAGCATGGCTGTTATCTACAGGAGGAGAGCCACTGTGG
TCTGAAGAGATGCTACTGCTGGAGACTGGGGTCTTAACCTCCAGCCTGGCACTGAGCCACCTGCAACCTAGCAG
CAGGTGACCTTGGCTCCCAGCCTGACTCAGCTGAACCTGGATCCTGTGCATAGGCAAGAGCTGACTCTGAGCCCT
GGCCCAGCCAAGCTGACCCCTACACTAGACCCTACACACCGGATGGAGCTGATCCTGAGTACCAGCCCAGCTGAG
CTGACTCTGGATCCTGCGTGCCAGCCAAAGCTGCCCCTGGATTCCACATGCCAACCAGAGATGACCTTCAATCCT
GGTCCAACCTGAGCTTACCCTGGATCCTGAACACCAGCCAGAGGAGACCCCAGCTCCTAGCCTGGCTGAGTTGACC
CTGGAGCCTGTGCACCGCCGACCCGAGCTCCTGGATGCTTGTGCTGACCTCATCAATGATCAGTGGCCCCGAGC
CGCACCTCCCGCCTGCACTCCCTGGGCCAGTCTCAGATGCCTTCCCCCTCTGCCTGATGCTGCTAAGCCCCAC
CCCACACTTGAAGCAGCACCCGTTGTGGTGGGCCATGCCCGCCTGTCACGGGTGCTGAACCAGCCCCAGAGCCTC
TTAGTGGAGACAGTGGTGGTGGCCCGGGCCCTGAGGGGCGTGGCTTTGGCCGCGCCTCATGGAGGGCCTGGAG
GTCTTTGCTCGGGCCCGGGGCTTCGCAAGCTGCATCTCACCACCCATGACCAGGTGCACTTCTATACCCACCTG
GGCTACCAGCTGGGTGAGCCTGTGCAGGGCCTGGTCTTACCAGCAGACGGCTGCCTGCCACCCTGCTTAATGCC
TTCCCCACAGCCCCCTCTCCCCGGCCACCCAGGAAGGCCCAAACCTGACTGCCCAAGCTGCCCAAGGGGTCCC
AAGGGACCTCCATTGCCACCACCCCTCCCCTACCTGAGTGCCTGACCATCTCACCCCCAGTTCCATCAGGGCCC
CCTTCAAAAAGCCTGCTGGAGACACAATATCAAAATGTGAGGGGGCGCCCCATATTCTGGATGGAAAAAGACATC
TGAGGCCATCCAGGGCAAGGAACTGTCTTTCTGGTTCAATAGACTGCCCCGACAGTCTACAAGCCTCAGCCCACT
GACCATACCTCAGCCCCTAGCCCCTGGGGGGCAGCTTTAACCTGGGCATGTTTCTGGGTACCAGTGGGGCCAGG
AGGTGGCTCTGGCTCAGAGCCGTCAGTGTGGCTGAATAAAGGCTCTCTTGGGT

4697/5332
FIGURE 4085

TTCTCCAGGAGTCTCTGGTGCAGCTGGGGTGGAATCTGGCCAGGCCCTGCTTAGGCCCCCATCCTGGGGTCAGG
AAATTTGGAGGATAAGGCCCTTCAGCCCCAAGGTCAGCAGGGACGAGCGGGCAGACTGGCGGGTGTACAGGAGGG
CTGGGTTGACCTGTCTTGGTCACTGAGGCCATTGGATCTTCCTCCAGTGGCTGCCAGGATTTCTGGTGGAAGAG
ACAGGAAGGCCTCCCCCCTTGGTCGGGTGAGCCTGGGGGCTGAGGGCCTGGCTGTCAGCCACTCTTCCCAGAAC
ATATGTCATGGCCTCAGTGGCTCATGGGAAGCAGGGGTGGGCGAGCTTAGGCTAGAGCAAGTCCGTGTTGGGAGAT
GGCAGAGGCCTGGTCTGAGAGGCAACTCGGATGTGCCCTCCAGTGGCCATGCTCCCTCCATGCGTCTCCCTGTC
CCTCTGGAGCCCTGCAGGTCAATGTTTAAACAGAAACCAGAGCAGCGGTGGATTAATGCGCAAGGGCTCAGCCCC
CCAGCCCTGAGCAGTGGGGGAATCGGAGACTTTGCAACCTGTTCTCAGCTCTGCCCTCCCTGGCCAGGTTGTCTT
CGACCAGTCCCGTGCCATGGCAGCCACCTGCTTCCCATCTGCGCCCTCTTCTGACCTTACTCGATATGGCCCA
AGGCTTTAGGGGCCCTTGCTACCCAACCGGCCCTTACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGA
GAGGCACGGTGTGGACGTGGATGTGAGTGTCTCGATGGTAGCCAACCCAGGGCAGACCTTCCGCGGCCCTGA
CATGACAATTTTCTATAGCTCCCAGCTGGGCACCTACCCCTACTACAGCCCACTGGGGAGCCTGTGTTTGGTGC
TCTGCCCCAGAATGCCAGCCTGATTGCCACCTGGCCCCGACATTCCAGGACATCCTGGCTGCCATGCTGCTCC
TGACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGGCCTTCAACTGGGACACCAAGGA
CATTTACCGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCTGATTGGCCAGCTCCTCAGGTGGAGGCAGT
AGCCCAGGACCAGTTCCAGGGAGCTGCACGGGCCTGGATGGCAGGCACCTCCAGCTGGGGCGGGCACTGCGTCC
TCGCGGCCTCTGGGGCTTCTATGGCTTCCCTGACTGCTACAACATATGACTTTCTAAGCCCCAACTACACCGCCA
GTGCCCATCAGGCATCCGTGCCAAAATGACCAGCTAGGGTGGCTGTGGGGCCAGAGCCGTGCCCTCTATCCCAG
CATCTACATGCCCGCAGTGTGGAGGGCACAGGGAAGTCACAGATGTATGTGCAACACCGTGTGGCCGAGGCATT
CCGTGTGGCTGTGGCTGCTGGTGACCCCAATCTGCCGGTGTGCTGCCCTATGTCCAGATCTTCTATGACACGACAAA
CCACTTCTGCCCTGGATGAGCTGGAGCACAGCCTGGGGGAGAGTGGGGCCAGGGGGCAGCTGGAGTGGTGTCT
CTGGGTGAGCTGGGAAAATACAAGAACCAAGGAATCATGTGAGGCCATCAAGGAGTATATGGACACTACACTGGG
GCCCTTCTATCCTGAACGTGACCAGTGGGGCCCTTCTCTGCAGTCAAGCCCTGTGCTCCGGCCATGGCCGCTGTGT
CCGCCGACACAGCCACCCCAAAGCCCTCCTCCTCCTTAACTGCCAGTTTCTCCATCCAGCTCACGCCTGGTGG
TGGGGCCCTGAGCCTGCGGGGTGCCCTCTCACTTGAAGATCAGGCACAGATGGCTGTGGAGTTCAAATGTGATG
CTACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGAGCATGTGGTGATTGGCCACACACTGAGTTGCACATAT
TGAGAACCTAATGCACTCTGGGTCTGGCCAGGGCTTCTCAAATACATGCACAGTCATAAAGTCATGGTCACAG
TAAAGAGTACACTCAGCCACTGTCACAGGCATATTCCCTGCACACACATGCATACTTACAGACTGGAATAGTGGC
ATAAGGAGTTAGAACCACAGCAGACACCATTCATTCCATGTCCATATGCATCTACTTGGCAAGGTCATAGACAAT
TCCTCCAGAGACACTGAGCCAGTCTTTGAACTGCAGCAATCACAAGGCTGACATTCAGTGTGCTTACTCTTT
GCCAATCCCCGTGCTAAGCGTTTATGTGGACTTATTCACTTCCCTACAATGAGGCTATGAGGAACTGAGTCACT
CACATTGAGAGTAAGCACGTTGCCCAAGGTTGCACAGCAAGAAAAGGGAGAAGTTGAGATTCAAACCCAGGCTGT
CTAGCTCCGGGGGTACAGCCCTTGCACTCCTACTGAGTTTGTGGTAACCAGCCCTGCACGACCCCTGAATCTGCT
GAGAGGCACCAAGTCCAGCAAATAAAGCAGTCATGATTACTT

4698/5332
FIGURE 4086

GAGGCGCTGAGCCGGGCCGCGCCTGGGCGAACGGCCGGAGCGGGCTGGGCTGGGCCCCGGGATGGCGGTGGCCCTG
GCGCCGGTCCCGGTGGCGCCCCGCGCGAGTTCTTGAGCTGGTGCCAGGCAGGTGACACCTCCTGCAGCCCCCAGC
ATGCGGGCAGGCCAGGCCACCGTTACATTGGCCCTGGTGCTGGCGGTGTCATGGGCCATGGAGCTCAAGCCC
ACAGCACCACCCATCTTCACTGGCCGGCCCTTTGTGGTAGCGTGGGACGTGCCACACAGGACTGTGGCCCCACGC
CTCAAGGTGCCACTGGACCTGAATGCCTTTGATGTGCAGGCCTCACCTAATGAGGGTTTTGTGAACCAGAATATT
ACCATCTTCTACCGCGACCGTCTAGGCCTGTATCCACGCTTCGATTCTGCCGGAAGGTCTGTGCATGGTGGTGTG
CCACAGAATGTCAGCCTTTGGGCACACCGGAAGATGCTGCAGAAACGTGTGGAGCACTACATTCGGACACAGGAG
TCTGCCGGGCTGGCGGTTCATCGACTGGGAGGACTGGCGACCTGTGTGGGTGCGCAACTGGCAGGACAAAGATGTG
TATCGCCGGTTATCACGCCAGCTAGTGGCCAGTCGTACCCTGACTGGCCTCCAGACCGCATAGTCAAACAGGCA
CAATATGAGTTTGAGTTCGCAGCACAGCAGTTTCATGCTGGAGACACTGCGTTATGTCAAGGCAGTGCGGCCCGG
CACCTCTGGGGCTTCTACCTCTTTCTGACTGCTACAATCATGATTATGTGCAGAACTGGGAGAGCTACACAGGC
CGCTGCCCTGATGTTGAGGTGGCCGCAATGACCAGCTGGCCTGGCTGTGGGCTGAGAGCACGGCCCTCTTCCCG
TCTGTCTACCTGGACGAGACACTTGCTTCTCCCGCCATGGCCGCAACTTTGTGAGCTTCCGTGTTTCAGGAGGCC
CTTCGTGTGGCTCGCACCCACCATGCCAACCATGCACTCCAGTCTACGTCTTCACACGACCCACCTACAGCCGC
AGGCTCACGGGGCTTAGTGAGATGGACCTCATCTCTACCATTTGGCGAGAGTGCGGCCCTGGGCGCAGCTGGTGTG
ATCCTCTGGGGTGACGCGGGGTACACCACAAGCACGGAGACCTGCCAGTACCTCAAAGATTACCTGACACGGCTG
CTGGTCCCTACGTGGTCAATGTGTCTTGGGCCACCCAATATTGCAGCCGGGCCAGTGCCATGGCCATGGGCGC
TGTGTGCGCCGCAACCCAGTGCCAGTACCTTCTGCATCTCAGCACCAACAGTTTCCGCCTAGTGCCTGGCCAT
GCACCTGGTGAACCCAGCTGCGACCTGTGGGGGAGCTCAGTTGGGCCGACATTGACCACCTGCAGACACACTTC
CGCTGCCAGTGCTACTTGGGCTGGAGTGGTGTGCAATGCCAGTGGGACCATAGGCAGGCAGCTGGAGGTGCCAGC
GAGGCCTGGGCTGGGTCCACCTCACCAGTCTGCTGGCTCTGGCAGCCCTGGCCTTTACCTGGACCTTGTAGGGG
TCTCCTGCCTAGCTGCCTAGCAAGCTGGCCTCTACCACAAGGGCTCTCTTAGGCATGTAGGACCTGCAGGGGGT
GGACAAACTGGAGTCTGGAGTGGGCAGAGCCCCCAGGAAGCCAGGAGGGCATCCATACCAGCTCGCACCCCCCT
GTTCTAAGGGGGAGGGGAAGTCCCTGGGAGGCCCTTCTCTCCCTGCCAGAGGGGAAGGAGGGTACAGCTGGGCT
GGGGAGGACCTGACCTACTCCCTTGCCCTAGATAGTTTATTATTATTATTTTGGGGTCTCTTTTGTAATT
AAACATAAAACAATTGC

4699/5332
FIGURE 4087

GTTTCCGTGGAGACAGCCGAGCCTGCGGAAGGCGGCGGCGGCGGCACCTGCGATCAGCGGCTGGGGCAGGTTATG
GTAGTGC GGACTGCGGTGTGAGCAGAGCGGCCACGGGGCCCGCCATGCGCCGGCGGGCCCTGACATGGGCGCCAGC
GGGTCCAAAGCTCGGGGCCTGTGGCCCTTCGCCTCGGCGGCCGGAGGCGGCGGCTCAGAGGCAGCAGGAGCTGAG
CAAGCTTTGGTGCGGCCTCGGGGCCGAGCTGTGCCCCCTTCGTATTCACGCGCCGCGGCTCTATGTTCTATGAT
GAGGATGGGGATCTGGCTCAGGAGTTCTATGAGGAGACAATCGTCACCAAGAACGGGCAGAAGCGGGCCAAGCTG
AGGCGAGTG CATAAGAATCTGATTCCCTCAGGGCATCGTGAAGCTGGATCACCCCGCATCCACGTGGATTTCCT
GTGATCCTCTATGAGGTGTGACCCCTGGGAGGTGGCAGACAGAAGCACCCCTGCCCCGGCAAGAACTCCCAGGC
TCAATCAAGGTGTGGCTTCCATTGAGGAGCCCAGGCTGGGGCCACAACCCTGAATAAACTCTGTTGGCCATAAC
CTTCAGCTGTGAGCGGGTCGGTCCCACAGTATTGGTTGGGTGTTGGTTTGTGTGTGGACAAGAGGTGGTTGGTGG
GTGGTGAAGGCTAATGGCAGAGTTAGCACCCCACTCTCCCAAGCCACCCCTGCAAGCAGCACAGCAGGGCATATA
CCAGTCAGGAATGCCCGTTACCTGGTTCCTTGCCTGGTCTGCTTTCTTCCAAGTTTGCTGGGGCCTAGCCCTGC
TAGAGGCTACAGCACTTTACAAGCAAGGTATGCTTTCTCCAGCCCTAGGCTGTGGGCACTGTATACAAGTAGG
AACTTCCTTTCTTCACTTCCCTTTTAACCCCTAGTCAGAGCATTTAGCCGTTTGCTACCTCGATTCTCCTGT
GTTGGACAGAGGCTGGGGGCAGTGCCAGCCTGATTCTCCGACCTACCTGCCATTTGTTCCCGCCTTCAGATGGA
TGGACAGTTTGCTGGCTATTGATAGGAGTGGGGACTGGGTGGGGGCTTCTCCCTCTACCCAGGGCTGGGCTGATC
CCCCTACTGCAACTAACTGTTGCCCCCAACCCGAACCCCAAGTTGAGGAGTTGAGAGAGTGCAGGCTGGGGTC
AGGACAGGCTGCGGATGCTTGTGCCTATGGGGAGTTACTCCAACCCACCTATTCTGTCTAATCTCCATGGCTTTG
CACCAAATCCTCCACCCCTCCAATTGGGAGGGGACTGTTACACACCTTGTGGTAAGGGACAACACCCTAAGGCTG
GTGCCAGTAGTTATGAGTAGCCTACCACCCCTCCCTTACAGTAACCCCAACCCCTTCAGGATCAGTCAAGGGAA
AGCACTAGAACCCCTGGGTAGGGAAGAAAGGAGGGAAAAACCATAAAAGGAATACTTATAATGTGAAGGTTTGT
AAATAGTCCATGATGATGTCGTGGCAGAGTCTGATTCTATATAGAGGTGACTTTTTTTTTTAAGTACTGTGCAAG
CTCTGTGCTTCTATAATGTGGGAATGGCTTGGGGAGGATGGCCCTAGCTTAGGAAGACTGTTGTGTTATTTGT
TCAATTTCAATAAAATGATTTGTAGATCCTGC

4700/5332
FIGURE 4088

TCTCCTCAGCTCCTTCCCGCCGCCAGTCTGGATCCTGGGGGAGGCGCTGAAGTCGGGGCCCGCCCTGTGGCCCC
GCCCCGCCCCGCGCTTGCTAGCGCCCCAAAGCCAGCGAAGCACGGGCCCAACCGGGCCATGTCGGGGGAGCCTGAGC
TCATTGAGCTGCGGGAGCTGGCACCCGCTGGGCGCGCTGGGAAGGGCCGCACCCGGCTGGAGCGTGCCAACGCGC
TGCGCATCGCGCGGGGCACCGCGTGCAACCCACACGGCAGCTGGTCCCTGGCCGTGGCCACCGCTTCCAGCCCC
CGGGGCCCCGCCACGCACACGTGGTGCGACCTCTGTGGCGACTTCATCTGGGGCGTCGTGCGCAAAGGCCTGCAGT
GCGCGCATTGCAAGTTCACCTGCCACTACCGCTGCCGCGCGCTCGTCTGCCTGGACTGTTGCGGGCCCCGGGACC
TGGGCTGGGAACCCGCGGTGGAGCGGGACACGAACGTGGACGAGCCTGTGGAGTGGGAGACACCTGACCTTTCTC
AAGCTGAGATTGAGCAGAAGATCAAGGAGTACAATGCCCAGATCAACAGCAACCTCTTCATGAGCTTGAACAAGG
ACGGTTCTTACACAGGCTTCATCAAGGTTAGCTGAAGCTGGTGCGCCCTGTCTCTGTGCCCTCCAGCAAGAAGC
CACCTCCTTGCAGGATGCCGGCGGGGCCAGGACGGGGCACAAGTGTGAGCGCCGCACTTCCTTTTACCTGC
CCAAGGATGCTGTCAAGCACCTGCATGTGCTGTACGCACAAGGGCACGTGAAGTCATTGAGGCCCTGCTGCGAA
AGTTCTTGGTGGTGGATGACCCCCGCAAGTTTGCACCTCTTTGAGCGCGCTGAGCGTCACGGCCAAGTGTACTTGC
GGAAGCTGTTGGATGATGAGCAGCCCTGCGGCTGCGGCTCCTGGCAGGGCCAGTGACAAGGCCCTGAGCTTTG
TCCTGAAGGAAAATGACTCTGGGGAGGTGAAGTGGGACGCCTTCAGCATGCCTGAACTACATAACTTCCTACGTA
TCCTGCAGCGGGAGGAGGAGGAGCACCTCCGCCAGATCCTGCAGAAGTACTCCTATTGCCGCCAGAAGATCCAAG
AGGCCCTGCACGCCTGCCCCCTTGGGTGACCTCTTGTACCCCCAGGTGGAAGGCAGACAGCAGGCAGCGCCAAGT
GCGTGCCGTGTGAGTGTGACAGGGCCAGTGGGGCCTGTGGAATGAGTGTGCATGGAGGCCCTCCTGTGCTGGGGG
AATGAGCCCAGAGAACAGCGAAGTAGCTTGCTCCCTGTGTCCACCTGTGGGTGTAGCCAGGTATGGCTCTGCACC
CCTCTGCCCTCATTACTGGGCCTTAGTGGGCCAGGGCTGCCCTGAGAAGCTGCTCCAGGCCTGCAGCAGGAGTGG
TGCAGACAGAAGTCTCCTCAATTTTTGTCTCAGAAGTGAAAATCTTGGAGACCCTGCAAACAGAACAGGGTCTATG
TTTGCAGGGGTGACGGCCCTCATCTATGAGGAAAAGGTTTTGGATCTTGAATGTGGTCTCAGGATATCCTTATCAG
AGCTAAGGGTGGGTGCTCAGAATAAGGCAGGCATTGAGGAAGAGTCTTGGTTTCTCTCTACAGTGCCAACTCCTC
ACACACCCTGAGGTGAGGAGTGTGGCTCACAGTACAGCATGTGCCTTAATGCTTCATATGAGGAGGATGTCCC
TGGGCCAGGGTCTGTGTGAATGTGGGCACTGGCCAGGTTTATACCTTATTTGCTAATCAAAGCCAGGGTCTCTC
CCTCAGGTGTTTTTATGAAGTGCCTGAATGTATGTAATGTGTGGTGGCCTCAGCTGAATGCCTCCTGTGGGGAA
AGGGGTGGGGTGACAGTCATCATCAGGGCCTGGGGCTGAGAGAATTGGCTCAATAAAGATTTCAAGATCC

4701/5332
FIGURE 4089

ATGGCCCTTTCTGCGGAGACCGAGTCACACATCTACCGAGCTCTGCGTACTGCTTCTGGCGCTGCCGCCCACCTT
GTGGCCCTGGGCTTTACCATCTTTGTGGCTGTGCTTGCCAGGCCTGGCTCCAGCCTGTTCTCCTGGCACCCGGTG
CTTATGTCTTTGGCTTTCTCCTTCCTGATGACCGAGGCACTACTGGTGTTTTCTCCTGAGAGTTGCTGCTGCAC
TCCCTCTCACGGAAGGCCGAGCACGCTGCCACTGGGTGCTGCAGCTGCTGGCCCTGCTGTGTGCACTGCTGGGC
CTCGGCCTTGTCATCCTCCACAAAGAGCAGCTTGCCAAAGCCACCTGGTTACGCGGCATGGGCAGGCAGGGCTG
CTGGCTGTGCTGTGGGCAGGGCTGCAGTGCTCAGGTGGGGTGGGGCTGCTCTACCCCAAGCTGCTGCCCCGATGG
CCCCTGGCGAAGCTCAAGCTATACCATGCTACTTCTGGGCTGGTGGGCTACCTGCTGGGTAGTGCCAGCCTCTTG
CTGGGCATGTGCTCACTCTGGTTCAGTGCCTCTGTCACTGGTGCAGCCTGGTACCTGGCTGTATTATGCCCTGTC
CTCACCAGCTTGGTCATTATGAACCAGGTGAGCAATGCCTACCTATACCGCAAGAGGATCCAA~~CCA~~TGA

4702/5332
FIGURE 4090

CGCTTAGAGGACAGCCCGCTGCCGCCGGGGACGCGCAGGCGCAGCACCCCTGTTTGTGGCCCCCGAGAGAAGA
GGTACGGTCGAAGCCAGGAGCCAGGCCGAGCGGGAGCTGACCAGGCTTGACTCGGGTACAGAACGAGGCACCAGT
CCCCTTGCCAACC GAAGGGCCTCGCAGTGGATGGAGGAGGCCAGCCCTGAGGTCAACGCCAACCAGGCTAGCCT
GGCACGGGGCCTACAGGGTGGGTAGGCGGGCGTGCCGCAGCCGTCAGGGCCTTCCCTCAGGTCCCGGGCGAGGG
GCCTACGCTGCGGCCCCGCAACAAGGCCCGACTCGGCCCTCGGGACCAGAGCCCCACCCGATCGGAAGCGGATC
CTTTACCAGGGCCATAGGCCAGTGACTAGGCCGGGCTGGGCCTCCCATCGGGGCCGGACTAGGACGAGGCCCCG
GGGAGGCCCCCTGGCTACCAGACCCCTTTTCTCAGGCCGACAGCCGCCAGGAAGATGCAACGTGCCCTGCCAGGCG
CCCGCCAGCACTTGGGGGCCATTCTGGCCAGCGCCAGCGTGGTGGTGAAGGCTCTGTGTGCGGCGGTACTATTCC
TCTACCTGCTCTCCTTCGCCGTGGACACAGGCTGECTGGCGGTACCCCGGGCTACCTCTTTCTCCCAACTTCT
GGATCTGGACCTGGCCACCCATGGGCTGATGGAGCAGCATGTGTGGGACGTGGCCATCAGCCTGACAACGGTGG
TGGTGGCCGGGCGTTTGCTGGAGCCCTCTGGGGGGCCTTGAGCTGCTCATCTTCTTCTCAGTGAATGTGT
CTGTAGGGGTGCTGGGGCCTTTCGCTACCTCCTCACCTACATGGCTTCCTTCAACCTGGTCTACCTGTTCACTG
TCCGTATCCACGGCGCCTTGGGCTTCTAGGTGGCGTCTGTGGTGGCACTCAAGCAAACCATGGGGGACTGTGTGG
TCCTGCGAGTGCCCCAGGTGCGCGTCAGTGTGATGCCATGCTGCTGCTGGCGCTGCTGCTCCTGCTGCGGCTCG
CCACGCTGCTCCAGAGCCCCGGCGCTGGCTTCCTATGGCTTCGGGCTGCTCTCAGTTGGGTATATCTTCGCTTCT
ACCAGCGCCATAGCCGGGGCCGAGGGGACATGGCTGACCACCTTTGCTTTTCGCCACTTTCTTCCCTGAGATCCTGC
AGCCTGTGGTGGGTTTGCTGGCGAACTTGGTGCACAGCCTCCTGGTGAAGGTAAAGATATGCCAGAAGACGGTGA
AGCGCTACGATGTGGGTGCCCCATCCTCCATCACCATCAGCCTGCCAGGCACAGACCCTCAAGACGCCGAGCGGA
GAAGGCAACTGGCCCTGAAGGCACTCAATGAGCGGCTGAAGAGAGTGGAAGACCAGTCCATCTGGCCCAGCATGG
ATGATGATGAAGAGGAGTCTGGGGCCAAGGTGGACAGCCCCCTGCCCTCAGACAAAGCTCCCACACCCCCAGGGA
AGGGGGCTGCCCCAGAATCCAGTCTAATCACCTTCGAGGCAGCTCCCCGACGCTGTAACTCCAGACCACCTTGA
GTGTGGCACCTCCCCCTCCCAAGCCCCCTTGACATCCTCTCAGCTACTCCAGGGCACCTGACTGCTCTGAGGAGA
GGGAAGAAGGCCTGCTGGGGCTTTCCATGGCCTTCTGCTGTTTCTCGCCAACACTACCCAGGACTCTTGCTACCT
GGTTCCAACCTCCAGACAACCACTATGCCAGGCCCGGAGCCTCTGAGGCATCGGCCAGTCCAGGCCCTCATCTGAG
GTAAGAATGTACATCAGCTGGCAGCCCCAAGCAAGTGGCTGCAGGGACACTGATGCCACAGCTCCTGGGCGGGCC
CTCACATCTGAAACTGGTTGCCGAGAGCCCTGAGCCAAGGCAAGGATTTGCCAAAAATGTTCTGGGGGCCAGCA
AATGCAGGAGCCGACCTGGGGCTGCACATCCCTGCCCATCCCCAGAAAGACTGTTCTGTCTCAGGATTTGTTTCCC
TCTGCTGTGGCGGTGACTGCTTCTGGACCAGAACAGCTCCAGCTCCAGGTATTTTCTACAGGACCACTTGAGTG
GGCAGCCAAGCCCAGGCTCGCAGTATCAATAAAGCAGTTCTCTG

4703/5332
FIGURE 4091

GAGGTCACAAGCTCTGGTGCCCCAAAATGGCTCTGGTCCTCAGATATAGTTGGTTGCCACCCTGGGAGTGAGAGG
AACCAGGAAAGCAGCACCCAGGAAGGCAGGGGGCTCCCTTTATCCAAGGAGGTGGCTGTGCAGGTGGCCACCACA
GGTGGCAGGAACCACAGGCTGGGGCACTCCGGAGTCAGGAGTGAGTGGGCAGGTTGACTGGCATCAGGCAGCCTC
TCAGCCAGGGCCCTCTCCGCATCAGCATGAACTCCAGGACCGCATCTGCTAGGGGCTGGTTTCAGCAGCCGCCAC
CCACCTCTGAGTCTGACCTGGAACCTGCCACAGATGGGCCAGCCTCCGAGACCACTACCCTCAGCCCAGAGGCCA
CCACCTTTAATGACACCAGAATCCCTGATGCAGCTGGTGGCACGGCCGGCGTGGGTACCATGCTTCTGTCTTTG
GGATCATCACGGTGATAGGCCTGGCTGTGGCCTTGGTTTTGTACATCAGGAAGAAGAAGAGGCTGGAGAAGCTAC
GCCACCAGCTCATGCCCATGTACAACCTTCGACCCACGGAGGAACAAGATGAGTTGGAGCAGGAGCTGCTGGAGC
ATGGGCGGGACGCCGCTCTGTACAGGCTGCTACTTCTGTGCAGGCCATGCAGGGCAAGACTACTCTGCCCTCCC
AGGGCCCACTGCAGAGACCCAGCCGGCTGGTGTTTACCAGTGTGGCCAATGCCATCCATGTGTGAGTGGCCTGGG
ACAAGCCTGGACTTCTGATAGAGACCCATCACGGTGCCTACAGAGCTCCCCACTCCCTGATTGTCAAGACCTACT
CTGAAGATCTTCCCTGCCAAGACACAAGAGGGCTGAGCCAGGTCCTAGCTGTTCTCCAGACCCACCTGTGACTT
TAGACTCTAAGAGAGGGCCCTAGCCAGGCTGGACTTCTGACCACTGACTTCTCCTGACCTGAGGGCCCTGGCACA
GAGGGCATCCCTCATGCTGAGAAGGTCAAGAGCCTCTGCTGGCTTCCCTCATCCCTGTCCAGATCCCTCACATCA
GGGTCTGCCCCGCTAATGTGGAGGAAATGAGGGAGATACGGAGTGGGAGGGATTGGGGGAGGAAAGGGGAGGTTT
CCCTCTGTTAGGGAGAGACCTGTTTTTTTGAATCTGGAGCCTCCTCTGGGGTGGGGAGAGGAAACCACCCAAGTT
ATAGGGACAGGGTAGGGCAGCATCTGTTATGGGCCCTGAGAAGCCCAGAGATGGAGCTGAAACTGTCCAGTATGC
AAGGATGCCAGGAGAAGGGCAATTCACACCCAGGGTCCATCCATACTACGGAGGGTCCAGGAGGTCTCCCAGCCA
CCCATCCTTGGAACACAGATGTTACTGGGGCCAAGCTAGGATGGGAGCTGAGGGGGAAGGAAGTAGGGGAATGGA
AGTGGAAGGATGCAGCCCCCCCCAGACCTGCCGAGAGGCCCTCATGCATGTGCATGAGTGTGCCCATGGGCAGACAT
GTGCCTGTCCAGCACAGCGGGCAGAATGAGATTGTCCACACTGGCCCCACCCTCCAAGTCGACCTCTACCCCAT
GGTATGTAGTGGAGCATCAGGGTAGGCTATCTTCTCTGCCTTCAATCTTCAGGGACTGCAGGGAAGAGGGAAGCA
CGCACAGCACGGTTCTCTCTCCACTGCATTGTTTCACTGGGCTCACCTGCTTCTGAAAACGGCTCCCTGTCTTG
GGCTCTAATGAGGATCTGGGGTTGGGAGAGGCTGTTGGTCTGAGGGCAGTAATCACAGGCTGCAGGCTAGAGGGG
GCAGTTATGACTGCCTGAAAGTGGGTGAGGGATTGCACTTCAGAAAAACATCTAAAAAACTTAGTCTATGTTGA
ATTCCCCACCTCCATCCCATCTATGGGAAGAGCCGTTCAAGTGTGTTAGAGAGTGGGGAGATGGGTCCCTGCACTTG
GCCTCTCCATAAGCCTTGAGAGGGTCAGGGCTGATACCAGGGGTCCCTGGCAAGCCATTGGGCAGAGACAGACCACA
AGAGCAGGGCATTGTTTTTACGCTGGGCATACATATGCACACAAGCATGCACAGAGGCATGTCCCGTGCCAGCCT
CTCCACCGTCACTGTCCGCTGCTGGCTGGAGGGGATGCAGGGGTAGTGTATGCAGACCTTCCACTGGGCAATGC
CATGTGTGAGGAGGGAAAGGCCTAGGAAGCCCCCATGGGAAGGTTCTGGATTTATTCCCTCCTCTAAATGCTAT
AAATACGTTAGCACTTGAGTCGACTGGAGGCTGCCAGGAATTCAGGATGCATACAGCTGTAATTTAACCAGAGC
AGCTCCACGTGAGAGCATTAAAGATGTAATGAAGATGTTT

4704/5332
FIGURE 4092A

GCAGCCTTTCAGGCAGGGTGGCAACCAACTATATCTGAGGACCAGAGCCATTTTGGGGCACCAGAGCTTGTGACC
TCTCCATCTCCACCCAGCTGGGTCCAGGGGCCACTCTCAGCACTCACCTCAGCAGCTGACATCATAAAGCAGACT
TGGGAACCTGGAAGCACTCTGGAGAACCTTTCCCTGAGACATGGAGCTTTGGGGCCGAATGCTGTGGGCCCTCCT
GTCTGGCCCAAGGAGGAGGGGAAGTAECGGGGCTGGGCCCTTCAGCTCATGGCAACCCCAACCACCTCTGGCTGG
GTTATCCAGTGCCATAGAACTGGTCAGCCACTGGACTGGGGTCTTTGAGAAGAGGGGTATCCCTGAGGCCCGGA
ATCCAGTGAGTACATCGTGGCTCATGTCTTGGAGCCAAAACATTTAGAGCCTGAGGCCGGCACTTTGGACCCA
GCCCTTGACCTCTCAGCAACTACAGTGTATCCGGGAGCTGAGTAGCCGTCGATTGCAGAGGATGCCGGTGCAGTA
CATCCTTGAGAGTGGGACTTCCAGGGGCTCAGCCTAAGGATGGTGCCCCAGTGTTTATTCGCGGCCAGAAAC
AGAGGAACCTGGTTGAGTGGGTGCTGGAAGAGGTGGGCCAGAGGTCCCATGCTGTGGGATCCCCAGGCAGCCCCCT
CATTCTGGAGGTGGGCTGCGGATCAGGAGCCATCTCCCTCAGCCTGCTGAGCCAGCTCCCCAGAGCCGAGTCAT
TGCTGTGGATAAGCGGGAAGCTGCTATCTCTCTGACCCATGAGAATGCTCAGAGGCTTCGGTTGCAGGACAGGAT
TTGGATCATCCACCTCGACATGACCTCAGAAAGGATGGACACACCTGCCCTGGGGCCCATGGACCTGATTGT
CAGCAACCCTCCCTACGTCTTCCACCAGGACATGGAGCAGTTGGCCCCCTGAGATCCGCAGCTATGAAGACCCCGC
GGCCCTGGATGGTGGGAGGAGGGCATGGACATCATTACCCACATTTCTGGCCTTGGCACCCCGGCTCCTGAAAGA
CTCTGGTAGTATCTTCTTAGAAGTGGACCCAAGGCACCCGGAGCTTGTGAGCAGCTGGCTTCAGAGCCGGCCTGA
CCTGTACCTTAATCTTGTGGCTGTGCGCAGGGACTTCTGTGGGAGGCCCGGTTTCTGCATATCCGGAGGTCTGG
GCCATAGCATGGCTGCCCTGTGGATGCCTTGTGAGTGCCGCCAGCCTGACCAGAGGGGAGGTGGATGGCACTTTC
CAGAGCCCAGGTTCTTATGGCATTTCAGGGGTTCTGTGATTTCCTCATGCTCTGCATTTCTAGGATATTTCTAG
GACACCTGGATTGGCTCCATCAGATGAGTGGCTGAGGGCAGTTGCTCTGTGTTGGTGAAATTGCTGTGGGGGT
ATCGGGGGATATGGCCAGTAAAGTATTGAGAGACTAACAAATGGTGACCTAATGTTTTGTCCATGACTTGCAGGT
CCCCTGACCCCTTACTCCCAGGTAGCACTGGGGCAAGGGTTTCTTCTGCCCCAGCAGGGCTGGCCGTCAGTCC
CCTGCTTGGTAGTGGTGTGGGGGTGAGTGTGGAGGAAGGCACGTGAGTCTCACTCCTGGCCTTGGATACCATG
GGTCTTGGCATAGAGCAGCTCACTCCCAGGGATTGATTAGTCTCCACTGCCCTGGGTGCATGCGTACACAATTC
CCTGGCCAAGCCTGGCTCGAGCACAGGAAGCTCATCTGCGTTTTGGCTCAAGGATGACTGCCTGCTTTCTGGAGG
GGAGGGTCTGGAGGTCTTTGCTGCACAGTTCCTGGGTGCGACATCCACGTTCAATTAAGTGAAGGCTTGAGCCAG
TGAGGGGTGTTTTCTTTTATCCCCATAGCTTTTAGCTAAAACATCCCTCCCGAGTTGACCCCTGGGGTTTTCAA
ATAACCCATGTGTCCTTGGTTGGGGCTGGGGAGAGTGAGAAGCTGAGATACTGGGCACAGGGTTGTGGCCTCCAC
CCCAGCTCTGGTCTGTGCAGACTCATGGCCACCAGGAGGCCTGCAGATCCAGCCTTCTGTCAACAGCGACAGGA
AATCTCTAGGTTGGTGAGTGTGGTGATGTGAGCCTACATCAGGGTGGGTCTTAAGAAACATGGCAAACCAGGCT
GTCTCATTCCACTAGACTGCCCCCTGCCACCCTGGCACTTCCCAGGGCCTGGCAGTATGGTCTGATGGGCAGTAT
GGTCCAATAGGCAGCATCCTCTGCTGCAGCTGGGAGAGCTGAGTTCCAGGGCTGTGCTCTGCAGTGGGACCTTGG
GCAACTCCTTTCCCTATGAGAAGCTGGCTCTTCTGAGTCCAGGGCCAACGCCAACTGGCAACCTCTTTACTCTTA
GTCAAGTGAATGTGCATGCTGGCATCTGAATGTCCATTGCCAGGCATGGAGAGCAAGAGAAGGTATGTACTGC
CTGAGGTCACATGACAGTGACCAAGTGGAGACAGTAAGTTAGATCCCTCCCTTTGGGGAGCCTATATTGCTGGAG
TCATACCCAGCCTAAGTGTGCCCCTGCACTATGGCTGGAGGACACATTTGGTAGAGGTACACTGCAGCTCCCAG
TGCCCCAGTGTCTGCCCCTGTGCCAGCCCCAGCTGCATGGACTCTGAGCTGCCCCCTGGCTTCTTTAAGGAGGC
TGCTCCAGAAGGAACCTGGGTGGGGAGGGGCGAAGGGGTGCACAACCAGGGCAAGGCTCCCCACTTCTTTAGTCC
CCCATGCTCACAGACCTTTGCTGCTAAGGTCTCACCAGTATTGCCCTTTCTGTCTTTCTCCTTGTGCCCTTTG
GCTCTTGTCTGCTTTCAGCAGCATCTCAGGGTAGCTGCCCTGACCTCGGAGCAGTCTGTGCCCCCTACACCTCA
GCCAGTCTGGCTTCCCTGATGGTCTCTCCCTCCTGGCCTCAGGCCCATTCCTGAGGAAGGGCCTTGGCGAGCTT
GTGGATGTTGCACCAGAAGAGAGTGACAGTGTGGAGAGTGACACTGTGCGGGCAGCTGGGGCCACAAGCAGGAGC
CGGCCTCGGGCACAACCTTTCTGCCAGAAAAATGTGCAGCTTGACTCTGCTGAGGAAAAGGTCCAAGCCAAGAGG
ACTGGCAGGCGGGGCTCAAGCCTGCAGCCACTGGCTTGATTGGGCCCTGGACGTTGAGCCCAGATGTTGGAGCC
ACACCAGCCTGGATTTCAATCCAGAATCTGCCCCCTCACCAGGATGTGACCTTGGGCAGATGACTTCACCTCACT
CAGCCTTGGCTTCTAAGGCTGAGAAATGGGACTTAATGCTTTATTTTATAGGATGCATGTGAGGAGCCCATGGAA
TGTGCTTGGCTTGGCACATTGTGGCATTTTTCTTGCCTTCTCGGAGGGCAGACACAGGGAGGAAGGACCCAGT
GCCCTCAGGCGTCCATCTGATGCATGGGACCAACATAAGGCAGGCAGGGATACAAGGCAGTCTGGAAAGAAGGGA
AGGCAGGAGTTTCACTCTTGGGCTCTTGACTCCTCACTGTTGTCTAGAGATGGAGCCAGCAGGCTGGTAGCCTGG

4705/5332
FIGURE 4092B

CAGCCTACATCTCCCCTCAGCCTCTCCTCACTATGGCCCCAGTGCCTTGAGGCCAGGCCAGGGCAGCCAGTGGC
TCTAGCTCAGGGAAAGCCAGGCCACCTGCCCTATCCCCTCCCTTGCTCCTGAGGCCAAAGCCAGAGACTCGAAC
AGCCTCCCCACCACCACCAGCATATGTCAAGGAGCACTTGCAGGCAGAATGGGAGGAGGACATGGAGCTGATGGA
GTCCAGGCTGTGCAAGCCCCCTGAGGTCTTGAGAGATGTGCCCACTGCCCGTGCAGCCTCCTTCAGCCAGAGCCCA
GAGCATAGACAGGAGTGTAGGAGTCCCTGTTTGATGTACTCTGGGAGAGTAATTCTATCTCCTCTTCTGATAGTT
GGGGAAACTGAGGCCTTGCTCTCACAGTTGGATGCTTTTCCAGTTGTCAGTGGGTTTCTCCATGGGTCTCATACA
GCTGCCTTATTGAAATAGGCCCCGAACCCCTAAATGCAAAAAATACTCTTTTTTGCTCCTTTACCCCCACCTGG
ACCTTGGGCTATTGGCTGCTCCCAATCCTTGCCCCAAACACTTAGCTGGCTCCCCATGACTTAAGTGTGTTCTCT
TGTGTCTATGGAATCCAGTTCTGAAGAGGTGGGGGAGGACAACTGTGGGAAAAGCCCTGGGGGCCCTCCCAAG
GCCCCATCAGTGCTCTGAGTAGGCTGTGCATCAGAACAAAGGGCTCCACTGCTGACAAGGTTTGAGAACTGCTGGC
TTGAGGTGAGAACCCCTTTAACCTCTGCGGGACAGCATGTCTTCCCTATCCACCTTCGATTCTTTTCTCTTTT
TTTCTTCATTGCTCCTTCTTAGTGGATTCTCTTCTCTACTGCCCTGGGCTTCAGCCTTTGTGCAGTACTCTCGA
TGCCCTGAACACACACCTTCCCTTTGCCAGGCGGTGCAACAATCCACTTCTTCAAGCTCCAACACAAATGCTG
CCTCCTTTAGGATGCCTGCTCTGTGCTCTCCCTGCCTCCCCTAGCCCATACTCTGCTGGCACCTTCTGTACCAT
GCCTTCAGAAACCTTCTTATCCCCCTCATCTCTGGGGCCCCCTGTGGATCTGGCATAACCAAGTTCAGTAAATGT
CTATCAGTAAGCTGATGGTACATGCATTTTCTAGAATAGAGCTGGGACTTCCCATGTGGCCACATCTGACCTGG
CAGCCCATGTATTCCGGTCATTAGGGATGGGAAGCCATGAGGACCTGGCCTTCTGCCCCAGCCAGGCAGCCATTC
AAGTTGAGCAATGGCCACTTCGAAGACTCAAGTGCACCTGATCCCTGCGCAACAGCCACACCAGGAGAACAGGCT
GTCCTTGGCGGCAGTAGGAGCAGGCGCCAGGTTTCTGGAGCTCTTGGCTTCAGCCAGCCCCCAGCCAGAGTCCT
GGCTAGGACAGTGACCTGATCTCCTCCTCATGACCTTCTGCCCTGGACAAGCCCCCTGAACTGGATTGAGGACTG
TCAAAGCAACTCTACCCCTGCTCTGGTAGGCTGAACAGTGACCCCCAAAATGGCAGTGTCTTAATCACCTAAAC
CTTAACATGTGACTATATTACCTTCACATAGCAAAATGGACTTTGCAGATGTGATTAAGGATCTTGAGATGGAAG
GAGTATCCTGGATTTTTCAGGTAACTGAGTATAATCACAAGGCCTCTGTAAAGGAGGCAGGAGTGTGAGAGTG
ACGGAAGAAAATGTATGTAACAATGGAAGCAGAGGTGAGAGTGTGCAATTGCTGGAGGAAGAGCCATGAGCCGA
GGAATGCAGACAGCCTCTTCTCCTCTGGGGCCTCAAGAAGAATGCAGTCTGCCAATACCTTGATTTTAAGCCCT
GTGAACTGATTTTCAGATTGCTGACCTCCAGAACAGTAAGATCATAAATTTGTGTTGTTTTTCATGTGTGAAAA
CACATGTGTGATAATTTGTTACAGCAGCCACGGGAAACGAATATAGATTGTGGTGCCCAAATTAGAGTGCTGCTG
TAACACACGCCTACTGATTGAAGTGGCTTTGGAATTGCAACGTGGAAATGGGCAGAGGCTGGAAGAATTTTGAGA
GTCATGATAAATTGCCTTAACCACC

4706/5332
FIGURE 4093

CTGCGGCCGCCAGCTCCCGCGACCGCCTCTCCTGCCCTCGCCGGTACCTCAGCAAGGTGCCACTAGAAGCGCCA
GGCTGGGGCCGCCCTCTGAGCGCCCCGCGGGGGCCATGGATGGTGAAACAGCAGAGGAGCAGGGGGGCCCTGTGCC
CCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGCGGCGGGAGCCCAAGAAGTACGCAGT
GACCGACGACTACCAGTTGTCCAAGCAGGTGOTGGGCTGGGTGTGAACGGCAAAGTGCTGGAGTGCTTCCATCG
GCGCACTGGACAGAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGACCATCACTG
GCAGGCTTCTGGCGGCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAAGCGCTGTCT
CCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTCAGCAGGATTCAGGAGCGTGGCGACCAAGGCTTTCAC
TGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAACATTGCCCA
CCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAGACGCAGTGCTTAAGCTCACCATTGTTGG
CTTTGCTAAGGAGACCACCAAAATGCCCTGCAGACACCTGCTATACTCCCTATTATGTGGCCCTGAGGTCTT
GGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCTTTGTGGCTT
CCCACCTTCTACTCCAACACGGGCCAGGCCATCTCCCGGGGATGAAGAGGAGGATTGCGCTGGGCCAGTACGG
CTTCCCCAATCCTGAAGTGGTGCAGAGTCTCTGAGGATGCCAAGCAGCTGATCCGCTCCTGTTGAAGACAGACCC
CACAGAGAGGCTGACCATCACTCAGTTCATGAACCACCCCTGGATCAACCAATCGATGGTAGTGCCACAGACCCC
ACTCCACACGGCCCGAGTGCTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGACCAGTGCCCTT
GGCCACTATGCGGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTCTAACAACCGGCTCCTCAACAA
GAGGAGAAAAAGCAGGCAGGCAGCTCCTCTGCCTCACAGGGCTGCAACAACCAAGTAGCTCATGGGGCCTTGGAG
GAGCCTGGCCTCTCAGCCTGCATAACAGACTGAAATGTGCTCAGGCCCTGGCCAGGAGGGCCAGGGTCATTCTT
TTAACAAAAGGATTATTTTGTGTGTTTTAATTTGTCACTCGGAACCTTCAGGATGGAGGACCCTGACCCTAAACC
TCCTTCAGATCTCTGGCCCAGGCTCAAGCCCTAGAGATGGGCAGGGCCTAGGGGCTGGGAGCTGCCTGCTGCCAT
AGCAGCACCTTTAGCTAGGTTGGCCCGAGTGAGGCCTCTGTGCTGTCTGCCCTGGTGCATGGCCTTAGCTTTCT
AGGCCACTGGGAGTTGTGGCTGGGCTTCCCATCTTCCACAGACATCTCCCTGTGGGATGGGCAGATGGGCCTG
GCCTTGAGAAAGGCATTGGCCATTGGTTGCCATGGTGACCAGGGACCACGTTGCTGCCTGTGAATGCTGAGTGAG
CGAGTAAGGGAGGAGGGGCGATTGAGGGTTACCTCTGCCTTGGGGAGGCTGATTTCTCACACACTGGCTGGCCC
TCTATTCTCACTCCTCCTTGGGCCCTGAGGCTGCTGGATCCGGTCTGCCTGCCTCCCTGTGCAGTCCAGCCCTG
CCTTGCTGCAGCCCCAGCCAGATGGCACTCAGCGCTCTCCCTGAGGGAGTCCCTGGGCCTAGCCATCCCTCA
CTATTCCCGACCCAAAGGGTGACTTTTTCATCTGAACCTAAGGTGGGAGATATTTTAACTTTTTCACCTTTGGA
AAATGTCACTGTGACAAAAGCCAGCATACTTTCCCTGCACCCATCTGCTCACCAGATCTCAGGCAGGAAAGCCCC
TCTCTGTTGAAGTCAGGGGCTATCTTTTGGTATACTTGTGTGAAAGTGGCTGGTTGGGAGCAGAGCTAAGTGGCT
TCCCATTAACTGAGGTCTCTTTCTTTACTCTGGGTGAGCTGAGGTTGGGGAAGGCGACTGAGCCATGCTCAG
AATGTCTGGTCTTGCTTGGGCCTGAGTAGGGCAGAGAGGGCCTTTCCTGGCTGATCAGAGCTTACCAGCCCCAC
CCCACCATGGTAGCCTTAGGGTGCTGAGTGCCTGATACTGCCTGACAAGTGCCTGACACGCAGCCTAGTTCCCTT
CTGGCCCTCTCTCACTGGCTGGGAAACCCTAGACCATGTCAGATAGGACAACACTGCTGGGTTTTACATCCAGA
TAGTAATAAACACCATTTTCATCATT

4707/5332
FIGURE 4094

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAAACCATCAAACTATTCCCACAGACGCCACATGAGC
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTGGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT
CAAAGACTGGATTCTGGCCACAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTTCTGAATCA
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAAGGAGCCACCACAGAACGAGCTCGGCACCC
ATCTACGAATGTATTGCTAAGGATCATTTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC
AATCACCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGAGGCCATCATTAGGTCACTGGAAAATGATATC
TTCCTGGAGGTTGATACTGGCTTCACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTTCATCATTCTCTCCTACACAACAAACCTT
GAACTCTTAGAAGCAGCTCTTGCCACAGGAGCCTCCAACCCGTTTTTCAGCCGGCTTTCTCTACTTGTCTCAT
TCCATGATCACAGAAAACAGCTCCATTAAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA
TGTTTCTTCGGCATTACTCAAAGTGCAGCTACACTCAGCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTCTGTTGGAAC
CCTCAGGAGTGGAAGAAATTGTTCAAACCTTGCTGCCCAGAGACTCTTCTTCCGATCAACCTGGAGCTCTAC
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCATGATGTGGCTTTGAAGAACTTTGCCAAATAC
TTTCTTACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA
ATCTTCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT
GACCCCCATTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG
GGAGACAGTGATAACGAAAGCTAA

4708/5332

FIGURE 4095

ATGATCTTTAATTTTGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATTTCAGGAATAC
ATACGACAACCTGCCTCCGAATTTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAACCCAGGAGTTTCCAAGCT
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG
CTCAAATCAGCTGTGCTTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATT
TCTGTTGGAAACCCCTCAGGAGTGGAAGAAATTGTTCAAACCCCTGTGCTGCCCAGAGACTCTTTCTCCGATCAAC
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAA
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG
GATGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTTAA

4709/5332
FIGURE 4096

GTCCCTCACACCGAGAGTTCCCTGCGCGTGGGGAGTTGGAGAGTTTGCCTGGCGGGAACGCGGCGGCAGTGAGAGC
GAGCGGCGCGGCCCTTGCCTCCGGTGCGGCGATGCTGACCCGCGGCTTCGACCTCAGCCAGGATCCGGACTTCC
TGACTATCGCCATCCGCGTGCCCTACGCCCCGGGTCTCCGAGTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGT
TCTACGCCAAGCCATACCTTTCTCAGATTAACCCCTTCTGGAAGAATTGTAGAAAATGGAAGTGAGCAAGGGTCCT
ATGATGCAGATAAAGGAATTTTACCATTGCGCTGCCCAAAGAAACCCCTGGCCAGCATTTTGAGGGGCTGAACA
TGTTAACTGCTCTTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGGAAGAAAATAGGTGCTTCTGAGA
TTCCTGAGGAAGTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCCTGTGAAGAGGTATCAGAAA
GTGCTTTGAATCCGCGAGTGCCACTATGGATTGGAACTTACGATCAGGAGTGTGCAACGGTTACAGGATGAAC
TGAGTGATGTTATTGATATTAAGGATCCAGATTTACCCCTGCAGCTGAACGAAGACAGAAGCGCCTGGCCGCTG
AGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGACTTTTTTGAAGATGAGGCGATTGAACAGATTTTGAAGT
ATAATCCTTGGTGGACTGACAAATATTCAAAAATGATGGCCTTTTTGGAAAAGAGTCAGGAACAAGAAAATCATG
CTACATTAGTGTCTTTTTCTGAAGAAGAGAAGTATCAGCTACGAAAATTTGTCAATAAATCTTATCTGCTGGACA
AGAGAGCCTGTCTCAAGTGTGTACAGTTTGATTGATATCCTTCTGGCATATTGCTATGAAACCCGTGTCACTG
AAGGAGAGAAGAATGTTGAATCTGCATGGAATATCAGGAACTGAGTCCAACACTATGCTGGTTTTGAGACTTGGA
CTAACGTTTCATGATATCATGGTGTCTTTTGAAGAAGGGTGTGTGTACCCACTCTATCGCCATTTCAAGCTGG
TGATGAAGGCCTACAGGGACACTATAAGATATTGCAACTGGGTAAAAGTGCAGTTTTAAAGTGTCTCTGGATA
TTCACAAAATTTTTCAGGAAAATGACCCAGCGTACATACTGAATGATCTCTACATCTCAGACTACTGTGTGTGGA
TTCAGAAAGTCAAATCCAAAAGTTGGCAGCTCTTGCAAGCCTTAAAGGAAGTCTCCCTTACAAAGGCCAGC
TGGGGTTAGAAGTGAAGAAGTGAAGCAGCAGCACTGCTTGTCCAGGAGGAAGAACTGCATTAAAAGCAGCCC
ATTCAGTTTTCTGGGCAGCAGACACTTTGCTCCAGCTCTGAGGCAAGTGATTCCGAGGACTCAGACAGCAGCGTGT
CATCTGGAACGAAGACTCAGGCTCAGATTCAGAACAGATGAACTCAAAGATAGTCCATCTGAGACAGTCAGTT
CTTTGCAAGGTCCCTTTCTTGAAGAAAGCAGTGCCTTTCTTATTGTTGATGGTGGAGTACGCAGAAACACAGCCA
TCCAGGAGTCTGATGCCAGTCAGGAAAGCCACTTGCCCTCTTCTGGCCTCTTGAGTGTCTGGGCCTCTGATAG
AGGAGCTTGGGGAACAAGTGAAGACTACAGTTGAGGTTTCTGAACCCAAGGGCACCCTGCTGTAAACCGCAGCA
ATATTCAGGAGAGAGACGGCTGTCAGACACCAATAATTGACTCTTAGGTGGTTTATTTCATTGTTGAGAAATAT
GGTAGATTGGGTTTCATTTACCGAATGAGAATCTTCATTTTCACTTTGTAAATTTTCTTAGTATATAGTCAGCC
CACTGTATTTGTGTGTTCCACATCTGTGGATTCAACCAACTGCAGATCAAAAAATTTGAAGAAAAAATCGCATCT
GTACCAAACATGTACAGACTTTTTTCTTGTATTATTCTCTAAATAATACAGTATGACAACTATTTCCACAGCAT
TTACATTGTATTGGGTAATATAAGTAATCTAGTGATGATTTAACTGTGCAAGGAGGATGTGGGTAGGTTATATGC
AAATACTGCACCATTTTTTATCAGGGCTTGAGCATCTGAGGATTTTAGTATCCTCAGGAGTCTTGAACCAACC
CCCCACAGATACGGGGACAACCTTTATGACATTGTTTTTCAACCAATGAATGTTTATACCTTTTGTCTTCTGCC
GCGACTGTGAAGATAAAGTTCAAAAGTATTTTTTACCAAAGTGTAGCTAATATTCAAGCTGAAAATAATAGTTCT
ACTGCCCCGTGTCTCCAGAATGTAGAGCCCATCAATATTTTTATTTTAGGAGGTGACTTGACACCCAATAAACTG
CACGTATCAAAAGTGTAATGTGTTGGCGTATGTATACCCTGCGTAAACTATCACCACAAGTGAAGTGAGGAA
CGGACCCATCATTTCCAAGTGCCCTTGTGCCCTGTTATTAGTTTGCATGTCCTAGAAATCTATGTAAATTGAATC
ATACAATATGTATCCCTTTTTTGGTCAGGCATATTTTACTCAGTATAGTTATTTTGAGATTCATCCATGTGGTAG
CATGTGTACAGAGTTTTTGTGTTTTTATGTTTTTCATTGCTGAGTACTGCTTCATTGAATAGATTTGTTTCATTGACC
TATCGATGGACACCTGGGTTGTTT

4710/5332
FIGURE 4097A

AGCGATCCGAGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGCTTGCCGCCGGGCTAGCACTGACGTGT
CTCTCGGCCGAGCTGCTGTGTCAGTGGAACGCGCTGGGCCCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGAGCCCGAGCAGCCGCCCGCCATGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGAAATTCAGAAGCCAGAGAGGAAGATTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCT
CTTATCTTCTTAGTGTGCTGCCAGATTCCCTGTTTGGGATCATGTCTTCAGATTACGCTGACCCCTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACGCTCTGGCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCAAAAGACCGAGCTCTCTTCAACGG
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTACGCTCTTTGTTGCTGGCTTAATTGTCTACT
TTTGATGAACTCCTGCAAAAAGGATAATGGCCTTGGCTCTGGTATTTCTCTCTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTACGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCACTGGTCTATCTATTTCCAGGGCTTCGAGTGGA
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCTCTCCCAAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCGGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCTTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCTCTGCCAAAGA
TGTTGCAAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCAA
CCGGTACATCCCCACAGCCCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCTTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCACTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCTCGGAAGGGGAGCTCTCATCATGGCGCTGCTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTCATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGCTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTACGCCGACTGCCAGAGAAGTGGAATGGTATAGGATTGTCCC
CAAGTGTCATGTAACCTTTTGTTTTAACTTTGCACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCACCTGT
TTCCCCACAAGGGAATTTCTCACTCTGGTTGGAAGCACAACACTGAAATGTCTACGTTTCAATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAAGACACTCCTGGCCATCTGTGGATTTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG
TCCACTTGGGTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCACTGATGTCCGTT
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTCGCTCACCAGT
GTCGTACAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCCGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCTGACGCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGACAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGAAGTTGCCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCCAGGGCTTACCACCTATCACAG
TGGCCTTGCTAGACCCAGTCTTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCACATGGTTCTC
CCACTGCCCTGTCTGCTGCTGCTACAGAGGGGAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGGCCTCT
GGCAGGCAGGCAGCTGTACCAAGCTGGTGGGAGGGGGCTGGAAGGCACCAAGGCTCAGGAGGAGGGCCATAGT
CCCGCTGCAGCTGTACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTG
GGTGGGTGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTG

4711/5332
FIGURE 4097B

AATAAGTGACAAATAAGCCAGTTTTTACAAGGT

4712/5332
FIGURE 4098

ATGAAGATTGAGGAGGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCCACAGCCACGTGAAAGGGCTGGGG
CTGGACGAGAGCGGCTTGGCCAAGCAGGCGGGCTCAGGGCTTGTGGGCCAGGAGAACGCGCGAGAGGTGTGGCCA
GTGGACCAGGGAGTTGGGGGCTGCAAGCAGGGCTGCTGCGGCGAGAGAGCTGCTGAAGTCGGGCCTGCAGGTGCT
CCAGGTGTCAGCGGGCGACTTTGGCCGCTGCAGAGACCGAGATACGCGGGGTAACAGCCCGTTCCGGAGCCGGTCAT
CAGGCGCCAAGCCCCGCTGGGCTCCTCGCAGCCGCGGGACCTTTCTCCGCCCTTCCCGAGGCTGAGTTTCTGAA
CGGGAAGCTGCCGGCCCCGCGGGGAGCCGGGAGCAGCCAGGGCGTGAGGACGTGGGTTCCTCGTCACCCCCGGCTT
GGAACAGCAGCGCCGCAACAACCGCTGGCGTTTCATCGAGCCTCTCAGCAGCCCTGCGAGGCGATCCCGGGGAGAA
TCCCACGCCACAGCCGAGGAACTGAGGCAGGCAGGGTGACACACAGCCAGTAGTGCGGGGCGGGCGCCAGGC
TGCCACCGCGCTGAGGACCGGGCCCTCTGCCAGCCGGGAGGCGTGGGGCAGGACAGCCGCGCTCTCGCCAGGGCC
CAGAGCCCCACTTTGCCAAGGAGCTGTCGCTGGAGCGGTGACTTTGTTTCAGGGCCGAGAACCGGAGGAGGAGGCC
AGACTTGCTGCTGGGCAGCTGGCACATGGGACATGGGGTGTTATGACTCCAGCATTTATGGAGCGCCTGCTGTGT
GCTCTGCAGGTGAGCAATGTGAGGCTCAGAGAAGAGAAACAGAAAGCCCGGAGGCTTGAGTGGGTGAGACACCCA
TCAGGAGCTTGGCATGAGTATGACAGCTCCTTGACGCAAAGTCCAGGGGGCATGAGTGCTGGGGCCATTGCAGGC
ACCAGGACCCAAGCCTAG

4713/5332
FIGURE 4099

AGGTAAAGGGAGAAGATGAGGAAGAGAACAAATTTGGAAGTACGTGAAACCAAAATTAAGGGTAAAAGTGGGAGAT
TCTTCACAGTCAAGCTCCCAGTTGCTCTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAAACAGTCTACACCC
ATGTGCTTCATCCATATCCAACCCAGATCACCCAGTCAGAGAAACAGTTTGTTGGTGTGTTGAGGGGAACCATTATT
TCTACTCTCCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCTCTCGAAATGTGGAGAGCTACACCA
AGCTGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCTTTTCAGAGATGTGCCTGCCTATAGTCAGG
ATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCT
CTCACTGGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCTTTCT
CACGCTATGATTACCAGAGACAGCCAGATAGTGGAAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTG
CTGCCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTG
TAGAGATGGAAATCCGGCCTCGCTTCCCTCTCTTTGGCGGGTGGGAAGACCCATTACATCGTTGGCTACAACCTCC
CAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATG
AACAAGTGATAGATTCTCTGACTGTGAAGATCATCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCT
ATGAAATCAGCCGTGCCCCAGATGAGCTGCACTACACCTATCTGGATACATTTGGCCGCCCTGTGATTGTTGCCT
ACAAGAAAAATCTGGTAGAACAGCACATTTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGC
AGGAGCCCCCTGCTGGTGGTGGCGGCCTTCTACATCCTGTTCTTCACCGTTATCATCTATGTTCCGGCTGGACTTCT
CCATCACCAAGGATCCAGCCGCAGAAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCA
ACAAGAGAATAGGCCCTTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCC
TCAACAGTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAGATTGCACCTGCTGCAGTCCAGGC
TGAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGG
TGCTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGA
AGCTCATCTCAGGAAAGCGCCAGGAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCG
CATCTCCAGGGGGGCCAGGGTGCCTGCACCTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATG
GAGGCCAGTGAAAGCTGACATCTGTAAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGT
TTGCCGTTTGTCTTAACTTTCTTTTTTTTTTTTTTTTTTAAAAAAGAAAACTTTAAAAAACTCCCATTAAAAACA
AAACATCTTTGTGTTTTGAACAAAGGAATTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAGGATATTTTT
CAGCCTATAAAGCCCCCTGTTTTATGCCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTT
TTTTTTTTTTTTTAAAGCGTGTGTGAACAAATGGAATAAAGCAGGGACTGTG

4714/5332
FIGURE 4100

CTGCTCTTCCCGGTCAATGGAGGCGCCAGCCGCCGGCTTGTTTCTGCTCCTGTTGCTTGGGACTTGGGCCCCGGCG
CCGGGCAGCGCCTCTCCGAGGCACCGCGCTGATCAATGAGGACGTGAAGCGCACAGTGAGCCTAAGCAGCCAC
CTGGCTAAGGTGACGGCCGAGGTGGTCTGGCGCACCTGGGCGGCGGCTCCACGTCCCGAGCTACCTCTTCTCTG
CTGGCTTTGGAGCCTGAGCTCGAGGCCCGGCTGGCGCACCTGGGCGTGCAGGTAAAGGGAGAAGATGAGGAAGAG
AACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAAGTGGGAGATTCTTCACAGTCAAGCTCCCAGTTGCT
CTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAAACAGTCTACACCCATGTGCTTCATCCGTATCCAACCCAG
ATCACCCAGTCAGAGAAACAGTTTGTGGTGTGTTGAGGGGAACCATATTTCTACTCTCCCTATCCAACGAAGACA
CAAACCATGCGTGTGAAGCTTGCCCTCTCGAAATGTGGAGAGCTACACCAAGCTGGGGAACCCACGCGCTCTGAG
GACCTACTGGATTATGGGCCTTTTCAGAGATGTGCCTGCCTATAGTCAGGATACTTTTAAAGTACATTATGAGAAC
AACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCTCTCACTGGGGTAATATTGCTGTGGAA
GAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCCTTTCTCACGCTATGATTACCAGAGACAGCCA
GATAGTGAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCTGCTGCTGCCAGGATGTTTATTACCGGGAT
GAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGCTTC
CCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCCCAAGCTATGAGTACCTCTATAATTTG
GGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATGAACAAGTGATAGATTCTCTGACTGTG
AAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAG
CTGCACTACACCTATCTGGACACATTTGGCCGCCCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC
ATTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCCTGCTGGTGGTGGCGGCC
TTCTACATCCTGTTCTTACCCTTATCATCTATGTTTCGGCTGGACTTCTCCATCACCAAGGATCCAGCCGCAGAA
GCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCAACAAGAGAATAGGCCTTTACCGTCAC
TTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCCTCAACAGTGGCAAGAAGAGCCTGGAG
ACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGCTGAAGACAGAGGGCTCTGATCTGTGC
GACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGGTGTGAAGTCGGCGGTGGAGGCTGAG
CGCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAG
CTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCGCATCCTCCAGGGGGCCAGGGTGCCT
GCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATGGAGGCCAGTGAAAGCTGACATCTGTA
AAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGTTTGCCGTTTGTCTTAACCTTTCTTTT
TTTTTTTTTTTAAAAAAGAAAACCTTTAAAAAACTCCCATTA AAAACAAAACATCTTTGTGTTTGAACAAAGG.
AATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAAGATATTTTTCAGCCTATAAAGCCCCCTGTTTTATG
CCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTTTTTTTTTTTTAAAGCGTGTGTGAACA
AATGGAAATAAAGCAGGGACTGTG

4715/5332
FIGURE 4101

TGGCAGGGCGGGCGGGTGAACGTGAACGTGGGCGTGCTGGGCCACATCGACAGCGGCAAGACGGCGCTGGCGCGGG
CGCTAAGCACCAACAGCCTCCACCGCCGCTTTGACAAGCAGCCGAGAGCCGAGCGCGGCATCACGCTCGATC
TGGGCTTCTCGTGCTTCTCGGTGCCGCTGCCGCGCGCCTGCGGTCTGCTTTGCCCGAGTTCCAGGCAGCGCCCG
AGGCCGAGCCCCGAGCCCCGGCGAGCCACTGCTTCAGGTACGCTGGTCGACTGCCCCGGGCACGCCTCCCTCATCC
GGACCATCATCGGCGGGGCCAGATCATTGATCTGATGATGCTGGTCATCGATGTGACCAAGGGGATGCAGACCC
AGTCAGCGGAATGCCTTGTGATCGGCCAGATTGCCTGCCAGAAGCTGGTCGTGGTGTGTAACAAAATAGACCTCT
TACCTGAAGGAAAGAGACAGGCAGCAATTGATAAAATGACCAAGAAAATGCAGAAGACCCTAGAGAACACCAAGT
TCCGAGGTGCACCGATTATACCCGTGGCGGCCAAGCCGGGGGGACCAGAGGCCCCGAAACTGAAGCTCCACAGG
GCATTCCAGAGCTCATTGAGCTCTGACGTCCAGATTTCCATCCCAACGAGAGACCCCTCGGGACCGTTTCCCTCA
TGTCTGTGGACCACTGTTTTCTCCATCAAAGGCCAAGGCACTGTGATGACAGGGACCATCCTTTTCAGGCTCCATCA
GCCTCGGTGACAGTGTGGAGATCCCTGCCCTCAAGGTGGTGAAGAAGGTGAAGTCCATGCAGATGTTCCACATGC
CCATCACTTCAGCCATGCAAGGAGACCGGCTGGGCATCTGCGTCACCCAGTTTGACCCTAAGCTGCTGGAGCGCG
GGTTGGTGTGTGCCCCGAGTCCCTGCACACTGTCCATGCGGCCCTCATCTCTGTGGAAGATAACCGTATTTCC
GGGGGCCCCCTGCAAACCAAGGCCAAGTCCACATTACAGTGGGCCATGAAACAGTCATGGGCCGGTTGATGTTCT
TCAGTCTCTGCTCCAGATAACTTTGACCAGGAGCCTATACTGGACTCTTTCAACTTCTCTCAAGAATACCTTTTCC
AGGAGCAGTACCTGTCCAAGGATTTGACACCAGCAGTGACAGACAATGATGAGGCCGACAAGAAGGCCGGCCAGG
CCACAGAGGGCCATTGTCCTCGGCAGCAGTGGGCCCTGGTGGAGTTTGAGAAGCCCGTCACCTGCCCTCGGCTGT
GCCTGGTGATTGGCTCCAGGCTAGATGCGGACATTACACCAACACGTGCCGGCTAGCCTTCCATGGCATCCTGC
TCCACGGGCTAGAGGACAGGAATAACGCCGACAGCTTCCCTGCCCAGGCTGAAGGTGTACAAGCTGAAGCACAAGC
ATGGCCTTGTGGAGCGGGCGATGGATGACTACAGTGTGATCGGCCGCTCCCTGTTCAAAAAGGAAACCAACATCC
AGCTCTTCGTGGGGCTCAAGGTGCACTTGTCCACTGGGGAAGTGGGCATCATCGACAGTGCCTTCGGCCAGAGCG
GCAAGTTCAAGATCCACATCCAGGTGGCCTCAGCCCCGAGTCCAAGAAGATCCTGACACCCGCCCTCAAGAAGC
GGGCCCCGGGCTGGCCGTGGGGAGGCCACCAGGCAGGAGGAGAGCGCCGAGCGGAGCGAGCCCTCACAGCATGTGG
TGCTCAGCCTGACTTTCAAGCGTTATGTCTTCGACACCCACAAGCGCATGGTTTCAGTCTCCCTGAGTGTCCGGTG
ACCTCCCCCAGGGCCTCCTTGCCAGCCAGTCCAGGCTGCTGTGCCAAATCCCAACCAGCCACGCCTCAGCCTC
TCCAGTCTCTCCCTGCAGTCTCTGCAGCAGCAGCCCCACCCCAAGCTTGGTGTGAGCCCTGGTGAGGAGCTG
AGGGGGATGGGTTGCTGGGGCCAGGAGGGTCTCTCTCCAGCCCCCTGCACACTCCACCCAGGACAGCCCCCAGC
CCAAC TAGGAAAGGGCCATGGGCAGAGGGCTGGTAGCCAGTATCTTCCACTGCCCCATCTGTTGGCCACCTGCAG
GCCAGTCTCAACCCTCCCCCAGGTGGGCAGGCACTTGATGGCTACAAATAAATGTCCCGTGGCCCCAGCCCACTC
T

4716/5332
FIGURE 4102

GTGAGCGCCAGGAAGGTAGCGAGGCCAGCGTCGCCCCGGGACTCGCTGCTCAAGTCTGTCTATTGCCTGCCGCCA
CATCCATCCTAGCAGGGCCCCGTGCCCCACCAGGCGGACAAAAGCGGTCCGCTGAACACCATGCGGCCGCTCGGC
GTGCCGCCAGGCTCTGCTGGTGAGCGCCGCCACCCCGCGCCAGGTCCCGCGAGCCCGCCTGCCGCGCACCTCG
CCCTGCTCCAGCTCTACTCCAGGCCCCGTCCGCCCCGGGGCGCCGCCACCAGCGCCTCGCTCGGGCCGTTGCCG
TCTGCACCCAGACCCTGAGCCGCCGCCGCCGCCATGGAGGTGGCGCCGAGCAGCCGCGCTGGATGGCGCACCC
GGCCGTGCTGAATGCGCAGCACCCGACTCACACCACCCGGGCTGGCGCACAACTACATGGAACCCGCGCAGCT
GCTGCCTCCAGACGAGGTGGACGTCTTCTTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGC
TCACGCGCGGGCGCGCGTCTCCTACAGCCCCGCGCAGCCCGCCTGACCGGAGGCCAGATGTGCCGCCACACTTG
TTGCACAGCCCGGTTTGGCCTGGCTGGACGGGGCAAAGCAGCCCTCTCTGCCGCTGCGGCCACCACCACAAC
CCCTGGACCGTGAGCCCCCTTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCACTCTCT
GTGTACCCAGGGGCTGGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACCCTACAGCAGCC
CACTCTGGCTCCCACCTTTTCGGCTTCCCACCCACGCCACCCAAAGAAGTGTCTCCTGACCCTAGCACCACGGGG
GCTGCGTCTCCAGCCTCATCTTCCGCGGGGGTAGTGCAGCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAG
GTGTCACTGACGGAGAGCATGAAGATGGAAAGTGGCAGTCCCCTGCGCCAGGCCTAGCTACTATGGGCACCCAG
CCTGTACACACCACCCATCCCCACCTACCCCTCCTATGTGCGGGCGGCTGCCACGACTACAGCAGCGGACTC
TTCCACCCCGGAGGCTTCTGGGGGGACCGGCCTCCAGCTTACCCCTAAGCAGCGCAGCAAGGCTCGTTCCTGT
TCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCCCTCTCTGGCGGGGGACGGCACCGGCCACTAC
CTGTGCAATGCCTGTGGCCTCTACCACAAGATGAATGGGCAGAACCAGCACTCATCAAGCCCAAGCGAAGACTG
TCGGCCGCCAGAAGAGCCGGCACCTGTTGTGCAAATTGTCAGACGACAACCACCACCTTATGGCGCCGAAACGCC
AACGGGGACCTGTCTGCAACGCCTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCATGAAG
AAGGAAGGGATCCAGACTCGGAACCGGAAGATGTCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGCTTC
GAGGAGCTGTCAAAGTGCATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCT
GTGGGCCACCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCACCCCTCCTCCAGC
CTCTCCTTCGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTGAGGACCG
GGCACTCCCGGGATGGGTGGACCAAACCTTAGCAGCCAGCATTTCGGAAGGCCGACACCACTCCTGCCAGCC
CGGCTCGGCCAGCACCCCTCTCCTGGAGGGCGCCAGCAGCCTGCCAGCAGTTACTGTGAATGTTCCCCACCG
CTGAGAGGCTGCCTCCGCACCTGACCGCTGCCAGGTGGGGTTTCTGTCATGGACAGTTGTTTGGAGAACAACAA
GGACAACTTTATGTAGAGAAAAGGAGGGGACGGGACAGACGAAGGCAACCATTTTAGAAGGAAAAGGATTAGG
CAAAAATAATTTATTTTGTCTTTGTTTCTAACAAGGACTTGGAGACTTGGTGGTCTGAGCTGTCCAAGTCCTCC
GGTTCCTCCTCGGGATTGGCGGGTCCACTTGCCAGGGCTCTGGGGGCGAGATTTGTGGGGACCTCAGCCTGCACCC
TCTTCTCCTCTGGCTTCCCTCTCTGAAATAGCCGAACCTCCAGGCTGGGCTGAGCCAAAGCCAGAGTGGCCACGGC
CCAGGGAGGGTGAGCTGGTGCCTGCTTTGACGGGCCAGGCCCTGGAGGGCAGAGACAATCACGGGCGGTCTTGCA
CAGATTCACAGGCCAGGGCTGGGTACAGGAAGGAAACAACATTTTCTTGAAAGGGGAAACGTCTCCAGATCGC
TCCCTTGGCTTTGAGGCCGAAGCTGCTGTGACTGTGTCCCTTACTGAGCGCAAGCCACAGCCTGTCTTGTGAGG
TGGACCTGTAAATACATCCTTTTTCTGTTAACCTTCAACCCCTCGCCTACTACTCTGAGAC

4717/5332
FIGURE 4103

CTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGTGTAAGCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCCCTCAGGAACGTACCCTGGCTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAAATTGAGAACCATTGCCAAGTCTGGTACTAAAGCATGCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTTTCTGCCTACCTGGTGGCAGAGAACTGGTTGTGATCACAA
AGCACAACGATGATGAACAGTAIGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGTGCATGCTGATCATGGTG
AGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACTTAGAAGAGAGGCGGG
TCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCATAGGCTATCCCATCACCTTTTATTGGAGAAGGAACAAGACA
AGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGACGAAGAAAAGC
CCAAGATCAAAGATGTGGGTTCAGATGAGGAGGATGACAGCAGTAAGGATAAGAAGAAGAAAATAAGAAGATCA
AAGAGAAATACATTGACTAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCATGATGACATCACCC
AAGAGGAGTATGGAGAATTCTATAAGAGCCTCACCAGTGACTGGGAAGACCCTTGGCAGTCAAGCACTTTTCTG
TAGAAGGTCAAGTTGGAATTCAGGGCATTGCTATTAGTCTCGTCCGGCTCCCTTTGACCTTTTGGAGAACAAGA
AGAAAAAGAACAACATCAAAGTGTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGT
ATCTCAATTTTATCCATGGTGTGGTTGACTCTGAGGATCTGCCCCTGAACATCTCCCGAGAAATGCTCCAGCAGA
GCAAAATCTTGAAAGTCATTGCAAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGACA
AGGAGATTATAAGAAATTCTATGAGGCATTTTCTAAAAATCTCAAGCTTGGAAATCCACGAAGACTCCACTAACCG
CCACCGCCTGTCTGAGCTGCTGCGCTGTCACACCTCCCAGTCTGGAGATGAGATGACATCTCTGTCTAGTATGT
TTCTCACATGAAGGAGACACAGAAGTCCACCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCTGC
TTTTGTGGAGCGAGTGCGGAAACAGGGCTTCGAGGTGGTATATATGACTGAGCCCATTGACGAGTACTGTGTGCA
GCAGCTCAAGGAGTTTGATGGGAAAAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTACCTGAGGATGAGGA
GGAGAAGAAGAAGATGGAAGAAAGCAAGGAAAAGTTTGAAGCCTCTGCAAGCTCATGAAAGAAATCTTAGATAA
GAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTACCCTGCTGCATTGTGACCAGCACCTACGGCTG
GACAGCCAATATGGAGCAGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAA
AAAGCACCTGGAGATCAACCCCGACCACCCCATCATGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGA
TAAGGCAGTTAAGGACCTGGTGGTGTGCTGTTTGAACCGCCCTGCTATCTTCGGGCTTTTCCCTTGAGGATCC
CCAGACCCACTCCAACCACATCTACCACATGATCAAGCTAGGTCTAGGTACTGATGAAGATGAAGTGGCAGCAGA
GGAACCCAGTGATGCAGTTCTGTGATGAGATCCCCCTCTTGAGGGTGATGAGGATGCGTCTCGCATGGAAGAAGT
CGATTAGGAGTTCATAGTTGGAACCTTGTGCCCTTGTATAGTGTCCCCATGGCTCCCACTGCAGCCTCGAGTGC
CCCTGTCCCACCTGGCTGCTGGTGTCTAGTGTTTTTTCCCTCTCCTGTCTTGTGTTGAAGGCAGGAAACCAAG
GGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGATTGTGTTTATTTTATTTTCT
TCATTTTGTCTGAAATTAAAGATGTAAAAATAAGAATATGCCGTTTTTATAC

4718/5332
FIGURE 4104

GAGCAGCAGAATTTCAACTCCAGTAGACTTGAATATGCCTCTGGGCAAAGAAGCAGAGCTAACGAGGAAAGGGAT
TTAAAGAGTTTTTCTTGGGTGTTTGTCAAACCTTTTATTCCCTGTCTGTGTGCAGAGGGGATTCAACTTCAATTTT
TCTGCAGTGGCTCTGGGTCCAGCCCCCTACTTAAAGATCTGGAAAGCATGAAGACTGGGCTTTTTTTCTATGTC
TCTTGGGAAGTGCAGCTGCAATCCCCGACAAATGCAAGATTATTATCTGATCATTCCAAACCAACTGCTGAAACGG
TAGCACCTGACAACACTGCAATCCCCAGTTTAAAGGGCTGAAGCTGAAGAAAATGAAAAAGAAACAGCAGTATCCA
CAGAAGACGATTCCCACCATAAGGCTGAAAAATCATCAGTACTAAAGTCAAAGAGGAAAGCCATGAACAGTCAG
CAGAACAGGGCAAGAGTTCTAGCCAAGAGCTGGGATTGAAGGATCAAGAGGACAGTGATGGTCACTTAAGTGTGA
ATTTGGAGTATGCACCAACTGAAGGTACATTGGACATAAAAGAAGATATGAGTGAGCCTCAGGAGAAAAAACTCT
CAGAGAACACTGATTTTTTGGCTCCTGGTGTTAGTTCCTTACAGATTCTAACCAACAAGAAAGTATCACAAAGA
GAGAGGAAAACCAAGAACAACCTAGAAATTATTACATCATCAGTTGAACAGGAGCAGTAAACATAGCCAAGGCC
TAAGGGATCAAGGAAACCAAGAGCAGGATCCAAATATTTCCAATGGAGAAGAGGAAGAAGAAAAAGAGCCAGGTG
AAGTTGGTACCCACAATGATAACCAAGAAAGAAAGACAGAATTGCCAGGGAGCATGCTAACAGCAAGCAGGAGG
AAGACAATACCCAATCTGATGATATTTTGAAGAGTCTGATCAACCAACTCAAGTAAGCAAGATGCAGGAGGATG
AATTTGATCAGGGTAACCAAGAACAAGATAACTCCAATGCAGAAATGGAAGAGGAAAATGCATCGAACGTCA
ATAAGCACATTCAAGAACTGAATGGCAGAGTCAAGAGGGTAAAACCTGGCCTAGAAGCTATCAGCAACCACAAAG
AGACAGAAGAAAAGACTGTTTCTGAGGCTCTGCTCATGGAACCTACTGATGATGGTAATACCACGCCCAGAAATC
ATGGAGTTGATGATGATGGCGATGATGATGGCGATGATGGCGGCACTGATGGCCCCAGGCACAGTGCAGTGTG
ACTACTTCATCCCAAGCCAGGCCCTTTCTGGAGGCCGAGAAGAGCTCAATCCATTGCCTATCACCTCAAAATTGAGG
AGCAAAGAGAAAAAGTACATGAAAATGAAAATATAGGTACCACTGAGCCTGGAGAGCACCAAGAGGCCAAGAAAG
CAGAGAACTCATCAAATGAGGAGGAAACGTCAAGTGAAGGCAACATGAGGGTGCATGCTGTGGATTCTTGATGA
GCTTCCAGTGTAAGAGAGGCCACATCTGTAAGGCAGACCAACAGGGAAAACCTCACTGTGTCTGCCAGGATCCAG
TGACTTGTCTCTCAACAAAACCCCTTGATCAAGTTTGTGGCACTGACAATCAGACCTATGCTAGTTTCTGTCTATC
TATTGCTACTAAATGCAGACTGGAGGGGACCAAAAAGGGGCATCAACTCCAGCTGGATTATTTTGGAGCCTGCA
AATCTATTCTACTTGTACGGACTTTGAAGTGATTCAAGTTTCTCTACGGATGAGAGACTGGCTCAAGAATATCC
TCATGCAGCTTTATGAAGCCAACCTCTGAACACGCTGGTTATCTAAATGAGAAGCAGAGAAATAAAGTCAAGAAAA
TTTACCTGGATGAAAAGAGGCTTTTGGCTGGGGACCATCCCATTTGATCTTCTCTTAAGGGACTTTAAGAAAACT
ACCACATGTATGTGTATCCTGTGCACTGGCAGTTTAGTGAACCTTGACCAACACCCTATGGATAGAGTCTTGACAC
ATTCTGAACCTTGCTCCTCTGCGAGCATCTCTGGTGCCCATGGAACACTGCATAACCCGTTTCTTTGAGGAGTGTG
ACCCCAACAAGGATAAGCACATCACCCCTGAAGGAGTGGGGCCACTGCTTTGGAATTAAGAAGAGGACATAGATG
AAAATCTCTTGTGTTTGAACGAAGATTTAAAGAACTCAACTTTCCAGCATCCTCCTCTGTTCTAACCACTTCAGA
AATATATGCAGCTGTGATACTTGTAGATTTATATTTAGCAAAATGTTAGCATGTATGACAAGACAATGAGAGTAA
TTGCTTGACAACAACCTATGCACCAGGTATTTAACATTAACCTTTGGAACAAAAATGTACAATTAAGTAAAGTCA
ACATATGCAAAATACTGTACATTGTGAACAGAAGTTAATTATAGTAATTTCACTCTCTGCATTGACTTATGAG
ATAATTAATGATTAACTATTAATGATAAAAAATAATGCATTTGTATTGTTTATAATATCATGTGCACTTCAAGAA
AATGGAATGCTACTCTTTTGTGGTTTACGTGTATTATTTTCAATATCTTAATACCCTAATAAGAGTCCATAAAA
ATCC

4719/5332
FIGURE 4105

AAAGCGCCATTACGCAGAGAGAAAGTTACGAGGTTTCGTGGCCGCGGTTTCCCCAGGCAGCTGGCGCTGGAGGCTT
CGGCGTCACGTGCTGGTCTGGATTTTCTCGATGCACTGGGGAAGCGGTGGACTCTTATCGTGGGAGGGCTCTT
GATCTGTGATTTATAGATAGGCACAGCTACTCCCGTTTCGGGAACCAACGGCAGACAGGTCCTAGTGCCCATCAG
ATACCCGCGGCCGGGACTCGGAGCTGTGGGGTGTGGGGAGGCGGAGGCACCAACTAAGAGCGACCTAGCATCGCA
AAGCCGCCCTCGGGGCGCTCATGGCGGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTGGCCT
TGGCCTCTGTGACTATCAGGTCCTCGCGCTGCCGCGGCATCCAGGCGTTCAGAACTCGTTTTCATCTTCTTGGT
TTCATCTTAATACCAACGTCATGTCTGGTTCTAATGGTTCCAAAGAAAATTCTCACAATAAGGCTCGGACGTCTC
CTTACCCAGGTTCAAAGTTGAACGAAGCCAGGTTCTAATGAGAAAGTGGGCTGGCTTGTGAGTGGCAAGACT
ATAAGCCTGTGGAATACACTGCAGTCTCTGTCTTGGCTGGACCCAGGTGGGCAGATCCTCAGATCAGTGAAAGTA
ATTTTCTCCCAAGTTTAAACGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTATGAGATTGAAA
ATGGAAGACCGAGAAATCCTGCAGGACGGACTGGACTGGTGGGCCGGGGGCTTTTGGGGCGATGGGGCCCAAATC
ACGCTGCAGATCCCATTTATAACCAGATGGAAGGGATAGCAGTGGAATAAAATCATGCATCCTGTTTCTGGGA
AGCATATCTTACAATTTGTTGCAATAAAAAGGAAAGACTGTGGAGAATGGGCAATCCCAGGGGGGATGGTGGATC
CAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACAGTG
CTGAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTTCAGCCAAGACCACCTAGTGATATATAAGGGATATG
TTGATGATCCTCGAAACACTGATAATGCATGGATGGAGACAGAAGCTGTGAACTACCATGACGAAACAGGTGAGA
TAATGGATAATCTTATGCTAGAAAGCTGGAGATGATGCTGGAAGTGAATGGGTGGACATCAATGATAAACTGA
AGCTTTATGCCAGTCACTCTCAATTCATCAAACCTTGTGGCTGAGAAACGAGATGCACACTGGAGCGAGGACTCTG
AAGCTGACTGCCATGCGTTGTAGCTGATGGTCTCCGTGTAAGCCAAAGGCCACAGAGGAGCATATACTGAAAAG
AAGGCAGTATCACAGAATTTATACTATAAAAAGGCGAGGGTAGGCCACTTGGCCTATTTACTTTCAAAACAATTT
GCATTTAGAGTGTTTTCGCATCAGAATAACATGAGTAAGATGAACTGGAACACAAAATTTTCAGCTCTTTGGTCAA
AAGGAATATAAGTAATCATATTTGTATGTATTCGATTTAAGCATGGCTTAAATTAAATTTAAACAATAATGCT
CTTGAAGAATCATAATCAGAATAAAGATAAAATCTTGATCAGCTAT

4720/5332

FIGURE 4106

CCTTGCTCTCGCCCCTACTCTTTCTGGTGTAGATCGAGCTACCCTCTAAAAGCAGTTTAGAGTGGTAAAAAAA
AAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGTTA
CTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTTAAGAGGAGAAAATCAGTCACCGGCCGAAATC
GTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGCTG
GTTCTCTGGGATATAAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTTCAT
ACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAGAT
GTTAGTATTTTAGTAAATAATGCTGGTGTAGTCTATACATCAGATTGTTTGCTACACAAGATCCTCAGATTGAA
AAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATAAC
CATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAAGC
AAGTTTGCTGCTGTTGGATTTTATAAACTTTGACAGATGAAGTGGCTGCCTTACAAATAACTGGAGTCAAAACA
ACATGTCTGTGTCTAATTTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGGAA
CCTGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTATA
GCTTTTTTAACAACATTGGAAAGGATCCTTCCTGAGCGTTTCCTGGCAGTTTTTAAACAAAAAATCAGTGTAAAG
TTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATTAAGCACCTAGTTTTCTGAAAACAGTTTACCAGGTTTA
GGTTGATGTCATCTAATAGTGCCAGAATTTTAAATGTTTGAAGTCTGTTTTTTCTAATTATCCCCATTTCTTCAA
TATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGATAT
AAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAATAAT
TTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTTTT
ATTTTTGATTGCACTTAAATTTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAGCT
CTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTCAATGAATATCATGAAGTCTCAATGGGTAGGTTTCA
TCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGGAAGCTA
GAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGATTTAAGGAGAATTGAGAGAATGTACCCACAAAT
GGCAGCAATAATAAATGGATCACACTTAA

4721/5332
FIGURE 4107A

GGCAATTTCTTTTCCCTTTCTAACTGTGGCCCGCGTTGTGCTGTTGCTGGGCAGGCGTTGGGCGCCGGCGGTCTTC
GAGCGTGGGGGCGCGCTGGCTTTCCCTTTCTCAGAACTGCGCCGGGGCGCTCGCTTGCCCCGGATTTCGGACGCG
GCGCTCCCCGGGCTCGTCTGAAGTGCAGATCGCCGAGAGGCCCGAGTGCCCGGATGTCCATCAGGATTAGCGCG
AGCCAATACGGGCGGAGCCCCGGGGCTGCGCCGAGGACGCCCGGGGCTCGAGAGCAGGTAGTCCCGTAACATCGGG
GCGCCGCGCCGGACGCGTCCCCGCGCGCTCCGCCAAATGGTGAGCGCGGCGCTGGCAGCAGGGCCCCGCGGGT
GAAGGCGCTCATGGACGGAAGACCCCTGGCTCTATAAGCTGAATTATGGCAGCCCAGTCAAGTTTGTACAAATGAC
GACAGAAACCTGCTTCGAATTAGAGAGAAGGAAAGACGCAACCAGGAAGCCCCACCAAGAGAAAGAGGCATTTCCCT
GAAAAGATTCCCTTTTTGGAGAGCCCTACAAGACAGCAAAAGGTGATGAGCTGTCTAGTCAATACAGAACATG
TTGGGAAACTACGAAGAAGTGAAGGAGTTTCCTTAGTACTAAGTCTCACACTCATCGCCTGGATGCTTCTGAAAAAT
AGGTTGGGAAAGCCGAAATATCCTTTAATTCCTGACAAAGGGAGCAGCATTCCATCCAGCTCCTTCCACACTAGT
GTCCACCACCACTCCATTACACTCCTGCGTCTGGACCCTTTCTGTTGGCAACATTAGCCACAATCCAAAGATG
GCGCAGCCAAGAAGTGAACCAATGCCAAGTCTCCATGCCAAAAGTCTCGGGCCACCGGACAGCCAGCACCTGACC
CAGGATCGCCTTGGTCAGGAGGGGTTTCGGCTCTAGTCATCACAAGAAAGGTGACCGAAGAGCTGACGGAGACCAC
TGTGCTTCGGTGACAGATTTCGGCTCCAGAGAGGGAGCTTTCTCCCTTAATCTCTTTGCTTCCCCAGTTCCCCCT
TTGTACCTATACATTCCAACAGCAAACTCTTCCCGGACGCAAGGAAGCAGCAAGGTTTCATGGCAGCAGCAAT
AACAGTAAAGGCTATTGCCAGCCAAATCTCCCAAGGACCTAGCAGTGAAAGTCCATGATAAAGAGACCCCTCAA
GACAGTTTGGTGGCCCCCTGCCAGCCGCTTCTCAGACATTTCCACCTCCCTCCCTCCCTCAAAAAGTGTGCA
ATGCAGCAGAAGCCACGGCTTATGTCCGGCCCATGGATGGTCAAGATCAGGCCCTAGTGAATCCCCTGAAGT
AAACCACTGCCGGAGGACTATCGACAGCAGACCTTTGAAAAACAGACTGAAAGTGCCTGCCAAAGCCAAGCTC
ACCAAAGTGAAGATGCCTTCTCAGTCAGTTGAGCAGACCTACTCCAATGAAGTCCATTGTGTTGAAGAGATTCTG
AAGGAAATGACCCATTTCATGGCCGCTCCTTTGACAGCAATACATACGCTAGTACAGCTGAGCCATCCAAGTTT
CCTTTCCCTACAAAGGACTCTCAGCATGTCAGTTCTGTAACCCAAAACCAAAACAATATGATACATCTTCAAAA
ACTCACTCAAATTCTCAGCAAGGAACGTCATCCATGCTCGAAGACGACCTTCAGCTCAGTGACAGTGAGGACAGT
GACAGTGAACAAACCCAGAGAAGCCTCCCTCCTCATCTGCACCTCCAAGTGTCCACAGTCCCTTCCAGAACCA
GTGGCATCAGCACATTCCAGCAGTGACAGAGTCAGAAAGCACCAGTGACTCAGACAGTTTCTCAGACTCAGAGAGC
GAGAGCAGTTCAAGTGACAGCGAAGAAAATGAGCCCTAGAAACCCAGCTCCGGAGCCTGAGCCTCCAACAACA
AACAAATGGCAGCTGGACAAGTGGCTGACCAAAAGTCAGCCAGCCAGCTGCGCCACCAGAGGGCCCCAGGAGCACA
GAGCCCCACGGCGGCACCCAGAGAGTAAGGGCAGCAGCGACAGTGCCACGAGTCAGGAGCATTCTGAATCCAAA
GATCCTCCCCCTAAAAGTCTCAGCAAAAGCCCCCGGGCCCCACCCGAAGCCCCCACCCCGGAAAGAGGAGCTGT
CAGAAGTCTCCGGCACAGCAGGAGCCCCACAAAGGCAAACCGTTGGAACCAAAACAACCCAAAAAACCTGTCAAG
GCCTCTGCCCCGGGAGGTTACGGACCAAGCTGACAGGGGAAAGGGAGCCAGGGCTTCTTCCCTATGGCTCCCGA
GACCAGACTTCCAAAGACAAGCCCAAGGTGAAGAAGGAGACGGCCCCGGGCCGAGCAAGCAACGAACCCAAAG
CCAGCAGTGCCCCCTCCAGTGAGAAGAAGAAGCACAAGAGCTCCCTCCCTGCCCCCTTAAGGCTCTCTCAGGC
CCAGAACCCGCGAAGGACAATGTGGAGGACAGGACCCCTGAGCACTTTGCTCTTGTTCCTTACTGAGAGCCAG
GGCCACCCACAGTGGCAGCGGCAGCAGGACTAGTGGCTGCCGCCAAGCCGTGGTGGTCCAGGAGGACAGCCGC
AAAGACAGACTCCCATTTGCCCTTGGAGAGACACCAAGCTGCTCTCACCCTCAGGGACACTCCTCCCCACAAAGC
TTGATGGTGAAGATCACCTTAGACCTGCTCTCTCGGATACCCAGCCTCCCGGGAAGGGGAGCCGCCAGAGGAAA
GCAGAAGATAAACAGCCGCCCGCAGGGAAGAAGCACAGCTCTGAGAAGAGGAGCTCAGACAGCTCAAGCAAGTTG
GCCAAAAGAGAAAGGTGAAGCAGAAAGAGACTGTGATAACAAGAAAATCAGACTGGAGAAGGAAATCAAATCA
CAGTCATCTTATCTTATCTCTCCCAAAAGAAATCTTCTAAAACAAAGCCCTCCAGGCCCTCCTCACAGTCTCTCA
AAGAAGGAAATGCTCCCCCGCCACCCGTGCTCTCGTCTCTCCAGAAGCCAGCCAAGCCTGCACTTAAGAGGTCA
AGGCGGGAAGCAGACACCTGTGGCCAGGACCCCTCCAAAAGTGCCAGCAGTACCAAGAGCAACCACAAAGACTCT
TCCATTCCCAAGCAGAGAAGAGTAGAGGGGAAGGGCTCCAGAAGCTCCTCGGAGCACAAGGGTTCTTCCGGAGAT
ACTGCAAATCCTTTTCCAGTGCCCTTCTTGCCAAATGGTAAGTCTAAACCAGGGAAGCCTCAAGTGAAGTTTGTAC
AAACAACAAGCAGACCTTCATGAGGGAGGCAAAAAGATGAAGCAGAAAGCAGAGTTAATGACGGGAGGGTT
GGAAAGGCTTTTAAGTACCTGGAAGCCGTCTGTCTTCTTATTGAGTGCAGGAAATGCCACAGAGCTGAAAGCCAG
TCATCCAAGTCAGCTTACTCTGTCTACTCAGAACTGTAGATCTCATTAAATTCTAATGTCTAATAAATCCTTC
TCAGATGCCACAGCGCCAACACAAGAGAAAAATTTGCTGTTTTATGCATGCGTTGCCAGTCCATTTTGAACATG

4722/5332
FIGURE 4107B

GCGATGTTTCGTTGTAAAAAGACATAGCAATAAAGTATTCTCGTACTCTTAATAAACACTTCGAGAGTTCTTCC
AAAGTCGCCAGGCACCTTCTCCATGCATTGCAAGCACAGGCACACCATCCCCTCTTTCCCCAATGCCTTCTCCT
GCCAGCTCCGTAGGGTCCCAGTCAAGTGCTGGCAGTGTGGGAGCAGTGGGGTGGCTGCCACTATCAGCACCCCA
GTCACCATCCAGAATATGACATCTTCTATGTACCATCACATCCCATGTTCTTACCGCCTTTGACCTTTGGGAA
CAGGCCGAGGCCCTCACGAGGAAGAATAAAGAATTCTTTGCTCGGCTCAGCACAAATGTGTGCACCTTGCCCTC
AACAGCAGTTTGGTGGACCTGGTGCACCTATACACGACAGGGTTTTTCAGCAGCTACAAGAATTAACCAAAACACCT
TAATGGAGCCCCAGGTTGATTCAATGCCTTGGGAACCTATTTTGCACATTGGAAGCCTCAAAAACAGTCCAGACA
TTTGTTCATCAGGACACCAAACCTCTAAAAAAGAAGCACCACGAGATGGCCAGGACATTTGTCCACTTAAACTCT
CAACAACAGTGTGATCATTGGTTGGACACTGTGGTTATGCAGAAGCAGAGATGAGGAGGCTGGCCCCAGAGATGA
TCTTGCCCTTCCCTAACTAAAGGACAGAAGTGCAATTTAGCTTAAATGGGTGTATGAATGGTCTAGAAACATTTCT
ATTTTTTTTTTAAACCAGCAGGATACAAGTTGCAAATGAAATGAGGAGAAACAGTTTCAACTCTGAAAGTGAATT
TCACGTCATCTCAGTAGCCACGCTAGTCCATTCCCAGAAGGAAATTTTTTTTTTAAACAATGACTTTTGGTAAAG
GGTTTTGTGGATGATTTTTTTTCTTTTGTAGTTTTGGGAGAAATATTTGTTTAGTAACTTCTAATGGCCATCTGTA
AACCATAAGTAATGAAGGACTCCACTGTGCCCCACTTTCTGCCAATGAACAGTGGCTTGATAATACCAAGTATTG
TTGTAATTTATAAAATGAAGGCAACCCCCGCTCCTGCCGCCCCCAATCTCCCCATTGCCTAGAGCGCTGCACAT
TGACCCAGCTCTGACTTCTCATTACTGTGCTGAAAGTCAGCCACGTCGGAGCGGTGAGGAGGAGCCACAGCAC
ATGGGGTGGCCACCTCGAGGTCTGCACAGGAGGACTTGGCGCTGCATTTCCTACCCCTGCCATTTCCCACCCCTG
CTTCAGCGAAAGGACTCTCTAACAGGGCAGTCACTGTTGACTCTATTCTGAATTTCTCCCTTGGGGAAGAAGG
GAACCAACATTTATACCTGACCAGATGGCTAAAGTGCTTTTAAAGTTTGTGTTAAGTAGAGCTGGAATTTGAGGT
GCTGATCTGTGGTCTACAGTTATGTGGTAACTCATGTTGTCCAGCCAACCTCAGAGTTTCGTCAGTGAACAAGAAA
CATGAAATCTGCTCTTAGAGAGGCTATATTTTTCTGCTACAAATATTTTATATTTATAGCAAACTAGACTTTC
AGAGTCCTTGATTGTCTAGGGGAAGTTAACTCCCTGAGAGGATGTAGAGATTTGGGGTGGTTGATTAGACTTTTG
AAAAACTCATCACCACATGCCCTTCACTCCAGAGTGTCTCAGCTAGATTTGATTTGGTTGAGGAGGAACGTGGC
CCTCCGTAAGTTATTGCCATAGTGTATGCATTAAACCAAGTCCATTTGAATGACCTAAAATGAAGTAACACAAT
CAGAAATCCCATGTGCCATAAGCACAGATTTTTCTTTTTCTATTGAAACTTTAAAGGTTATTATTGGAAACATTA
CTTTGAGTGCAGTGTTTTAAAGCCAATTCTTTTTTATCCCTTTTAGAAGTAGAATTTGCACACTTACTACAAT
TGAGGAGTGTCTCTCTATAACTTTTTCTCCGCCTTTGTCCCATTTCTGCCCTGTACATGTTTCCTACCAAGCAT
GTTTCACATTTTCTTATTAGTGGAGGAGGAGAAACCATATTTATTTATAATGAAGACATCTAAGATCCCCTATGAT
GAATGCAGGAACCTCTCTTGGTAGTTTGTAAATACACAAAGGGATGTGTGAGGGATGGGAGCGATGCTTATCTCT
CACAGTGTGAGTGGTCTGTGTGAGGCTGTTTCTTCACTTTCTTCTCCAGACTGTTCTTTGGTTGTCATAAGTCA
GAGGTCTGGTCCCTCATGTTTAGGTGAAAGCCAGAGAAATGACAGCTGTAGTCATATCTGAGCATAAGACCTTGAT
GTGTGATTCTGATGACCGGTTTCATTTATTCATGTTATAAAGCAAAGCCCTGGTCTTTTTTAACTACTAGTTT
TAAAAACCTGTGTTAAATGAACAGTAATTGCCCTGGTAGGTTTGGTGTGTGTGTAGCATTGTGTGTCCATCTGTTA
TATGTAAAGGACAAGGCACCAGAATCAGGCTTTATTTGATATTGAAGATGTTATTTAACATCTTTCTTTTTTCC
TTACTCCCTTAGCCATCCCCTCCCCTTTTGTCTATCATTCCCTAGAACAAGCCACCTGTCAATTGTGAAGGGT
GTGTTCTTTATGGCAGGTTCTATGCAGATTGTGCCAGAGCATGTGCGTGTCTGTTGGCAAGCCACAGTGTCTCC
TTGACTGAAGACATTTCCAGGTAGATTTCTCAGCCAGCTCTAAAACAGATTGCTTTTTTCAGTGGCCTTACTCTTT
GTGGGTTTTTTTTTTTTTCTCTGAACTTGATATAAAGATTTTATTTGTCCCTTGAAAAAGTAACAAATGTGCATA
GATCAATTTGTACTTCTTGGTCATTGGATATTTCTGATCCTTATTGCATTGTACCTAAAGGAGAGTAACATAATG
GTAACCTTTTTTAATAGAGTATGTGAAAGGTAGTGGCTGATGAATCCTTAACGTTTCATAGGGTCTTTTTGCTGTTA
CGGTTGTATATAGAGGTCTGAAGGATTTTTTAAATGATTTGCACTTTTTCACTGCATGCTTACAATTTCCCAAAGG
CAAAATCTGTACTGAGGTAGATCATTGAAAGGGCTAGATTATAAAATTAAGCCTTAGAGTATGGAAGTCTTTA
TAACAATAATAGTACACACTTCAGAGTAAGACAATGCAAGCATCTTAAGGAGTGAAAAATAGAGTGTAAATCTT
GCCTTTGGCACTACAAGGT
TTTTTTTTTTTTTAAAGTGTAAATGTTTCTGTCTCTTCTGTGAATTATTGAATTTAAGAGCCCTGCTAAATAATGA
AAAAACACTTTTACTAAAAATTTATCAAAATATACTGGGTTCGGATTGTGAAAAACATTGGCCACCTAGTAGCAGTGG
TGAGGAGTGGGAGGGCCAGCAAGCATTTATCAGAAATAGAATCACAATAGGAGGAGAATTTGACTGTCTGATAT
TATGATTTGATTACAATACTGAATGGGAAAAGTATCTAATATTTTGTAAACAAAAAGACCTTCATATTATCTGTTT

4723/5332
FIGURE 4107C

TGACCAAAATATGTAGCTATTTCCCTTACACAGATTGGACCGCACTTATCTCCCTTGTCCCTGTATCCTTTAATTT
CAGGTCTCAGGATGTTTAGAAAGCTAAAACCCCTACCCCTTTCTGGCTGAAAACCTTGCCTTATTTGGTATCTTA
CACATTAATGTTACTAGCATCAGGAGCTTACTGTTTTATTATGATTTCATCTTCAGTAATTTTTAGAAAGCAAGAAG
AAAGCCATTGTGTCCTCTACAATTAACAAAACCTTATCTCTGATATACAAAGGGATATAAATATATACACTTAAAT
AGAGAAAAAGAGGTTGATTGAATTGTGCCTTTGAGTGAACCCAGTTTTTAAATACCGCTGTGTTTGTTCGCCAT
GGCTTCAGGGATGCTACATGGCTCTTGACCTTTTACTCCTCTGCTTTATGAAGTTTGAGTTGTATTTGTGCATC
TTAAAGTAGGTTGAGGCTTGAGGCTGGGCTTTTCGGGTTTTTTGTTTTTTGTTTTGTTTTGTTTTGTTTT
CTTGACTTAAACCTGCTTGCTTCCCTACCACAGATTCTTATTTTCCCAAACACTACAAAAAACTTTTAAACT
TTGCCATTTTCATCTGTTTACACTCTTTGCCACTGATTAGCAGTATTTAAATCTTGCAAGAATATTTTGTGCTTTC
TTTAGAAACACAAGAGTATAGATTTTTTCTCACTGAAAAGTGAGAGTTACGCATTGCAGCCATGAAGGGATGCTAG
GATCAATTATGGCAGTACCTTTTTTCCCTCCTGTTCTTGAGCCAGTTGTCTCTTTTGTGTTGGGTCCCACTTAG
GATTAATGGATGTAAGGTATTTTCCCTGTGCCTTTATTTGTGTCTATTCTATTGGAAGGAGGTGAACGGCAGAAT
AGCATCGTGTGGGGGTTTTTCCCTCAAACACTGCAAGTGATATTGCCACCATGTGAACCTCAAATATGCAATCCA
GTTGTGTTGGTTTTCTCGGTGACTTGGAGTGTTCATCTCTTCATGAATTGTGAGCACTGACCATGTTCTTCAGTTC
TTAATTATGGTGAGTTGACAAATACCAACTACTGCTTTTCTTTAGGTGGCTATAAATTTCTTACTGTGAGGAGGA
AATGACATTATATCTGTTCCACTGAACGTCAGAGATCAGCAGGCAGTGTACTGGGTAGAGAAGTGCCTATACTT
CTCTACCTAAGAGGGCAGGAGGGAAACCCTACAGCTCCTTGTGAGCCTATATATTAGTATATCGGCCTGGAGAGG
ACAAGGGAATAAGACCACTCATAGTGAGGCTGGCCAAGCTGCACTGGTTCGGACCAGGCAGTGGCTGACCTAAGGA
AGACAACCTTGCTTTGCTTAAAAGTAGATTTTTTAAGCAATGCTTAACACAGGCAGCATTACCTTTGTTCAGGCC
ATCGACATGTATTGTTAAAATTACTGCATATCCCCCTCAGATATCAAGTATACACTGTTTCATGTTGGGGTTGTGT
GTGTGTATGTGTGTATGTACGCACGCATGTGTCCCAAACTTGTGTTTTAATTTTTTTTTTCTGAATGTGATCATGT
TTTGGATGATACCTGAGCAGGGTTGCCTTTTTTTTATTTATTACCATTATATATTATATTATATTATATA
TTTTTTGCTTTCTTATAACTTTGGAGGAAAGTCAAATCTTGGTATTATTAATTTGTTTTAAAAAGGAGTAAAT
TTCCAGTTGATAAATGAAAATCACTGGCCTATGTTTAATAAGTTTTTCTTTAATTACTGTGGAATAACGTGCCAG
CTATCATCAACACAATGATTTTGTACATAGGGTAGGGAAGCAGTGATGCTCTCAATGGGAAGATGTGCAACACAA
ATTAAGGGGAACCTCCATGTATTTTACCTACTTCAGCAATGGAAGTCAACTTGGGGCTTTGTGAATAAAATTTAG
CTGCCTTGTATAGTCGTTTGAAAGAATATGTGATCTGTGAGAGAATTATAGTTTTTTTTTAGAAGAAAAATCTGC
AAAAGATCTTTCCAAAGACAATGTGCCACAGATCTTTGTTCTCTGTAATGAGGATTAATTGCTGTTTAAACAAA
AATGTAATTGTTTCATCTTTAAATCTTTCCCTTTTCATAAGAGGATCAAGCTGTAAAAAACAAAAAATTAATAA
AAATTTTCGAGAAATC

4724/5332
FIGURE 4108

CTTCGCCGCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAA
ACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCC
CGCTGGGTCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCTTCACGTGGCTCTTCCTGCTGGTGTCTG
CCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCAGTGGCCCTGTT
CTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGA
CTACCCGCCCCCTGCGCATGCCCATCATCCCTTCCTGCTCTTGAGCGCTCACCCCTGCTGAGGCTCAGCCCCCTCAA
CCCGGTGGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGCCCCAGTCG
GGA

4725/5332
FIGURE 4109A

GTAATATGCACGTGTCACTAGCTGAGGCCCTGGAGGTTTCGGGGTGGACCACTTCAGGAGGAAGAAATATGGGCTG
TATTAAATCAAAGTGCTGAAAGTCTCCAAGAATTATTCAGAAAAGTAAGCCTAGCTGATCCTGCTGCCCTTGGCT
TCATCATTCTCCATGGTCTCTGCTGTTGCTGCCATCTGGTAGTGTGTCATTTACAGATGAAAATATTTCCAATC
AGGATCTTCGAGCATTCACTGCACCAGAGGTTCTTCAAATCAGTCACTAATCTCTCTCAGATGTTGAAAAGA
TCCACATTTATTCTCTTGGAAATGACACTGTATTGGGGGGCTGATTATGAAGTGCCTCAGAGCCAACCTATTAAGC
TTGGAGATCATCTCAACAGCATACTGCTTGGAAATGTGTGAGGATGTTATTTACGCTCGAGTTTCTGTTCCGACTG
TGCTGGATGCTTGCACTGCCACATTAGGAATAGCAATTGTGCACCCTCATTTTCTACGTGAAACACTTGGTAA
AACTGGTTCTGGGAAATCTTTCTGGGACAGATCAGCTTTCTGTAAACAGTGAACAAAAGCCTGATCGAAGCCAGG
CTATTCGAGATCGATTGCGAGGAAAAGGATTACCAACAGGAAGAAGCTCTACTTCTGATGTACTAGACATACAAA
AGCCTCCACTCTCTCATCAGACCTTTCTTAACAAAGGGCTTAGTAAATCTATGGGATTCTGTCCATCAAAGATA
CACAAGATGAGAATTATTTCAAGGACATTTATCAGATAATTCTGGACGTGAAGATTCTGAAAATACATTCTCCC
CTTACCAGTTCAAACACTAGTGGCCAGAAAAAAACCCATCCCTGGCATTGATGTGCTTTCTAAGAAGAAGATCT
GGGCTTCATCCATGGACTTGCTTTGTACAGCTGACAGAGACTTCTCTTCAGGAGAGACTGCCACATATCGTCGTT
GTCACCCTGAGGCAGTAACAGTGGGACTTCAACTACTCTAGAAAAAAGGAGGCAAGATACTCAGATGGAAGTA
TAGCCTTGGATATCTTTGGCCCTCAGAAAATGGATCCAATATATCACACTCGAGAATTGCCACCTCCTCAGCAA
TATCAAGTGCTTTGGACCGAATCCGAGAGAGACAAAAGAACTTCAGGTTCTGAGGGAAGCCATGAATGTAGAAG
AACCAGTTCGAAGATACAAAACCTTATCATGGTGATGCTTTAGTACCTCCAGTGAAGTCCATCTATTATTTCTCT
CTGAATCAGATTTAGACAAGTGAGAAGAAGTGAAGCCTCAAAGAGGTTTGAATCCAGCAGTGGTCTCCAGGGG
TAGATGAAACCTTAAGTCAAGGCCAGTCAACAGAGACCGAGCAGACAATATGAAACACCTTTGAAGGCAACTTAA
TTAATCAAGAGATCATGCTAAAACGGCAAGAGGAAGAAGTGAATGCAGCTACAAGCCAAAATGGCCCTTAGACAGT
CTCGGTTGAGCCTATATCCAGGAGACACAATCAAAGCGTCCATGCTTGACATCACCAGGGATCCGTTAAGAGAAA
TTGCCCTAGAAACAGCCATGACTCAAAGAAAAGTGAAGAAATTTCTTTGGCCCTGAGTTTGTGAAAATGACAATTG
AACCATTTATATCTTTGGATTGGCCACGGTCTATTCTTACTAAGAAAGGGAAGAATGAGGATAACCGAAGGAAAG
TAAACATAATGCTTCTGAACGGGCAAAGACTGGAAGTACCTGTGATACCAAACTATATGTAAAGATGTGTTTG
ATATGGTTGTGGCACATATTGGCTTAGTAGAGCATATTTGTTTGCTTTAGCTACCTCAAAGATAATGAATATT
TCTTTGTTGATCCTGACTTAAATTAACCAAAGTGGCCCCAGAGGGATGGAAAGAAGAACCAAGAAAAAGACCA
AAGCCACTGTAAATTTTACTTTGTTTTTCAGAATTAAATTTTTTATGGATGATGTTAGTCTAATACAACATACTC
TGACGTGTATCAGTATTACCTTCAGCTTCGAAAAGATATTTTGGAGGAAGGATGCACTGTGATGATGAGACTT
CCTTATTGCTGGCATCCTTGGCTCTCCAGGCTGAGTATGGAGATTATCAACCAGAGGTTGATGGTGTGCTTACT
TTAGAATGGAGCACTATTTGCCGCCAGAGTGAATGGAGAACTTGATTTATCTATATCAAAGAAGAGTTACCCA
AATTGCATAATACCTATGTGGGAGCTTCTGAAAAGAGACAGAGTTAGAATTTTAAAGGTCTGCCAAAGACTGA
CAGAATATGGAGTTCAATTTTACCAGTGCACCCTGAGAAGAAGTCAACACAGGAATATTGCTTGGAGTCTGTT
CTAAAGGTGTCCTTGTGTTTGAAGTTCACAATGGAGTGCACATTGGTCTTCGCTTCCATGGAGGGAACCA
AGAAAATATCTTTTCTAAAAGAAAATCACATTGCAAAATACATCAGATGGAATAAAACATGGCTTCCAGACAG
ACAACAGTAAGATATGCCAGTACCTGCTGCACCTCTGCTCTTACCAGCATAAGTTCAGCTACAGATGAGAGCAA
GACAGAGCAACCAAGATGCCCAAGATATTGAGAGAGCTTCGTTTAGGAGCCTGAATCTCCAAGCAGAGTCTGTTA
GAGGATTTAATATGGGACGAGCAATCAGCACTGGCAGTCTGGCCAGCAGCACCTCAACAACTTGCTGTTTCGAC
CTTTATCAGTTCAAGCTGAGATTCTGAAGAGGCTATCCTGCTCAGAGCTGTCGCTTTACCAGCCATTGCAAAACA
GTTCAAAGAGAAGAATGACAAAGCTTCATGGGAGGAAAAGCCTAGAGAGATGAGTAAATCATACCATGATCTCA
GTCAGGCCTCTCTCTATCCACATCGGAAAAATGTCATTGTTAAACATGGAACCCCCACCACAAAACCGTTGCAGAGT
TGGTGGGAAAACCTTCTCACCAGATGTCAAGATCTGATGCAGAATCTTTGGCAGGAGTGACAAAACCTTAATAATT
CAAAGTCTGTTGCGAGTTTAAATAGAAGTCTGAAAGGAGGAAACATGAATCAGACTCCTCATCCATTGAAGACC
CTGGGCAAGCATATGTTCTAGGAATGACTATGCATAGTTCTGGAAAACCTTTCATCCCAAGTACCTTAAAGAAA
ATGATGTGCTACACAAAAGATGGAGCATAGTATCTTACCAGAAAAGGGAGATCACCTTAGTGAACCTGAAAAAG
ATGCAAAAGTATGGCTTGGGATTTCAAATTATTGGTGGGGAGAAGATGGGAAGACTGGACCTAGGCATATTTATCA
GTTCAAGTTGCCCTGGAGGACCAGCTGACTTGGATGGATGCTTGAAGCCAGGAGACCGTTTGATATCTGTGAATA
GTGTGAGTCTGGAGGGAGTCAGCCACCATGCTGCAATTGAAATTTTGAAGTGCACCTGAAGATGTGACACTTG
TTATCTCTCAGCCAAAAGAAAAGATATCCAAAGTGCTTCTACTCTGTGCATCTACCAATGAGATGAAAACT

4726/5332
FIGURE 4109B

ACATGAAGAAATCTTCTACATGCAAGACAGTGCTATAGATTCTTCTTCCAAGGATCACCCTGGTCACGTGGTA
CCCTGAGGCACATCTCGGAGAACTCCTTTGGGCCATCTGGGGCCCTGCGGGAAGGAAGCCTGAGTTCTCAAGATT
CCAGGACTGAGAGTGCCAGCTTGTCTCAAAGCCAGGTCAATGGTTTCTTTGCCAGCCATTTAGGTGACCAAACCT
GGCAGGAATCACAGCATGGCAGCCCTTCCCCATCTGTAATATCCAAAGCCACCGAGAAAGAGACTTTCACTGATA
GTAACCAAAGCAAACTAAAAAGCCAGGCATTTCTGATGTAAGTACTGATTACTCAGACCGTGGAGATTGAGACATGG
ATGAAGCCACTTACTCCAGCAGTCAGGATCATCAACACCAAACAGGAATCTTCTCTTCAGTGAATACATCCA
ACAAGATGAATTTTAAACTTTTTCTTCATCACCTCCTAAGCCTGGAGATATCTTTGAGGTTGAACTGGCTAAAA
ATGATAACAGCTTGGGGATAAGTGTACGGTACTGTTTGACAAGGGAGGTGTGAATACGAGTGTGAGACATGGTG
GCATTTATGTGAAAGCTGTTATTCCCCAGGGAGCAGCAGAGTCTGATGGTAGAATTCACAAAGGTGATCGCGTCC
TAGCTGTCAATGGAGTTAGTCTAGAAGGAGCCACCCATAAGCAAGCTGTGGAAACACTGAGAAATACAGGACAGG
TGGTTCATCTGTTATTAGAAAAGGGACAATCTCCAACATCTAAGAACATGTCCCGGTAACCCACAGTGTACCC
TTTCAGATCAGAATGCCCAAGGTCAAGGCCAGAAAAAGTGAAGAAAACAACCTCAGGTCAAAGACTACAGCTTG
TCACTGAAGAAAATACATTTGAGGTAAAATTATTTAAAAATAGCTCAGGTCTAGGATTGAGTTTTCTCGAGAAG
ATAATCTTATACCGGAGCAAATTAATGCCAGCATAGTAAGGGTTAAAAAGCTCTTTCTGGACAGCCAGCAGCAG
AAAGTGGAAAAATTGATGTAGGAGATGTTATCTTGAAAGTGAATGGAGCCTCTTTGAAAGGACTATCTCAGCAGG
AAGTCATATCTGCTCTCAGGGGAAGTGTCCAGAAGTATTCTTGCTTCTCTGCAGACCTCCACCTGGTGTGTAC
CGGAAATTGATACTGCGCTTTTGACCCCACTTCAGTCTCCAGCACAGTACTTCCAAACAGCAGTAAAGACTCTT
CTCAGCCATCATGTGTGGAGCAAAGCACCAGCTCAGATGAAAATGAAATGTGAGACAAAAGCAAAAAACAGTGCA
AGTCCCCATCCAGAAGAGACAGTTACAGTGACAGCAGTGGGAGTGGAGAAGATGACTTAGTGACAGCTCCAGCAA
ACATATCAAATTCGACCTGGAGTTCAGCTTTGCATCAGACTCTAAGCAACATGGTATCACAGGCACAGAGTCATC
ATGAAGCACCCAAGAGTCAAGAAGATACCATTTGTACCATGTTTTACTATCCTCAGAAAATTCCCAATAAACAG
AGTTTGAGGACAGTAATCCTTCCCCCTCTACCACCGGATATGGCTCCTGGGCAGAGTTATCAACCCCAATCAGAAT
CTGCTTCTCTAGTTTCGATGGATAAGTATCATATACATCACATTTCTGAACCAACTAGACAAGAAAACCTGGACAC
CTTTGAAAAATGACTTGGAATAACCTTGAAGACTTTGAACTGGAAGTAGAACTCCTCATTACCCTAATTTAAAT
CAGAAAAAGGAAGCCTGGGTTTTACAGTAACCAAAGGCAATCAGAGAATTGGTTGTTATGTTTCATGATGTCATAC
AGGATCCAGCCAAAAGTGATGGAAGGCTAAAACCTGGGGACCGGCTCATAAAGGTTAATGATACAGATGTTACTA
ATATGACTCATACAGATGCAGTTAATCTGCTCCGGGCTGCATCCAAAACAGTCAGATTAGTTATTGGACGAGTTC
TAGAATTACCCAGAATACCAATGTTGCCTCATTGCTACCGGACATAACACTAACGTGCAACAAAGAGGAGTTGG
GTTTTCTCTTATGTGGAGGTCATGACAGCCTTTATCAAGTGGTATATATTAGTGATATTAATCCAAGGTCGGTCG
CAGCCATTGAGGGTAATCTCCAGCTATTAGATGTCATCCATTATGTGAACGGAGTCAGCACACAAGGAATGACCT
TGGAGGAAGTTAACAGAGCATTAGACATGTCACCTTCCTTATTGGTATTGAAAGCAACAAGATGATCTTCCAGTG
GTCCCCAGCTCAAAGAGGTCTGCTGTTTCAGCTCAAAGTCAACCAAAGGCAATGGTTCTCAGAGTGGGGTCT
TGCAGCCAGCCTGCCCTCACTCCTAATGATTATTCTCCACGGTTGCTGGGGAAGAAATAAATGAAATATCGTAC
CCCAAAGGAAAATGTTCTACTTATCAGATAAAGGGATCACCAAACCTTGACTCTGCCCAAAGAATCTTATATACAA
GAAGATGACATTTATGATGATTCCCAAGAAGCTGAAGTTATCCAGTCTCTGCTGGATGTTGTGGATGAGGAAGCC
CAGAATCTTTTAAACGAAAATAATGCAGCAGGATACTCCTGTGGTCCAGGTACATTAAAGATGAATGGGAAGTTA
TCAGAAGAGAGAAACAGAAGATACAGACTGCGATGGTTACCTTTACCTGAGTATTTTACTGAGGCCACCAAATG
AATGGCTGTGAAGAATATTGTGAAGAAAAAGTAAAAAGTGAAAGCTTAATTCAGAAGCCACAAGAAAAGAAGACT
GATGATGATGAAATAACATGGGGAATGATGAGTTGCCAATAGAGAGAACAACCATGAAGATTCTGATAAAGAT
CATTCCTTTCTGACAAACGATGAGCTCGCTGTACTCCCTGTGCTCAAAGTGCTTCCCTCTGGTAAATACACGGGT
GCCAACTTAAAATCAGTCATTTCAGTCTCGCGGGTTTGTAGATCAAGGAATTCCTTCTAAGGAGCTGGAGAAT
CTTCAAGAATTAACCTTTGGATCAGTGTCTAATTGGGCAAACTAAGGAAAACAGAAGGAAGAACAGATATAAA
AATATACTTCCCTATGATGCTACAAGAGTGCCCTTGGAGATGAAGGTGGCTATATCAATGCCAGCTTCATTAAG
ATACCAGTTGGGAAAGAAGAGTTCGTTTACATTGCTGCCAAGGACCACTGCCTACAACCTGTTGGAGACTTCTGG
CAGATGATTTGGGAGCAAAAATCCACAGTGATAGCCATGATGACTCAAGAAGTAGAAGGAGAAAAATCAAATGC
CAGCGCTATTGGCCCAACATCCTAGGCAAAACAACATGGTCAGCAACAGACTTCGACTGGCTCTGTGAGAATG
CAGCAGCTGAAGGGCTTTGTGGTGAGGGCAATGACCCTTGAAGATATTGAGACCAGAGAGGTGCGCCATATTCT
CATCTGAATTTCACTGCCTGGCCAGACCATGATACACCTTCTCAACCAGATGATCTGCTTACTTTTATCTCCTAC

4727/5332
FIGURE 4109C

ATGAGACACATCCACAGATCAGGCCCAATCATTACGCAGTGCAGTGCTGGCATTGGACGTTTCAGGGACCCTGATT
TGCATAGATGTGGTTCTGGGATTAAATCAGTCAGGATCTTGATTTTGACATCTCTGATTTGGTGCGCTGCATGAGA
CTACAAAGACACGGAATGGTTCAGACAGAGGATCAATATATTTTCTGCTATCAAGTCATCCTTTATGTCCTGACA
CGTCTTCAAGCAGAAGAAGAGCAAAAAACAGCAGCCTCAGCTTCTGAAGTGACATGAAAAGAGCCTCTGGATGCAT
TTCCATTTCTCTCCTTAACCTCCAGCAGACTCCTGCTCTCTATCCAAAATAAAAGATCACAGAGCAGCAAGTTCAT
ACAACATGCATGTTCTCCTCTATCTTAGAGGGGTATTCTTCTTGAAAATAAAAAATATTGAAATGCTGTATTTT
ACAGCTACTTTAACCTATGATAATTATTTACAAAATTTTAACACTAACCAAAACAATGCAGATCTTAGGGATGATT
AAAGGCAGCATTGATGATAGCAGACATTGTTACAAGGACATGGTGAGTCTATTTTAAATGCACCAATCTTGTTT
ATAGCAAAAATGTTTTCCAATATTTTAATAAAGTAGTTATTTTATAGGGGATACTTGAAACCAGTATTTAAGCTT
TAAATGACAGTAATATTGGCATAGAAAAAGTAGCAAATGTTTACTGTATCAATTTCTAATGTTTACTATATAGA
ATTTCTGTAAATATATTTATATACTTTTTTCATGAAAATGGAGTTATCAGTTATCTGTTTGTTACTGCATCATCTG
TTTGTAATCATTATCTCACTTTGTAAATAAAAAACACACCTTAAAACATG

4728/5332
FIGURE 4110

GGAGAGCGCGCTCTGCCTGCCGCTGCCTGCCTGCCACTGAGGGTTCCAGCACCATGAGGGCCTGGATCTTCTT
TCTCCTTTGCCTGGCCGGGAGGGCCTTGGCAGCCCCCTCAGCAAGAAGCCCTGCCTGATGAGACAGAGGTGGTGGA
AGAAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCAGGTGGAAGTAGGAGAATTTGATGA
TGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCCACTGCAAACACGGCAAGGT
GTGCGAGCTGGATGAGAACAACACCCCCATGTGCGTGTGCCAGGACCCACCAGCTGCCCAGCCCCCATTGGCGA
GTTTGAGAAGGTGTGCAGCAATGACAACAAGACCTTCGACTCTTCCTGCCACTTCTTTGCCACAAAGTGCACCCT
GGAGGGCACCAAGAAGGGCCACAAGCTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCCTTGCCTGGA
CTCTGAGCTGACCGAATTCCCCCTGCGCATGCGGGACTGGCTCAAGAACGTCCTGGTCACCCTGTATGAGAGGGA
TGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGA
GGCAGGAGACCACCCGCTGGAGCTGCTGGCCCGGGACTTCGAGAAGAATAACATGTACATCTTCCCTGTACA
CTGGCAGTTTCGGCCAGCTGGACCAGCACCCCATTTGACGGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGC
TCCCTCATCCCCATGGAGCATTGCACCACCCGCTTTTTTCGAGACCTGTGACCTGGACAATGACAAGTACATCGC
CCTGGATGAGTGGGCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGATCTTGTGATCTAAATCCACTC
CTCCACAGTACCGGATTCTCTCTTTAACCTCCCCCTTCGTGTTTCCCCCAATGTTTAAATGTTTGGATGGTTT
GTTGTTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTACGGTGCTAAAAATGAAAATTCTA
ACCAAGACATGACATTCTTAGCTGTAACTTAACATTAAAGGCCTTTTCCACACGCATTAATAGTCCATTTTTTC
TCTTGCCATTTGTAGCTTTGCCATTGTCTTATTGGCACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAA
CACACATTGCAGCTTCAACTTTTTCTCTTTAGTGTCTGTTTGAACTAATACTTACCGAGTCAGACTTTGTGTTT
ATTTCAATTCAGGGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGGGAAGTAACAGACA
CACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCTCAGTGGTGGGAGAGATCCCTGCAGAACCCACCAACCAG
AACGTGGTTTGCCTGAGGCTGTAACTGAGAGAAAAGATTCTGGGGCTGTGTTATGAAAATATAGACATTCTCACAT
AAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTCAGTGCAGTTTCTTTTCACATTAGGCTGTTGGTTCAAAC
TTTGGGAGCACGGACTGTGAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTCTGTCTTTTG
GAGAACCCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCCAAAATCAAGAGTGA
GATGTAGAAAGTTGTAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCTCATTATTAATCAAGAGAACTTCAAAG
TTAATGGGATGGTTCGATCTCACAGGCTGAGAACTCGTTCACCTCCAAGCATTTTCATGAAAAAGCTGCTTCTTAT
TAATCATACAACTCTCACCATGATGTGAAGAGTTTCAAAATCCTTCAAATAAAAAGTAATGACTTAGAAACT
G

4729/5332
FIGURE 4111A

GGAGTTTTCCACCATGACTATTGCCCTGCTGGGTTTTGCCATATTCTTGCTCCATTGTGCGACCTGTGAGAAGCC
TCTAGAAGGGATTCTCTCCTCTGCTTGGCACTTCACACACTCCCATTACAATGCCACCATCTATGAAAAATC
TTCTCCCAAGACCTATGTGGAGAGCTTCGAGAAAATGGGCATCTACCTCGCGGAGCCACAGTGGGCAGTGAGGTA
CCGGATCATCTCTGGGGATGTGGCCAATGTATTTAAACTGAGGAGTATGTGGTGGGCAACTTCTGCTTCCTAAG
AATAAGGACAAAGAGCAGCAACACAGCTCTTCTGAACAGAGAGGTGCGAGACAGCTACACCCTCATCATCCAAGC
CACAGAGAAGACCTTGGAGTTGGAAGCTTTGACCCGTGTGGTGGTCCACATCTGGACCAGAATGACCTGAAGCC
TCTCTTCTCTCCACCTTCGTACAGAGTCACCATCTCTGAGGACATGCCCCCTGAAGAGCCCCATCTGCAAGGTGAC
TGCCACAGATGCTGATCTAGGCCAGAATGCTGAGTTCTATTATGCCCTTAACACAAGGTGAGAGATGTTTGCCAT
CCATCCCACCAGCGGTGTGGTCACTGTGGCTGGGAAGCTTAACGTACCTGGCGAGGAAAGCATGAGCTCCAGGT
GCTAGCTGTGGACCGCATGCGGAAAATCTCTGAGGGCAATGGGTTTGGCAGCCTGGCTGCACTTGTGGTTTATGT
GGAGCCTGCCCTCAGGAAGCCCCCAGCCATTGCTTCGGTGGTGGTGAAGTCCACCAGACAGCAATGATGGTACCAC
CTATGCCACTGTACTGGTTCGATGCAAATAGCTCAGGAGCTGAAGTGGAGTCAGTGGAAAGTTGTTGGTGGTGACCC
TGGAAGCACTTCAAAGCCATCAAGTCTTATGCCCGGAGCAATGAGTTTCAAGTTTGGTGTCTGTCAAAGACATCAA
CTGGATGGAGTACCTTCATGGGTTCAACCTCAGCCTCCAGGCCAGGAGTGGGAGCGGCCCTTATTTTTATTCCCA
GATCAGGGGCTTTACCTACCACCTTCCAACTGTCTTCCCTCAAATTCGAGAAGGCTGTTTACAGAGTGCAGCT
TAGTGAGTTTTCCCTCCTGGCAGCCGCGTGGTGTGATGGTGAGAGTCACCCAGCCTTCCCCAACCTGCAGTATGT
TCTAAAGCCATCTTCAGAGAATGTAGGATTTAACTTAATGCTCGAACTGGGTTGATCACCACCACAAAGCTCAT
GGACTTCCACGACAGAGCCCACTATCAGCTACACATCAGAACCTCACCAGGCCAGGCTCCACCCTGGTGGTCAAT
TGACATTGTGGAGTCAACAACCATGCCCCCTCTTCAACAGGTCTTCTATGATGGTACCTTGGATGAGAATCAT
CCCTCCAGGCACCATGTTTTGGCTGTGACTGCCACTGACCGGGATCATGGGGAAAATGGATATGTCACCTATTC
CATTGCTGGACCAAAAGCTTTGCCATTTTCTATTGACCCCTACCTGGGGATCATCTCCACCTCCAAACCCATGGA
CTATGAACTCATGAAAAGAAATTTATACCTTCCGGGTAAGAGCATCAGACTGGGGATCCCCCTTTTCGCCGGGAGAA
GGAAGTGTCCATTTTTCTTCAGCTCAGGAACCTGAATGACAACCAGCCTATGTTTGAAGAAGTCAACTGTACAGG
GTCTATCCGCCAAGACTGGCCAGTAGGGAAATCGATAATGACTATGTCAGCCATAGATGTGGATGAGCTTCAGAA
CCTAAATACGAGATTGTATCAGGCAATGAACTAGAGTATTTTGATCTAAATCATTTCTCCGGAGTGATATCCCT
CAAACGCCCTTTTATCAATCTTACTGCTGGTCAACCCACCAGTTATTCCTGAAGATTACAGCCTCAGATGGCAA
AAACTATGCCTCACCCACAACCTTTGAATATTACTGTGGTGAAGGACCCCTCATTTTGAAGTTCCTGTAACATGTGA
TAAACAGGGGTATTGACACAATTCACAAAGACTATCTCCACTTTATTGGGCTTCAGAACCAGGAGTCCAGTGA
TGAGGAATTCACCTCTTTAAGCACATATCAGATTAATCATTACACCCACAGTTTGGAGGACCACTCCCCCAATC
CATTGATGTCTTGAGAGTGTCCCTATCAACACCCCTTGGCCCGCCTAGCAGCCACTGACCCTGATGCTGGTTT
TAATGGCAAACCTGGTCTATGTGATTGCAGATGGCAATGAGGAGGGCTGCTTTGACATAGAGCTGGAGACAGGGCT
GCTCACTGTAGCTGCTCCCTTGGACTATGAAGCCACCAATTTCTACATCCTCAATGTAACAGTATATGACCTGGG
CACACCCACAGAAGTCTCTGGAAGCTGCTGACAGTGAATGTGAAGACTGGAATGACAACGCACCCAGATTTC
TCCCGGTGGGTACCAGTTAACCATCTCGGAGGACACAGAAGTTGGAACCACAATTGCAGAGCTGACAACCAAAGA
TGCTGACTCGGAAGACAATGGCAGGGTTCGCTACACCCTGCTAAGTCCACAGAGAAGTTCTCCCTCCACCCTCT
CACTGGGGAACCTGGTTGTTACAGGACACCTGGACCGCAATCAGAGCCTCGGTACATACTCAAGGTGGAGGCCAG
GGATCAGCCAGCAAAGGCCACCAGCTCTTCTGTGCTACTGACCTGATAATCACATTGGAGGATGTCAACGACAA
CTCTCCCCAGTGATCAGAACACAACAGGCTGAAGGTTCCAGAGGACCTGCCCCCGGGACTGTCTTGACATT
TCTGGATGCCTCTGATCCTGACCTGGGCCCCGAGGTGAAGTGCGATATGTTCTGATGGATGGCGCCCATGGGAC
CTTCCGGGTGGACCTGATGACAGGGCGCTCATTCTGGAGAGAGAGCTGGACTTTGAGAGGCGAGCTGGGTACAA
TCTGAGCCTGTGGGCCAGTGATGGTGGGAGGCCCTAGCCCGCAGGACTCTCTGCCATGTGGAGGTGATCGTCCT
GGATGTGAATGAGAATCTCCACCTCCCCACTTTGCCTCCTTCGTGCACCAGGGCCAGGTGCAGGAGAACAGCCC
CTCGGGAACCTCAGGTGATTGTAGTGGCTGCCCAGGACGATGACAGTGGCTTGGATGGGGAGCTCCAGTACTTCCT
GCGTGCTGGCACTGGACTCGCAGCCTTCAGCATCAACCAAGATACAGGAATGATTCAGACTCTGGCACCCTTGGA
CCGAGAATTTGCATCTTACTACTGGTTGACGGTATTAGCAGTGGACAGGGGTCTGTGCCCCCTCTCTTCTGTAAC
TGAAGTCTACATCGAGGTTACGGATGCCAATGACAACCCACCCAGATGTCCCAAGCTGTGTTCTACCCCTCCAT
CCAGGAGGATGCTCCCGTGGGCACCTCTGTGCTTCAACTGGATGCCTGGGACCCAGACTCCAGCTCCAAAGGGA
GCTGACCTTCAACATCACCAGTGGGAACATACATGGGATTCTTTATGATTACCCCTGTTACAGGTCTCCTATCTAC

4730/5332
FIGURE 4111B

AGCCCAGCAGCTGGACAGAGAGACAAGGATGAACACATCCTGGAGGTGACTGTGCTGGACAATGGGGAACCCCTC
ACTGAAGTCCACCTCCAGGGTGGTGGTAGGCATCTTGGACGTCAATGACAATCCACCTATATTCTCCACAAGCT
CTTCAATGTCCGCCTTCCAGAGAGGCTGAGCCCTGTGTCCCTGGGCCTGTGTACAGGCTGGTGGCTTCAGACCT
GGATGAGGGTCTTAATGGCAGAGTCACCTACAGTATCGAGGACAGCGATGAGGAGGCCTTCAGTATCGACCTGGT
CACAGGTGTGGTTTCATCCAGCAGCACTTTTACAGCTGGAGAGTACAACATCCTAACGATCAAGGCAACAGACAG
TGGGCAGCCACCCTCTCAGCCAGTGTCCGGCTACACATTGAGTGGATCCCTTGGCCCCGGCCGCTCCTCCATCCC
TCTGGCCTTTGATGAGACCTACTACAGCTTTACGGTCATGGAGACGGACCCTGTGAACCACATGGTGGGGTTCAT
CAGCGTAGAGGGCAGACCCGGACTCTTCTGGTTCAACATCTCAGGTGGGGATAAGGACATGGACTTTGACATTGA
GAAGACCACAGGCAGCATCGTCATTGCCAGGCCTCTTGATACCAGGAGAAGGTGCGAACTATAACTTGACTGTTGA
GGTGACAGATGGGTCCCGCACCATTGCCACACAGGTCCACATCTTCATGATTGCCAACATTAACCACCATCGGCC
CCAGTTTCTGGAACCTCGTTATGAAGTCAGAGTTCCCCAGGACACCGTGCCAGGGGTAGAGCTCCTGCGAGTCCA
GGCCATAGATCAAGACAAGGGCAAAAGCCTCATCTATACCATAACATGGCAGCCAAGACCCAGGAAGTGCCAGCCT
CTTCCAGCTGGACCCAAGCAGTGGTGTCTGGTAACGGTGGGAAAATTGGACCTCGGCTCGGGGCCCTCCAGCA
CAGCTGACAGTATGGTCCGAGACCAGGAAATACCTATCAAGAGGAACTTCGTGTGGGTGACCATTTCATGTGGA
GGATGGAAACCTCCACCCACCCGCTTCACTCAGCTCCATTATGAGGCAAGTGTTCCTGACACCATAGCCCCCGG
CACAGAGCTGCTGCAGGTCCGAGCCATGGATGCTGACCGGGGAGTCAATGCTGAGGTCCACTACTCCCTCCTGAA
AGGGAACAGCGAAGGTTTCTTCAACATCAATGCCCTGCTAGGCATCATTACTCTAGCTCAAAAGCTTGATCAGGC
AAATCATGCCCCACATACTCTGACAGTGAAGGCAGAAGATCAAGGCTCCCCACAATGGCATGACCTGGCTACAGT
GATCATTTCATGTCTATCCCTCAGATAGGAGTGCCCCCATCTTTCAAAATCTGAGTACTTTGTAGAGATCCCTGA
ATCAATCCCTGTTGGTTCCCCAATCCTCCTTGCTCTGCTATGAGCCCTCTGAAGTTACCTATGAGTTAAGAGA
GGGAAATAAGGATGGAGTCTTCTCTATGAACATCATATTCTGGCCTTATTTCCACCCAGAAAGAAATTGGACCATGA
GAAATCTCGTCTTACCAGCTGAAATCCGAGGCAGCAATATGGCAGGTGCATTTACTGATGTATGGTGGTGGT
TGACATAATTGATGAAATGACAATGCTCCTATGTTCTTAAAGTCAACTTTTGTGGGCCAAATAGTGAAGCAGC
TCCACTGTATAGCATGATCATGGATAAAAACAACCCCTTTGTGATTTCATGCCTCTGACAGTGACAAAGAAGC
TAATTCCTTGTGGTCTATAAAATTTTGGAGCCGGAGGCCTTGAAGTTTTTCAAAATTGATCCAGCATGGGAAC
CCTAACCATTTGATCAGAGATGGATTATGAGAGCATGCCCTCTTTCCAATTCTGTGTCTATGTCCATGACCAAGG
AAGCCCTGTATTATTTGCACCCAGACCTGCCCAAGTCATCATTTCATGTGAGAGATGTGAATGATTCCCTCCAG
ATTCTCAGAACAGATATATGAGGTAGCAATAGTCGGGCCTATCCATCCAGGCATGGAGCTTCTCATGGTGCGGGC
CAGCGATGAAGACTCAGAAGTCAATTATAGCATCAAACTGGCAATGCTGATGAAGCTGTTACCATCCATCCTGT
CACTGGTAGCATATCTGTGCTGAATCCTGCTTTCTGGGACTCTCTCGGAAGCTCACCATCAGGGCTTCTGATGG
CTTGTATCAAGACACTGCGCTGGTAAATTTCTTTGACCCAAGTGCTTGACAAAAGCTTGACAGTTTGTATCAGGA
TGCTACTTGGGCAGCTGTGAAGGAGAACTTGACAGGACAGAAAGGCACTGGTGAATCTTGGTGCCAGGGCAATCA
TTGAATGACACCCCTTTCTACTTTCTCTTGAATGGCACAGATATGTTTCATATGGTCCAGTCAGCAGGTGTGTT
GCAGACAAGAGGTGTGGCGTTTGACCGGGAGCAGCAGGACACTCATGAGTTGGCAGTGAAGTGAGGGACAATCG
GACACCTCAGCGGGTGGCTCAGGGTTTGGTCAGAGTCTCTATTGAGGATGTCAATGACAATCCCCCAAATTTAA
GCATCTGCCCTATTACACAATCATCCAAGATGGCACAGAGCCAGGGGATGTCCTCTTTCAGGTATCTGCCACTGA
TGAGGACTTGGGGACAAATGGGGCTGTTACATATGAATTTGCAGAAGATTACACATATTTCCGAATTGACCCCTA
TCTTGGGGACATATCACTCAAGAAACCCCTTGATTATCAAGCTTTAAATAAATATCACCTCAAAGTCATTGCTCG
GGATGGAGGAACGCCATCCCTCCAGAGTGAGGAAGAGGTACTTGTCACTGTGAGAAATAAATCCAACCCACTGTT
TCAGAGTCCTTATTACAAAGTCAGAGTACCTGAAAATATCACCTCTATACCCCAATCTCCACACCCAGGCCCG
GAGTCCAGAGGGACTCCGGCTCATCTACAACATTGTGGAGGAAGAACCCTTGATGCTGTTCAACCACTGACTTCAA
GACTGGTGTCTTAACAGTAACAGGGCCTTTGGACTATGAGTCCAAGACCAAACATGTGTTACAGTCAGAGCCAC
GGATACAGCTCTGGGGTCAATTTTCTGAAGCCACAGTGGAAGTCTAGTGGAGGATGTCAATGATAACCCCTCCAC
TTTTTCCCAATTGGTCTATACCACTTCCATCTCAGAAGGCTTGCTGCTCAGACCCCTGTGATCCAACCTGTTGGC
TTCTGACCAAGGACTCAGGGCGGAACCGTGACGTCTCTTATCAGATTGTGGAGGATGGCTCAGATGTTTCCAAGTT
CTTCCAGATCAATGGGAGCACAGGGGAGATGTCCACAGTTCAAGAAGTGGATTATGAAGCCCAACAACACTTTCA
TGTGAAAGTCAGGGCCATGGATAAAGGAGATCCCCCACTCACTGGTGAACCCCTTGTTGGTTGTCAATGTGTCTGA
TATCAATGACAACCCCCAGAGTTCAGACAACCTCAATATGAAGCCAATGTCACTGAACTGGCAACCTGTGGACA

4731/5332
FIGURE 4111C

CCTGGTTCTTAAAGTCCAGGCTATTGACCCTGACAGCAGAGACACCTCCCGCTGGAGTACCTGATTCTTTCTGG
CAATCAGGACAGGCACCTTCTTCATTAACAGCTCATCGGGAATAATTTCTATGTTCAACCTTTGCAAAAAGCACCT
GGACTCTTCTTACAATTTGAGGGTAGGTGCTTCTGATGGAGTCTTCCGAGCAACTGTGCCTGTGTACATCAACAC
TACAAATGCCAACAAGTACAGCCAGAGTTCAGCAGCACCTTTATGAGGCAGAATTAGCAGAGAATGCAATGGT
TGGAACCAAGGTGATTGATTGCTAGCCATAGACAAAGATAGTGGTCCCTATGGCACTATAGATTATACTATCAT
CAATAAACTAGCAAGTGAGAAGTCTCCATAAAACCCCAATGGCCAGATTGCCACTCTGCAGAACTGGATCGGGA
AAATTCAACAGAGAGAGTCAATTGCTATTAAGGTGATGGCTCGGGATGGAGGAGGAAGAGTAGCCTTCTGCACGGT
GAAGATCATCTCACAGATGAAAATGACAACCCCCACAGTTCAAAGCATCTGAGTACACAGTATCCATTCAATC
CAATGTCAGTAAAGACTCTCCGGTTATCCAGGTGTTGGCCTATGATGCAGATGAAGGTGAGAACGCAGATGTAC
CTACTCAGTGAACCCAGAGGACCTAGTTAAAGATGTCAATTGAAATTAACCCAGTCACTGGTGTGGTCAAGGTGAA
AGACAGCCTGGTGGGATTGGAAAATCAGACCCTTGACTTCTTCATCAAAGCCCCAAGATGGAGGCCCTCCTCACTG
GAACTCTCTGGTGCCAGTACGACTTCAGGTGGTTCCTAAAAAAGTATCCTTACCGAAATTTTCTGAACCTTTGTA
TACTTTCTCTGCACCTGAAGACCTTCAGAGGGGTCTGAAATTGGGATTGTTAAAGCAGTGGCAGCTCAAGATCC
AGTCATCTACAGTCTAGTGCAGGGGCACTACACCTGAGAGCAACAAGGATGGTGTCTTCTCCCTAGACCCAGACAC
AGGGGTGATAAAGGTGAGGAAGCCCATGGACCACGAATCCACCAATTGTACCAGATTGATGTGATGGCACATTG
CCTTCAGAACACTGATGTGGTGTCTTGGTCTCTGTCAACATCCAAGTGGGAGACGTCAATGACAATAGGCCTGT
ATTTGAGGCTGATCCATATAAGGCTGTCTCTCACTGAGAATATGCCAGTGGGGACCTCAGTCATTCAAGTGACTGC
CATTGACAAGGACACTGGGAGAGATGGCCAGGTGAGCTACAGGCTGTCTGCAGACCCTGGTAGCAATGTCCATGA
GCTCTTTGCCATTGACAGTGAGAGTGGTGGATCACCACACTCCAGGAACCTGACTGTGAGACCTGCCAGACTTA
TCATTTTCATGTGGTGGCCTATGACCACGGACAGACCATCCAGCTATCCTCTCAGGCCCTGGTTCAGGTCTCCAT
TACAGATGAGAATGACAATGCTCCCCGATTTGCTTCTGAAGATACAGAGGATCTGTGGTTGAGAACAGTGAGCC
TGGCGAAGCTGGTGGCGACTCTAAAGACCCTGGATGCTGACATTTCTGAGCAGAACAGGCAGGTACCTGTACAT
CACAGAGGGAGACCCCTGGGCCAGTTTGGCATCAGCCAAGTTGGAGATGAGTGGAGGATTTCTCAAGGAAGAC
CCTGGACCGCAGCATAACAGCCAGTACTTGCTCAGAGTCACAGCATCTGATGGCAAGTTCCAGGCTTCGGTCAC
TGTGGAGATCTTTGCTCTGGACGTCAATGATAACAGCCACAGTGTTCACAGCTTCTCTATACTGGCAAGGTTCA
TGAAGATGTATTTCCAGGACACTTCATTTTGAAGGTTTCTGCCACAGACTTGGACACTGATACCAATGCTCAGAT
CACATATTCTCTGCATGGCCCTGGGGCGCATGAATTCAGCTGGATCCTCATAAGGGGAGCTGACCACACTCAC
TGCCCTAGACCGAGAAAGGAAGGATGTGTTCAACCTTGTGGCAAGGCGACGGATGGAGGTGGCCGATCGTGCCA
GGCAGACATCACCTCCATGTGGAGGATGTGAATGACAATGCCCCGCGGTTCTTCCCCAGCCACTGTGCTGTGGC
TGTCTTCGACAACACCACAGTGAAGACCCCTGTGGCTGTAGTATTTGCCCGGGATCCCGACCAAGGCGCCATGC
CCAGGTGGTTTACTCTCTGCCGGATTAGCCGAAGGCCACTTTTCCATCGACGCCACCACGGGGGTGATCCGCCT
GGAAAAGCCGCTGCAGGTACAGGCCACAGGCACCACTGGAGCTCACGGTCCGTGCTCTGACCTGGGCACCCCAAT
ACCGCTGTCCACGCTGGGCACCGTCACAGTCTCGGTGGTGGGCCCTAGAAGACTACCTGCCCCTGTTCCTGAACAC
CGAGCACAGCGTGCAGGTGCCCCAGGACGCCCCACCTGGCACGGAGGTGCTGCAGCTGGCCACCCTCACTCGCCC
GGGCGCAGAGAAGACCGGTACCGCGTGGTCAGCGGGAACGAGCAAGGCAGGTCCGCCTGGATGCTCGCACAGG
GATCCTGTATGTCAACGCAAGCCTGGACTTTGAGACAAGCCCCAAGTACTTCTGTCCATTGAGTGCAGCCGGAA
GAGCTCCTCTTCCCTCAGTGACGTGACCACAGTCATGGTCAACATCACTGATGTCAATGAACACCGGCCCAATT
CCCCCAAGATCCATATAGCACAAGGGTCTTAGAGAATGCCCTTGTGGGTGACGTATCCTCAGCGTATCAGCGAC
TGATGAAGATGGACCCCTAAATAGTGACATTACCTATAGCCTCATAGGAGGGAACAGCTTGGGCACTTCACCAT
TCACCCCAAAAAGGGGGAGCTACAGGTGGCCAAGGCCCTGGACCGGGAACAGGCCTCTAGTTATTCCCTGAAGCT
CCGAGCCACAGACAGTGGGCAGCTCCACTGCATGAGGACACAGACATCGCTATCCAAGTGGCTGATGTCAATGA
TAACCCACCGAGATTCTTCCAGCTCAACTACAGCACCACTGTCCAGGAGAACTCCCCCAATTGGCAGCAAAAGTCCT
GCAGCTGATCCTGAGTGACCCAGATTCTCCAGAGAATGGCCCCCCTACTCGTTTCGAATCACCAAGGGGAACAA
CGGCTCTGCCTTCCGAGTGACCCCGATGGATGGCTGGTGAAGTGTGAGGGCCTAAGCAGGAGGGCTCAGGAATG
GTATCAGCTTCAGATCCAGGCGTCAGACAGTGGCATCCCTCCCTCTCGTCTTTGACGTCTGTCCGTGTCCATGT
CACAGAGCAGAGCCACTATGCACCTTCTGCTCTCCCACTGGAGATCTTCATCACTGTTGGAGAGGATGAGTTCCA
GGGTGGCATGGTGGGTAAGATCCATGCCACAGACCGAGACCCCAAGGACACGCTGACCTATAGCCTGGCAGAAGA
GGAGACCCTGGGCAGGCACTTCTCAGTGGGTGCGCCTGATGGCAAGATTATCGCCGCCAGGGCCTGCCTCGTGG

4732/5332
FIGURE 4111D

CCACTACTCGTTCAACGTCACGGTCAGCGATGGGACCTTCACCACGACTGCTGGGGTCCATGTGTACGTGTGGCA
TGTGGGGCAGGAGGCTCTGCAGCAGGCCATGTGGATGGGCTTCTACCAGCTCACCCCGAGGAGCTGGTGAAGTGA
CCACTGGCGGAACCTGCAGAGGTTCTCAGCCATAAGCTGGACATCAAACGGGCTAACATTCACTTGGCCAGCCT
CCAGCCTGCAGAGGCCGTGGCTGGTGTGGATGTGCTCCTGGTCTTTGAGGGGCATTCTGGAACCTTCTACGAGTT
TCAGGAGCTAGCATCCATCATCACTCACTCAGCCAAGGAGATGGAGCATTCACTGGGGGTTTCAAGTGCAGTGCAGC
TATGCCCATGGTGGCCTGCCAGGGGCCAACCTGCCAGGGTCAAATCTGCCATAACACAGTGCATCTGGACCCCCAA
GGTTGGGCCCCACGTACAGCACCGCCAGGCTCAGCATCTTAACCCGCGGCACCACCTGCAGAGGAGCTGCTCCTG
CAATGGTACTGCTACAAGGTTTCACTGGTTCAGAGCTATGTGCGGTACAGGGCCCCAGCGGCTCGGAAGTGGCACAT
CCATTTCTATCTGAAAACACTCCAGCCACAGGCCATTCTTCTATTACCAATGAAACAGCGTCCGTCTCCCTGAA
GCTGGCCAGTGGAGTGGCCAGCTGGAATACCACTGTCTGGGTGGTTTCTATGGAACCTTTCCTCCAGCGCCA
TGTGAATGACCACGAGTGGCACTCCATCCTGGTGGAGGAGATGGACGCTTCCATTGCGCTGATGGTTGACAGCAT
GGGCAACACCTCCCTTGTGGTCCCAGAGAACTGCCGTGGTCTGAGGCCCCGAAAGGCACCTCTTGTGGGCGGCCT
CATTCTGTTGCACTTCTTCTCGAATGTCTCCCAGGGCTTTGAAGGCTGCCCTGGATGCTGTCGTGGTCAACGAAGA
GGCTCTAGATCTGCTGGCCCCCTGGCAAGACGGTGGCAGGCTTGTGAGACACAAGCCCTCACCCAGTGTGCCT
CCACAGTGAATACTGCAGCCAGAACACATGCCTCAATGGTGGGAAGTGTCTCATGGACCCATGGGGCAGGCTATGT
CTGCAAAATGTCCCCACAGTTCTCTGGGAAGCACTGTGAACAAGGAAGGGAGAACTGTACTTTTGACCCCTGCCT
GGAAGGTGGAACCTTGCACTCTCTCCCCAAAGGAGCTTCTGTAACTGCCCTCATCCTTACACAGGAGACAGGTG
TGAAATGGAGGCGAGGGGTTGTTGAGAAGGACACTGCCTAGTCACTCCCGAGATCCAAAGGGGGGACTGGGGGCA
GCAGGAGTTACTGATCATCACAGTGGCCGTGGCGTTCATTATCATAAGCACTGTCGGGCTTCTCTTCTACTGCCG
CCGTGCAAGTCTCACAAGCCTGTGGCCATGGAGGACCCAGACCTCCTGGCCAGGAGTGTGGTGTGACACCCA
AGCCATGCTGCTGCCATCGAGCTCAACCCATTGAGTGCCAGCTCCTGCAACAACCTCAACCAACCGGAACCCAGCAA
GGCCTCTGTTCCAAATGAACCTGTCACATTTGGACCCAATTCTAAGCAACGCCAGTGGTCTGCAGTGTGCCCCC
CAGACTCCCGCCAGCTGCGGTCCCTTCCACTCTGACAAATGAGCCTGTCAATTAAGAGAACCTGGTCCAGCGAGGA
GATGGTGTACCTTGGCGGAGCCATGGTCTGGCCCCCTACTTACTCCAGGAACGAGTGGGAATACCCCCACTC
CGAAGTGACTCAGGGCCCTCTGCCGCCCTCGGCTCACCGCCACTCAACCCAGTGGTGTGATGCCAGAGCCTAATGG
CCTCTATGGGGGCTTCCCTTCCCTTGGAGATGGAAAACAAGCGGGCACCTCTCCACCCCGTTACAGCAACCA
GAACCTGGAAGATCTGATGCCCTCTCGGCCCTTAGTCCCCGGGAGCGCCTGGTTGCCCCCTGTCTCAATGAGTA
CACGGCCATCAGCTACTACCACTCGCAGTTCCGGCAGGGAGGGGGAGGGCCCTGCCTGGCAGACGGGGGCTACAA
GGGGGTGGGTATGCGCCTCAGCCGAGCTGGGCCCTCTTATGCTGTCTGTGAGGTGGAGGGGGCACCTCTTGAGG
CCAGGGCCAGCCCCGGGTGCCCCCAACTATGAGGGCTCTGACATGGTGGAGAGTGATTATGGCAGCTGTGAGGA
GGTCATGTTCTAGCTTCCCATTCCCAGAGCAAGGCAGGCGGGAGGCCAAGGACTGGACTTGGCTTATTTCTTCTCCT
GTCTCGTAGGGGGTGAAGTTGAGTGTGGCTGGGAGAGTGGGAGGGAAGCCCTCAGCCCAGGCTGTTGTCCCTTGAA
ATGTGCTCTTCCAATCCCCACCTAGTCCCTGAGGGTGGAGGGAAGCTGAGGATAGAGCTCCAGAAACAGCACTA
GGGTCCCAGGAGAGGGGCATTTCTAGAGCAGTGACCTTGGAAAACAGGAACAATTGACTCCCGGGGTGGGCGAG
AGACAGGAGGGCTCCCTGATCTGCCGGCTCTCAGTCCCCGGGGCAGAGCCTGATTGACTGTGCTGGCTCAACTTC
ACCAAGATGCATTCTCATACCTGCCACAGCTCCATTTTGGAGGCAGGCAGGTTGGTGCCTGACAGACAACCACT
ACGCGGGCCGTACAGAGGAGCTCTAGAGGGCTGCGTGGCATCCTCCTAGGGGCTGAGAGGTGAGCAGCAGGGGAG
CGGGCACAGTCCCCTCTGCCCTGCCTCAGTCGAGCACTCACTGTGTCTTTGTCAAGTGTCTGCTCCACGTCAGG
CACTGTGCTTTTGACCGGGGAGAAAATGGTGTGAGGGGCAACAAGGACTCCGAGGAGCACCACAGGCTCGGG
CCCCAGAGGTCCCCTCCTCAGCTACACGCAGAGGAACGGGGCCACCTCAGAGTCACACCACTGGCTGCCAGTC
AGGGCCTGCCAGGAGTCTACACAGCTCTGAACCTTCTTTGTTAAAGAATTGAGACCTCATGGAACCTTGGGTTCT
TCATCCCAAGTTTTCCAGGCATTTTGGCCAAAGGAAGGAAGGAATAATTCTTCATTTTAAAAATTCTTAGGCA
CTTTTTGACCTTGCTGTCTGGATGAGTTTCTCAATGGGATTTTTCTTCCCTAGACACAAGGAAGTCTGAACTCC
TATTTAGGGCCGGTTGGAAGCAGGGAGCTGGACCGCAGTGTCCAGGCTGGACACCTGCCATTGCCTCCTCTCCAT
TGCAGACGCCTGCCATCAAGTATTACCTGCGGCGACTCAACCTATGCATGGAGGGTCAATGTGGGCACATGTC
TACACATGTGGGTGCCATGGATAGTACGTGTGTACACATGTGTAGAGTGTATGTAGCCAGGAGTGGTGGGGACC
AGAAGCCTCTGTGGCCTTGGTGACCTCACCCTCCCTCCACCCAGTCCCTCCCTCTGGTCCACTGCCTTTTCA
TATGTGTTGTTTCTGGAGACAGAAGTCAAAGGAAGAGCAGTGGAGCCTTGCCACAGGGCTGCTGCTTCATGCC

4733/5332

FIGURE 4111E

AGAGGGAGATGTGTGGGCGAGAGCCAATTTGTGTGAGTGGTTTGTGGCTGTGTGTGTGACTGTGAGTGTGAGTGA
CAGATACATAGTTTCATTGGTCATTTTTTTTTTAACAATAAAGTATCTTTTTTTTACTGTT

4734/5332
FIGURE 4112

AACTTTGACTCAACTTCTCCTGCTGAAAAGAAGCTCGCTCCAGATGTCTGCATGGGTCTCGGCACTCTTGGCTG
AGGACTCAAAGGTTTTAATCAGGATCGTCTAAAAATGTACCTCGGTGAGGAGGCACAGATTTTGCCTCCTGTTGA
CCAGCCTGGTTTCATACCGAAAAGACATTGAAGGACTGCAGAAATGTATGGGTGCACCGGGCCGAGGGAAGGGTG
GCTGAGTGAGAGGCGTATAAAATGGGGCTGTGTGCATGCAGGCCCATGTTTCAGCCTCAGCCCCAGCCAGGTGAA
AGGATCAGCAATGCTCTGTTGCCATCGTCTGGGACGACACCAGCTCTATTGCCACCGATGAGTAGCTGAGGTCA
GTGTGCACAGAGTTTGAAATTAAGTTAATAGACTTTACAGCAGCTGGTCTGACACTACGCGCAGTGCTCGGTTGT
TTACAATCAGTGGGGAAGGGCAGAACAGTGCCCCGGCCCCACACTGCCTCTGTGGCCTGGACTTTGAAAGGAA
CCCACTGAACACTAATTATGAGCCCTGTCTTTCCCCCAGAATGCCTCCCTGGGTTTCACAAACAGCCTTGAGGTT
GGCCCTCCTCAAGGTCAGCCTTCAGATTTGGGAGCAAACCTTCAGAGAAGGCAGAGGAAGATACATTGCCTTGCTG
TGGGCTGCCTCTTCTTCTCCTTGGTGTGCGAAGTATTTCAGAAGGCCATTGATGAATTCCCCCTCTTTAGCTGT
GATTTTGTGCACGTGTGTGTGTACGTGCGTGTGTGTGTGTGTTCCTGTGTAAAGTAACAGACCAGACTCCTTTTCT
CTTCTGTCCCGTCACCAGGCTCTTGCTTCACTGCAGATACAGTTCACTCTGAAAGCTGGTTGAAGGAGAGCAGCA
AAAATGTATCAGGGGTTTTGCTTCTGTGTTTCGCAAAGCTCATAAGGGCTGTGACCCACCCATATGGCCCCAGT
TTTTTCTGTCTCTTCTGTTCCAAAGCCAGGAGAGCTGACTTCCAGGTGAAGGGATGGGAAAAGTGGACTCTCATT
GTAGTGACTCCCAACCTACCTAATAATTTGTTAACTTAGGAATATGCTATCATTGTTGACTTGTCTTCTCCTTAGG
AGAAGGACGATTTTACCCACCCCTTCTGTTCTATGGTGGACTCTTAACAGGTGCTATGTGACCAGGAATCTAGC
CGGGAGTAGCAGAGGCCCTGTCTTCTGAAGTCTCAGGCTTAGAAGTTACCAAAGTGGGCTCAGAACTGTCTCT
CCTGGTTCCAAGTTCGGGCTCTGGCAGCCCAGCCGCTATCTTAGCTGTCTTTCCAGCGGTGCTAAGAGTGGTCT
CAGTGAGAAGGTAGATGCCAACTGGAGGGCCAGACCTGTGTCTGCCATGTCTCTCTTGGTGGACGTTTCTGT
TACTCAGAGCTGCTAGAGACCCTCTGCCCATCCGAGTTCTGAGATTGGGACTGTGATGTTGGGACCTGAGGACT
GGATGGTAGAATACTGGGGTCCCCCAGCTCTTAGCAGGATGCAGGCTATTGCTTCCACACCCCTGGCCGTGAGAA
CGTGGTATGTAGGAGAGTTGGCTGTAGCTTTAGGATTTCTGGAAGCCAATTGGCATGGCCCTATTTGATCTCTGG
CTTGCTCTCTGCTACACTGACAGACTGATTGCGTGGCTCTTTCAGAAGACCCAGGAAGGGCAGCTCCAGCCAGA
GGACCTTCTGGCTATGCAGGTGCACAGCTCTTAGGCATCAAGCAAAGGTCAGCCAGTCAAGTAGTAGTGGGAGG
AAGCCCTTCTCTCTTATGCAAGCAGCTCGCAGCCAGCCAGAAATCTCTTATGCAGCCCAAAGGGCTTCTTGAG
GTAGAGAGCCCTCCCCAGTGTCTTCCAGGATAAGTAGAAATATGATCACAGAGCAAACGGAGCAAAGGCTTTCGG
GAGTGTGAGGCTGCATCTGCTGGAGCAAAGGGAACCGTGGGCTTTTCCGCCAGATACTCTTGAGCTCTGTGAC
CCTGCTCCTGTACCCCCAATTTCTCCAAGCCAGAGGTAGCTTCTCAGAGCCCTTGGTGGTCTGTCTCCAAA
TGCTGCTGTTGGGAGCGGGCTTCCAGCTCTCAGTGGGAGTGCACCTCCTCTAAATGCAGGCACTTGCTAGGAA
GAGTGTGAGCTGGCGTCTTCTGTTACCCCTGCCTAGCAGTTGTACCATTCACAAGTGGCATTATTTATGTTGTG
CTGCTGTCCAGCTGCTAAGATCCCTTCATCTGCACAAGCCCTGGCTAGATATGTGTGAATGTGTGGCATCATTT
ACTTCAGCCGCCCAATTCATCTCTCTCTGCAGCCAGATTCACTGGCTGATGCTCACTGCTCACTGTCTATCCC
CACGAAATTTAGTTTTATCAGTAGTCTTAAAGTGTGTATCTCAAACAAGTACATTAGAAAAATCATGTTTCTTCT
CTCTCATCTTACTTTTTCTTCTCAGATTTCTCCCTTCTAGAACATTCTCTCTGTTTAGCACTAATGTTACCTC
GTATTTTTTGGAAAGTGCAAAAATCTCAATTTGTGTCTGTTTACAGCTCTCTCTCCTCACTGCTCAGCAAGGGG
TTCTGTATCAGTGGATTTTCAATTTGTAGCTGCTGAGATGTTAAGGCAAGCCTCAGCATCTGCCCCTGCTGGGTGC
ACAATGCTGCTTCTCGAAGAGAAGACACAGAGTCCAAGTGGCAGGACTTGAGGTTGGCTTCCACTCTGCCTTAG
AAGTTAATTTTCAAAGTACATTACAAATCTCTGAGGCCATTAGGGGAAAAGGAAGGGGTGTGGTTTGTCTTTGA
AATTACGGTTAATACTTTTAGACAGTAAGTCCGGCTGGTTGCAGGGCTATTTGCCCCGACAGCATCAGCCTGTAA
CATTTCTTCTCTTTCTTTGTGCCACTGAGTCGTTCCCTGGCCAGAGGACATAAATGGTGCTGGTAGGAGGTAT
CAGAGTAAGGAAGGTAGCAGATATAGGTGCAGGGTGCCTGTCAATCACTGTGTTATTTGGTTTTAAATCAAAGTGA
TTCTGGGGGAAGCTATGCTCTTTCAGTGGATAATAAAATGGTAACTCTATTGTAAAACATGTCAATGGTGTGTG
AAGAAAAATCAACCAATCTGTAGGTGTTGATAACTAGACAGTACTGTGTATGTTACGTGCCTGTGTGGATGTGCA
CTTCCAGCATGGTATGTGTAGCGATGTGGATCATGCCAGAGTTCGTAGATCCTGTTTTGGGGTTTTGCACATGGAT
CGTATGTTAAGCTTTTTCTTTTCAATAAATGAATTTTATTTTTATTTTTG

4735/5332
FIGURE 4113

CTCAGCTTCTTTGCGTAACCAATACTGGAAGGCATTTAAAGGCACCTCTGCCGCCACAGACCTTGCAGTTAACTC
CGCCCTGACCCACCCCTTCCCGATGCAGTCCCTGATGCAAGGCTCCCTCTGATCGCCCTGGGCTTGCTTCTCGCG
GCCCCTGCGCAAGCCACCTGAAAAAGCCATCCCAGCTCAGTAGCTTTTCTGGGATAACTGTGATGAAGGGAAG
GACCCTGCGGTGATCAGAAGCCTGACTCTGGAGCCTGACCCCATCGTCGTTTCTGGAAATGTGACCCCTCAGTGTC
GTGGGCAGCACCAGTGTCCCCCTGAGTTCTCCTCTGAAGGTGGATTTAGTTTTGGAGAAGGAGGTGGCTGGCCTC
TGGATCAAGATCCCATGCACAGACTACATTGGCAGCTGTACCTTTGAACACTTCTGTGATGTGCTTGACATGTTA
ATTCTACTGCGGAGCCCTGCCAGAGCCCTGCGTACCTATGGGCTTCTTGCCACTGTCCCTTCAAAGAAGGA
ACCTACTCACTGCCCAAGAGCGAATTCTGTGTCCTGACCTGGAGCTGCCAGTTGGCTCACCACCGGGAACCTAC
CGCATAGAGAGCGTCTTGAGCAGCAGTGGGAAGCGTCTGGGCTGCATCAAGATCGCTGCCCTCTCTAAAGGGCATA
TAACATGGCATCTGCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCTCTGTTTTGTGTTTGCCAAGG
CCAACTCCCACTCTCTGCCCCCTTTAATCCCTTTCTACAGTGAGTCCACTACCTCACTGAAAATCATTTTG
TACCATTACATTTTAGGCTGGGGCAAGCAGCCCTGACCTAAGGGAGAATGAGTTGGACAGTTCTTGATAGCCCA
GGCGTCTGCTGGGCTGACCACGTTACTCATCCCGTTAATCTCTCTCTAAAGAGCCTCGTTCATTTCCAAAGC
AGTTAAGGAATGGGAACCAAGAGTGTTTTAGGACCTGAAGAATCTTTATGACTCTCTCTCTTCACTCTTTTTTT
TTTGTCTACTAAGTTAAAGCGAAGTGAGAGTATTAACGTTTTTGTCTCTCTCCGGCCCCCTGTACAATGAAGGG
GCAAAAGTATTTGCTCTTAGTCTATTCTCCCTTAACCTCTGTGACTAATTTTTATTTCCTTTCTAGATTTGCC
AATTAATACTAGGGTGAGTGTATCCTGGAGAGGTAGGGTGTGTGGGGGAGGAATCCCTTGGGGGAGATATTAGG
AGTGCTCTGTTGTTTACAACTCAGGTACCCGCGAGGGCTAGCAAGAGACTTAAATGACTGATAAGAACCGTGAG
AAACATGTTGCTTCCAGGCTTGATTTTCGATTTTTTCGCTTTTTTTTTTTTTTGAGACAGAATCTCACTTTGTCACC
AGGCTGGAGTGCAAGTGGTGAATCTCACCTCACTGCAACCTCCGCTCCTGGGTTCAAGCAATTCTCCTGCCTCA
GCCTCCCAAGTAGCTTGACTACAGGCCCTGCCACCACGCCCGGCTAATTTGTGTATTTTAGTAGAGATGGGGT
TTCACCATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCGTGATCCGTCCACCTTGGCCTTGCAAAGCGCTGGA
TTACAGGCATGAGCCACTACACCCAGCCGATTTTCTCTTTTGATTAAAGATGCTATTACAATGTAAATATTTCT
TACACAGAAAGTCACAGCAGATGTGCCATTGATACAAGGCTGCTGAGGCCTGGTCTCCAGTTGGAAATATAATT
AAGGGTGGCAAGGACTGGAGTCAGTTGGAGAGTGCATAGCCAGTCTGTGAAGACAAGTCCAGATACTGGCAATA
CTCCAGCCTGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAAAGTTTCAATGTTTACTCCTAGAGAAGCCAAAA
TCCCAGATTTGTATATGAAATCTTACCATTTTAAAAGATTGGCAGCTAATTATTTTTTTAAAAGCTGTGCAGTG
TGATGTGTCCCAAACGGACTGGCTCATGGGTGGCCACGTCACAACCTCTGATCTCAGACCGTGATGCCTTGTC
TCTTAAGACAACCTCTGTGGCACCATTTCTCCCTCCACAGGGCCAAAGCCATAGTGTCGGTCCCAAGGACAAGG
CTCTTCCAGTGCTAGGAGAGGTATGAGCAGCTCTCACCTGTGAGCTGTGGGGATCACAAGGCTGCCTGCCTCAG
TCTTGGAGTCTGTGGGTGAATGAGGCAGTGGGAAAGAGCCTCACCAGCAGCTGCTTTGGAGCAGGGGTCCA
AGGAAGAGAGGGTGGCCTCGACATCAAATGCTGGATTTTTCTACCACCCTGTTACATCATAACAACCTCTGAA
ACACACACCAGCCCTGAGTTCTGGGCTCATTTGAAGCCTGGAATAGCAATAAATCTTTTAACTTGC

4736/5332
FIGURE 4114

TTAGGTCCCCTCAATGGGGACACAGCTATAACTGTCCAGCTCTGTGCATCAGAGGAGGCTGAGCGGCACCAGAAAG
GATATAACCAGAATTCTCCAGCAACATGAGGAGGAAAAGAAGAAATGGGCACAACAGGTGGAGAAGGAAAGGGAG
CTAGAGCTTCGAGACAGACTGGATGAGCAGCAAAGGGTCCCTGGAAGGAAAGAAATGAAGAGGCCCTGCAAGTCCCTC
CGGGCCTCATATGAACAGGAGAAAGAAGCGCTTACCCACTCTTTCCGGGAGGCCAGTTCTACCCAGCAGGAGACC
ATAGACAGACTGACCTCACAGCTGGAGGCTTTCCAGGCCAAAATGAAGAGGGTGGAGGAGTCCATTCTGAGCCGA
AACTATAAGAAACATATCCAGGATTATGGGAGCCCCAGCCAGTTCTGGGAGCAGGAGCTGGAGAGCTTACACTTT
GTCATCGAGATGAAGAATGAGCGTATTTCATGAGCTGGACAGGCGGCTGATCCTCATGGAAACAGTGAAAGAGAAA
AATCTGATATTGGAGGAAAAAATTACGACCCTGCAACAGGAAAATGAGGACCTCCATGTCCGAAGCCGCAACCAG
GTGGTCCCTGTCAAGGCAGCTGTCAGAAGACCTGCTTCTCACGCGTGAGGCCCTGGAGAAGGAGGTGCAGCTGCGG
CGACAGCTCCAGCAGGAGAAGGAGGAGCTGTTGTACCGGCTCCTTGGGGCCAATGCCTCGCCTGCCTTCCCTCTG
GCCCCGTGCTACTCCCACTGAGGTCTCTTTCTCGCCACATAGGGTGCAGGGCCTGGGGCCACCACGACGCTGAA
GTACAGACTCCTTCCAAGGTTTTTCTGGAGAAGACAGCAGGAGCCTCTCAGTTCTTTTCCAGGAAGGAACGAGGG
TGGGAGCGAGATCCTGGGTGTGTGCCAGTGAGCCCTGGGGCCTTGAGTTACATGGAATCACCCACAGG
GTTTTGGAGGCCCGAGAAGCGTCTTCCCTTGAGTTGGCCAAGGGAATAAGCAAGAGGAGACATTTCTCCCTGC
CCCAGCACTCTGTCCCAATCCGAGAAGTTCCGAGGCTTTCCAGGGGCAGTCTGTGTACGCTGGCCATTGACA
TAAAGGAGACAGCCCTGGTCCAGCTTGTGACGCTGTGCTGCGACTTGCTGACTTATCAACTTCTCTAGGTGT
TTCCACTCCACCTGGCCTGCTCAGAGCCTCAGTTTACCCCTGCATTAAATGGTGGGGGACTGGTCAAAGGAC
TCTTATGTCACTGCAGTGTCCCATTCTAGGATTGTCTGAAGGCCAGAGTAGGGGTGGGGGAGTGTGGACAAAC
CCCGCAAATCAGAGTGGGGAAGGTGAGTGGTAGAGAGGGGTCTCTGAAGGCCCTTGGGGCTGACAGGGCCAGGC
AGCCTCCCCAGCTGAGGCATCATTCCTGGGCCAGAGTCGTGTCCACCAAGGGACAGTAGCCAGAGCTCCTCTTCC
TTTACCAGGCAAGGTGCATCCCCTCAGCCCTCCTGGCCCTTCAGTCTTGGTGCCACCTGGGCACAGGGGCAAGCT
TGGTGGTTGTGAGTCCATTCTATCTATCAGAGCTGGAACCTCATCCCTGCACAGATGAGGAAACCAAGGCATGGAG
CAGTTCACAGAGTCAATCTAGATCTCATCTGTCTATCCGGGTCTTATCCTTTGCTCTGTTTTTCTCTTCAGGCTC
TGGAAAATCAGATCTGTGACTTAATCTTCTCTCCTGGCCCTCACCCACTTAGTTTCTTTTCTTCTGCTCC
CTGCCTTAACTCCTCCTCCCCTGCCCCCTGATCCCAGGCCAGGCTTTTACAACCTGGTGCTCAGCTTCCCCATC
AGTGAAAAGGGGTGGCTAGAGTAACTAACCTCAGCAGGCCGTCCAGTCTGATAGTCTGTGGATTTTCGGATCCTT
CTCAGGAAGCTTCATGTCTAATGGAGACTATAATTATAACTCCTGTTCTGCATAGAGCATTTCATCAAAGGCTT
TCCATACCCCTCCCTCCCCTGGTCTCATAAGATCCTTGAAGCAGGTTTCTATTCTCATTGGCAACATGGCAAA
CAGATCAGAGGAGTCAAAGGGCCTTGCTCAAGGTCCCCAGCTTCAGCCCCAGGCCCTAAGCCAGCGTCAGAACAG
TCAATCTGCATTTTTTCATCAGTCATTCTATAGTGACATCATCCAGACTGCCTTCTGTATTCCCCTGTGTACAGT
CTCCTTCTGTTTCTAGGTTTAGAAGTTCAGAGGTGACTGTGTTTCTCCATTTCCACAGCCAAATGGGGGAAGAGG
TGAGGCTAGGGGAGTGCTGTGCTGATTCTCCAGCCATGGTCAGACAGGTACCCAGGAGCCTCGAGGAAAGCCCT
GGAGGGAATCACATGTGTACTTTTTTCATGAAGCTTTTTGCAAAGCACATCTGCGATACACTAGTTTATTGAACTA
ATGTCCAGGAGTAGACGTGATTGGTGGCCAAGTTATTTGGGGACACCTAAACAGATCAGTGACCTGAATGACTTC
TCAGAACCTTTAATATGCCAATGTGTGGCAAACCTTACAAGAAGGGAGCTAAGTATCCAGCCTCTCCCAAACCT
CTTTGAACAAAGCTTCTGTCCCTCCCACACCTCTCACCTCACAGGCACATCAGGCTGCAGAATGCGCTTTAGAAA
GCATTGTTTTAGTCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCAC
AAGGTGGGAGATTGAGACCATCCTGGCTAACACAGTGAAACCTGTCTCTACTAAAAAATACAAAAAATTAGC
TTGGCGTGGTGGTGGGCGCCTGTAGTCCCAGCAGCTTGGGAGGCTGAGGCTGGAGAATGGTGTGAACCCAGGAGG
CGGAGCTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCCGGTGACAGAGCAAGACTCCGTCTC

4737/5332
FIGURE 4115

GCCACGTGTCCGGCTCGGAGCCACGGCTGTCTCCCGGTCCGCCCCGCGCTGCGGTTGCTGCTGGGCTAACGGG
CTCCGATCCAGCGAGCGCTGCGTCTCGAGTCCCTGCGCCCGTGGCTCCGTCTGCGACCCGAGGCCCTCCGCTGCG
CGTGGATTCTGCTGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGCTCCATCCATGAC
TTCCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAG
GCCATACTGGACATAATCACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTAC
GGCAAGGACCTCATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCOTGATGAGG
CCACCTGCCATTGCTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATT
GAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGGGAC
CTGGAGGCTGACATCATCGGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCTGCTCCAGGGAACCAGG
GAGGAGGATGAGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGCAGGGGAACGAA
TGGGGAACAGATGAAGCCAGTTTCAATTTACATCTTGGGAAATCGCAGCAAGCAGCATCTTCGGTTGGTGTTCGAT
GAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGCTGTCTGGGGACTTTGAGAAGCTA
ATGCTGGCCGTAGTGAAGTGTATCCGAGACCCCCGGAATATTTTGTGAAAGGCTCTTCAAGGCTATGAAGGGC
CTGGGGACTCGGGACAACACCTGATCCGCATCATGGTCTCCCGTAGTGAGTTGGACATGCTCGACATTCCGGAG
ATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCATGATCAAGAATGACACCTCTGGCGAGTACAAGAAGACT
CTGCTGAAGCTGTCTGGGGGAGATGATGATGCTGTGTCGCGAGTTCTTCCCGGAGGCAGCGCAGGTGGCCTATCAG
ATGTGGGAACCTAGTGCACTGGCCGAGTAGAGCTGAAGGGAACCTGTGCGCCAGCCAATGACTTCAACCCTGAC
GCAGATGCCAAAGCGCTGCGGAAAGCCATGAAGGGACTCGGGACTGACGAAGACACAATCATCGATATCATCAG
CACCGCAGCAATGTCCAGCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGAC
CTGAAGTCTGAGATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCATTACGATGCC
AAGCAGTTGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACC
AATGCTGAAATCCGGGCCATCAATGAGGCCATAAGGAGGACTATCACAGTCCCTGGAGGATGCTCTGAGCTCA
GACACATCTGGCCACTTCAGGAGGATCCTCATTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAGAAAACCTG
GACCAGGCACGGGAAGATGCCCAGGTGGCTGCTGAGATCTTGGAAATAGCAGACACACCTAGTGAGACAAAACCT
TCCTTGGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCCAGGAGTTC
ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCATTTGTG
GCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTTCTTGGCGACAACTTTACAAATCCATGAAGGGTGCTGGC
ACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAACATCCGGAGGGAATTC
ATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAGACTTCCTGAAGGCCTTGCTG
GCTCTCTGTGGTGGTGAGGACTAGGGCCACAGCTTTGGCGGGCACTTCTGCCAAGAAATGGTTATCAGCACCAGC
CGCCATGGCCAAGCCTGATTGTTCCAGCTCCAGAGACTAAGGAAGGGGCAGGGGTGGGGGAGGGGTTGGGTTGG
GCTCTTATCTTCAGTGGAGCTTAGGAAACGCTCCCACTCCACGGGCCATCGAGGGCCAGCACGGCTGAGCGGC
TGAAAAACCGTAGCCATAGATCCTGTCCACCTCCACTCCCTCTGACCCTCAGGCTTTCCAGCTTCTCCCTT
GCTACAGCCTCTGCCCTGGTTTGGGCTATGTCAGATCCAAAAACATCCTGAACCTCTGTCTGT

4738/5332
FIGURE 4116

AGTGAGCCGAGGAGCCTTCATAGGGACAGCCGCCCTGGTGCACACACCCTCGTATTCTCCTGCCCTTCCCCAGC
CAGGCGGGCACCACGGCAGGGGCTGAGCTACCCCTCATGGAAGGGAGAGGACCGTACCGGATCTACGACCCTGGGG
GCAGCGTGCCCTCAGGAGAGGCATCCGCAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAA
TGCAAGGGATAAAGATGTTAGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGGCAG
AGGAGCTAGTGAAGGACAACGAGCTGTCCACCACCTTCTCCCTCCTTGGGCTCCTTCGACCCCCCTGGCTGAGC
TCACAGGAAAGGACTCAAATGTCACAGCATCTCCACAGCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCC
AGAAGCCTCCATCCAGTGGCACCTCCTCTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTCACCAGAGAGCA
GCAGCCATGCCAATGCGATGGCGCTGGGCCCCCTGCCCCGTGAGGACGGCAACCTGATGCTGCACCTGCAGCGCC
TGGAGACCACGCTGAGTGTGTGTGCCGAGGAGCCGGACCACGGCCAGCTCTTCACCCACCTGGGCGCATGGCCC
TGGAGTTCAACCGACTGGCATCCAAGGTGCACAAGAATGAGCAGCGCACCTCCATTCTGCAGACCCTGTGTGAGC
AGCTTCGGAAGGAGAACGAGGCTCTGAAGGCCAAGTTGGATAAGGGCCTGGAACAGCGGGATCAGGCTGCCGAGA
GGCTGCGGGAGGAAAAATTTGGAGCTCAAGAAGTTGTTGATGAGCAATGGCAACAAAGAGGGTGCCTCTGGGCGGC
CAGGCTCACCGAAGATGGAAGGGACAGGCAAGAAGGCAGTGGCTGGACAGCAGCAGGCTAGTGTGACGGCAGGTA
AGGTCCCAGAGGTGGTGGCCTTGGGCGCAGCCGAGAAGAAGGTGAAGATGCTGGAGCAGCAGCGCAGTGAGCTGC
TGGAAGTGAACAAGCAGTGGGACCAGCATTTCCGGTCCATGAAGCAGCAGTATGAGCAGAAGATCACTGAGCTGC
GTCAGAAGCTGGCTGATTTCAGAAAGCAGGTGACTGACCTGGAGGCCGAGCGGGAGCAGAAGCAGCGTGACTTTG
ACCGCAAGCTCCTCCTGGCCAAAGTCCAAGATTGAAATGGAGGAGACCGACAAGGAGCAGCTGACAGCAGAGGCCA
AGGAGCTGCGCCAAAAGGTCAAGTACCTGCAGGATCAGCTGAGCCCACTCACCCGACAGCGTGAGTACCAGGAAA
AGGAGATCCAGCGCCCAAGGAGCAGGGGCCCTCCTAAGGAAACAGGAGCTGGTACGCGAGAATGAGTTGCTGAAAC
CATTGAGGAGCCAGAGGAGCAGGGGCCCTCCTAAGGAAACAGGAGCTGGTACGCGAGAATGAGTTGCTGAAAC
AGCAGGTGAAGATCTTCAGAGGAGACTTCCAGAGGGAGCGCAGTGATCGTGAGCGCATGAATGAGGAGAAGGAAG
AGCTGAAGAAGCAAGTGGAGAAGCTGCAGGCCCAGGTACCCCTGTCAAATGCCAGCTAAAAGCATTCAAAGATG
AGGAGAAGGCAAGAGAAGCCCTCAGACAGCAGAAGAGGAAAGCAAAGGCCCTCAGGAGAGCGTTACCATGTGGAGC
CCCACCCAGAACATCTCTGCGGGGCCCTACCCCTACGCCTACCCGCCCATGCCAGCCATGGTGCCACACCATGGCT
TCGAGGACTGGTCCCAGATCCGCTACCCCCCTCCCCCATGGCCATGGAGCACCCGCCCCCACTCCCCAACTCGC
GCCTCTTCCATCTGCCGGAATACACCTGGCGTCTACCCCTGTGGAGGGGTTGGAATCCAAATCAGAGCTCCCAAG
TGATGGACCCTCCACAGCCAGGCCTACAGAACCAGAGTCTCCAAAAATGACCGTGAGGGGCCTCAGTGAGACC
AGATTGTGTCAATTTGGCTCCACCTTCATCTTGAGAGCCAGCTGATCTCAGATTGCCAAGAACTAGAAGCCACT
TGCACGGTGTGGCCAGAGCCTCAGCTGGATGAGAGGCTGAGATGGGTGGCCAGCTTGACACCAGTCCCTGAACT
GAGCTGTTTACAGGACTGGGGAGGCTCCACCCAGAAGGCTTTTCAATTTGTAATCTGCTGGGAGTGACTGGGAAAAA
CTCCTTCCCTGCTGCTGAGTGGAGAGAGGCCTCATCCGGCTTTGACCCACCATCCGTTGCAGAAGCCTCCAGGAG
CAGCAATCCTAAGAGTGGGAGGCAGCCAAGACCCCTTCCCTCAAACCTCCCGGAAGTGGTTTCAGGCCCTCTA
GTTGCCATGACCAATTTGTGTGTGTGTTAATTTTGTCTCAAGCTCTGTAGCAGGACCTGCCCCACGCACACCC
CTACCCCTCTGTGAGGAGCTGTGGGAAGTGTGGGTTTGTCTCCAGAACAGAAGAGAATGATGGATATTCTGGCTC
TGGGGCCCTCTCCACCACCACTCAGTAGCCTTGCTGAAGCCATCAGATGGGAGAAGGCCATGCCAGCCACG
TCCGCCGAGGGGCGCCAGCCTGAAGCTGCCAGGCCCTGAGGTTTCAAGCCCTGGACCCCATAGCTGGAGGCCTGTG
GTGCCAGAAGCCCAGATTAGGGTGGCTGTCCATCCCTGGATAGCTATTTGCACGAATCATGGACATAAATCCAAG
TTGAAGAAG

4739/5332
FIGURE 4117

AGCCAAAAGAGGAAGGGACCGCCTCCACGTCCACAGGGACCTGACTTCCACCTCTCTGCCAGATTGCTTATG
TCACTGTCGCCCCGGGACGGGGAGGTGGGGAGCTGAGGGCAAGTCGCGCCCGCCCTGAAATCCCAGCCGCTAG
CGATTGGCTGCAAGGGTCTCGGCTTGGCCGCGGATTGGTCACACCCGAGGGCTTGAAAGGTGGCTGGGAGCGCCG
GACACCTCAGACGGACGGTGGCCAGGGATCAGGCAGCGGCTCAGGCGACCCTGAGTGTGCCCCACCCGCCATG

GCCCGGCTGCTGCAGGCGTCTGCCTGCTTTCCCTGCTCCTGGCCGGCTTCGTCTCGCAGAGCCGGGGACAAGAG
AAGTCGAAGATGGACTGCCATGGTGGCATAAGTGGCACCATTACGAGTACGGAGCCCTCACCATTGATGGGGAG
GAGTACATCCCCCTCAAGCAGTATGCTGGCAAATACGTCTCTTTGTCAACGTGGCCAGCTACTGAGGCTGACG
GGCCAGTACATTGAACTGAATGCACTACAGGAAGAGCTTGACCATTCGGTCTGGTCATTCTGGGCTTTCCCTGC
AACCAATTTGAAAAACAGGAACCAGGAGAGAACTCAGAGATCCTTCTACCTCAAGTATGTCCGACCAGGTGGA
GGCTTTGTCCCTAATTTCCAGCTCTTTGAGAAAGGGGATGTCAATGGAGAGAAAGAGCAGAAATTCTACACTTC
CTAAAGAACTCCTGTCCTCCACCTCGGAGCTCCTGGGTACATCTGACCGCTCTTCTGGGAACCCATGAAGGT
CACGACATCCGCTGGAACCTTGAGAAGTTCTGGTGGGGCCAGATGGTATACCCATCATGCGCTGGCACCACCGG
ACCACGGTCAGCAACGTCAAGATGGACATCCTGTCCTACATGAGGCGGCAGGCAGCCCTGGGGGTCAAGAGGAAG
TAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAGGGACTTTGTTTCAGGAAGAAATCCGTGTCTCCAA
CCACACTATCTACCCATCACAGACCCCTTTCTTACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAGT
TCTGTGTACTGCCAGGCATGTGGGTGTGGGTGCATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATTGT
GTGTGTGTGCATGGGTGTACAGCCACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCTGC
AGCTGTGTAGTGTGGACAGTGACAACCCCTTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACCTTACACCT
AAACCCAAAGGAAAAACAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACCTCAACCTTGGGGCCAGCATCT
CCCCTGCTCCAAATATTAGTAACCTATGACTGACGTCCCCAGAAAGTTTCTGGGTCTACCACACTCCCCAACCCC
CCACTCCTACTTCTGAAGGGCCCTCCCAAGGCTACATCCCCACCCACAGTTCTCCCTGAGAGAGATCAACCTC
CCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTCTTCATGAGGGAG
GGGCCCCAAGCCCTTGTGGGCGGACCTCCCCTGAGCCTGTCTGAGGGGCCAGCCCTTAGTGCATTACAGGCTAAGG
CCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACCCTCACTGGTCCACTGGCTTGAGAC
TCACCCCGTCTGCCAGTAAAGCCTTTCTGCAGC

4740/5332
FIGURE 4118

AACCAATCCTCACAACAGGACTGGGAGACAGGTGTTACCTTTCCCACTTTACAGAGAATGAAACAGAGTGGCAAA
GCCTCCGAAGGACCTTACACTTCGGACATCGCAAAGCAGGATCTGAGTCCCGGCTCCTCTGTCCAAACCTACTTG
CTAGGCTTTCTTTCCCATGTCTACTCTATAGCTGGAAAGGTCGTGGAGGACACATTTTAGGCCAACCTCTCGGT
TTACAATCCAGAGAGGGGAGACCCCTCAGAAGCCAAGCGACATGTTCCACGGCTACGCGGCGAGTGTGTGGCAACGT
GGAAGGGGAGCCCGAGACGCCCTGGTCTCTCCCTTCTCTCGCAGGTTCCCTTTCTCCCCGAACGCAGCCCGCAGGG
GACGCTGGAGGAGGAGCTGAGCTGGAGTTGCCGGGGCCCCGGGACCGGGCGTTCCGGGGGCGGTCCCCAGCAGCC
GCGCATTCCAGAGCCAGCAGCGCTCCTGGCCGCTCCTGCGCTCTCCCGCTCCCGGGGCTCGGAGGAGCCGGGG
CACGTTCCAGGAGCTGCCTAGGGCTGAGGTTCCAGGCCTGGGGGTCGCTTCCAGCTGCCAGATCCCGTGCAGTCC
TGGGGACCTGAGAAGCACCGAGCCATCCCTGACCCAGGAACTTCCGCAGACTCGCCGCCATCTGGGAGTGAAG
CAACATGGATGCAGTCAGCCAAGTCCCCATGGAAGTCGTGCTTCCCAAGCACATCCTGGATATCTGGGTATTGT
CCTCATCATCCTGGCCACCATTGTTCATCATGACCTCGTTGTTGCTGTGCCAGCCACTGCAGTAATCATCTATCG
CATGCGGACTCATCCGATCCTTAGTGGGGCTGTTTGAGAGCCTCCCAAGAGGGCCGGGTGAGGGATGAGGACAGG
CATCCTATCCCCAGCCTCTTCTGTCTTCAGAAAAGCAGCAGGAGGGACTTTGGGGCATGGACCTGAGTTCTGGT
TTTGATTCTGCCACGAGCCAGCTGTGTGAATTTGGTCAAGGGACCTAACTCTCTGAGTTCCAGGTTTCCTTATCTT
TCAAATGGGGATGGTGATCCCTGCCCTTTCTACCTCATAGGGATGTGAGAACCACCTGACTTAGTGGATGTGAAA
GCTGTTTGTGATCAGTAAAGCTACCACAGATATAAGGGTGTTATGCTGAATCCTGAGAAGCTTTCAAGAACCAGA
GAACCTGATTGCTGATGATGGCCTTAAAGGTGGTGAGGGAGATACTGGGGGCAGAGCAGACTTTGCCAGTGCCCC
TCAGGTCAAACCAAGCCAAGAGCACCCCTGTCCCCATTCCAAGGGGCCAGCAGCACTTTGGCCCAAAGTATTTCT
TTAAGGTGCCATTCCCTCATGTTTTCTCAGTTTGGAGGGTGATGGGTAGAGCTTTCCAGAACCTTCTCCATTCCA
GAATCTCTGCCCTGTGTAATCTGAAGGAAGGCTGTGCCATCTTTGGGCACTGCCAAGGGAGTTGGGGTGATGGG
CTTCTTTCTGCACTGGAGTCTCACATCTGTTAGCTTTGACACTCAAGCAATGTTGGAAAATGCAGGGTGACTGAG
TTCCCTGCCCAGCTTTCCGGATCTCTGGCCCCCATCCCCTTGTGTGTGTCCCTCTGCCAGCTCCTGCTGTAATT
AGCTCCACGTGTACCCCCCTTCACTCCCTCCCACCAGCTCTGCAGCCAGCCTATGGCAATTATATTTTAAGAGGTG
TTCCAGGACTTTTGGGACCTACTAAAACAATGATGGTTATTTTAGATGTGATGATTTATATTTATGTAGAGATA
TTTCTGGACCACTCAAGCTCTTCGATAACAAAATCAGGAGCATCTTGGGATTTATTAAATTATGTAAGAAGATAG
CACAGATATCGGGATATTATTGTGTGAAAATGCTGCTTTTACTTTGATGTGATCTCATTGATGTACACAACCAAG
TTCCAATAAAGTGCTAGAATGTG

4741/5332
FIGURE 4119

CTCCTCCCTCCCCAAGATGGCGTCCTTGCTGCAGTCGGACCGGGTTCTCTATCTAGTCCAGGGAGAAAAGAAGGT
TCGGGCCCCGCTCTCGCAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTCGCTGGAATGTGTGTCTCACGA
GGTGGACTCCCATTATTGTCCAGTTGTTTAGAAAAATATGCCATCGGCTGAAGCCAAACTAAAAAGAATAGATG
TGCCAATTGTTTTGACTGTCTGGCTGCATGCACACCCTCTCTACTCGGGCCACGAGCATCTCCACACAGCTTCC
AGATGACCCAGCCAAGACCACCATGAAGAAAAGCCTATTACCTGGCATGTGGATTTTGTGCTGGACGTCTAGAGA
TGTGGGCATGGCAGACAAATCTGTAGCTAGTGGCGGTTGGCAGGAACCTGAAAATCCTCACACACAACGGATGAA
CAAATTGATTGAATATTACCAGCAGCTTGCTCAGAAAGAGAAGGTTGAGCGAGATCGCAAGAACTGGCAGCAGC
TAGAACTATATGCCTCTGGCTTTTTTCGGACAAATATGGTCTTGGAACCAGGCTTCAGCGACCACGAGCTGGTGC
ATCCATCAGTACCCTTGCCGGACTTTCCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCA
GGCTGTGGATGAAGTGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACAGAGGTAACAACCTT
TCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTCACAGCTCTATCCTCGCCACAAACATCTTCT
GATCAAACGGTCCCTGCGCTGCCGTAAATGTGAACATAATTTGAGCAAGCCAGAATTTAACCCAAACGTCAATCAA
ATTCAAAATCCAGCTGGTCGCTGTCAATTATATCCAGAAGTGAGAATCATGTCAATTCCCAACCTTCGCTACAT
GAAGGAGAGCCAGGTCCTCTGACTCTTACAAATCCAGTTGAGAACCTCACCCATGTGACTCTCTTCGAGTGTGA
GGAGGGGGACCCTGATGATATCAACAGCACTGCTAAGGTGGTGGTGCCTCCCAAGAGCTCGTTTTAGCTGGCAA
GGATGCAGCAGCAGATACGATGAGTTGGCAGAACCTCAAGACTTTCAGGACGATCCTGACATTATAGCCTTCAG
AAAGGCCAACAAAGTGGGTATTTTCATCAAAGTTACACCACAGCGTGAGGAGGGTGAAGTGACCGTGTGCTTCAA
GATGAAGCATGATTTTTAAAAACCTGGCAGCCCCATTTCGCCCCATTGAAGAAAGTGACCAGGGAACAGAAGTCAT
CTGGCTCACCCAGCATGTGGAACCTTAGCTTGGGCCCCACTTCTTCCTTAAAGGTTCCACTGGAGGGCAGATCCCA
AAGGACAGTATCACCGTAAACCTGCGTTAAATGTGGAAGCTGCTGCTTCATTAGGCCTTGTTTTATAACGATGTA
CCCATGCACTACGGAATTCTATTGCTAAGAAAGTGGGAGCATAGGCAAGGCATTGGGAACACAGGGTAGCTGCTG
TTGCTCTTGCTCTCACCCCTGTTGACACCAGTAAGTCTGTGTCTCCCTCACTGAACCCTGCACGTTGAGTAACAG
CAGCATAATTCCATCCTAGGAAAGGGGATGGGTGTTCTTGGAATGGCATTGTATTTACCACCTGAGAACTCTG
TACTGTCTCTTGATCTGATCTCACTAAGGATCACAATGTACAGATGAACTTAAATGATAACCCAAAGGTAGAC
CTGCTGTTAATGATCCAGCATTGGTCACAATGTACCAACTGCTTTCTGCATTCCGTTAAATATCATCTAACAGTC
TAAACATATCCCTTCATTGCCATAATGGCTGCCATTTTGCCATAGATTTCCATATAACTGAAAACTGAATTGT
CACTTTATCTTTAGTATCATGATGATTGGAAAAACCTGTGAAGTTGTTAAGGCACTCTCATTTCGCCCTCTTTTTT
TAAGTGAATACAGGACACGTATTAGTTGTTCTTAATTTTTTCCAGTAAATATGGATCTTTAAGAAGAATTT
GAGAAGCAAACAATTACATGTCTATGCAAGGGGGTAGCAGATTCCATTGTTTTCAATATTGCCACAATACCCAG
GGATTAATGCTGCCACAGGGGGGCAATCTTATTTGTCTTACTTCCCTACCCCTTCCCTGTTCTGCCTCTTTAACT
CAGTTAAGTTGTTCTGTTTGGGACCTGAAAAGAACCCAAAGAAAACCTGAGTGGACAGGTTTCAATTTCTGGAATG
CAGAAAACATTTTAAAGGCTAGATTTTGAATATTCTCAACTAGCATTCTTCCATTGATTTGAAGGGGAAATT
AACTATTATAATCTCTTGAATCCAAACTGGATATTAAGAACCTTCCCCCTTACTAAGTTTAAGACTTTTGTGAT
GTGGTGAGTCAAATAAGACCATTTTGATTGTAAACCATAAAATAGTTTCAGCAAGTAGCCACAGTTCTGGCCTAA
CAGCAGACTTGCTGTTTTCACTTGGTATCCTGGAGTTGGGTTGCTAACCTTAATTTCTATGATGTTTTCTAAAT
GAACTTGATAAAGTAGACCACCGTGCACCGTGTTTTCTGTAAAAGTATTGTTAGTAAGTGGCCAAGAGACTT
GAGGAAAATACAGATTTTTTGT

4742/5332
FIGURE 4120

AGCCTCGGGGCTTGACGGGATTGTGGCGGTCTCTCTCCCAATTCGGAAGCTACAGCTACCTCCGGACGCTCTCA
AGATGGCGACCTCTCTGGGTTCACACCTACAAACAGGCAGAACTGGGAGGATGCGGACTTCCCCATTCTGTGCC
AGACATGTCTTGAGAGAAAACCCATATATCCGAATGACCAAAGAAAAGTATGGGAAGGAATGCAAAATCTGTGCCA
GGCCATTACAGTGTTTTCGCTGGTGGCCCTGGAGTCCGCATGCGTTTTCAAGAAGACTGAAGTGTGCCAAACCTGCA
GTAAATTGAAGAATGTCTGTGACACCTGCCTCTTAGACCTAGAGTATGGCCTGCCCATCCAGGTTCTGTGACGCAG
GATTGTCTTTTAAAGATGACATGCCAAAGTCAGATGTCAACAAAGAGTACTATACACAGAATATGGAGAGAGAGA
TTTCTAACTCTGATGGAACACGGCCAGTTGGCATGCTGGGGAAAGCCACATCTACCACTGACATGCTGCTCAAAC
TGGCCCGGACACACCCTACTACAAAAGGAATCGACCCACATTTGCTCCTTCTGGGTGAAAGGAGAGTGTAAGA
GAGGAGAGGAATGTCCATACAGACATGAGAAGCCTACAGATCCAGATGACCCCTTGCTGATCAGAATATTAAG
ACCGTTATTACGGAATCAATGATCCTGTAGCTGACAAGCTTCTAAAGCGGGCTTCAACAATGCCTCGGCTGGACC
CACCAGAGGATAAACTATCACCACACTATATGTTGGTGGTCTAGGTGATACCACTACTGAGACAGATTTAAGAA
ATCATTCTACCACTTCGGAGAGATCCGGACGATCACTGTTGTGACAGACAGCAGTGTGCTTTCATCCAGTTTG
CCACACGGCAGGCTGCAGAAGTGGCTGCTGAGAAGTCCTTTAATAAGTTGATTGTAAATGGCCGCAGACTGAATG
TGAAATGGGGAAGATCCAGGCAGCCAGAGGAAAAGAAAAGAGAAAGATGGAACACAGACTCTGGGATCAAAC
TGAACCTGTTCCAGGATTGCCAGGAGCTCTTCTCCTCCTCCTGCAGCAGAAGAAGAAGCCTCTGCCAACTACT
TCAACTTGCCCCCAAGTGGTCTCCAGCTGTGGTGAACATTGCTCTGCCACCGCCCCCTGGCATTGCTCCACCCC
CACCCCCAGGTTTTGGGCCACACATGTTCCACCCAATGGGACCACCCCTCCTTTCATGCGGGCTCCAGGACCAA
TCCACTATCCTTCTCAGGACCCTCAGAGGATGGGAGCTCATGCTGGAAAACACAGCAGCCCCCTAGCACCTTGTC
CCACTCTGGGGCTCTGTGGAAGAAAGGGCACTTAAACTCCCAGTAAATCTTGAATAAATATATTTTTCTTCC
CTTGTAGTTTCCATGGTAGCTGAATGTGCTCAGATGTGAGCAGTCAGAGACTGACAGCCATGCTTTCCTATACTT
GTTCAAAGGATCGATGGACCGTAAATAAGCTGCCATTAACACATCTGGTTACTGCTGTAACATGACTAATAAAAC
CGAACGCCTGTTCCCCTTACCCGTGTGGGGGACACGCAGATGAGTGAATTGGAATGTCCAGCAGAGTTACCCTCC
CAATTATATGTTCAATTTTGTATATTTTTTGGTTCGGGGGAAAAATTGACCTGCAGTAAAAAACCTTTGACCATT
TTATGTCCATTGGATACTTTCTTTTTATCATCTTAAAAAAGATAACTAGTACTAATCATTGTAGTGGCCTAAG
TGTGATTTAACTCTTGAAGTCACACCCTCCGAAAGATGAGTAGAAACCAGCACCAGCACAGCCCAGATCTTCTCT
TTCTCTCCTTTTCTCATTATTTCTTAAAGGAATCTGACCATTTTACGTCTCTACGGCCCCAAAAAAGACAAA
ATAAAAATTCCTTTTTATTCCTGTCAACTGGATGGAAACACAAATTTTCATGGAGCTGTGTACCATCGAAGAAACC
TGGTGTCTGGCATGAAATTACTGTAAAGAACTTCTGTAAACACGTTCTTTAACAACTGAAATGAAAAGCATT
GGAGCGTCTGAATGAAAGACGTGACCTCCTGCTGGGACTCTGATGGTCTTCAGCATTACCTTCGTGTGTCTTCA
GTGTCTCATTGTATCCCTGCTTCTGTTTGGTCTTAGAGTGTGGATATACTGAATTGTAGATGGTAAAGGAA
ATTTGATGTGTTTTTTGTTTTTAAATAATTAACCGGTCAATTTTT

[illegible]

4744/5332
FIGURE 4121B

GTTAGTGCCTTGGATGAGGCGGGGCAGTGTGTATATGGACCCCTGGACTTGCTACCTTCAGGGTTCCATACTCGT
CCCTCCCCTCCTGGCTCTGCTGTCTGGAGTCTGGCAAGCGGGGTGTGTTCAGAAGGTCCTAGGCCTGTGTGCGCAT
GTCCAGGCACTGGCCTGACCATCCGGCTCCCTGGCACCAAGTCCCAGGCAGGAGCAGCTGTTTTCCATCCCTTCC
CAGACAAGCTCTATTTTTATCACAATGACCTTTAGAGAGGTCTCCCAGGCCAGCTCAAGGTGTCCCCTATCCCC
TCTGGAGGGAAGAGGCAGGAAAAATTCTCCCCGGGTCCCTGTATGCTACTTTCTCCATCCCAGTTCAGACTGTCC
AGGACATCTTATCTGCAGCCATAAGAGAATTATAAGGCAGTGATTCCCTTAGGCCCAGGACTTGGGCCTCCAGC
TCATCTGTTCCCTCTGGGCCCATTTCATGGCAGGTTCTGGGCTCAAAGCTGAACTGGGGAGAGAAGAGATACAGAG
CTACCATGTGACTTTACCTGATTGCCCTCAGTTTGGGGTTGCTTATTGGGAAAAGAGAGACAAAGAGTTACTTG
TTACGGGAAATATGAAAAGCATGGCCAGGATGCATAGAGGAGATTCTAGCAGGGGACAGGATTGGCTCAGATGAC
CCCTGAGGGCTCTTCCAGTCTTGAAATGCATTCCATGATATTAGGAAGTCGGGGGTGGGTGGTGGTGGTGGGCTA
GTTGGGCTTGAATTTAGGGGCCGATGAGCTTGGGTACGTGAGCAGGGTGTTAAGTTAGGGTCTGCCTGTATTCT
GGTCCCCTTGGAATGTCCCCTTCTTCAGTGTGACACCTCAGTCCCAGTGTCCATATCGTGCCCAAGAAAGTAGA
CATTATCCTGCCCCATCCCTTCCCCAGTGCACCTCTGACCTAGCTAGTGCCTGGTGCCCAAGTGCCTGGGGGAGCC
TGGCTGCAGGCCCTCACTGGTTCCCTAAACCTTGGTGGCTGTGATTGAGTCCCCAGGGGGGACTCAGGGAGGAA
TATGGCTGAGTTCTGTAGTTTCCAGAGTTGGCTGGTAGAGCCTTCTAGAGGTTTCAAGATATTAGCTTCAGGATCA
GCTGGGGGTATGGAATTGGCTGAGGATCAAACGTATGTAGGTGAAAGGATACCAGGATGTTGCTAAAGGTGAGGG
ACAGTTTGGGTTTGGGACTTACCGGGGTGATGTTAGATCTGGAACCCCCAAGTGAGGCTGGAGGGAGTTAAGGTC
AGTATGGAAGATAGGGTTGGGACAGGGTGCTTTGGAATGAAAGAGTGACCTTAGAGGGCTCCTTGGGCCTCAGGA
ATGCTCCTGCTGCTGTGAAGATGAGAAGGTGCTCTTACTCAGTTAATGATGAGTGACTATATTTACCAAAGCCCC
TACCTGCTGCTGGGTCCCTTGTAGCACAGGAGACTGGGGCTAAGGGCCCTCCCAGGGAAGGGACACCATCAGGC
CTCTGGCTGAGGCAGTAGCATAGAGGATCCATTTCTACCTGCATTTCCCAGAGGACTAGCAGGAGGCAGCCTTGA
GAAACCGGCAGTTCCCAAGCCAGCGCCTGGCTGTTCTCTCATTGTCACTGCCCTCTCCCCAACCTCTCCTCTAAC
CCACTAGAGATTGCCTGTGTCTGCCTCTTGCTCTTGTAGAATGCAGCTCTGGCCCTCAATAAATGCTTCCTGC
ATT

4745/5332
FIGURE 4122

CTCCGCCCCCTCCCACTCTCTCTTTCCGGTGTGGAGTCTGGAGACGACGTGCAGAAATGGCACCTCGAAAGGGGA
AGGAAAAGAAGGAAGAACAGGTCATCAGCCTCGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCTGCC
ATATCTTTGCATCCTTCAATGACACTTTTGTCCATGTCACCTGATCTTTCTGGCAAGGAAACCATCTGCCGTGTGA
CTGGTGGGATGAAGGTAAAGGCAGACCGAGATGAATCCTCACCATATGCTGCTATGTTGGCTGCCCAGGATGTGG
CCCAGAGGTGCAAGGAGCTGGGTATCACCGCCCTACACATCAAACCTCCGGGCCACAGGAGGAAATAGGACCAAGA
CCCCTGGACCTGGGGCCAGTCGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGAGGATG
TCACCCCATCCCTCTGACAGCACTCGCAGGAAGGGGGGTGCGCGTGGTCGCGCTCTGTGAACAAGATTCTCA
AAATATTTTCTGTTAATAAATTGCCTTCATGTAACTGTTTCAACTCCAGCCTTCTCTCCTTCATCAGGGGCTAC
TCAGGCATTTGATTTCTTCTCCTATTGCGCTTCTTGGGAGAAAGGAGCCTGAGGAGAGCTGAGATCCTGGTGCT
GCATTTGGGGTCTTTTCCATGCTACTTGCGGCATTAAGTTGCCCTTGGTCATCTAAAGCAGACCAAGGCGTTGGAG
ACCTCGTTTTGAGTGGAGATGCTGGTTCTAAATATGGACCAATTCTTAAAGAGCCAGAGTGGGAACGTGTGATCC
AAGTGTAGCCTGAAGCGAAAGAGGAGCCTTCCAGACCCATGCCATATATAAACACACGTGGGTGTGCATTCTCCC
CCCACACCTTCTGTGCAAGCTGGGAGCTCACTCCACTGCGTCTTGCTTTTTTCACTTGGCAGATCTTGAGAT
TGTTCCACATCAGTACATAAAGTACATAAAGATTGTCACCCACAAATACACACCAAGTCCTATTTTCATCAGCG
ATAAAAAAGAAAAGTTCTTGCTTTCCGGAAGCTTGCATGCGGCTCTGAGTACCCAGTGACACCAGATGGTACTCA
GCGTTTTGCAAGGGATTACCACAAGGCCCGTGATGGTGCCTGCCATGGTTAGGACAGGCTGGTGGCTGGGTAGG
GTTAGTGAGACCCAGTGGAGAGGATGCTGTGTGTACAGGCTGGAGAGGTGAGACCATTGAGGTAGTCAGTTGTA
GAGGAAAGAAACCAGCAAGAGGGGAAAATCTGTTGGGATGCTGCTTTTAGCCTTTGATGGCGTGTTCAGGCAGA
GGGAATAAGCAAATAAATGGGTCTGAGACAAGGGGTTACTGTGTGATGAGGCGGCGTTGGTTACATGCCAAACCTT
GCTAGGGATTTTAATAACAACATTGAATCTTAACCTGATGAAATAACAGTACTCCTGGGGAGGCGGGAGGGATAG
CATTAGGAGATATACCTAATGCTAAATGACGAGTTAATGGGTGCAGCACACCAACATGGCACATGTATACATATG
TAACAAACCTGCACGTTGTGCACATGTACCCTAAACCTTAAAGTATAATAAAAAAAAAAAGCTTGCAAAAAAAT
ATAACAGTACTCCTTAAATTGTTAAAAGTCATGAAAGTCAAGGACAGGAGATTAAGGAGGCGTGAAAACCTAAATG
CCCATTGTGG

4746/5332
FIGURE 4123

ACCAAGTGGGCGGAGTGGCCTTCTGTGGACGAATCAGATTCTCTCCAGCACCGACTTTAAGAGGCGAGCCGGGG
GGTCAGGGTCCCAGATGCACAGGAGGAGAAGCAGGAGCTGTCTGGGAAGATCAGAAGCCAGTCATGGATGACCAGC
GCGACCTTATCTCCAACAATGAGCAACTGCCCATGCTGGGCGCGCCCTGGGGCCCCGGAGAGCAAGTGACGCC
GCGGAGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCCTACTTCC
TGTACCAGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACCTGCGCATGA
AGCTTCCCAAGCCTCCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGCGCTGCCCATGG
GAGCCCTGCCCCAGGGGCCCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGACCATGTGATGCACCTGC
TCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGGAGAACCTGAGACACCTTAAGA
ACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCATTTGGCTCCTGTTTGAATGAGCAGGC
ACTCCTTGGAGCAAAAGCCCACTGACGCTCCACCGAAAGTACTGACCAAGTGCCAGGAAGAGGTGAGCCACATCC
CTGCTGTCCACCCGGGTTTCAATTCAGGCCCAAGTGCAGACGAGAACGGCAACTATCTGCCACTCCAGTGCTATGGGA
GCATCGGCTACTGCTGGTGTGTCTTCCCCAACGGCACGGAGGTCCCCAACACCAGAAGCCGCGGGCACCATAACT
GCAGTGAGTCACTGGAACCTGGAGGACCCGTCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCCAGTCCCCA
TGAGAGAGCAGCAGAGGCGGTCTTCAACATCCTGCCAGCCCCACACAGCTACAGCTTTCTTGCTCCCTTCAGCCC
CCAGCCCCCTCCCCATCTCCACCCCTGTACCTCATCCCATGAGACCCTGGTGCCTGGCTCTTTCGTCACCCTTGG
ACAAGACAAACCAAGTCGGAACAGCAGATAACAATGCAGCAAGGCCCTGCTGCCCAATCTCCATCTGTCAACAGG
GGCGTGAGGTCCCAGGAAGTGGCCAAAAGCTAGACAGATCCCCGTTCTGACATCACAGCAGCCTCCAACACAAG
GCTCCAAGACCTAGGCTCATGGACGAGATGGGAAGGCACAGGGAGAAGGGATAACCCTACACCCAGACCCCAGGC
TGGACATGCTGACTGTCTCTCCCCCTCCAGCCTTTGGCCTTGGCTTTTCTAGCCTATTTACCTGCAGGCTGAGCC
ACTCTCTTCCCTTTCCCCAGCATCACTCCCCAAGGAAGAGCCAAATGTTTTCCACCCATAATCCTTTCTGCCGACC
CCTAGTTCCCTCTGCTCAGCCAAGCTTGTTATCAGCTTTCAGGGCCATGGTTTACATTAGAATAAAAGGTAGTAA
TTAG

4747/5332
FIGURE 4124A

TTTTTAGAAAAAAAAAATATATTTCCCTCCTGCTCCTTCTGCGTTTACAAGCTAAGTTGTTTATCTCGGCTGCGG
CGGGAAGTGCAGGAGGTTGGCGGGCGAGCGGCTCCTCTGCCAGAGTTGATATTTACTGATGGACTCCAAAGAAATCA
TTAACTCCTGGTAGAGAAGAAAACCCAGCAGTGTGCTTGCTCAGGAGAGGGGAGATGTGATGGACTTCTATAAA
ACCCTAAGAGGAGGAGCTACTGTGAAGGTTTCTGCGTCTTCACCCCTACTGGCTGTGCTTCTCAATCAGACTCC
AAGCAGCGAAGACTTTTGGTTGATTTTCCAAAAGGCTCAGTAAGCAATGCGCAGCAGCCAGATCTGTCCAAAGCA
GTTTCACTCTCAATGGGACTGTATATGGGAGAGACAGAAACAAAAGTGATGGGAAATGACCTGGGATTCCCACAG
CAGGGCCAAATCAGCCTTTCCCTCGGGGGAAACAGACTTAAAGCTTTTGGAAGAAAGCATTGCAAACCTCAATAGG
TCGACCAGTGTTCCAGAGAACCCCAAGAGTTTACAGCATCCACTGCTGTGTCTGCTGCCCCACAGAGAAGGAGTTT
CCAAAACTCACTCTGATGTATCTTCAGAACAGCAACATTTGAAGGGCCAGACTGGCACCAACGGTGGCAATGTG
AAATTGTATACCACAGACCAAGCACCTTTGACATTTTGCAGGATTTGGAGTTTCTTCTGGGTCCCCAGGTAA
GAGACGAATGAGAGTCCTTGAGATCAGACCTGTTGATAGATGAAAAGCTGTTTGCTTTCTCCTCTGGCGGGAGAA
GACGATTTCATTCCTTTTGGAAAGGAACTCGAATGAGGACTGCAAGCCTCTCATTTTACCGGACACTAAACCCAAA
ATTAAGGATAATGGAGATCTGGTTTGTCAAGCCCCAGTAATGTAACACTGCCCAAGTGAAAACAGAAAAAGAA
GATTTTCATCGAACTCTGCACCCCTGGGGTAATTAAGCAAGAGAACTGGGCACAGTTTACTGTGAGGCAAGCTTT
CCTGGAGCAAATATAATTGGTAATAAAATGTCTGCCATTTCTGTTTCATGGTGTGAGTACCTCTGGAGGACAGATG
TACCACTATGACATGAATACAGCATCCCTTTCTCAACAGCAGGATCAGAAGCCTATTTTTAATGTTCATCCACCA
ATTCCTCGTTGGTTCCGAAAATTGGAATAGGTGCCAAGGATCTGGAGATGACAACCTGACTTCTCTGGGACTCTG
AACTTCCCTGGTTCGAACAGTTTCTTAATGGCTATTCAAGCCCCAGCATGAGACCAGATGTAAGCTCTCCTCCA
TCCAGCTCCTCAACGCAACAACAGGACCACCTCCCAAACTCTGCCTGGTGTGCTCTGATGAAGCTTCAGGATGT
CATTATGGAGTCTTAACCTTGTGGAAGCTGTAAAGTTTTCTTCAAAAGAGCAGTGGAAGGACAGCACAATTACCTA
TGTGCTGGAAGGAATGATTGCATCATCGATAAAAATTCGAAGAAAAAACTGCCAGCATGCCGCTATCGAAAATGT
CTTCAGGCTGGAATGAACCTGGAAGCTCGAAAAACAAAGAAAAAAATAAAAGGAATTCAGCAGGCCACTACAGGA
GTCTCACAAGAAACCTCTGAAAATCCTGGTAACAAAACAATAGTTCCTGCAACGTTACCACAACCTACCCCTACC
CTGGTGTCACTGTTGGAGGTTATTGAACCTGAAGTGTTATATGCAGGATATGATAGCTCTGTTCCAGACTCAACT
TGGAGGATCATGACTACGCTCAACATGTTAGGAGGGCGGCAAGTGATTGCAGCAGTGAAATGGGCAAAGGCAATA
CCAGGTTTCAGGAACCTACACCTGGATGACCAATGACCCTACTGCAGTACTCCTGGATGTTTCTTATGGCATT
GCTCTGGGGTGGAGATCATATAGACAATCAAGTGCAACCTGCTGTGTTTTGCTCCTGATCTGATTATTAATGAG
CAGAGAATGACTCTACCTGCGATGTACGACCAATGTAAACACATGCTGTATGTTTCTCTGAGTTACACAGGCTT
CAGGTATCTTATGAAGAGTATCTCTGTATGAAAACCTTACTGCTTCTCTCTCAGTTCTTAAGGACGGTCTGAAG
AGCCAAGAGCTATTTGATGAAATTAGAATGACCTACATCAAGAGCTAGGAAAAGCCATTGTCAAGAGGGGAAGGA
AACTCCAGCCAGAAGTGGCAGCGGTTTTATCAACTGACAAAACCTCTGGATTCTATGCATGAAGTGGTTGAAAAT
CTCCTTAACCTATTGCTTCCAAACATTTTTGGATAAGACCATGAGTATTGAATCCCCGAGATGTTAGCTGAAATC
ATCACCATCAGATACCAAAATATTCAAATGGAAATATCAAAAACTCTGTTTCATCAAAAGTGAAGTGCCTTAA
TAAGAATGGTTGCCTTAAAGAAAGTCGAATTAATAGCTTTTATTGTATAAACTATCAGTTTGTCTGTAGAGGTT
TTGTTGTTTTATTTTTTATTGTTTTTCTGTTGTTTTGTTTTAAATACGCACTACATGTGTTTTATAGAGGGCC
AAGACTTGGCAACAGAAGCAGTTGAGTCGTCATCACTTTTCAGTGATGGGAGAGTAGATGGTGAAATTTATTAGT
TAATATATCCCAGAAATTAGAAACCTTAATATGTGGACGTAATCTCCACAGTCAAAGAAGGATGGCACCTAAACC
ACCAGTGCCCAAAGTCTGTGTGATGAACCTTCTCTTCACTTTTTTTTTCACAGTTGGCTGGATGAAATTTTCTAG
ACTTTCTGTTGGTGTATCCCCCCCCCTGTATAGTTAGGATAGCATTTTTTGATTTATGCATGGAAACCTGAAAAAA
GTTTACAAGTGTATATCAGAAAAGGGAAGTTGTGCCTTTTTATAGCTATTACTGTCTGGTTTTAACAATTTCTTT
ATATTTAGTGAAGTACGCTTGCTCATTTTTTCTTACATAATTTTTTATTCAAGTTATTGTACAGCTGTTAAGAT
GGGAGCTAGTTTCTAGCTTTCCCAAATAAACTCTAAACATTAATCAATCATCTGTGTGAAAATGGGTTGGTGTCT
TCTAACCTGATGGCACTTAGCTATCAGAAGACCACAAAAATTGACTCAAATCTCCAGTATTCTTGTCAAAAAAA
AAAAAAAAGCTCATATTTGTATATATCTGCTTCAAGTGGAGAAATTATATAGGTTGTGCAAAATTAACAGTCCTA
ACTGGTATAGAGCACCTAGTCCAGTGACCTGCTGGGTAACTGTGGATGATGGTTGCAAAAGACTAATTTAAAAA
ATAACTACCAAGAGGCCCTGTCTGTACCTAACGCCCTATTTTTGCAATGGCTATATGGCAAGAAAGCTGGTAAAC
TATTTGTCTTTTCAAGACCTTTTGAAGTAGTTTGTATAAATTCTTAAAAAGTTGTGATTCCAGATAACCAGCTGTAA
CACAGCTGAGAGACTTTTAAATCAGACAAAGTAATTCCTCTCACTAACTTTACCCAAAACTAAATCTCTAATAT

4748/5332
FIGURE 4124B

GGCAAAAATGGCTAGACACCCATTTTCACATTCCCATCTGTACCAATTGGTTAATCTTTCCCTGATGGTACAGGA
AAGCTCAGCTACTGATTTTTGTGATTAGAACTGTATGTCAGACATCCATGTTTGTA AAACTACACATCCCTAAT
GTGTGCCATAGAGTTTAAACACAAGTCCTGTGAATTTCTTCACTGTTGAAAATTATTTTAAACAAAATAGAAGCTG
TAGTAGCCCTTTCTGTGTGCACCTTACCAACTTTCTGTAAACTCAAACTTAACATATTTACTAAGCCACAAGAA
ATTTGATTTCTATTCAAGGTGGCCAAATTATTTGTGTAATAGAAAAGTGAATCTAATATTTAAAAATATGGAAC
TTCTAATATATTTTTATATTTAGTTATAGTTTCAGATATATATCATATTGGTATTCCTAATCTGGGAAGGGAAG
GGCTACTGCAGCTTTACATGCAATTTATTA AAAAGATTGTAAATAGCTTGTATAGTGTA AAAATAAGAATGATTT
TTAGATGAGATTGTTTTATCATGACATGTTATATATTTTTTGTAGGGGTCAAAGAAATGCTGATGGATAACCTAT
ATGATTTATAGTTTGTACATGCATTCATACAGGCAGCGATGGTCTCAGAAACCAAACAGTTTGCTCTAGGGGAAG
AGGGAGATGGAGACTGGTCCTGTGTGCAGTGAAGGTTGCTGAGGCTCTGACCCAGTGAGATTACAGAGGAAGTTA
TCCTCTGCCTCCCATTCTGACCACCTTCTCATTCCAACAGTGAGTCTGTGAGCGCAGGTTTAGTTTACTCAATC
TCCCCTTGCACTAAAGTATGTAAAGTATGTAAACAGGAGACAGGAAGGTGGTGCTTACATCCTTAAAGGCACCAT
CTAATAGCGGGTTACTTTACATACAGCCCTCCCCAGCAGTTGAATGACAACAGAAGCTTCAGAAGTTTGGCAA
TAGTTTGCATAGAGGTACCAGCAATATGTAAATAGTGCAGAATCTCATAGGTTGCCAATAATACACTAATTCCTT
TCTATCCTACAACAAGAGTTTATTTCCAAATAAAATGAGGACATGTTTTTGTCTTGAATGCTTTTTGAATG
TTATTTGTTATTTTCAGTATTTTGGAGAAATTATTTAATAAAAAACAATCATTGCTTTTTG

4749/5332
FIGURE 4125

ACTAGAAAGATGGCAGAGCAAGACAGAAGAAAGGAAAAGGGCTCAGGTTTAAGCGACTGGAATCATTCTACATG
ATTCCTGGCGGCAGAAACGTGACAAGGTGCGTCTCAGACGACTAGAAGTGAAACCTCATGCCTTGGAATTGCCAG
ATAAACATTCTTGGCCCTTTGTTGTACGCATCGAAAGGATTGATGGCGTGAGTTTACGGGTGCAGAGAACCCTG
CAAGACTTCGCCTAAAGAAAAATTTTAGTGGTATCTTTGTAAAAGTTACCCCTAGAAATCTAAAAATGCTGCATA
TAGTGGAACCTTATGTGACCTGGGGATTTCCAAATCTGAAGTCTGTCCGAGAACTCATTTTGAAACGTGGACAAG
CCAAGGTCAAGAATAAGACCATCCCTCTGACAGACAACACAGTGATTGAGGAGCACCTGGGGAAGTTTGGCTTCA
TTTGCTTGGAAGACCTCATTGATGAAATTGCCTTCCCAGGGAAGCATTTCAGGAGATCTCATGGTTCTTGCGCC
CTTTCCACCTCTCAGTGGCCCATCATGCTACCAAAAATAAGAGTGGGCTTCCTCAAGGAGATGGGCACACCTGGC
TATCGGGGTGAACGCATCAATCAGCTCATCCGTGAGCTGAAGTAGACCCAGGTGACAACTGCGGTAAATTTTTT
ATCAGTGAAGTGGAAGCATGCGTTTTGTTGTTTTGGGAATTTTTATCAAGTATCTTCAGAGAAGATTATTCCTG
CTTTATCTTCAAAAAGTGGAAAGGAAGGGTCAAAGAAAAGACAGTAGCTGGCCGGTCGTGGTGGCTCATGCCTGT
AATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACCTGAGGTGGGAGTTCGAGACCAGCCTGACCAACATG
GAGAAATGCCATCTCTACTAAAAATACAAAAAAAAAAAAAAAAAGAAAAGACAGTAGCTTATGTTTCATGTCAAGCACC
TCTCATCACAGTCTAGTTCCAAGGAAAAATTCCAGCGTTTTCTACATTGGGTGCTGTGTCTCATCTGAAATCGGCAC
ATTCCATGGAGGAAGGAGTCCTGCTTTGTTGCATGTATCCTAGGGTTAATGTTGGTAAATGAGTCACTCTAGCA
TTTGTAGAAGGCTCCCTGAGACTCCTACAGCAGTCGACCAAGCCCAAGGACATAATTGAATCTGGAGAGTCCTGG
GGCCTTGTTTTGATAAAGACTTGAAATACACATAGGAAGAAAGGCATAAAAATAAATGTTCACTTGTCTCTGC

4750/5332
FIGURE 4126

ATGGCAGCAGCGGAGGAGGAGGACGGGGGCCCCGAAGGGCCAAATCGCGAGCGGGGCGGGGCGGGCGCGACCTTC
GAATGTAATATATGTTTGGAGACTGCTCGGGAAGCTGTGGTCAGTGTGTGTGGCCACCTGTACTGTTGGCCATGT
CTTCATCAGTGGCTGGAGACACGGCCAGAACGGCAAGAGTGTCCAGTATGTAAAGCTGGGATCAGCAGAGAGAAG
GTTGTCCCGCTTTATGGGCGAGGGAGCCAGAAGCCCCAGGATCCCAGATTAAAAACTCCACCCCGCCCCAGGGC
CAGAGACCAGCTCCGGAGAGCAGAGGGGGATTCCAGCCATTTGGTGATACCGGGGGCTTCCACTTCTCATTGTTGGT
GTTGGTGCTTTTCCCTTTGGCTTTTTTACCACCGTCTTCAATGCCCATGAGCCTTTCCGCCGGGGTACAGGTGTG
GATCTGGGACAGGGTCACCCAGCCTCCAGCTGGCAGGATTCCCTCTTCCTGTTTCTCGCCATCTTCTTCTTTTTT
TGGCTGCTCAGTATTTGA

4751/5332

FIGURE 4127

ATCTTTCCCAAGTTGTTCCGCCCCCTACCCCGCCTCCCGCACCGCGCCCTCTCCGGCTGCCCTCTCCGCGTGGG
GCAAGGCTCCGAGGGCAGCATTAGTAGCCATTTAGCTTTGGAAGGAGAGGTGATTGCAATGGCCCGCTCCTCC
TGTCACCATGCCAGGCACTTTGGCCGCGCAGGTGCTGACCTGAACCTGGTTTCATCCCTTTCTGACCAAACTGTT
CACTCACCGTGGAAGGGACTAAGCATCCATATGGAGACGCCACCAGTCAATACAATTGGAGAAAAGGACACCTCT
CAGCCGCAACAAGAGTGGGAAAAAGAACCTTCGGGAGAACCTTGATTAGTTATTAGATTAGGCAGCAGCCCCGA
GACCTCTTACCGAAAACGCTTGAGCTGGAAGTAAGCCCAGATCCAGCCAGCCAAAATTCTAGAGCATACTCAAGGA
GCTGAAAAACTGGTTGCTGAACTTGAAAGGAGACTCTCATAAGTCTCATGGATCAACCAGTCAGATGCCAGAGGCC
CTTCAAGCTTCTGATCTCTGGTACTGCCCCGATGGGAGCTTTGTCAAGAAGATCGTAATCCGTGGCCATGGCTTG
GACAAACCCAACTAGGCTCCTGTGCGGGGTACTGGCTTTGGGGTTTCCTTTTCGGATCAGGGCCGCCAGAGGGC
TGGACAGAGCTAACTATGGGCGTAGGGCCATGGAGGGAGGAACTTGGGGGGAGCTCATAGAGAAATGCTTGGAG
TCCATGTGTCAAGGTGAGGAAGCAGAGCTTCAGCTGCCTGGGCACCTTGACCTCCTGTAGGCTCACACTGGCA
TCCTTCACTCAAGGCCGAGACTCCTGGGAGCTGGAGACTAGCGAGAAGGAAGCCCTGGCCAGGGAAGAACGTGCA
AGGGGCACAGAACTATTTGAGCTGGGAACCCTGAAGGAGCTGCCCGATGCTATGGACGGGCTCTTTCGGCTGCTC
CTGACTTTACCCCCACCTGGCCCTCCAGAACGAACTGTCTTCATGCCAATCTGGCTGCCTGTAGATTGTTGCTA
GGGCAGCCTCAGTTGGCAGCCCAGAGCTGTGACCGGGGTGTTGGAGCGGGAGCCTGGCCATTTAAAGGCCTTATAC
CGAAGGGGGGTTGCCCAGGCTGCCCTTGGGAACCTGGAAAAAGCAACTGCTGACCTCAAGAAGGTGCTGGCGATA
GATCCCAAAAACCGGGCAGCCAGGAGGAACTGGGGAAGGTGGTCATTACGGGGAAGAACCAGGATGCAGGGCTG
GCTCAGGGTCTGCGCAAGATGTTTGGCTGATTAAAAGTTAAACCTTAAAAGAG

4752/5332
FIGURE 4128A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTCACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCCTTCTGTGGTTCATCTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCTG
AGAAACCCATCTCGTAATAATGTCCCCTGCTCCCCAAAGGTGGACTTCACCCCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGTC
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCCTCTCGCCGGGGGACCTCTTTTTGCAGACGGACAGCCCATTTACAACCTTGCCAGCGGGTTCCGTAC
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCCCGAGCACTGACACCATCAGTCATGGTGGAGAATCTCACGGC
CTCCGCGTGCAGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGCTGCGCCCTTACGTTGCTGCAGCCATCATTGAGTATCCAGGTGGGGAGATGGAGGAGCAGAGCTCACA
TCCTGGTATTTTGTGTCATCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCC
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTGAGGCTCCCCAGCTTCTGGCATTCTGTCAAAGTTTCTGCCACG
GTGCTTCTCCTGGGTCTGTTCCTGAAGTCCAGGACATTAGCAAAAACACAGACGGGAGCGGCCAAGTCAGCAAT
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCGGGTTTCTGTCTATTGAGCGGCCGGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACTTGCGAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCGAGGCGAGATCGTGTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCACAAGCCCCCTCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTCGGGGTGGGGACAGTGCCCTTCAGGTGTTCAGGCAGCGGGCCTGGCCTTTTCTGATGGAGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGAAAAAGAGAAACGTGAACCTC
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCCTGCGAGCAGCGGGCAGCCCGCTGCAGCAGCCGACTGCCGGGAGCCCTTCTG
TCCTGCTGCCAATTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCCTCCAACGAGCCCTG
GAGATCCTGCAGGAGGAGACCTGATTGATGAGGATGACATTCCTGTCGCGAGCTTCTTCCAGAGAACTGGCTC
TGGAGAGTGGAAACAGTGGACCGCTTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAGGCCTATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCTGCCCATGTCTGTCCGCCGCTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTAC
CTGGATAAAAACCTGACTGTGAGCGTCCACGTGTCCCAAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG
GCCCAGCAGGTGCTGGTGCCTGCGGGCTCTGCCCGGCCCTGTTGCCCTTCTCTGTGGTGGCCACGGCAGCCGCCGCT
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTTCGAATTCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGGACCACCGAGGCCGGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTACGGGTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACCCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCCCTCGA
GGCTGTGGGGAGCAAAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGGCGGATGGTTTCTATGCGGCTTGGTTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGGTCTGAGTTTGGCCAGGAGCAGGTAGGAGGATCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGTTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGAAGCCTCCATCTCAAAGGCAAGCTCATTTTTGGGGGAGAAAGCA

4753/5332
FIGURE 4128B

AGTGCTGGGGCTCCTGGGTGCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC
CTGCGGGGTGTTGCCACAACAACCTCATGGCAATGGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTCGCCCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGCCTGGCTCACCCGTAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCTACTGGATTGCCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTGCGGGCCTGGAGGAGGAGCTG
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCCCTGAAGGTCTTCGTACC
TACAATGTCCTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTTCGGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTCACCCCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCCTGCTGTATTTGACTCGGTCCCCACCTCCCGG
GAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCCGGTGGGGCTGGTGACCCGGCCAGCGCAACCCGTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGCCACCTTGTGT
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTGCCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCTGCACTTCACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTTCGAGCCTCCTGCCGCTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCCAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTCAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTCAAGTGTGGC

4754/5332
FIGURE 4129

GTCCTCCAAATGCAGTGAGGTTAGGAAGGACGTCTGCGCTCAGATCAAGAATCCAGTTACCTCAAAGCTCCCCAA
CTTCCACCTCCGCAGAGCTATGACGTCATGGCAGGCACGCCAGAGGCCGAAGGATGCAAAAAGTGGTTTTCTGCTT
TCGATGATGCAATCATTACAGCGACAGTGGCGGGCAAACCCCTCCCGGGGCGGGGAGGTGTGAGCTTCACGAAGG
AGGTTGACACCAACGTGGCCACCGGCGCCCCCTCCACGCCGCCAACGAGTCCCGGGGCGTGCCTGCCCTTGGAGGG
AGCCAATCCGCGGCCGGCGTGGGGCCCGGCCTGGCGGAGGTGATGCTGGAGGGACGCCGGGGAGACCGTACGTC
ACTGCTCTGCGCCGGAAGACCCCTATTTTCAGGTTCTCTTCCCTCCATTCTACCCCTTCCCGGTACCATAAAAT
CCCGGGATATGAGCTGGAAGAGGCATCACCTGATCCCGGAGACCTTTGGAGTTAAGAGGCGGCGGAAGCGAGGGC
CTGTGGAGTCGGATCCTCTTCGGGGTGAGCCAGGGTCGGCGCGCGCGGCTGTCTCAGAACTCATGCAGCTGTTCC
CGCGAGGCCCTGTTTGAGGACGCGCTGCCGCCCATCGTGCTGAGGAGCCAGGTGTACAGCCTTGTGCCTGACAGGA
CCGTGGCCGACCGGCAGCTGAAGGAGCTTCAAGAGCAGGGGGAGATCAGAATCGTCCAGCTGGGCTTCGACTTGG
ATGCCCATGGAATTATCTTCACTGAGGACTACAGGACCAGAGTATGTGACTGTGTCTCAAGGCCTGTGATGGCC
GACCGTATGCTGGGGCAGTGCAGAAATTTCTAGCTTCAGTACTTCCAGCCTGTGGGGACCTTAGTTTCCAGCAGG
ACCAAATGACACAGACCTTTGGCTTCAGGGACTCAGAAATCACGCATCTGGTGAATGCTGGAGTCCTCACCGTCC
GAGATGCTGGGAGCTGGTGGCTAGCTGTGCCTGGAGCTGGGAGATTATCAAGTACTTTGTTAAAGGGCGCCAGG
CTGTCTTAGCATGGTCCGGAAGGCAAAGTACCGGGAAGTGTCTCTATCAGAGCTCCTGGGCCGGCGGGCGCCTG
TCGTGGTGCGGCTTGGCCTCACCTACCATGTGCACGACCTCATTGGGGCCAGCTAGTGGACTGCATCTCTACCA
CTTCAGGAACCCCTCCTCCGCCTGCCAGAGACATGAAGATTCTGCTCATCATTGCTCAGCTCCTCAGAGTGGGCCG
GGAGGGGACTAGAAGAGCTGCATGATGGTGGCTGAGACAGGGTCACCTTGGGAAGGCTTGGGAGCCAGGATGAGT
GTCGGGCTCTCGTGTGTGCAAAAGGTCAGATGTGACTGCTGCTGTTTGCCTGGTTTCTGACCCAGTGGTGGGGTT
TGAGCAATGCTTCTCTGCCCTTCCATGGAAAGTGGAAACCAGAAATGGTGCCAAGGCTGTGGCTGTTCCCTTTCTG
GTAAAATGGTGTGTTATTACTCTGTCTTGAATAGGAAGGTGGGATTTCTGGGGAGGCTGGTGAAGGAGGGCAG
GGTTCTTTTCTCTACGTGTGATGTTAAAATTGCCAAATAAAGTACCTCTGCCTGTGA

4755/5332
FIGURE 4130

CCCGCCACTGTCGCTGAATGATTGCATCATCGAAAGCAGAAAACCACCTTTTGCATCCTTCGGCCTCTGGCGTGCC
TGCCATGACGTCATAGCTCTGCGGAGGTGGAAGTTGGGGAGCTTTGAGGACCTCATGGATCCCAGGGGGACCAAG
AGAGGAGCTGAGAAGACAGAGGTAGCTGAGCCTCGGAACAAACTACCTCGTCCAGCACCTTCTCTGCCCACAGAC
CCTGCCCTCTACTCTGGGCCCTTTCCCTTTCTACCGGGCGCCCTTCGGAACCTGGGCTGCTTCTCCCTGGATGCTCAA
CGCCAGTACCATGGAGATGCCCCGAGCCCTGCGCTACTATAGCCCACCCCCACTAACGGTCCAGGCCCAACTTT
GACCTCAGAGACGGATACCCGGATCGATACCAGCCCCGGGACGAGGAGGTCCAGGAAAGGCTGGACCACCTGCTG
TGCTGGCTCCTGGAACACCGAGGCCGTTGGAGGGGGGTCCAGGCTGGCTGGCAGAGGCCATAGTGACGTGGCGG
GGGCACCTGACAAAACCTGCTGACGACACCGTATGAGCGGCAGGAGGGCTGGCAGCTGGCAGCCTCCCGGTTCCAG
GGAACACTATACCTGAGTGAAGTGGAGACACCGAACGCTCGGGCCCAGAGGCTTGCTCGGCCACCGCTCCTCCGG
GAGCTTATGTACATGGGATACAAATTTGAGCAGTACATGTGTGCAGACAAACCTGGAAGCTCCCCAGACCCCTCT
GGGGAGGTAAACACCAACGTGGCCTTCTGCTCTGTGCTACGCAGCCGCCTGGGAAGCCACCCTCTGCTCTTCTCA
GGGGAGGTAGACTGCACAGACCCCAAGCCCCATCCACACAGCCCCCAACCTGCTATGTGGAGCTCAAGACCTCC
AAGGAGATGCACAGCCCTGGCCAATGGAGGAGTTTCTACAGACACAAGCTCCTGAAATGGTGGGCTCAGTCATT
CTCCCAGGGGTCCCGAATGTTGTTGCTGGCTTCCGTAACCCAGACGGTTTTGTCTCTTCCCTCAAGACCTTTCCT
ACCATGAAGATGTTTGAATATGTCAGGAATGACCGTGACGGCTGGAATCCCTCTGTGTGCATGAACCTCTGTGCC
GCCTTCCTTAGCTTTGCCCAGAGCACGGTTGTCCAGGATGACCCAGGCTCGTTCATCTCTTCTTTGGGAGCCT
GGCGGCCAGTCACCGTGTCTGTACACCAAGATGCACCTTACGCCTTCCTGCCCATATGGTATGTGGAAGCTATG
ACTCAGGACCTCCCATCACCCCCAAGACTCCCTCTCCCAAATAGTAATGCTTTAGAGGGAGGCAGTCATATCTC
TGTGTGCAGATAATAAAAGCATATTTCTAAGAGGTT

4756/5332
FIGURE 4131A

CGTAGCGCCCGCAGAGCAACGCAAAGAGGAAGAACAGAGAAACGGCTATGAGAAAAAGGGCCGAAGAGTGAGAAG
CAGAGGGCCTTACCCGAGGGGGCGGCAACCGGGGGCCCCACGGTCTCCGGCCGCGCCCGCGCTGGCCGCTGATAG
CGGGCTCACAAACGATGACGTAGCGAGGAGCGGAAAACGCGGTAACCAAGGCGGCCCCAGGCGCGCACTTCCGCCC
GGCCTTCCACCGGTCCAGGTCTGCCCCCTCCGCAGCGATAGTTCACGCTCTCGGCGGGGCTGTACCGGAAGTTGCC
TCTACTTCCGCCCCGTTCCGGGGCGGGGCTTACTTTCGCAGCGACTACTTGCCTGCACTTCCGGGCTGCCAGGCAGCT
GCTGTGGCTCCAGGATGATGGAGACAGAGCGACTTGTGCTACCCCTCCAGATCCCCTGGACCTACCCCTTCGGG
CCGTGGAGCTCGGATGCACGGGGCACTGGGAGCTGCTGAACCTGCCTGGAGCTCCAGAGAGTAGCCTTCCCCATG
GCCTCCCTCCTTGTGCCCCAGATCTGCAGCAAGAAGCAGAACAGTTGTTTCTGTATCCCCAGCCTGGCTGCCTC
TGATGGTGTGGAGCACTCAGCCCCGAAAATGGCAGAGGAAGACGGATCCCTGGTCTCTTTTGGCTGTCTTGGGAG
CCCCAGTCCCATCCGACCTACAGGCCCCAAGACACCCAAACCACAGGCCAGATACTGGGTTACAAAGAGGTCTTGC
TGGAGAACACAAATCTCTCGGCTACAACCTCCTTGTCTCTTCGCCGGCCTCCAGGGCCAGCCTCCCAGTCTTAT
GGGGAATCCAACTCGGTATCCCTTCTGGCCAGGGGGGATGGATGAACCCACCATAACAGATCTGAACACACGGG
AGGAGGCTGAGGAGGAGATAGACTTTGAGAAAGATCTTCTTACTATTCCACCTGGTTTCAAGAAAGGCATGGACT
TTGCACCAAAAGATTGTCCAACCTCAGCTCCTGGACTACTAAGCCTTAGCTGTCTGTTGGAGCCTCTGGATTTGG
GTGGGGGTGACGAGGATGAGAATGAGGCAGTGGGACAGCCAGGAGGTCCCAGAGGGGACACTGTTTCAGCCTCTC
CTGCAGTGTCTCCCTTGCCCCGAGCAAGCAGCTTGGAAAGACCTAGTGTGAAGGAAGCGTCCACAGCTGTATCCA
CCCCAGAGGGCCCCAGAGCCTCCATCTCAGGAGCAGTGGGCCATCCCTGTGGACGCCACCTCCCCTGTTGGTGATT
TCTATCGCCTCATTTCCCCAGCCAGCCTTCCAGTGGGCATTTGAGCCAGATGTGTTTCAAGAACAGGCCATCCTGC
ACTTGGAAACGGCATGACTCTGTCTTTGTGCGAGCTCACACATCTGCAGGAAAAACAGTTGTGGCTGAATATGCCA
TTGCCCTGGCCCCAGAAACACATGACACGCACCATCTACACTTCCGCCATCAAGGCCCTGAGCAACCAGGAAGTTCC
GGGACTTCCGAAACACATTTCGGGGATGTGGGGCTGCTCACCGGGGATGTACAGCTGCATCCGGAGGCCCTCCTGCC
TCATCATGACCACAGAGATCCTTTCGCTCCATGCTGTACAGTGGCTCAGATGTTATTCCGGACCTGGAGTGGGTCA
TCTTTGATGAGGTTCACTATATCAACGATGTGAGCGTGGGGTCTGTGTTGGGAGGAGGTGCTTATCATGCTACCTG
ACCACGTTTCTATCATCCTTCTGAGTGCCACCGTCCCCAACGCCCTTGAGTTTGTGCTGACTGGATTGGGCGGCTGA
AGCGTCGTCAGATCTATGTGATTAGCACTGTAACCCGCCCGTGGCCCTGGAGCACTATCTTTTACAGGGAACA
GCTCCAAGACCCAGGGGGAGCTCTTTTGTGTGCTGGACTCCCGAGGAGCCTTCCATACAAAAGGGTACTATGCAG
CTGTGGAGGCCAAGAAGGAGAGAATGAGCAAACACGCCCAGACCTTGGGGCCAAGCAGCCCCACACATCAGGGGG
GCCCTGCACAGGACCGCGAGTGTACCTGTCCCTCCTGGCCTCCCTCCGCACACGTGCCCAGTTGCCCGTGGTGG
TGTTACCTTCTCCCGGGGCGCTGTGATGAGCAGGCCTCAGGCCTCACCTCCCTTGACCTCACCACAGTTCCG
AGAAGAGCGAGATCCACCTCTTCTGCAGCGCTGCCTTGCTCGCCTCCGTGGCTCTGACCGCCAGCTGCCCCAGG
TCCTGCACATGTCAGAGCTCCTGAATCGCGGCTGGGTGTGCACCATAGCGGCATCCTGCCATCCTCAAGGAGA
TCGTGGAGATGCTCTTCAGCCGTGGCCTGGTCAAGGTCTGTTTGCCACAGAGACCTTTGCCATGGGAGTAAACA
TGCCCTGCTCGTACAGTAGTGTGTTGACTCCATGCGCAAACACGATGGCTCCACCTTCCGGGACCTGCTCCCTGGG
AGTATGTGCAGATGGCAGGCCGGGAGGGCGGAGGGGCTGGACCCACAGGCACCGTTATCCTGCTCTGCAAGG
GCCGAGTGCCCAGATGGCAGACCTGCACCGCATGATGATGGGGAAGCCGTCCAGCTGCAGTCCAGTTCCGCC
TCACGTACACTATGATCCTCAACTTGCTGCGAGTGGATGCCCTCAGGGTGGAGGACATGATGAAGAGGAGCTTCT
CTGAGTTTCCCTCCCGCAAAGACAGCAAGGCCCATGAACAGGCCCTGGCTGAAGTACCAAGAGGCTGGGAGCTT
TGGAGGAGCCTGACATGACTGGCCAACCTGGTGCACCTGCCTGAATATTACAGCTGGGGGGAGGAAGTACAGAGA
CCCAGCACATGATCCAGCGACGCATCATGGAGTCTGTGAACGGGCTGAAGTCTCTCTCAGCAGGAAGGGTGGTGG
TTGTGAAGAATCAGGAGCATCACAACGCATTGGGAGTGATCCTACAGGTCTCCTCGAACTCCACCAGCAGAGTAT
TCACAACCTGGTCTTGTGTGATAAGCCCTTGTCCAGGACCCACAGGACAGGGGGCCAGCCACTGCAGAGGTGC
CCTATCCAGATGACCTCGTGGGATTCAAGCTGTTTCTGCTGAAGGGCCTTGTGACCACACCATGGTCAAGCTCC
AGCCAGGAGATATGGCTGCCATCACCACCAAGGTGCTCCGGGTGAATGGGGAGAAGATCTTGGAGGACTTCAGCA
AGAGGCAGCAGCCAAAATTCAAGAAGGATCCTCCCCTTGACGCCGTGACCACTGCTGTCCAGGAAGTGTGCTC
TGGCTCAGGCCACCCAGCCGACCTCCCACCTCGACCTGTCAATGACCTGCAGCTCAAAGATATGTAGTTG
TAGAGGGTGGGCTCCGGGCCCGGAAGCTGGAGGAGCTGATCCAGGGGGCTCAGTGTGTACACAGCCCCCGTTTC
CTGCCAGTACCTGAAGCTGCGGGAGCGAATGCAGATACAGAAGGAGATGGAGCGGCTGCGCTTCTACTGTGCG
ATCAGTCATTGCTGCTGCTTCTGAGTACCATCAGCGAGTAGAGGTGCTCCGAACCTGGGTTACGTGGACGAGG

4757/5332
FIGURE 4131B

TGGGCACTGTGAAGCTGGCAGGGCGGGTGGCTTGTGCCATGAGCAGCCATGAGTTGCTCCTCACTGAGCTCATGT
TTGACAATGCACTGAGCACCCCTGCGGCCTGAGGAGATTGCTGCCTTGCTCTCTGGCCTGGTCTGCCAGAGCCCTG
GGGACGCTGGGGATCAGCTCCCAAACACCCTCAAGCAGGGAATAGAACGTGTCCGGGCTGTGGCCAAGCGGATTG
GTGAGGTCCAGGTGGCTTGTGGCCTGAACCAGACGGTGGAGGAATTTGTGGGGGAGCTGAATTTTGGGCTGGTTG
AGGTTGTATATGAGTGGGCCCCGGGGCATGCCCTTCTCCGAGTTGGCAGGGCTCTCAGGGACCCCTGAGGGCCTGG
TGGTCCGCTGCATTGAGCGCCTGGCTGAGATGTGTGCTCACTGCGGGGGGCAGCCCGCCTGGTAGGAGAGCCTG
TGCTGGGTGCCAAGATGGAGACAGCGGCTACCTTGCTACGGCGGGACATCGTATTTGCGGCCAGCCTCTACACCC
AGTGAATGCCCCATGTAAAAACATGATGATAAAACAGCAAAGCAC

4758/5332
FIGURE 4132

CGTTTTCCGCTCCTCGCTACGTCATCGTTGTGAGCCCGCTATCAGCGGCCAGCGCGGGCGGGCCGGAGACCGTG
GGGCCCCCGGTTGCCGCCCCCTCGGGAGCCACCATGTTGGTGATACCCCCGGACTGAGCGAGGAAGAGGAGGCT
CTGCAGAAGAAATTCAACAAGCTCAAGAAAAAGAAAAAGGCATTGCTGGCTCTGAAGAAGCAAAGTAGCAGCAGC
ACAACCAGCCAAGGTGGTGTCAAACGCTCACTATCAGAGCAGCCTGTCATGGACACAGCCACAGCAACAGAGCAG
GCAAAGCAGCTGGTGAAGTCAGGAGCCATCAGTGCCATCAAGGCTGAGACCAAGAACTCAGGCTTCAAGCGTTCT
CGAACCCCTTGAGGGGAAGTTAAAGGACCCCGAGAAGGGACCAGTCCCCACTTTCCAGCCGTTCCAGAGGAGCATA
TCTGCTGATGATGACCTGCAAGAGTCATCCAGACGTCCCCAGAGGAAATCTCTGTATGAGAGCTTTGTGCTTCT
AGTGATCGACTTCGAGAAGTAGGACCAGATGGAGAAGAGGCAGAGGGCCCAGGGGCTGGTGATGGTCCCCCTCGA
AGCTTTGACTGGGGCTATGAAGAACGCAGTGGTGCCCACTCCTCAGCCTCCCCTCCCCGAAGCCGCAGCCGGGAC
CGCAGCCATGAGAGGAACCGGGACAGAGACCGAGATCGGGAGCGGGATCGAGACCGGGATCGAGACAGAGACAGA
GAGCGGGACAGGGATCGGGATCGGGATCGAGATCGAGACCGGGAACGGGACAGGGATCGGGAGCGGGATCGAGAC
CGAGACCGAGAGGGTCCTTTCCGCAGGTCGGATTTCATTCCTGAACGGCGAGCCCCCTAGGAAAGGGAATACTCTC
TATGTATATGGAGAAGACATGACACCCACCCCTTCTCCGTGGGGCCTTCTCTCCTTTTGGAACATCATTGACCTC
TCCATGGACCCACCCAGAACTGTGCCTTCGTACCTATGAAAAGATGGAGTCAGCAGATCAGGCCGTTGCTGAG
CTCAACGGGACCCAGGTGGAGTCTGTACAGCTCAAAGTCAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCT
ACTGGCAAGTCTGTCTGGGGCTCCCTCGCTGTCCAGAACAGCCCTAAGGCTTGCCACCGGGACAAGAGGACCCAG
ATTGTCTACAGTGATGACGCTACAAGGAAAACCTTGTGGATGGCTTCTTAGGGAACAGAGCTGGATTCTTGTGC
CTCATATGCCCCAATGCTGGTCTCAGTAAAACACTGAGGTGGAAGCTTACACATCTCCCTCAGCCTCTGGTTTTT
CAGCACTTGGGATTGGGGTTAAGCCTTTAAAAACGGCTGTTCAGGTTTGATCTCAGTGTAACGACATGGCCAGTGC
CTGTTCCCCACTCCCTTGCCCCAAAAGGATCTGGAACAC

4759/5332
FIGURE 4133

AGGGGAAGGGAATGTGACCAGGTCTAGGTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGACAAGCAAAGCAA
GCCAGGACACACCATCCTGCCCCAGGCCAGCTTCTCTCCTGCCTTCCAACGCCATGGGGAGCAATCTCAGCCCC
CAACTCTGCCTGATGCCCTTTATCTTGGGCCTCTGTCTGGAGGTGTGACCACCCTCCATGGTCTTTGGCCAG
CCCCAGGGATCCTGCTCTCTGGAGGGGTAGAGATCAAAGGCGGCTCCTTCCGACTTCTCCAAGAGGGCCAGGCA
CTGGAGTACGTGTGTCCTTCTGGCTTCTACCCGTACCCTGTGCAGACACGTACCTGCAGATCTACGGGGTCTCTGG
AGCACCTGAAGACTCAAGACCAAAAGACTGTCAAGGAAGGCAGAGTGCAGAGCAATCCACTGTCCAAGACCACAC
GACTTCGAGAACGGGGAATACTGGCCCCGGTCTCCCTACTACAATGTGAGTGATGAGATCTCTTTCCACTGCTAT
GACGGTTACACTCTCCGGGGCTCTGCCAATCGCACCTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATC
TGTGACAACGGAGCGGGGTACTGCTCCAACCCGGGCATCCCCATTGGCACAAGGAAGGTGGGCAGCCAGTACCGC
CTTGAAGACAGCGTCACTACCCTGCAGCCGGGGGCTTACCCTGCGTGGCTCCCAGCGGCGAACGTGTCAAGAA
GGTGGCTCTTGGAGCGGGACGGAGCCTTCTGCCAAGACTCCTTCATGTACGACACCCCTCAAGAGGTGGCCGAA
GCTTTCCTGTCTTCCCTGACAGAGACCATAGAAGGAGTGCATGCTGAGGATGGGCACGGCCCAGGGGAACAACAG
AAGCGGAAGATCGTCTGGACCCTTCAAGGCTCCATGAACATCTACCTGGTGCTAGATGGATCAGACAGCATTGGG
GCCAGCAACTTCACAGGAGCCAAAAAGTGTCTAGTCAACTTAATTGAGAAGGTGGCAAGTTATGGTGTGAAGCCA
AGATATGGTCTAGTGACATATGCCACATACCCCAAAATTTGGGTCAAAGTGTCTGAAGCAGACAGCAGTAATGCA
GACTGGGTACGAAGCAGCTCAATGAAATCAATTATGAAGACCACAAGTTGAAGTCAGGGACTAACACCAAGAAG
GCCCTCCAGGCAGTGTACAGCATGATGAGCTGGCCAGATGACGTCCCTCCTGAAGGCTGGAACCGCACCCGCCAT
GTCATCATCTCATGACTGATGGATTGCACAACATGGGCGGGGACCCAATTACTGTCTATTGATGAGATCCGGGAC
TTGCTATACATTGGCAAGGATCGCAAAAACCAAGGGAGGATTATCTGGATGTCTATGTGTTTGGGGTGGGGCCT
TTGGTGAACCAAGTGAACATCAATGCTTTGGCTTCCAAGAAAGACAATGAGCAACATGTGTTCAAAGTCAAGGAT
ATGGAACCTGGAAGATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTGG
GAACACAGGAAGGGTACCGATTACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATTCCGCCCTTCAAAGGGA
CACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTACTTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGAC
AAGGAACACTCAATCAAGGTGAGCGTAGGAGGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCCTATTTACCCCC
AACTACAACATTAATGGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCCTGCACCGAGGGAACAACCTCGAGCTTTG
AGGCTTCCCTCCAACCTACCACTTGCCAGCAACAAAAGGAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTT
GTGTCTGAGGAGGAGAAAAAGCTGACTCGGAAGGAGGTCTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAG
AGAGATGCTCAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTCTTTGT
ACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTTGACAGAGGTGATTCTGGCGGGCCCTTGATAGTTCAAGAG
AGAAGTCGTTTCATTCAAGTTGGTGTAAATCAGCTGGGGAGTAGTGATGTCTGCAAAAACCAGAAGCGGCAAAAG
CAGGTACCTGCTCACGCCCCGAGACTTTCACATCAACCTCTTTCAAGTGTGCTGCCCTGGCTGAAGGAGAACTCCAA
GATGAGGATTTGGGTTTTCTATAAGGGGTTTTCTGCTGGACAGGGGCGTGGGATTGAATTAAACAGCTGCGACA
AC

4760/5332
FIGURE 4134A

GCAAGCGGCGATGCGGCGGCGGCGGGAGCTGCAGCGGCGGCGGCCGCGAGGGGGAGGCCCCGCTGAGATGGG
GGCGCTGCTGCTGGAGAAGGAAACCAGAGGAGCCACCGAGAGAGTTTCATGGCTCTTTGGGGGACACCCCTCGTAG
TGAAGAAACCTGCCCAAGGCCACCCCGACTCCCTGGAGCCTGCTGGCCCTCATCTCCAGCCTCTGTCACTGT
CACTGTTGGTGATGAGGGGGCTGACACCCCTGTAGGGGGCTACACCCTCATTGGGGATGAATCTGAGAATCTTGA
GGGAGATGGGGACCTCCGTGGGGGCCGATCCTGCTGGGCCATGCCACAAAGTCATTCCCTCTTCCCCAGCAA
GGGGGGTTCTGTCTAGCCGGGCCAAGATGTCAATGACAGGGGGCGGAAAAATCACCTCCATCTGTCCAGAGTTT
GGCTATGAGGCTACTGAGTATGCCAGGAGCCCAGGGAGCTGCAGCAGCAGGGTCTGAACCCCTCCAGCCACCAC
GAGCCCAGAGGGACAGCCCAAGGTCCACCGAGCCCGCAAACCATGTCCAAACCAGGAAATGGACAGCCCCCGGT
CCCTGAGAAGCGGCCCCCTGAAATACAGCATTTCCGCATGAGTGATGATGTCCACTCACTGGGAAAGGTGACCTC
AGATCTGGCCAAAAGGAGGAAGCTGAACTCAGGAGGTGGCCTGTGCGAGGAGTTAGGTTCTGCCGGCGTTTCAGG
AGAAGTGACCCTGACGAAAGGGGACCCCGGTCCCTGGAGGAGTGGGAGACGGTGGTGGGTGATGACTTCAGTCT
CTACTATGATTCTACTCTGTGGATGAGCGCTGGACTCCGACAGCAAGTCTGAAGTTGAAGCTCTAACTGAACA
ACTAAGTGAAGAGGAGGAGGAGGAAGAGGAGGAAGAAGAAGAAGAGGAAGAGGAGGAGGAAGAGGAAGAAGA
GGAAGATGAGGAGTCAGGGAATCAGTCAGATAGGAGTGGTTCCAGTGGCCGGCGCAAGGCCAAGAAGAAATGGCG
AAAAGACAGCCCATGGGTGAAGCGTCTCGGAAACGGCGCAAGCGGGAGCCTCCGCGGGCCAAGGAGCCACGAGG
AGTGAATGGTGTGGGCTCCTCAGGCCCCAGTGAGTACATGGAGGTCCCTCTGGGGTCCCTGGAGCTGCCAGCGA
GGGGACCCTCTCCCCAACCACGCTGGGGTGTCCAATGACACATCTTCGCTGGAGACAGAGCGAGGGTTTGAGGA
GTTGCCCTGTGCAGCTGCCGCATGGAGGCACCCAAGATTGACCGCATCAGCGAGAGGGCGGGGCACAAGTGCAT
GGCCACTGAGAGTGTGGACGGAGAGCTGTGAGGCTGCAATGCCGCCATCCTCAAGCGGGAGACCATGAGGCCATC
CAGCCGTGTGGCCCTGATGGTGCTCTGTGAGACCCACCGCGCCCGCATGGTCAAACACCACTGCTGCCGGGCTG
CGGCTACTTCTGCACGGCGGGCACCTTCCTGGAGTGCCACCCTGACTTCCGTGTGGCCCACCGCTTCCACAAGGC
CTGTGTGTCTCAGCTGAATGGGATGGTCTTCTGTCCCACTGTGGGGAGGATGCTTCTGAAGCTCAAGAGGTGAC
CATCCCCCGGGTGACGGGGTGACCCACCGGCCGGCACTGCAGCTCCTGCACCCCAACCCCTGTCCCAGGATGT
CCCCGGGAGAGCAGACACTTCTCAGCCCAAGTGCCCGGATGCGAGGGCATGGGGAACCCCGGCGCCCGCCCTGCGA
TCCCTTGGCTGACACCATTGACAGCTCAGGGCCCTCCCTGACCCTGCCCAATGGGGGCTGCCTTTCAGCCGTGGG
GCTGCCACTGGGGCCAGGCCGGGAGGCCCTGGAAAAGGCCCTGGTTCATCCAGGAGTCAGAGAGGCGGAAGAAGCT
CCGTTTCCACCTCGGCAGTTGTACCTGTCCGTGAAGCAGGGCGAGCTGCAGAAGGTGATCCTGATGCTGTTGGA
CAACCTGGACCCCAACTTCAGAGCGACACAGCAGAGCAAGCGCACGCCCTGCATGCAGCCGCCAGAAGGGCTC
CGTGAGAGTCTGCCATGTGCTGCTGCAGGCTGGAGCCAACTAAATGCAGTGGACAAACAGCAGCGGACGCCACT
GATGGAGGCCGTGGTGAACAACCACTGGAGGTAGCCGTTACATGGTGCAGCGTGGTGGCTGTGTCTATAGCAA
GGAGGAGGACGGTTCCACTGCCCTCCACCACGCAAGCAAAATCGGGAACCTGGAGATGGTCAGCCTGCTGCTGAG
CACAGGACAGGTGGACGTCAATGCCAGGACAGTGGGGGTGGACGCCCATCATCTGGGCTGCAGAGCACAAGCA
CATCGAGGTGATCCGCATGCTACTGACGCGGGGCGCCGACGTACCCCTCACTGACAACGAGGAGAACATCTGCCT
GCACTGGGCCTCCTTCACGGGCAGCGCCGCCATCGCCGAAGTCCTTCTGAATGCGCGCTGTGACCTCCATGCTGT
CAACTACCATGGGGACACCCCTGACATCGCAGCTCGGGAGAGCTACCATGACTGCGTGTGTTATTCCTGTG
ACGTGGGGCCAACCTGAGCTGCGGAACAAAGAGGGGGACACAGCATGGGACCTGACTCCCGAGCGCTCCGACGT
GTGGTTTTCGCTTCAACTCAACCGCAAGCTCCGACTTGGGGTGGGAAATCGGGCCATCCGCACAGAGAAGATCAT
CTGCCGGGACGTGGCTCGGGGCTATGAGAAGCTGCCATTCCCTGTGTCAACGGTGTGGATGGGGAGCCCTGCC
TGAGGATTACAAGTACATCTCAGAGAACTGCGAGAGCTCCACCATGAACATCGATCGCAACATCACCCACCTGCA
GCACTGCACGTGTGTGGACGACTGCTCTAGCTCCAACCTGCTGTGCGGCCAGCTCAGCATCCGGTGTGTTATGA
CAAGGATGGGCGATTGCTCCAGGAATTTAACAAGATTGAGCCTCCGCTGATTTTCAGTGTAAACAGGCGTGCTC
ATGCTGGAGAACTGCAAGAACCGGGTCTGACAGAGTGGCATCAAGGTGCGGCTACAGCTCTACCGAACAGCCAA
GATGGGCTGGGGGTCCGCGCCCTGCAGACCATCCACAGGGGACCTTCATCTGCGAGTATGTCGGGGAGCTGAT
CTCTGATGCTGAGGCTGATGTGAGAGAGGATGATTCTTACCTCTTCGACTTAGACAACAAGGATGGAGAGGTGTA
CTGCATAGATGCCGTTACTATGGCAACATCAGCCGTTTCATCAACCACCTGTGTGACCCCAACATCATTCCCGT
CCGGGTCTTCATGCTGCACCAAGACCTGCGATTTCCACGCATCGCCTTCTTCAGTTCCCGAGACATCCGGAAGTGG
GGAGGAGCTAGGGTTTGACTATGGCGACCGCTTCTGGGACATCAAAAGCAAATATTTACCTGCCAATGTGGCTC
TGAGAAGTGAAGCACTCAGCCGAAGCCATTGCCCTGGAGCAGAGCCGTCTGGCCCGCTGGACCCACACCCCTGA

4761/5332
FIGURE 4134B

GCTGCTGCCCCGAGCTCGGCTCCCTGCCCCCTGTCAACACATGAGAACGGACCACACCCTCTCTCCCCAGCATGGA
TGGCCACAGCTCAGCCGCCTCCTCTGCCACCAGCTGCTCGCAGCCCATGCCTGGGGGTGCTGCCATCTTCTCTCC
CCACCACCCCTTTCACACATTCTGACCAGAGATCCCAGCCAGGCCCTGGAGGTCTGACAGCCCCTCCCTCCCAGA
GCTGGTTCTCCTGCGGAGGGCAACTTCAGGGCTGGCCACCCCCGTGTTCCCCATCCTCAGTTGAAGTTTGATG
AATTGAAGTCGGGCCTCTATGCCAACTGGTTCCTTTGTTCTCAATAAATGTTGGGTTGGTAATAAA

4762/5332
FIGURE 4135

ATGGGGGAAAGCAGCGGGACGAGGATGACGAGGCCTACGGGAAGCCAGTCAAATACGACCCCTCCTTTTCGAGGC
CCCATCAAGAACAGAAGCTGCACAGATGTCATCTGCTGCGTCCTTCTCTGCTCTTCATTCTAGGTTACATCGTG
GTGGGGATTGTGGCCTGGTTGTATGGAGACCCCGGCAAGTCCTCTACCCAGGAACCTCTACTGGGGCCTACTGT
GGCATGGGGGAGAACAAGATAAGCCGTATCTCCTGTACTTCAACATCTTCAGCTGCATCCTGTCCAGCAACATC
ATCTCAGTTGCTGAGAACGGCCTACAGTGCCCCACACCCAGGTGTGTGTGCTCCTGCCCCGAGGAGCCCATGG
ACTGTGGGAAAAACGAGTTCTACAGACTGTTGGGGAAGTCTTCTATACAAAAACAGGAACCTTTTGTCTGCCA
GGGGTACCCTGGAATATGACGGTGATCACAAGCCTGCAACAGGAACCTGCCCCAGTTTCTCCTCCCTCTGCT
CCAGCTCTGGGACGCTGCTTTCCATGGACCAACATTACTCCACGGCGCTCCCAGGGATCACCAATGACACCACC
ATACAGCAGGGGATCAGCGGTCTTATTGACAGCCTCAATGCCCCGAGACATCAGTGTTAAGATCTTTGAAGATTTT
GCCCAGTCCTGGTATTGGATTCTTGTTGCCCTGGGGGTGGCTCTGGTCTTGAGCCTACTGTTTATCTTGCTTCTG
CGCCTGGTGGCTGGGCCCCCTGGTGCTGGTGCTGATCCTGGGAGTGCTGGGCGTGCTGGCATATGGCATCTACTAC
TGCTGGGAGGAGTACCGAGTGCTGCGGGACAAGGGCGCCTCCATCTCCCAGCTGGGTTTACCACCAACCTCAGT
GCCTACCAGAGCGTGACGAGACCTGGCTGGCCGCCCTGATCGTGTGGCGGTGCTTGAAGCCATCCTGCTGCTG
GTGCTCATCTTCTGCGGCAGCGGATTTCGTATTGCCATCGCCCTCCTGAAGGAGGCCAGCAAGGCTGTGGGACAG
ATGATGTCTACCATGTTCTACCCACTGGTCACCTTTGTCTCCTCCTCATCTGCATTGCCTACTGGGCCATGACT
GCTCTGTATCCTCTGCCCCACGACCCAGCCACTCTTGGATATGTGCTCTGGGCATCCAACATCAGTCCCCCGGC
TGTGAGAAAGTGCCAAATAATACATCATGCAACCCACGGCCACCTTGTGAACTCCTCGTGCCAGGGCTGATG
TGCGTCTTCCAGGGCTACTCATCAAAGGCCTAATCCAACGTTCTGTCTTCAATCTGCAATCTATGGGGTCTG
GGGCTCTTCTGGACCCCTTAAGTGGGTACTGGCCCTGGGCCAATGCGTCTCGCTGGAGCCTTTGCCCTCCTTCTAC
TGGGCCTTCCACAAGCCCCAGGACATCCCTACCTTCCCCTTAATCTCTGCCTTCATCCGCACACTCCGTTACCAC
ACTGGGTCATTGGCATTGGAGCCCTCATCCTGACCTTGTGCAGATAGCCCGGTTCATCTGGAGTATATTGAC
CACAAGCTCAGAGGAGTGCAAGCCCTGTAGCCCGCTGCATCATGTGCTGTTTCAAGTGCTGCCTCTGGTGTCTG
GAAAAATTTATCAAGTTCCTAAACCGCAATGCATACATCATGATCGCCATCTACGGGAAGAATTTCTGTGTCTCA
GCCAAAAATGCGTTCATGCTACTCATGCGAAACATTGTGAGGGTGGTTCCTGGACAAAGTCACAGACCTGCTG
CTGTTCTTTGGGAAGCTGCTGGTGGTGGGAGGCGTGGGGTCCCTGTCCTTCTTTTTTTTCTCCGGTTCGATCCCG
GGGCTGGGTAAAGACTTTAAGAGCCCCACCTCAACTATTACTGGCTGCCCATCATGACCTCCATCCTGGGGGCC
TATGTATCGCCAGCGGCTTCTTCAGCGTTTTTCGGCATGTGTGTGGACACGCTCTTCCTCTGCTTCTGGAAGAC
CTGGAGCGGAACAACGGCTCCCTGGACCGGCCCTACTACATGTCCAAGAGCCTTCTAAAGATTCTGGGCAAGAAG
AACGAGGCGCCCCGGACAACAAGAAGAGGAAGAAGTAGCAGCTCCGGCCCTGATCCAGGACTGCACCCACCCC
CACCGTCCAGCCATCCAACCTCACTTCGCCTTACAGGTCTCCATTTTGTGGTAAAAAAGGTTTtagGCCAGGCG
CCGTGGCTCACGCTGTAATCCAACACTTTGAGAGGCTGAGGCGGGCGGATCACCTGAGTCAGGAGTTCGAGACC
AGCCTGGCCAACATGGTGAAAC

4763/5332
FIGURE 4136

CGGGAAGCGCGGCGGGGCTCCAGACCGGGGCGGGCTTAAGGGTGACATCTGCGCTTTAAAGGGTCCGGGTCAGC
TGA TCCCGACTCTGTGGAGTCTAGCTGCCAGGGTCGCGGCAGCTGCGGGGAGAGATGA TGGGGAGCGAGCCAG
CACGGCGCTCCCGGACAGACGCTGGGGGCCGCGGATTCTGGGCTTCTGGGGAGGCTGTAGGGTTTGGGTGTTTGC
CGCGATCTTCTGTCTGTCTCTGGCAGCCTCCTGGTCCAAGGCTGAGAACGACTTCGGTCTGGTGCAGCCGCT
GGTGACCATGGAGCAACTGCTGTGGGTGAGCGGGAGACAGATCGGCTCAGTGGACACCTTCGCGATCCCGCTCAT
CACAGCCACTCCGCGGGGCACTCTTCTCGCCTTTGCTGAGGCGAGGAAAATGTCTCATCCGATGAGGGGGCCAA
GTTTCATCGCCCTGCGGAGGTCCATGGACCAGGGCAGCACATGGTCTCCTACAGCGTTCATTGTCAATGATGGGGA
TGTCCCCGATGGGCTGAACCTTGGGGCAGTAGTGAGCGATGTTGAGACAGGAGTAGTATTTCTTTTCTACTCCCT
TTGTGCTCACAAGGCCGGCTGCCAGGTGGCCTCTACCATGTTGGTATGGAGCAAGGATGATGGTGTTCCTGGAG
CACACCCCGGAATCTCTCCCTGGATATTGGCACTGAAGTGTTTGCCCTGGACCGGGCTCTGGTATTTCAGAAACA
GCGGGAGCCACGGAAGGGCCGCTCATCGTGTGTGGCCATGGGACGCTGGAGCGGGACGGAGTCTTCTGTCTCCT
CAGCGATGATCATGGTGCCTCCTGGCGCTACGGAAGTGGGGTCAGCGGCATCCCTACGGTCAGCCCAAGCAGGA
AAATGATTTCAATCCTGATGAATGCCAGCCCTATGAGCTCCCAGATGGCTCAGTCGTCATCAATGCCCGAAACCA
GAACAAC TACCACTGCCACTGCCGAATTGTCTCCGAGCTATGATGCCTGTGATACACTAAGGCCCCGTGATGT
GACCTTCGACCCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCTGTAGTCACCAGCTCCGGCATTGTCTTCTT
CTCCAAACCCAGCACATCCAGAGTTCCGAGTGAACCTGACCCTGCGATGGAGCTTCAGCAATGGTACCTCATGGCG
GAAAGAGACAGTCCAGCTATGGCCAGGCCCCAGTGGCTATTTCATCCCTGGCAACCCTGGAGGGCAGCATGGATGG
AGAGGAGCAGGCCCCCAGCTCTACGTCTGTATGAGAAAGGCCGGAACCACTACACAGAGAGCATCTCCGTGGC
CAAAATCAGTGTCTATGGGACACTCTGAGCTGTGCCACTGCCACAGGGGTATTCTGCCTTCAGGACTCTGCCTTC
AGGAACACGGGTCTGTAGAGGGTCTGCTGGAGACGCCTGAAAGACAGTTCCATCTTCCTTTAGACTCCAGCCTTG
GCAAAATCACCTTCCCTTTACCAGGGAAATCACTTCCTTTAGGACTGAAAGCTAGGCGTCTCTCCACAAAAAA
GTCTTGCCCTCATCTGAGAATACTGTCTTTCCATATGGCTAAGTGTGGCCCCACCACCCTCTCTGCCCTCCCGG
ACATTGATTGGTCTGTCTTGGGCAGGTCTAGTGAGCTGTAGAATTGAATCAATGTGAACTCAGGGAAC TGGGGA
AGGCTGAGCCTCCTCTTTGGTGTGCGGTAAGATAACCGACAGGGCTGGTGAAGTCCCCAGATGGCAGGATATT
TGGTTTCAGAGTAAGGACTAGGTGCACCACCATGACTGACTATCAATCAAAATGTTTGTAACCTTAAATTTTTAA
TGAAGGATAATGAATATTT

4764/5332
FIGURE 4137

GGTCCCAAGGCTTTCCAGAGCGAACCTGTGCGGCTGCAGGCACCGGCGTGTGAGTTTCCGGCGTTCCGAAGGAC
TGAGCTCTTGTGCGGGATCCCGTCCGCCGTTTCCAGCCCCAGTCTCAGAGCGGAGCCACAGAGCAGGGCACCG
GCATGGCCAAAGCCGCGGCGATCGGCATCGACCTGGGCACCACCTACTCCTGCGTGGGGGTGTTCCAACACGGCA
AGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACCACCCAGCTACGTGGCCTTCACGGACACCGAGCGGC
TCATCGGGGATGCGGCCAAGAACCAGGTGGCGCTGAACCCGAGAACACCGTGTTGACGCGAAGCGGCTGATCG
GCCGCAAGTTCGGCGACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTCAGGTGATCAACGACGGAGACA
AGCCCAAGGTGCAGGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCGAGGAGATCTCGTCCATGGTGCTGA
CCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTCCGGCCTACT
TCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGTGTGATCGCGGGGCTCAACGTGCTCGGGATCATCAACG
AGCCACGCGCCGCCCATCGCCTACGGCCTGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACC
TGGGCGGGGGCACCTTCGACGTGTCCATCCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGG
ACACCCACCTGGGTGGGGAGGACTTTGACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACA
AGAAGGACATCAGCCAGAAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAGAGGACCCTGT
CGTCCAGCACCCAGGCCAGCCTGGAGATCGACTCCCTGTTTGGAGGGCATCGACTTCTACACGTCCATCACCAGGG
CGAGGTTTCGAGGAGCTGTGCTCCGACCTGTTCCGAAGCACCTTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCA
AGCTGGACAAGGCCAGATTACGACCTGGTCCCTGGTCCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGC
TGCAGGACTTCTTCAACGGGCGCGACCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGGCGG
TGCAGGCGGCCATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCCTGT
CGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGA
CGCAGATCTTCAACACCTACTCCGACAACCAACCCGGGGTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGA
CGAAAGACAACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCG
AGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAGCA
AGATCACCATCACCAACGACAAGGGCCGCTGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGT
ACAAAGCGGAGGACGAGGTGCAGCGCGAGAGGGTGTGAGCCAGAAGCGCCCTGGAGTCCACGCCTTCAACATGA
AGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCGGACAAGAAGAAGGTTCTGGACAAGTGTC
AAGAGGTGATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGG
AGCAGGTGTGTAACCCCATCATCAGCGGACTGTACCAGGGTGCCGGTGGTCCCGGCTGGGGGCTTCGGGGCTC
AGGGTCCCAAGGGAGGGTCTGGGTGAGGCCCTACCATTGAGGAGGTGGATTAGGGGCCCTTTGTTCTTTAGTATGT
TTGTCTTTGAGGTGGACTGTTGGGACTCAAGGACTTTGCTGCTGTTTTCTATGTCAATTTCTGCTTCAGCTCTTT
GCTGCTTCACTTCTTTGTAAAGTTAAGTTGTAACCTGATGGTAATTAGCTGGCTTCATTATTTTTGTAGTACAAC
CGATATGTTTATTAGAATTCTTTGCATTTAATGTTGATACTGTAAGGGTGTTCGTTCCCTTTAAATGAATCAAC
ACTGCCACCTTCTGTACGAGTTTGTTTTTTTTTTTTTTTTTTTTTTTTGGCTTGGCGAAAACACTACAAAGGC
TGGAATGTATGTTTTTATAATTTGTTTATTAAATATGAAAAATAAATGTTAACTTT

4765/5332
FIGURE 4138

ACTGCGCAGGCCCAGCAAGCCCCACAATTAAAGCCCAGCGCCGACCCCTTCCTGTCAATTAGGCGCTGAAGCGC
AGGCGGTCTAGCATCGCCATGGAGACCAACACCCTTCCCACCGCCACTCCCCCTTCCTCTCAGGGTCCCTGTCCCC
TCCAGTGAATCCCAGAAGACTCTGGAGAGTTCTGAGCAGGGGGCGGCACTCTGGCCTCTGATTGGTCCAAGGAAG
GCTGGGGGGCAGGACGGGAGGCGAAACCCCTGGAATATTCCCGACCTGGCAGCCTCATCGAGCTCGGTGATTGGC
TCAGAAGGGAAAAGCGGGTCTCCGTGACGACTTATAAAAGCCCAGGGGCAAGCGGTCCGGATAACGGCTAGCCT
GAGGAGCTGCTGCGACAGTCCACTACCTTTTTTCGAGAGTGACTCCCGTTGTCCCAAGGCTTCCCAGAGCGAACCT
GTGCGGCTGCAGGACCCGGCGCGTCGAGTTTCCGGCGTCCGGAAGGACCGAGCTCTTCTCGCGGATCCAGTGTT
CGTTTCCAGCCCCAATCTCAGAGCCGAGCCGACAGAGAGCAGGGAACCGGCATGGCCAAAGCCGCGGCGATCGG
CATCGACCTGGGCACCACTACTCCTGCGTGGGGGTGTTCCAACACGGCAAGGTGGAGATCATCGCCAACGACCA
GGGCAACCGCACCACCCCAGCTACGTGGCCTTACGGACACCGAGCGGCTCATCGGGGATGCGGCCAAGAACCA
GGTGGCGCTGAACCCGAGAACACCGTGTTTGACGCGAAGCGGCTGATCGGCCGCAAGTTGCGCGACCCGGTGGT
GCAGTCGGACATGAAGCACTGGCCTTTCCAGGTGATCAACGACGGAGACAAGCCCCAAGGTGCAGGTGAGCTACAA
GGGGACACCAAGGCATTCTACCCGAGGAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCGAGGC
GTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACTTCAACGACTCGCAGCGCCAGGCCAC
CAAGGATGCGGGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACGAGCCCACGGCCGCCCATCGCCTA
CGGCCTGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACCTGGGCGGGGGCACCTTCGACGTGTC
CATCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGGACACCCACCTGGGTGGGGAGGACTT
TGACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAACACAAGAAGGACATCAGCCAGAACAAGCG
AGCCGTGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAAGAGGACCTGTGCTCCAGCACCCAGGCCAGCCTGGA
GATCGACTCCCTGTTTGAGGGCATCGACTTCTACAGTCCATCACAGGGCGAGGTTGAGGAGCTGTGCTCCGA
CCTGTTCCGAAGCACCCCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCAAGCTGGACAAGGCCAGATTACGA
CCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGCGGCTGCAGGCGGCCATCCTGATGGGGGA
CAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGAGCGTGGCTCCCTGTGCTGGGGCTGGAGACGGCCGAGG
CGTGATGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGACGCAGATCTTCACCACCTACTCCGA
CAACCAACCCGGGGTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGACGAAAGACAACAATCTGTTGGGGCG
CTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCGAGGTGACCTTCGACATCGATGCCAA
CGGCATCCTGAACGTACACGGCCACGGACAAGAGCACCGGCAAGGCCAACAAGATCACCATCACCACGACAAGGG
CCGCTGAGCAAGGAGGAGATCGAGCGCATGGTGAGGAGGCGGAGAAGTACAAAGCGGAGGACGAGGTGCAGCG
CGAGAGGGTGTCAGCCAAGAACGCCCTGGAGTCTACGCCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCT
CAAGGGCAAGATCAGCGAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTCTCTCGTGGCTGGACGC
CAACACCTTGGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGGAGCAGGTGTGTAACCCCATCATCAG
CGGACTGTACCAGGGTGCCGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTCAGGGTCCCAAGGGAGGGTCTGGGTC
AGGCCCCACCATTGAGGAGGTAGATTAGGGGCCTTTCCAAGATTGCTGTTTTTGTGTTTGGAGCTTCAAGACTTG
CATTTCTAGTATTTCTGTTTGTGAGTTCTCAATTTCTGTGTTTGAATGTTGAAATTTTTTGGTGAAGTACTG
AACTTGCTTTTTTTCCGGTTTCTACATGCAGAGATGAATTTATACTGCCATCTTACGACTATTTCTCTTTTTAA
TACACTTAACTCAGGCCATTTTTTAAGTTGGTTACTTCAAAGTAAATAAACTTTAAAATTCAAGTGA

4766/5332
FIGURE 4139

GGGCCAGTTTGGAAAAAGATTACTGAGTTGGAGCCGTCTCAAATTTGCAGGGAGGGACGGGGTGGGGGTGGGGG
GACCCCGGTTGTGCAGTTTGATATTGAGGGAGCCCCACCTACTCGCTGGGGCTGCGTAATCTGGACGTTTCCAA
ACTGAAGCGAAGGCGTCGGGAGACTAGGCCTCAGAGAACCATGGCTACTGCCAAGGGAATCGCCATAGGCATCGA
CCTGGGCACCACCTACTCCTGTGTGGGGGTGTTCCAGCACGGCAAGGTGGAGATCATCGCCAACGACCAGGGCAA
CCGCACCACCCCCAGCTACGTGGCCTTCACAGACACCGAGCGGCTCATTGGGGATGCGGCCAAGAACCAGGTAGC
AATGAATCCCCAGAACACTGTTTTTGTATGCTAAACGTCTGATCGGCAGGAAATTTAATGATCCTGTTGTACAAGC
AGATATGAAACTTTGGCCTTTTCAAGTGATTAATGAAGGAGGCAAGCCCCAAAGTCCTTGTGTCTACAAAGGGGA
GAATAAAGCTTTCTACCCTGAGGAAATCTCTTCGATGGTATTGACTAAGTTGAAGGAGACTGCTGAGGCCTTTTT
GGGCCACCCTGTCAACCAATGCAGTGATTACCGTGCCAGCCTATTTCAATGACTCTCAACGTCAAGCTACTAAGGA
TGCAGGTGTGATTGCTGGACTTAATGTGCTAAGAAATCATCAATGAGCCCACGGCTGCTGCCATTGCCTATGGTTT
AGATAAAGGAGGTCAAGGAGAACGACATGTCTTGATTTTTGATCTGGGTGGAGGCACATTTGATGTGTCAATTCT
GACCATAGATGTAGGGATTTTTGAGGTAAAGGCCACTGCTGGGGACACTCACCTGGGTGGGGAGGACTTTGACAA
CAGGCTTGTGAGCCACTTCGTGGAGGAGTTCAAGAGGAAACACAAAAGGACATCAGCCAGAACAAGCGAGCCGT
GAGGCGGTGCGCACCGCCTGCGAGAGGGCCAGAGGACCCTGTGCTCCAGCACCCAGGCCAACCTAGAAATTGA
TTCACTTTATGAAGGCATTGACTTCTATACATCCATCACCAGAGCTCGATTTGAAGAGTTGTGTGCAGACCTGTT
TAGGGGTACCCTGGAGCCTGTAGAAAAAGCGCTTCGGGATGCCAAGATGGATAAGGCTAAAAATCCATGACATTGT
TTTAGTAGGGGGCTCCACCCGCATCCCCAAGGTGCAGCGGCTGCTTCAGGACTACTTCAATGGACGTGATCTCAA
CAAGAGCATCAACCCTGATGAGGCGTAGCATATGGGGCTGCGGTACAAGCAGCCATCCTGATGGGGGACAAGTC
TGAGAAGGTACAGGACCTGCTGCTGGACGTGGCTCCCCCTGTCCCTGGGGCTGGAGACGGCTGGGGGCGTGAT
GACTGCCCTGATAAAGCGCAACTCCACCATCCCCACCAAGCAGACACAGATTTTCACCACCTACTCTGACAACCA
ACCCGGGGTGCTGATCCAGGTGTATGAGGGCGAGAGGGCCATGACAAAGGACAACAACCTGCTGGGGCGGTTTGA
CCTGACTGGAATCCCTCCAGCACCCAGGGGAGTTCCCTCAGATCGAGGTGACGTTTGACATTGATGCCAATGGTAT
TCTCAATGTACAGCCATGGACAAGAGCACCGGCAAGGTGAACAAGATCACCATCACCATGACAAGGGCCGCT
GAGCAAGGAGGAGATTGAGCGCATGGTTCTGGATGCTGAGAAATATAAAGCTGAAGATGAGGTCCAGAGGGAGAA
AATTGCTGCAAGAATGCCTTAGAATCCTATGCTTTTTAACATGAAGAGTGTTGTGAGTGATGAAGGTTTGAAGGG
CAAGATTAGTGAGTCTGATAAAAAATAAATATTGGATAAATGCAACGAGCTCCTTTCTGGCTGGAGGTCAATCA
ACTGGCAGAGAAAGATGAGTTTGATCATAAGAGAAAGGAATTGGAGCAGATGTGTAACCCCTATCATCACAAACT
CTACCAAGGAGGATGCACTGGGCCTGCTGCGGAACAGGGTATGTGCTGGAAGGCCTGCCACAGGCCCCACAAT
TGAAGAAGTAGATTAATTCTTTTTAGAACTGAAGCATCCTAGGATGCCTCTACATGTATTTTATTCCCCTCATCT
TCAAACATCATTATTATTCTTGACCAGACCTGAATCTAAGTTACCATCCCTTGGAAATTCTGGAGAAGGAGTCTC
ATGCACCACCTATCACACTCCCTCACATCCTGTTTCTGACTTTGGAATGGACTCAGGAAAAGTAGGCCCTCTTT
AAACCGTGTGATGTATTTGAATGTCTGTTATTTCCAGCCACCCTAACATTTCTTCTCCTGTGTGGATGCTTATTT
GTCAATCAGTAAATTTGTTTCGTAAAG

4767/5332
FIGURE 4140

GGCTTCCTCCTCCCCTCTACTCTACCCAGCTTGCGCTCCCCAGCCGCAAGTCGGCCGCGCTTTGCCCGTCAGCGC
TTGGAGCTTTCTGCGTCGCTTCCCGCTGCGCCTGCGCGGTCCCGCCTCGCCCCACGCGCGGGCTCGCGCTTCGGT
TTCCCCAGACCTGCTCGCAGCACCTGCTGTCTTCCCGGTCCGGCCCGCTGCCCGCGGCGCCAGCACCATGCTCT
TCTATTCTTTTTTCAAGTCCCTTGTGGGCAAGGATGTGGTCGTGGAATAAAGAATGACCTGAGCATCTGTGGAA
CCCTCCATTCTGTGGATCAGTATCTCAACATCAAATAACTGACATCAGTGTCACAGACCCTGAGAAATACCCTC
ACATGTTATCAGTGAAGAACTGCTTCATTTCGGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTCG
ACACACAGTTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTGATGGCTCCTCCTCCTCTTCC
CCTCCCTCTTTTATTGGTGACCCATAACCCCAAGTCCCAGCCCAGAACCCCTAACCCCAATACTTGAAGGGGT
TTGTTTTTTTACTAATGATGGTTTTGTGGGTTTTTTTTTAAGGGATGAGTGGATGAGAGGAGTAATAGGGAACAGC
TATCCTCTCTTGAGAAGGGGAGGATAAGTAGGCTGGGAACTTCAAAGCCTTCCCAGTCCCAGCACCTGCCTTT
CTCACTACTTCTCTGGAGATGGTAGGAGAGTTTCTAGGTCTTCCAGGGCAGCATGTGATTCAATTGGGGATGG
AAGGAATCTGTCCCGCATCGGGAATAAAATTTATGATGC

4768/5332
FIGURE 4141A

GTCACAAAGGGGGGAACACGTGGGCGCCGGCTGCCGGGGCGGCGATCTTAGGGAAGTAGGGTCACCTGGAGAGCC
GCCACCGTCTCTGCCCGCTCGACTCCTCCGCCCGGGCCGCTCGGCCGGTCCAGCCGCGGCCGGCGCCTGGCTGT
GAGGTGGATTCCCGGCCAGTCTGACCATCTCCCTCCAGTTTTTCCACTTCGTTCCGACCTTCTCATAACTATGT
CCACCTCTACGTCTCCCTCACCAGATGCCTTCCCCAGCCTCCGAGCCCTCATAGCCGCTCGCTATGGGGAGG
CTGGGGAGGGTCCCGGATGGGAGGAGGCCACCCCCGCATCTGTCTCCAGCCACCCCGACTAGCAGGACTCCCT
TTCCCCACCCCGCTGCCGGCCCTGGAGCAGGGGCCCGGTGGGCTCTGGGTGTGGGGGGCCACGGCTGTGGCCC
AGCTGCTGTGGCCAGCAGGCCTGGGGGGCCAGGGGGCAGCCGGGCGCTGTCTTGTCCAACAGTGGGTCACTT
ACGCCGACACGGAGTTAATACCAGCTGCCTGTGGAGCAACGCTGCCGGCCCTGGGACTCCGAAGCTCGGCCAGG
ACCCCCAGGCTGTGCTGGGGGCCCTGGGCAGGGCCCTGAGCCCTTGGAGGAGTGGCTTCGGCTGCACACCTACT
TGGCCGGGGAGGCCCCCACTCTGGCTGACCTGGCGGCTGTACAGCCTTGTCTGTGCCTTTCCGATACGTCTAG
ACCCACCTGCCCGCCGGATCTGGAATAATGTGACTCGCTGGTTTGTACGTGTGTCCGGCAGCCAGAAATCCGAG
CCGTGCTAGGAGAAGTGGTTCTATACTCAGGAGCCAGGCCTCTCTCTCATCAGCCAGGCCCCGAGGCTCCTGCCC
TCCCAAAGACAGCTGCTCAGCTCAAGAAAGAGGCAAGAAACGGGAGAAAGCTAGAGAAATTCACAGAAAGCAGA
AGATCCAACAGCAGCAGCCACCTCCAGGGGAGAAGAAACAAAACAGAGAAGAGGGAGAAACGGGATCCTGGGG
TCATTACCTATGACCTCCCAACCCACCCGGGAAAAGAAAGATGTCACTGGCCCCATGCCCGACTCCTACAGCC
CTCGGTATGTGGAGGCTGCCTGGTACCCTTGGTGGGAGCAGCAGGGCTTCTTCAAGCCAGAGTATGGCGCTCCTA
ATGTGTGACAGCAAAATCCCGAGGTGTCTTCATGATGTGCATCCCAACCCCAATGTGACAGGCTCCCTGCACC
TGGGCCATGCACTACCAACGCCATCCAGGACTCCCTGACTCGATGGCACCCGATGCGTGGGGAGACCACCTGT
GGAACCTGGCTGTGACCATGCAGGTATTGCCACCCAGGTGGTGGTGGAGAAGAAGCTATGGCGTGAGCAGGGAC
TGAGCCGGCACCAGCTGGGCCGCGAGGCCTTCTACAGGAAGTCTGGAAGTGAAGGAGGAGAAAGGTGACCGGA
TTTACCACAGTTGAAGAAGCTTGGCAGCTCCTTGGACTGGGATCGAGCCTGTTTCACCATGGACCCTAACTCT
CAGCAGCTGTGACAGAGGCCTTTGTCCGGCTTCACGAGGAAGGCATCATCTATCGCAGTACCCGCTTGTAACT
GGCTGCACCCCTCAACTCCGCCATCTCTGACATTGAGGTGGATAAGAAGGAGCTGACAGGTGCGACCCCTGCTCT
CCGTGCCTGGCTACAAGGAGAAGGTGGAGTTTCGGGGCTCTCGTGTCTTTGCCTATAAGGTCCAAGGCTCAGATA
GCGACGAGGAGGTGGTGGTGGCAACAACCTCGGATCGAGCAATGCTGGGAGTGTGGCTGTAGCTGTGACCCCA
AAGATAACCAGATAACCAGCCTGAAGGGGAAGAACGTGATCCACCATTCCTGTCTCGGAGCCTTCCCATTTGTCT
TCGATGAATTTGTGGACATGGACTTTGGCACAGGTGCTGTGAAGATCACCCCGCACATGACCAAAATGACTATG
AAGTTGGGCAGCGGCACGGGCTGGAGGCCATCAGCATCATGGACTCCCGGGGGGCCCTCATCAATGTGCTCCGC
CTTTCTGGGCTGCCAGGTTTGAGGCCAGGAAAGCGGTGCTGGTGGCGCTGAAGGAGCGGGGACTGTTCCGTG
GCATTGAGGACAACCCCATGGTGGTGCCACTTTGCAACCGGTGGAAGGACGTGGTAGAGCCTCTGCTGCGGCCGC
AGTGGTACGTTCTGCTGCGGGGAGATGGCCCAGGCTGCCAGCGCCGCTGTGACTCGGGGTGACCTCCGCATCCTGC
CTGAGGCCCATCAGCGCACATGGCATGCCTGGATGGACAACATCCGGGAGTGGTGCATTTCAGGCAGCTGTGGT
GGGGCCATCGCATCCAGCCTACTTTGTCACTGTGACTGACCCAGCGGTGCCCCCTGGGGAGGACCCTGATGGGC
GGTACTGGGTGAGTGGACGCAATGAGGCGGAGGCCCGGGAGAAGGCAGCCAAGGAGTTCGGAGTGTCCCTGACA
AGATCAGTCTCCAGCAAGATGAGGATGTATTGGATACCTGGTTCTCTCTGGCCTCTTCCCTTATCCATTTTGG
GCTGGCCCAACCAGTCAGAAGACCTGAGTGTGTTCTACCCCGGACACTGCTGGAGACCGGTGATGACATCCTCT
TCTTCTGGGTGGCCCGGATGGTCATGCTGGGCCTGAAGCTCACGGGCAGGCTGCCCTTTAGAGAGGTCTACCTCC
ATGCCATCGTGCAGATGCTCACGGCCGGAAGATGAGCAAGTCTTAGGCAATGTGATCGATCCCTGGATGTCA
TCTATGGAATCTCCCTGAGGGCCTCCACAACCAGCTGCTGAACAGCAACCTGGATCCAGCGAGGTGGAGAAGG
CCAAAGAAGGGCAGAAAGCTGACTTCCAGCGGGGATTCTGAATGTGGCACCGATGCTCTCCGGTTTGGATTAT
GTGCCTACATGTCCAGGCTCGTGACATCAACCTGGATGTGAACCGGATACTGGGTTACCGCCACTTCTGCAACA
AGCTCTGGAATGCCACCAAGTTTGGCCTTCTGTGGCCTTGGGAAGGTTTTGTGCCCTCACCCACCTCCAGCCCG
GAGGCCATGAGAGCCTGGTGGACCGCTGGATCCGAGCCGCTGACAGAGGCTGTGAGGCTCAGCAATCAAGGCT
TCCAGGCCTACGACTTCCCGGCCGTACCACTGCCAGTACAGCTTCTGGCTCTATGAGCTCTGTGATGTCTACT
TGGAGTGCCTGAAACCTGTACTGAATGGGGTGGACCAGGTGGCAGCTGAGTGTGCCCGCCAGACCTGTACACTT
GCCTGGACGTTGGCTGCGGCTGCTCTACCCCTTCATGCCCTTCGTGACGGAGGAGCTGTTCCAGAGGCTGCCCC
GGAGGATGCCGCAAGCTCCCCCTAGCCTCTGTGTTACCCCTACCCGGAGCCCTCAGAGTGCTCCTGGAAGGACC
CCGAGGCAGAAGCCGCCCTTGAGCTGGCGCTAAGCATCACGCGAGCCGTGCGCTCCCTGCGGGCCGACTACAACC

4769/5332
FIGURE 4141B

TCACCCGGATCCGGCCTGACTGTTTCCTGGAAGTGGCGGATGAGGCCACGGGCGCCCTGGCATCGGCGGTGTCCG
GCTACGTGCAGGCCCTGGCCAGCGCAGGTGTGGTGGCTGTTCTGGCCCTGGGGGCTCCCGCCCCCAGGGTTGCG
CTGTGGCTCTGGCTTCTGATCGCTGCTCCATCCACCTGCAGCTTCAGGGGCTGGTGGACCCTGCACGGGAGCTGG
GCAAGCTGCAAGCCAAGCGAGTTGAGGCCAGCGGCAGGCCAGCGTCTGCGGGAACGCCGTGCTGCCTCGGGCT
ATCCTGTCAAGGTGCCGCTCGAAGTCCAGGAGGCAGATGAAGCCAAGCTCCAACAGACAGAAGCAGAGCTCAGGA
AGGTGGATGAGGCCATCGCCCTATTCCAGAAGATGCTGTGATCCACCACCCAGCTTCACCCCTCACCCCCAGCGG
CTCACCATGGGGATGGCAGCAATAAAATATTTTCCCACAAA

4770/5332
FIGURE 4142

GCGGCTCTCTGATCCAGCCCGGGAGAGGACCGAGCTGGAGGAGCTGGGTGTGGGGTGCGTTGGGCTGGTGGGGAG
GCCTAGTTTGGGTGCAAGTAGGTCTGATTGAGCTTGTGTTGTGCTGAAGGGACAGCCCTGGGTCTAGGGGAGAGA
GTCCCTGAGTGTGAGACCCGCCTTCCCCGGTCCCAGCCCTCCCAGTTCCCCCAGGGACGGCCACTTCCTGGTCC
CCGACGCAACCATGGCTGAAGAACAACCGCAGGTGGAATTGTTTCGTGAAGGCTGGCAGTGATGGGGCCAAGATTG
GGAAGTGCCTTCTCTCCAGAGACTGTTTCATGGTACTGTGGCTCAAGGGAGTCACCTTCAATGTTACCAACGTTG
ACACCAAAAGGCGGACCGAGACAGTGCAGAAGCTGTGCCCAGGGGGGAGCTCCCATTCCTGCTGTATGGCACTG
AAGTGCACACAGACACCAACAAGATTGAGGAATTTCTGGAGGCAGTGCTGTGCCCTCCCAGGTACCCCAAGCTGG
CAGCTCTGAACCTGAGTCCAACACAGCTGGGCTGGACATATTTGCCAAATTTTCTGCCTACATCAAGAATTCAA
ACCCAGCACTCAATGACAATCTGGAGAAGGGACTCCTGAAAGCCCTGAAGGTTTTAGACAATTACTTAACATCCC
CCCTCCCAGAAGAAGTGGATGAAACCAGTGCTGAAGATGAAGGTGTCTCTCAGAGGAAGTTTTTGGATGGCAACG
AGCTCACCTGGCTGACTGCAACCTGTTGCCAAAGTTACACATAGTACAGGTGGTGTGTGAAGAAGTACCGGGGAT
TCACCATCCCCGAGGCCTTCCGGGGAGTGCATCGGTACTTGAGCAATGCCTACGCCCCGGAAGAATTCGCTTCCA
CCTGTCCAGATGATGAGGAGATCGAGCTCGCCTATGAGCAAGTGGCAAAGGCCCTCAAATAACCCCCTCCTGGGA
CTCCCTCAACCCCTCCATTTTCTCCACAAAGGCCCTGGTGGTTTCCACATTGCTACCCAATGGACACACTCAA
AATGGCCAGTGGGCAGGGAATCCTGGAGCACTTGTTCGGGATGGTGTGGTGGGAAGAGGGGATGAGGGAAAGAAA
TGGGGGGCCTGGGTGAGATTTTATTGTGGGGTGGGATGAGTAGGACAACATATTTTCAGTAATAAAATACAGAAT
AAAAATCAAGTGTTTTT

4771/5332
FIGURE 4143

CCGCTTAGACAATGCCCCGAGCCGCCAGACCGTCGCGCCCCTGCCCCATCGTAGTATATGAGCTCGCCTACACA
AGGACCCCCGCTAAAAGCCAGAGCTCCCAGTCCCCGAGGCTTGAAGACGGGGACTCCCTTCTCCACCAACTCTGT
CCTCGGGGGGTGGGGCCCCAGCCGAGATCACAGCGCGACAGGAGTGGGGGTGGCCGCTGGAGACAGGTGAAGAAA
CAAGAAAAC TAAGAAATCCGAGCGGTTGGAGGGGGAGTCTGTGTGGATGGGATGGGGACGCCGGGGGAGGGGCTG
GGCCGCTGCTCCCATGCCCTGATCCGGGGAGTCCCAGAGAGCCTGGCGTCGGGGGAAGGTGCGGGGGCTGGCCTT
CCCCTCTGGATCTGGCCAAAGCTCAAAGGGAGCACGGGGTGCTGGGAGGTAAACTGAGGCAACGACTGGGGCTA
CAGCTGCTAGAACTGCCACCTGAGGAGTCATTGCCGCTGGGACCGCTGCTTGGGGACACGGCCGTGATCCAAGGG
GACACGGCCCTAATCACGCGGCCCTGGAGCCCCGCTCGTAGGCCAGAGGTGCGATGGAGTCCGCAAAGCCCTGCAA
GACCTGGGGCTCCGAATTGTGGAATAGGAGACGAGAACGCGACGCTGGATGGCACTGACGTTCTCTTACCGGC
CGGGAGTTTTTCGTAGGCCCTCTCCAAATGGACCAATCACCGAGGAGCTGAGATCGTGGCGGACACGTTCCGGGAC
TTCGCCGTCTCCACTGTGCCAGTCTCGGGTCCCTCCCACCTGCGCGGTCTCTGCGGCATGGGGGGACCTCGCACT
GTTGTGGCAGGCAGCAGCGACGCTGCCCCAAAGGCTGTCCGGGCAATGGCAGTGTGACAGATCACCCATATGCC
TCCCTGACCCTCCCAGATGACGCAGCTGCTGACTGTCTCTTTCTTCGTCCTGGGTTGCCTGGTGTGCCCCCTTTC
CTCCTGCACCGTGGAGGTGGGGATCTGCCAACAGCCAGGAGGCACTGCAGAAGCTCTCTGATGTACCCCTGGTA
CCTGTGTCTCTGCTCAGAACTGGAGAAGGCTGGCGCCGGGCTCAGCTCCCTCTGCTTGGTGCTCAGCACACGCCCC
CACAGCTGAGGGCCTGGCCTTGGGGTACTGCTGGCCAGGGGTAGGATAGTATAGGAAGTAGAAGGGGAAGGAGGG
TTAGATAGAGAATGCTGAATAGGCAGTAGTTGGGAGAGAGCCTCAATATTGGGGGAGGGGAGAGTGTAGGGAAAA
GGATCCACTGGGTGAATCCTCCCTCTCAGAACCAATAAAATAGAATTGACCTTTT

4772/5332
FIGURE 4144

GCTGGAAGAGCAGCGGCCCCGAGCCGGGGCCATGGCGAAGCTGCTGAGCTGCGTCCTAGGCCCCCGGCTCTACAAA
ATCTACCGGGAGAGGGACTCTGAAAGGGCCCCGGCCAGCGTCCCTGAGACGCCAACGGCAGTCACTGCCCCCAT
TCCAGCTCCTGGGATACGTACTATCAGCCCCGTGCCCTGGAGAAACATGCTGACAGCATCCTGGCACTGGCTTCA
GTATTCTGGTCCATCTCTTATTACTCCTCTCCCTTCGCCTTCTTCTACTTGTACAGGAAAGGTTACTTGAGTTTG
TCCAAAGTGGTGCCGTTTTCTCACTATGCTGGGACATTGCTGCTACTTCTGGCAGGTGTGGCCTGCCTCCGAGGC
ATTGGCCGCTGGACCAACCCCCAGTACCGGCAGTTCATCACCATCTTGGAAGCAACACATCGGAACCAGTCTTCA
GAAAACAAGAGGCAGCTTGCCAACATAAATTGACTTCCGGAGCTGGCCAGTCGA¹TTCCACTGGGAAGAACCC
AGCAGCCCGGAAGGAGTCTCGAGGGGGCCCTTCCCGCCGGGGTGTGGCCTGCTTCGCCCAGAGCCCCCTGCACCGG
GGGACAGCAGACACCCTCCTCAACCGGGTTAAGAAGCTGCCTTGTGAGATCACCAGCTACCTGGTGGCGCACACC
CTAGGGCGCCGGATGCTGTATCCAGGCTCTGTGTACCTGCTGCAGAAGGCCCTCATGCCTGTGCTGCTGCAGGGC
CAGGCCCCGACTGGTGGAAGAGTGTAAATGGGCGCCGGGCAAAGCTGCTGGCCTGTGATGGCAATGAGATTGACACC
ATGTTTGTGGACCGGGCGGGGACAGCTGAGCCCCAGGGACAGAAGCTGGTGATCTGCTGTGAGGGGAATGCTGGG
TTTTATGAGGTGGGCTGCGTCTCCACGCCCCTGGAAGCTGGATATTAGTCTGGGCTGGAATCATCCAGGCTTT
GCTGGAAGCACGGGGGTGCCATTCCCGCAGAAATGAGGCTAATGCCATGGATGTGGTGGTCCAGTTTGCCATCCAC
CGCCTGGGCTTCCAGCCCCAGGACATCATCTACGCCTGGTCCATCGGCGGCTTCACTGCCACGTGGGCAGCC
ATGTCCTACCCAGATGTTAGTGCCATGATCCTGGATGCCTCCTTTGATGACCTGGTGGCCTTGGCCTTGAAGGTC
ATGCCAGACAGCTGGAGGGGCTGGTGACCAGGACCGTGAGGCAGCATCTCAATCTAAACAACGCGGAGCAGCTG
TGCAGATACCAAGGTCTGTACTGCTGATCCGGAGAACCAAGGATGAGATCATCACCACCACGGTTTCTGAGGAC
ATCATGTCCAACCGAGGCAATGACCTCCTGCTGAAGCTCCTGCAGCATCGGTATCCCCGGGTGATGGCAGAGGAG
GGTCTTCGAGTGGTGAGGCAGTGGTTGGAGGCCTCCTCACAGCTGGAGGAAGCCTCAATTTATAGCCGATGGGAG
GTGGAAGAGGACTGGTGTCTGTCTGTCTCCTCCGCTCCTACCAGGCAGAACACGGGCCCCGACTTCCCCTGGAGCGTG
GGGAGGACATGAGTGCAGATGGACGGCGGCAGCTGGCTTTGTTTCTGGCTCGGAAGCATCTGCACAACTTTGAG
GCCACTCACTGCACCCCCACTCCCAGCCCAGAACTTCCAGATGCCCTGGCACCTCTAGGGACCAACTGGGACTCAT
TATGGAAGAATGGGGTGAGAGGAGACATGAGGAAAGACCCTCTTATTTGTGATTCTCTGTGTTTATGTTGCTGTT
TATAGTTTGTGGAAGTGGGGGACCATCCCCCTTCTCACCAGTGTTCCTCTTGACGTTTCCCCTCATTATGTTG
GCTGTACTTAACCTTCTCCAACATACATCCTGCATTACATGAATGGATTATTCCTAATAATTAATAAAAAGGTAT
TTTTTCTACT

4773/5332
FIGURE 4145

GGAGGAAGCGACCAGGTCCGGCACGAAGGAGGGAGAGGTGGCCTGAGGAGCGGAGGGGGGATGTGTGGATTCCGG
TGAAAGGGACCTGACAATCGCCCCAACCCCTGACGTGAAGATGAGCAGCTCAGAGGAGGTGTCCTGGATTTCCT
GGTTCTGTGGGCTCCGTGGCAATGAATTCTTCTGTGAAGTGGATGAAGACTACATCCAGGACAAATTTAATCTTA
CTGGACTCAATGAGCAGGTCCCTCACTACCGACAAGCTCTAGACATGATCTTGGACCTGGAGCCTGATGAAGAAC
TGGAAGACAACCCCAACCAGAGTGACCTGATTGAGCAGGCAGCCGAGATGCTTTATGGATTGATCCACGCCCGCT
ACATCCTTACCAACCGTGGCATCGCCCAGATGTTGGAAAAGTACCAGCAAGGAGACTTTGGTTACTGTCCTCGTG
TGTA CTGTGAGAACCAGCCAATGCTTCCCATTGGCCTTTCAGACATCCCAGGTGAAGCCATGGTGAAGCTCTACT
GCCCCAAGTG CATGGATGTGTACACACCCAAGTCATCAAGACACCATCACACGGATGGCGCCTACTTCGGCACTG
GTTTCCCTCACATGCTCTTCATGGTG CATCCCGAGTACCGGCCCAAGAGACCTGCCAACCAGTTTGTGCCCAGGC
TCTACGGTTTCAAGATCCATCCGATGGCCTACCAGCTGCAGCTCCAAGCCGCCAGCAACTTCAAGAGCCCAGTCA
AGACGATTTCGCTGATTCCCTCCCCCACCTGTCCTGCAGTCTTTGACTTTTCCTTTCTTTTTTGCCACCCTTTCAG
GAACCCGTGATGGTTTTTTAGTTTTAAATTAAAGGAGTCGTTATTGTGGTGGGAATATGAAATAAAGTAGAAGAAAA
GGCC

GTGACGTTATTTTCATTACACGGCTTCTCGGCATTCCACAGGTTTCCCTCCGCCCTCTGAGGGCCTTTCTTAACCC
ACAGAGTGGATTCTTGGCTCCAGAAAATGGGCTTGGAGCGGGGCCACGTTGAGGAAGGCGAAGGGCATTGTGGG
GGCGTTATGTAAAGTAGGACCCCAACCGACAGATCCTAGTGTCTCGCGCCACCTGGGCGCGCGGAGCTTTGCTCG
TTTACTATTGAAAAAGTTCAGCGCGGGAAACTGAACCCGGAGCTTTGCGCACGCCCCGAGCCCTCAAGTAATGTG
GGTTGTGGTTTTTGTGTTGTTGTGTCGCCACGCATGCGTCTTCTGTGCCGTGTGGCTATTTGATTGTGTCAACTCTT
CTGATTAGAATGGCGCCATTTTTCGGGTACGGAAGCTACACAGCAACACGTATAGGAGACTCTCCCCGAGATCTTC
TAGGGAGTGACCCATCTATTTTTGTTTGGGAAGAGGAAACTCCGAAATGGGATCGCGGAAGACTTAAAGGGCCAG
GCTGATTTTTTTTTCTACTGGTCTCTGAGGCTGTGGTTGCTACAGGGTACCACGAGCTTGGCTTACTTGTCTC
ATCCTTCCCTTGCCCTGGTATCATTTTCTCAGTTCTCCCAAAGCCATGTCCTCCGGCCCTTGCTCATCACCTTCACC
CCAGCCACTGACCCCAAGCAGCTCTGGAAGGATGGGACAGGACGCCACAGCCCGAGAAGCCAGAGTCCACCCTG
GATGGGCTGACGCCCCGAGCTTTCTATGAGGCCCTGATTGGGGATGAGACAGCGCTCTCTGACTCCCGAGATCT
CAGACTGAACCTGCCAGAGAAAGAAAGAGAAAGAAAAGAAGATAATGAAGGCACCAGCAGCAGAAGCATGGCA
GAAGGAGCATCAGGAAGACATGGACAAGGGAGATCCCTTGAGGCTGAGGATAAGATGACTACCCGATACTGAGG
GCAGCCCAGGAGGGGGACCTGCCAGAACTTAGGAGACTGCTGGAACCGCATGAGGCAGGAGGAGCTGGGGGGAAT
ATCAACGCCCCGGGATGCCTTCTGGTGGACCCCACTGATGTGTGCTGCTCGAGCGGGCCAGGGGGCAGCTGTGAGC
TATCTCTTGGGCCGTGGGGCTGCCTGGGTGGGGGTCTGTGAGCTGAGTGGCAGGGATGCGGCTCAGCTCGCTGAA
GAAGCTGGCTTCCCTGAGGTAGCCCGCATGGTCAGGGAGAGCCATGGAGAGACAAGGAGCCCGGAAAACCGGTCT
CCTACTCCCTCCCTCCAGTACTGCGAGAACTGTGACACCCTTCCAAGATTCCAACCACCGCACATCCACTGCT
CACCTGCTGTCACTGTGCGAGGGTCTCAGCCTCCCAACCTTCCACTTGGGGTGCCATCTCCAGCCCGGGCTTC
AAACTGCTGCTGAGGGGGGGCTGGGAGCCAGGAATGGGGCTGGGACCCCGGGGTGAGGGCCGTGCCAATCCCATC
CCCCTGTCTCTCAAGAGAGACCAGGAAGGACTAGGCTACAGATCAGCACCCAGCCCCGAGTGACACATTTCCCA
GCTTGGGATACCCGAGCTGTGGCTGGGAGGGAGAGACCCCTCGGGTGGCCACACTGAGCTGGAGGGAGGAGAGA
AGGAGGGAGAGAAAGACAGGGCTTGGGAGCGGGATCTAAGGACTTACATGAACCTCGAGTTCGACTTTGGTAA
AGTCTGACCCCTAGTCTGCTGCTGAAGTCTGAACTTGGGCCTCTGACCTGGGCCCTTTGACTTCCCCCTCTGGGA
TCTGCCCAGATGAGATCTCTGAAGTTTTTGGTCAATAGGCTCTGTCTTCGTGAGAGACGGGCTGAGAGTCAGAAA
TAAATCAACCATTTGTGGTTT

4775/5332
FIGURE 4147

CCCAAGGCCGCGGCCCGACGCTGGGCCCCGGAGCGGTCCCCGCGCACAGCGCCGGACGCGTAGGTCCCGAAGT
AGGCCCCGCGCTTTGCTTCGTAACCTGGGGATCTCTGAGGACATCTTAGTTCTGACCTTGTGGAGGCCGCGTCTCTG
CTGCGTGTTCGCGGGCCAGTCGGGCCACTTTGTAGAAATCATAGCCCTCTAAATCAAGGGACGAACGCTGCTGGC
TGGAGTTTGCTGGACACTTTCATTCCACCTCCTAACAAAGAGAATTCTATTCTTGAGGTCCCTTGGGGCAGCA
GTTAAAGACTACACGATCCAGGAGCACCTAGGACCTGGGGCCACCTTCCTGCCCCGCTTTATTGGATGGAGCACTG
CCTCCCCAGTTTCTGGGACACCGTGGGGTGTGGCCTTGGTGAGTGAAACTTGGGGTGCTGCCTGCTGGGAAGGAA
ATCCGGAAACGCAGAGAGGACTCTCTGGTGGTGACCCAGGCCTTGTCTAGATCTGAGATTCTTGGAATCTCAGATT
GTGGGGGTGTGGATGGTGAATGAATTTGGGTATGCCCCCTTTACCCAGAACTGAAGAGGAAGCAAACCTACTTG
CCACACTTGAGGCTGCATGACTATTACAGAGAAGGGAGGAGCCACTTCTGAATTCAGAGTAGGACTGCATCACCAG
GCAAAATACCTGTTCTGAGCCAGAAAGACTCTGGCTTCTGAGGAGATCCTGAGAGTCTGAGTAGTGCCAGGAAGCA
GCCTCAGAAATTTGGGGGCCCATACACACCCAGCCATGTTCTCGACGGCTTGGTGGCTGGCTACCTCGCCCT
TGGGGCCGCGGAAACCAATGAGGCCTGACCCGCCTTACCCAGAACCAGACGGGTGGACAGCTCCTCGGAGAAT
TCAGGAAGTGACTGGGATAGTGCCCCAGAAACCATGGAAGATGTGGGGCATCCCAAGACTAAGGACTCGGGGGCA
TTGAGGGTTTCTAGGGCTGCTTCCGAACCAAGCAAGGAGGAGCCCCAAGTTGAGCAGCTAGGGAGCAAAAGAATG
GATTCCCTCAAGTGGGACCAGCCTATCTCTAGCACTCAAGAGTCTGGGAGACTGGAGGCTGGAGGGGCCAGTCCC
AAACTCAGATGGGATCATGTGGATTAGGTGGCACCAGGAGACCAGGGGTGTCCCCTGAAGGGGGACTGAGCGTC
CCTGGGCCAGGAGCCCCATTGGAGAAACCTGGTAGGCGTGAGAAGCTGTGGGCTGGCTGCGGGGGGAACCAGGA
GCTCCCTCCCGTACTTGGGGGGCCAGAAAGAGTGTCTGCAGATCTCCACCAACCTGACCCTGCATCTTCTGGAG
CTGCTGGCCTCTGCCCTGCTGGCCCTGTGCTCACGACCACTGCGGGCAGCCTTGGACACACTGGGCCTGCGTGGA
CCGCTGGGCCTCTGGCTACATGGCCTACTGTCTTCTTGGTCTCCTGCAGGCCTTGGTGTGCTGCTGAGCCTCCGG
CTTACTGCCCACCCTTTGCACTTCGCCTGCCTCTTTGGTCTCCTGCAGGCCTTGGTGTGCTGCTGAGCCTCCGG
GAGCCCAATGGGGATGAGGCGGCCACTGACTGGGAGAGTGAGGGGTGGAGAGGGAAGGTGAGGAGCAGAGGGGA
GACCCGGGAAAGGGGCTGTGACCGTGGGGTGGGGGCAAAGGGTGAAGAGAGTGTTGGGCTTTAGGAGAAAAGTGTG
AGGCATGACCCAAATTGTAAGCATAGGGACCTCAGGGATGGGGAAGAAACCCGAGTACGAGGGTGCAGGGCCCCC
CTTCATACACAGGAGAGAACAGAACTATTTAGGGTGTGTTGTGTTTATGGACAGTGAGGGCACTGCTCTTGATT
ACCAGCTGTTATTTTTGCTTTTACTTTTCTCCACCTTCAGTTTTTTTTTTTTTTTCCACCTCCACTTTTTAAAA
GCAAAAAAAAAAAAAAGTATGATGGTGGTGAATAAAGACCAAAGGGTCTCTCTACCTTTGAAAACCTCTCCTGGG
GTGGAGGAGACCAGGGCAGGATAGACAGACCTCTGCAGTAAGAGAGTGGTTGGGAAACCCAGGGTGTTCCTTGGA
TCTCAGGATCTGAGCCATCGAGGGAAGAGTGGGGCTGCTAGGCAAGTGGATTAGGGGGTCTGGATAGGGCCCCAC
AGGTGAAGAGGAGCCTGCAGGGCGGATCTGGTGATCATGGGAGCCAGAGGGAGTGGGGACAGTGCAGGCAGTATT
GGCAGGAGGGCCAGTGCAGAAGGGCTGGTAGCTCAGGCAGTGTGGGGGAAGCACTGAAGCCTGTAGTCCCCACTT
GGGGGCTAGGGTTTGCTCACTCAGCAATAAATAACTGTGTACATCAAATCCTAAATATACCACTACAAAGTGA
GAGTTACTGCCACTCTGTTCTTACTGACACCGTCCAG

4776/5332
FIGURE 4148A

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTCGGCCATGAGAGCTAATGATA
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT
TTATTGTGGGGGCCCAGATGAATGTAAAAGAGTTAAGGAGCACATTGCTGCCTCTGTCAGCATCCCATCTGAAA
AACACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG
TTATCCACCTGGTGGAAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCT
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTTCATGACCGGAATGCCAACA
GCTATGTCATGGTTGGAACCTTCAATCTTCCTAGTGACGGCTCTGCTGTGGATGTTTCACATCAACATGGAACAGG
CCCCGATTACAGAGTGAGCCCCGGGTACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTAT
CCCGGATGGAGACTCTCCCTACCTTACGTGTCGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGC
CACCGGCTGTGACCCCGGAGCCAGTAGCCTTGAGCTCTCAAACATCAGAACCAGTTGAAAGTGAAGCACCTCCCC
GGGAGCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCAGCCC
CAGCGGGCCCAACACCTGCCCCGGAACAAATGCACCCAACCATCCTTCCCTGCGGAGTATGTCGAGGTGCTCC
AGGAGCTACAGCGGCTGGAGAGTCGCTCCAGCCCTTCTTGACGCGCTACTACGAGGTTCTGGGTGCTGCTGCCA
CCACGGACTACAATAACAATCACGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTGC
GACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCACGACACCTGC
ATGTGGTCCGGCCTATGTCTCACTACACACCCCCATGGTGCTCCAGCAGGCAGCCATTCCCATACAGATCAATG
TGGAACCACTGTGACCATGACAGGAAATGGGACTCGGGCCCCCCCCAATCCCAATGCAGAGGCACCTCCCCCTG
GTCCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATGTCGAGTCCTCAGCTGAGGGGGCTCCCCGCCAG
GTCCAGCTCCCCGCCAGCCACCCAGCCACCCGAGGGTTCATCCGATTCCCACCAGAGTGTGGAACCCGTGGTCA
TGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTGGTGTTCGAGTGCTCCCACTGGCCCCCTGGGAC
CCCTGGTGTGGCCAAACCTTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGATTGCC
GGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTC
TGGGTACCAATGCCTCGTTGGCCAGATGGTGAGCGGCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCCTGTGG
CTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCTGCCACTGCTTCTGCCAGTGCTGGCACCACCAACACAG
CTACCACAGCTGGCCCCGCTCCTGGGGGGCCTGCCAGCCTCCACCCACCCCTCAACCCCTCCTGCTGATCTTC
AGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCCA
CCATCACTGTGGCGATGCCTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAG
CCCCTCCACCACCCACCTCCTCCACCCCCACCACCTGCCCCAGAGCAGCAGACCATGCCCCACCAGGCTCCC
CTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGAGCCTGTACCCGGAGTTTTTTTACCTCAGTGGTGC
AGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAAGTATTGCTGCCTTCATAC
AACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTTGGATTCTTTGGGGCCTTGCTTT
CTCTTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCAGCCACTACAACGGC
TCCAGCCCCAGCTGCGATCCTTCTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGA
TGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTTCTTGGTGCAGGTTACGCCAG
GTGTGGACATCATCCGACAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATT
GCACAGATAGTGGATTTGGGGCCCGGTTGCTGGAGTTGTGTAACCAAGGCCTGTTGAAATGCCTGGCCCTAAACC
TGCAGTCTTGGGGGACAGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTCGTCGTATGTCTCGTGGGG
TGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGACTGAGGCTCAGGTGGTACTGGAGCACATGCCTG
TAGGCCCTGATGCCATTCTCAGATACGTTTCGAGGGTGGTGATCCCCCCCAGCCACTTCTGAGGAGCCAATGG
AAGTTCAGGGAGCAGAAAGAGCTTCCCTGAGCCTCAGCGGGAGAATGCTTCCCCAGCCCTGGAACAACAGCAG
AAGAGGCCATGTCCCAGGTTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTCAGCTG
AGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTAGAGCCAGCGGA
AGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGG
GTGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGGCAGCTAAGGCAGCCGGAGCTCGGCCCCGTACGA
GCCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAGAGGTTACAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATA

4777/5332
FIGURE 4148B

TACAAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCAGCGGGCCTTTGCTGATG
ATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCTCTTCCTTCACAGTATTTAAGA
AATAAAAGTCGGATTTTTCTGGC

4778/5332
FIGURE 4149A

CCCTAGGCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC
CAACATACTCAATGAGCTTCCAGCGCAATGTCGATCGCTCGGGGCCGACTGCCAAGGGAAGGATGGAAAGAAG
TATTCCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGC
CATGGCCTGCAGAGTCTCGGGAAGTTGCCATTGCCCGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA
GCCGAGAACAAGGCAATGACCCCAATGTCTACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAACAGGAG
CAGTCCGACCCCAAGAGTTCGGATGCCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG
CCTGCCTCCAACAGCCGAAACGACCCCGAGAGCCCCGAGAACACTCCTTGGTTCCAAGCGGGGTAAAGTCC
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGGAAAGGGCATCAAGCCTACTGTACGATTCTCT
CGAGAGGAATTTCCGACCCTGCAGGCGGCTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG
TCGTCTGGGCCCCGACCAAGCCTCCGCCCCAAAATTCTACAACCTTGGAGGGACGGAGGTGGGCGTGGCCCTGAT
GAGCTGGAGGGCCCGACTCCAACTTCATCATGGTCATGATCCCCGGGTGGGCTACAGCCTTCAGGCCACCC
CAGTTCCTTCCCTACCGCGAATGATGCCGCTTTCATGTATCCCCATATCTCCCGTTCCCTCCGCCCTATGGA
CCCCAGGGGCTTACCGATACCCACTCCTGATGGGCCCAGCCGTTTTCCCGTGTGGCGGGCCCCGAGGCTCA
GGGCCACCAATGCGCTTAGTAGAGCTGTGGGTGCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT
CAGTTGGATCAGGAGAATGATGATGGTTGGGCAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCACTCCTAAGACGGCC
TGGGCAGAAACCTCTCGGCTCCAGAGACAGAGCCGGGACCTCCTGCCCCAAAGCCTCCCTACCCCCACCTCAC
CGGGGCCCGCCGGGAACCTGGGGCCCCCTGGGGACTACCCAGATCGTGGGGGTCTCCTGCAAGCCCCCAGCA
CCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGAAAGCAGTCGTCATCTGAATTTCCCTGGCAGTGGAGCGG
GCCCCGCGACGGCGAGAAGAAGAGGACGGCGCATGCAAGAAGAGCGCCGGGACGCTGTGCTGAGAAGCTCAAG
CGACTCGATGAAAAGTTTGGGGCACCTGACAGCGGCTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCTTCT
ACCCAGCTCCACCACCTGCAGTCCCTAAAGAACCTCCCTCCAGCTCCACCTCCAGCATCAGCCCCAACA
CCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCTCCTGCCAATCTACTCCTACTCCAGGTGTGGTGC GGCT
CCCCTCTGGTGTGAGTGGTGGTGGCAGTACCAGTAGCACCAGCAGTGGCAGCTTCGAAGCCAGCCAGTGGGAACCA
CAACTGCCCTCAAAGAGGGTCTGAACCACCAGAAGAGGTTCTCTCTTACCACACCCCCAGTTCCAAAGGTG
GAACCCAAGGGTGATGGGATTGGTCCACCCGCCAGCCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAG
TCGTTGCCTCCTCGTTTTCCAGCGGCAGCAGCAGGAGCAGCTCCTGAAGCAGCAGCAGCAGCAGCAGCAGCAG
CATCAACAGGGCTCTGCCCCCTTACCCAGTGCCCCCATCACCACCACAGCCTGTGACCCTGGGGGCTGTGCCA
GCTCCACAGGCTCCACCCCCGCCCCCAAGGCCCTGTACCCAGGTGCTCTGGGCCGGCCCCCACCCTATGCCCCA
ATGAACCTTTGATCCCCGATGGATGATGATTCTCTTATGTGGACCCCCGGCTCCTCCAGGGTCTGTCCTCTTA
GACTTCTACCTCTGGTGTGCATCCCTCTGGCCTAGTTCCCCGAGAGCGTTTCAAGCAGTGGGGGCTCAAGCTCA
GAGCCATTTGACCGTCATGCACCTGCTATGTTACGGGAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGG
GTAGGAGATGTCTTACCGCCACACCCGCTGAACCCGCCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAG
GATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTACCTCCCCACCACCCTATCTGGCCAGTTATCCAGGCTTT
CCTGAGAATGGAGCCCTGGGCCCCCAATCTCTCGTTTTCTCTGGAGGAACAGGGCCCCGTCCACTCCCTGG
CCCCAGGCAGTGATGAAGTGCCCAAGATACAAACCTCCACCACCAAGAAGGAGCCCCCTAAGGAGGAGACTGCA
CAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCCCGCGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCA
CGCAGAGAGAGTCGCACAGAGACCCGCTGGGGCCCTCGTCCAGGGAGCAGTCGTCGTGGAATCCCTCCAGAGGAG
CCAGGGGGCCCCACCCCGCGGGCTGGGCCTATAAAGAAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCC
AAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCCCCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTA
GGGGGCCCAAGGAGACCCACCCAATGGAATCTTTCCCTGCCCCAAGGCTTCGGAGGGACTATTCTGATGAA
AGAGTGGGTCTTACCTCTTGCCGGGGTGGGGGCCGAGGCGAGTATTTGCCAGAGGGAGGGGTTTTCGGGGGACC
TATGGGGGACGAGGGCGGGGAGCCGAAGCCGGGAATTCGCGAGTTACCGAGAGTTTCGAGGAGATGATGGGCGT
GGAGGTGGGACAGGGGGACCAAAACCACCTCCTGCTCCCCGAGGCCGCACTGCCAGCGAGACACGGAGCGAGGGT
TCAGAGTATGAGGAAATCCCCAAGCGGCGCCGGCAGCGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGAT
CTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAGGAGGGAACTCACCCAGGTCCCTCTCGCTCCCCACCA
CCAGGAGCCCCACCTTCACCAGCCCCAGCCGCTTCACTGCCCCGGGTGGGCGAGTCTTCACTCCCAGAGGGGTG

4779/5332

FIGURE 4149B

10/531147

CCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCCCTCCTCAAGTTTGCCAGGCTGGAGCCCTCCAGCCAAGTCT
CTGGCTCCCAAGAAACCTCCCACAGGCCCTTTGCCACCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCCAGGG
CCTCTGTCCCCTGTGGCGCGCGGAGGCAGCAATGGAGGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGA
AGGAGGCGCATGGGAGGGCTCAGCAGCAGGATAAAACCGCCTCGTTTCCGGAGGCTGAAGCAGGAACGGGAGAAT
GCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACCCCTTCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACA
ACAGTCACAGTGGCCCCAGCACCTCGCCGGGCAGCTGCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAA
GCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGTGACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCC
CCACCAGTACTGCTGACACCCAAGGCTGTGGGAACTCCTGGGGGAGGTGGAGGTGGAGCCGTACCAAGGTATTCA
GCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAGGATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGC
ATGGAACGGCAGAATCGGCGCCCTGGCCAGGGGGCAAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGT
GGGGGTCTTGAGGAAGGACCGGGCCAGGACGAGGCGACAAGAGGAGCTGGCCCTCTCCCAAGAACCAGTTCGT
CCTCCAGAGGAGCGTCCCCGGGGCTTCCCCTGCCTCCCCACCTCCAGCAGTCTGTCTGTCTTCCGCCTGGAC
CAAGTTATCCACAGCAACCTGCTGGCATCCAACAGGCTCTGGCCAGCTTAGTAGCCGTCAAGGGAGTGTAACT
GCACCAGGGGGTCAATCAAGGCACAAGCCTGGGCCTCCCAAGCCCTCAGGGCCCTCTCCTAGGCCCCCAACC
CGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGTTCTGACCCCACTTTGAGGAGCCGGGGCCAATGGTGAGA
GGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTTAGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCAGA
AAACCAGAGCTGCTACAGGAGGAATCTTTGCCACCTCCTCATAGCTCTGGATTCTTGGGCTCTAGGCTGAGGGC
CCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCAGAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACT
GCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATGGAGCCTTGGATGGAGCCCTGAGTCCTTTTGAGGATGTG
GCTGGCACAGAAATGAGTCACTGACAGTGGGGTGGACCTGAGTGGGGATTCTCAGGTGTCTCAGGTCCCTGC
AGCCAGCGAAGTTCCCTGATGGAGGACTCAAGGGGGCAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTCA
CCCCCTGAATGCTGTTCTTGTGAGGGTCCACCTGGCTCTGAACCTCCTAGGAGACCACCACTGCCCCCCACGAT
GGGGACAGAAAGGAGCTGCCCGGGAGCAGCCTCTGCCCCCTGGCCCCATTGGCACAGAACGATCACAGCATACA
GACCGAGGCACAGAGCCTGGCCCCATTGCGCCATCCCATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGAC
AAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGCTTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAG
GCCATTCTGTATCACGAGACTGGGAGCTGCTTCCAGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCCTG
GATTCTGGGCACTGTGTCCCGGAGCCAGCTCCTCAGGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGCT
GGGCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATGGACTCTCAATTACATCCAAACAGTGGAGGCTTCCGCCCT
GGGACACCTCACTGCACCCTTACAGATCACAGCCCCTATACCTACCCCCCGGCCAGCCCCCTCCCTCAGCACTG
CTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGATTTCTCCACAATGCAAGCTACAGAGCTGGGGAAGTTGCCG
GCTGGAGGAGTTTCTTACCCTCCACCTTCTTCTCTACTCTCCGGCTTTCTGCCCCAGTCTTTGCCTGACACA
TCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCTTCGGATTTTATTCTACTCCTCTGCAGCCTGGTGGCCAA
AGTGGCTTTCTCCCTTCAGGGGCTCTGCCAGCAGATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTG
AACTTTGGCTCCCTGCCGCCAGCACCTCCTGCCCCACCTCCCTTTCTCTGTTACCTGTGGGCCCTGCTCTG
CAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCTCCTGCTACTCGGGTGCTGCCTTCACCTGCCAGGCCCTTC
CCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTGGAACTAAAGCCGTTCCAGGATTATCAAAAACCTGAGCAGC
AACCTTGGGGGACCTGGATCATCACGACTCCCCCAACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAG
GCCACGCCTTCCACCTACAGTGGAGTCTTCCGCACCCAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGAT
GCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACAGGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAG
GAGCCTGGGTCCCAGGGGACAAGGAGCCTGGGTTGCCCCACCCCGCTGAGGGAGTTTCTTGGCCCCCTACCC
CCGGGGCTTGTATATAGATTATAAATATATAAGGGGGAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCCT
CACTTCCCCCTCCTCCCCCTTCCCCTGGTCCCCTGTCCCTGGGGCTGTTTGTAAAAAAGAGTAATAAAGGATTT

4780/5332
FIGURE 4150

CAGTCTCAATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGGTTCCCTCCTGCTAGCTG
TGGCAGGAGCCACTTCTCTGGTGACCTTGTTGCTGGCGGTGCCTATCACTGTCCTGGCTGTGCTGGCCTTAGTGC
CCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGACCCGGGGCACAGGCCAGCAAGGACTGGGGTTTCAGA
AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCCCACCTCATAGGCGCTCCGCTGA
AGGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCGGACGCCG
AGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGCTACCGGGGCCGGGCGCCCCCTG
GCGGCGGGGACCCCCAGGGCCGCTCGGTCACGCTGCGCAGCTCTCTGTACCGGGCGGGGGCGCCTACGGGCCGG
GCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCCAGTGCTGGACCCGGCCAGGAGACAAGGGTACG
GGCCTCTCTGGTACACGAGCGTGGGGTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACA
TCAGTCACCCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCCGTGATGGTGGGGTGAGGGAATA
TGAGTGCGTGGTGCAGTGCGTGAATATTGGGGGCCCCGACGCCCAGGACCCCATGGCAGTGGGAAAAATGTAGG
AGACTGTTTGAAATTGATTTGAACCTGATGAAAATAAAGAATGGAAAGCTTCAGTGCTGCCGATAAA

4781/5332
FIGURE 4151

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGTACTTGGGGGGCGGGGCAGGTCTGATGAGT
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTCGTGCTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCCTGCACCGGGCCTGTGCCCCGCCACGAT
GCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCACCAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCCTGGCCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCTGTGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCGGGGCCAGGGAAGAGCACCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTTGGTGATGTGCCCTGG
CCCTGCCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCCTGCTCCTTGACTCTGCCGTTTCTAATAAGACCTGGTTCC
ACATCTC

4782/5332
FIGURE 4152

CAGCATCGGCCATAACAACAGAAATGGCCAGTCAGTCCCAAGGTATCCAGCAGCTTCTGCAAGCTGAGAAGCGGG
CAGCTGAGAAGGTGGCAGATGCCAGAAAGAGGAAGGCCCGCGACTGAAGCAGGCAAAGGAGGAGGCACAGATGG
AGGTGGAGCAATACCGCAGAGAGCGAGAGCACGAATTCAGAGCAAGCAGCAGGCGACAGGCATTTTCCAAAGGC
AAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTGCGCCTGCGCTCTTGACGCC
AAGAAGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATTTCCCTCCTTCGTCGCTGTT
GCTGCCGCCATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTGTTTTCCTTTGCTGTTCCCTC
AATCCCTACTCTTCACCCCTTGTTTTACCTATTTTGGCAGAACCCATCCAGATCCCCCTTCCCTTCTTCCCTC
GCCGGCCAGTTATGGCAGAGAACGATGTGGACAATGAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCA
GCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAGGATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGC
TTTCGTGACTTCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTGCGACTGTGGCTTTGAGCATCCGTCAGAAGTC
CAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACA
GCACTGTTTGTCTTGCCACACTGCAACAGCTGGAGCCAGTTACTGGGCAGGTGTCTGTGCTGGTGATGTGTCAC
ACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAATACATGCCCAATGTCAAGGTTGCT
GTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGAACTGCCCCGATATCGTCGTGGGG
ACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAGAGCCTCAACCTCAAACACATTAAACACTTTATTTTGGAT
GAATGTGATAAGATGCTTGAACAGCTCGACATGCGTCGGGATGTCCAGGAAATTTTTCGCATGACCCCCACGAG
AAGCAGGTGATGATGTTTCACTGCTACCTTGAGCAAAGAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCA
ATGGAGATCTTCGTGGATGATGAGACGAAGTTGACGCTGCATGGGTTGCAGCAGTACTACGTGAAACTGAAGGAC
AACGAGAAGAACCAGGCTCTTTGACCTTCTGGATGTCTTGAAGTTCAACCAGGTGGTGATCTTTGTGAAGTCT
GTGCAGCGGTGCATTGCCTTGGCCAGCTACTAGTGGAGCAGAACTTCCAGCCATTGCCATCCACCGTGGGATG
CCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTTAAAGATTTTCAACGACGAATCTTGTGGCTACCAACCTA
TTTGGCCGAGGCATGGACATCGAGCGGGTGAACATTGCTTTTAATTATGACATGCCTGAGGATTCTGACACCTAC
CTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACCAAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGAT
GCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAGGTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCC
TCCTACATTGAACAGACACGGTAGAAGACTCGCCCATTTTGAATGTGACCGTCTGTCTTCAGGAGAGGACACC
AGGGTGGGGGTGAAGGAGACACTACTGCCCCACCCCTGACAGCCCCACCCCATGGCTTCCATCTTTTGCATCA
CCACCACTCCTGAACCCCATTTCTGATTTGTCAGAATTTTTTTTTTAACAAAATAAAAAATGAAACACATGTGTC
TGTTGGTATCT

4783/5332
FIGURE 4153

GGGCCATGGGGCTGGGCGGGTCCTGCTGTTTCTGGCCGTCGCCTTCCCTTTTGACCCCCGGCAGCCGCCGCTG
AGCCCCACAGTCTTCGTTACAACCTCATGGTGCTGTCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGG
GACATCTGGATGGTCAGCCCTTCCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGACAGTGGGCAG
AAGATGTCTCTGGGAGCTGAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGCAAGACCTCAGGAGGA
CCCTGACTCATATCAAGGACCAGAAAGGAGGCTTGCAATTCCTCCAGGAGATTAGGGTCTGTGAGATCCATGAAG
ACAGCAGCACCAGGGGCTCCCGGCATTTCTACTACAATGGGGAGCTCTTCTCTCCCAAACCTGGGAGACTCAAG
AATCGACAGTGCCCCAGTCCCTCCAGAGCTCAGACCTTGGCTATGAACGTCACAAATTTCTGGAAGGAAGATGCCA
TGAAGACCAAGACACACTATCGCGCTATGCAGGCAGACTGCCTGCAGAACTACAGCGATATCTGAAATCCGGGG
TGGCCATCAGGAGAACAGTGCCCCCATGGTGAATGTCACCTGCAGCGAGGTCTCAGAGGGCAACATCACCGTGA
CATGCAGGGCTTCCAGCTTCTATCCCCGAATATCACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACA
ACACCCAGCAGTGGGGGGATGTCTGCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTCGCC
AAGGAGAGGAGCAGAGGTTACCTGCTACATGGAACACAGCGGAATCACGGCACTCACCTGTGCCCTCTGGGA
AGGCGCTGGTGCTTACAGTCAACGGACAGACTTTCATATGTTTCTGTGCTATGCCATGTTTTGTTATTATTA
TTATTCTCTGTGTCCCTTGTGCAAGAAGAAAACATCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAGGTCC
TGGATCAACACCCAGTTGGGACAGGAGACCACAGGGATGCAGCACAGCTGGGATTTACAGCCTCTGATGTCAGCTA
CTGGGTCCACTGGTTCCACTGAGGGCGCCTAGACTCTACAGCCAGGCGGCCAGGATTCAACTCCCTGCCTGGATC
TCACCAGCACTTTCCTCTGTTTCTGACCTATGAAACAGAAAATAACATCACTTATTTATTGTTGTTGGATGCT
GCAAAGTGTTAGTAGGTATGAGGTGTTGCTGCTCTGCCACGTAGAGAGCCAGCAAAGGGATCATGACCAACTCA
ACATTCCATTGGAGGCTATATGATCAAACAGCAAATTGTTTATCATGAATGCAGGATGTGGGCAAACCTACGACT
GCTCCTGCCAACAGAAGGTTTGCTGAGGGCATTCACTCCATGGTGCTCATTGGAGTTATCTACTGGGTCACTAG
AGCCTATTGTTTGGGAATGCAGTCTTACAAGCCTACTCTGGACCCAGCAGCTGACTCCTTCTTCCACCCCTCTT
CTTGCTATCTCCTATACCAATAAATACGAAGGGCTGTGGAAGATCAGAGCCCTTGTTACGAGAAGCAAGAAGCC
CCCTGACCCCTTGTTCCAAATATACTCTTTTGCTTTCTCTTTATTCCACGTTTCGCCCTTGTTTCAGTCCAATA
CAGGGTTGTGGGGCCCTTAACAGTGCCATATTAATTGGIATCATTATTTCTGTTGTTTTTGTGTTTTTGTGTT
TTTGTGTTTTGAGACAGAGTCTCACTCTGTACCCAGGCTGCAGTTCACTGGTGTGATCTCAGCTCACTGCAACCT
CTGCCTCCCAGGTTCAAGCACTTCTCGTACCTCAGACTCCCGAATAGCTGGGATTACAGACAGGCACCACCACAC
CCAGCTAATTTTTGTATTTTTGTAGAGACGGGGTTTCGCCAAGTTGACCAGCCCAGTTTCAAACCTCCTGACCTC
AGGTGATCTGCCTGCCTTGGCATCCCAAAGTGCTGGGATTACAAGAATGAGCCACCGTGCCTGGCCTATTTTATT
ATATTGTAATATATTTTATTATATTAGCCACCATGCCTGTCTATTTTCTTATGTTTTAATATATTTAATATAT
TACATGTGCAGTAATTAGATTATCATGGGTGAACCTTTATGAGTGAGTATCTTGGTGATGACTCCTCCTGACCAGC
CCAGGACCAGCTTTCTTGTACCTTGAGGTCCCTCGCCCCGTCACACCGTTATGCATTACTCTGTGTCTACTAT
TATGTGTGCATAATTTATACCGTAAATGTTTACTCTTTAAAT

4784/5332
FIGURE 4154

CACTGCTTGAGCCGCTGAGAGGGTGGCGACGTCGGGGCCATGGGGCTGGGCCCCGGTCTTCCTGCTTCTGGCTGGC
ATCTTCCCTTTTGCACCTCCGGGAGCTGCTGCTGAGCCCCACAGTCTTCGTTATAACCTCACGGTGCTGTCCTGG
GATGGATCTGTGCAGTCAGGGTTTCTTGCTGAGGTACATCTGGATGGTCAGCCCTTCCTGCGCTATGACAGGCAG
AAATGCAGGGCAAAGCCCCAGGGACAGTGGGCAGAAGATGTCCTGGGAAATAAGACATGGGACAGAGAGACCAGG
GACTTGACAGGGAACGGAAAGGACCTCAGGATGACCCTGGCTCATATCAAGGACCAGAAAGAAGGCTTGCAATTCC
CTCCAGGAGATTAGGGTCTGTGAGATCCATGAAGACAACAGCACCAGGAGCTCCAGCATTTCTACTACGATGGG
GAGCTCTTCTCTCCCAAACCTGGAGACTGAGGAATGGACAGTGCCCCAGTCCTCCAGAGCTCAGACCTTGGCC
ATGAACGTCAGGAATTTCTTGAAGGAAGATGCCATGAAGACCAAGACACACTATCACGCTATGCATGCAGACTGC
CTGCAGGAACCTACGGCGATATCTAGAATCCGGCGTAGTCTGAGGAGAACAGTGCCCCCATGGTGAATGTCACC
CGCAGCGAGGCCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCCGGAATATCATACTG
ACCTGGCGTCAGGATGGGGTATCTTTGAGCCACGACACCCAGCAGTGGGGGGATGTCCTGCCTGATGGGAATGGA
ACCTACCAGACCTGGGTGGCCACCAGGATTTGCCGAGGAGAGGAGCAGAGGTTACCTGCTACATGGAACACAGC
GGGAATCACAGCACTCACCTGTGCCCTCTGGGAAAGTGCTGGTGCTTCAGAGTCATTGGCAGACATTCCATGTT
CTGCTGTTGCTGCTGGCTGCTGCTATTTTGTATTATTATTTCTATGTCCGTTGTTGTAAGAAGAAAACATC
AGCTGCAGAGGGTCCAGAGCTCGTGAGCCTGCAGGTCCTGGATCAACACCCAGTTGGGACGAGTGACCACAGGGA
TGCCACACAGCTCGGATTTAGCCTCTGATGTCAGCTCTTGGGTCCACTGGCTCCACTGAGGGCACCTAGACTCT
ACAGCCAGGCGGCTGGAATTGAATTCCTGCCCTGGATCTCACAAGCACTTTCCCTCTGGTGCCTCAGTTTCCTG
ACCTATGAAACAGAGAAAATAAAGCACTTATTTATGTTGTTGGAGGCTGCAAAATGTTAGTAGATATGAGGCA
TTTGCAGCTGTGCCATATT

4785/5332
FIGURE 4155

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC
CTGGGCGGGCTCCCACTCCATGAGGTATTTGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACGCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATAACCAGTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGA
GGCGGCCCCGTGTGGCGGAGCAGGACAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGAGATACCTGGA
GAACGGGAAGGACACGCTGGAGCGCGGGACCCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCCTCCAGAAGTGGGCAGCTGTGGT
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTCACCTGAG
ATGGGAGCCGTCTTCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGT
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGGCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG
GGACTGAGATGCAGGATTTCTTCAGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTCTGCAAAGGC
ACCTGAATGTGTCTGCGTCCCTGTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTGTCCACTGTGA
CCCCGTGTTCCCATGCTGACCTGTGTTTCTCCCCAG

4786/5332
FIGURE 4156

GC GTG ATG TCTCACAGAAAGTTCTCCACTCCCAGACATGGGTCCCTCGGCTTCCTGCCTTGGAAGCGCAGCAGCA
GGCATTGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT
ACAAGGCTGGCATGACCCACATCGTGCGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCCCTCCAAGT
TTGGCCATGGCCACTTCCAGACCATGGAGGAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACCGAATTGCAA
AGGAAGAAGGAGCT TAAT GCTGGGAACAGATATTGCAACTGGTGGGATCTCAATAAAAGTTATTTTCCA

4787/5332
FIGURE 4157

ATTCTCCCCAGAGGCCGAGATGCGGGTCAATGGCGCCCCGAGCCCTCCTCCTGCTGCTCTCGGGAGGCCTGGCCCT
GACCGAGACCTGGGCCTGCTCCCACTCCATGAGGTATTTGACACCGCCGTGTCCCGCCCCGGCCGCGGAGAGCC
CCGCTTCATCTCAGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGTCCGAGAGG
GGAGCCCGGGCGCCGTGGGTGGAGCAGGAGGGGCCGAGTATTGGGACCGGGAGACACAGAAGTACAAGCGCCA
GGCACAGGCTGACCGAGTGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGACGGGTCTCACACCCT
CCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCGCGGGTATGACCAGTCCGCTACGACGG
CAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACCGCGGCTCAGATCACCCAGCG
CAAGTTGGAGGCGGCCCGTGGCGCGGAGCAGCTGAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCGAG
ATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCAGAACCCCCAAAGACACACGTGACCCACCAACCCCTCTC
TGACCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGA
TGGGGAGGACCAGACCCAGGACACCGAGCTTGTGGAGACCAGGCCAGCAGGAGATGGAACCTTCCAGAAGTGGGC
AGCTGTGGTGGTGCCTTCTGGACAAGAGCAGAGATACACGTGCCATATGCAGCACGAGGGGCTGCAAGAGCCCCT
CACCTGAGCTGGGAGCCATCTTCCCAGCCCACCATCCCCATCATGGGCATCGTTGCTGGCCTGGCTGTCTGGT
TGTCTAGCTGTCCTTGGAGCTGTGGTCACCGCTATGATGTGTAGGAGGAAGAGCTCAGGGCATTCTTCTCCAC
AGGTGGAAGAGGAGGAGCTGCTCTCAGGCTGCGTGCAGCAACAGTGCCAGGGCTCTGATGAGTCTCTCATCAC
TTGTAAAGCCTGAGACAGCTGCCTGTGTGGGACTGAGATGCAGGATTTCTTCACACCTCTCCTTTGTGACTTCAA
GAGCCTCTGGCATCTCTTTCTGCAAAGGCGTCTGAATGTGTCTGCGTTCCTGTAGCATAATGTGAGGAGGTGGA
GAGACAGCCACCCCGTGTCCACCGTGACCCCTGTCCCCACACTGACCTGTGTTCCTCCCCGATCATCTTCC
TGTTCCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAATTCATGGTGCAGTGAAGCTTCTTACT
TCCCTAATGAAGTTAAGAACCTGAATATAAATTTGTGTTCTCAAATATTGCTATGAAGCGTTGATGGATTAATT
AAATAAGTCAATTCCTAGAAAGTTGAGAGAGCAAATAAAGACCTGAGAACCTTCCAG

4788/5332
FIGURE 4158

AGATGACACAAGTCACAGAAAAGTCCACAGAACACCCAGAAAAGACCACGTCAACCACAGAGAAAACCACAAGAA
CCCCAGAAAAGCCTACGCTATACTCAGAGAAGACCATATGCACCAAAGGGAAAAACACACCAGTCCCAGAAAAGC
CTACAGAAAACCTGGGGAACACCACACTGACCACTGAGACCATAAAAGCCCCAGTAAAGTCCACAGAAAACCCAG
AAAAAACAGCAGCAGTCACAAAGACTATAAAACCTTCAGTCAAGGTCACAGGAGACAAATCTCTCACTACTACCT
CTTCTCATCTAAATAAAACTGAAGTTACTCATCAGGTGCCCACTGGTTCTTTCACCCTCATTACATCTAGAACGA
AGCTGAGTTCTATCACATCAGAAGCCACAGGAAACGAGAGCCATCCATACCTCAATAAAGATGGCTCACAGAAAAG
GTATCCACGCTGGACAGATGGGAGAGAAATGATTTCCTTGCATGGGCCATAGTTATTGTGGTCCTGGTGGCTG
TGATTCTCCTCCTGGTGTTCCTTGGCCTGATCTTCTTGGTCTCCTATATGATGCGGACACGCCGCACACTAACCC
AGAACACCCAGTACAATGATGCAGAGGATGAGGGTGGCCCCAATTTCCTACCCGGTCTACCTGATGGAGCAGCAGA
ATCTTGGCATGGGCCAGATCCCTTCCCCACGGTAGATCTTGGAGTAGGCGCCAGCCCTGGCTCTTCCATGCTCTG
CCCCTTTCCTGGATGAGGAACCGGACTCACAATTTCTATTTCGGGACTACAGGAAGGGCAGAGAATACTGACGG
TTACCAGTATTAACCCTTCATCTGTTCTTGAACTGGTTGGGGAATGAGGTGATAAGCAAGGAGGGTGTAAGTTT
AGGGGACAAAGAAGAAAGAAATGAATAATACGAGCAGACATTCTCTGTAGAAGGTAATGGTCTGAGAATGAAAAGG
TGTTTGATGGACATGTTGTGGGGGCACCAATGCAGAACACTGCACTGAGTCCTAAAGGAAGGACAGGAGCCTTAT
AGGCAATGCCCCAGACTGACTTGTGAGTGGGGTTTATGGGGAAAGGGAGGGACTGAGGGCAGAGTCTCTGGGTTT
CAGGACAGCATTATGTTATTTCCATTCACTATTACTTAAGAGTTTGTGTGTAAACAGGCTCATCTCTGAGTTCTC
AGGACCCCTTGCCCCACCCCATTTTTTAAATGAAAAAAAAAAAAACAAAAAACGGATCCAAGAAGAAAAGAGAA
TTTATTTCTCTTCTCCACTCTCTCCATGCCCTGGAGAAAAAAAGTCCAGAAGAAATCATAAATATCTCTCATCTA
CATGGTTGCTTCTCTCTTCCCTTCCCTAGTTTTCTCTAAATGTCTACAGTGGACGCCCTGTTGGTTTGGCT
TGCTGGGTTGTGGGTGGACACGCAAGGAGGGGATTTTTATTTGGCCAGCAGTCTCACCCACTGATCTCCACCCCA
GACCTTCCCTGATTGGTGTCTCAGCATTATTTTCTGTCTCTTCCACCAAAGCCAGCTGTAGCTTTATCTCGT
AAAAGTTACCCATCTTCTCTACTGTCCCATTTCTCTCTCTCTCCACCTTACCCCAGATTCAAGTTTTCTCTCTT
GTAGGCATTTTATCTGTGTGTGTTTTCTGGATTTTCTCTCTCTCTTCTTATGGCCATTTACCTTATTACTGATT
GGGTAGAGGGGGAAAAGGAGAATGATGATAGTTTTCTTCTGTCTATTGACCTTTTTTTATAATAAAGTATAAC
ATGTT

4789/5332
FIGURE 4159A

ATGGACACTGTGCTGGTGTGCTCCTGGGCCTGCAGGCCTTGGCCGGACCCAGTCCGAAGCCCCAGAAGGACTCT
GTCTCAGACTGGGCCATTGTGTTGATCACTCTCACTTTGGTGGCAGCAATTGTCAGCCTAATGTACGGTATCAAG
AAGGCCTGCCAGTTCGGAGGGAGATGAGTCTGGGGTGTGGCTGTGGCTCTGTGACCCCTTACAGCAGCCACCAT
GAGGGGGAGGCTGCCAGCCAGCGCTACTCTTGTCAAATGAAAGCTTCTTGGGGGGCAGGTGCTACTACATTCCAA
GAATATCAGAAAACCTGGGGAACCTCTCAACATCCGATCACATATTTCCCCTCACTCCAGGCCTTGTTTATAGTATC
CCTTTTGATCACATTGTTCTGCATTTCAGGACAAAAGACCTCCAGAGCTCCCTAAATCTACAGAAATCCATGAGCAA
AAACGCCACTGCAACACCACACGCCATTCTAAGCCAACTGACAAGCCTACAGGCAACTCCAAAACCTATAGACCAC
AAAAGCTCTACAGATAATCATGAGGCTCCTCCCACTTCTGAAGAAAACCTCCAGCAACCAAGGGAAAGACCCCAATG
ATCCGGAACCCAGCGCTCTGTTGATCCTGCTGACTCCACTACCACACATAAAGAATCCGCTGGAAAAAACATATA
ACGCCAGCACCCAAAGAGCAAAATAAACTGTCTGTAAGTCCACAACAGGCAATCAACGGTAACAAGAAAATCAGAT
AAAACCTGGAAGACCTTTGGAAAAGTCCATGAGTACTTTGGATAAGACAAGTACCAGCTCACATAAGACTACAAC
TCCTTCCACAACCTCAGGCAATTCACAGACCAAGCAAAAAAGCACATCTTTTCCAGAAAAATCACAGCAGCCTCA
AAAACAACATACAAGACCACAGGAACCCAGAAAGAGTCAGAAAAACCTGAAGATTCCAGAACACAGTTGCCTCA
GACAAGCTCCTGACAAAAACTACAAAAACATACAAGAGACCATATCAGCCAATGAGCTCACACAATCTCTAGCA
GAGCCTACAGAACATGGAGGAAGGACAGCCAATGAGAACAACACACCATCCCCAGCAGAGCCTACAGAAAATAGA
GAAAGGACAGCCAATGAGAACACCACACTATCCCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAG
AACACCGCACCATTTCCAGCAGGGCCTACAGAAAATAGAGAAATGACAGCCAATGAGAATACCACTATTCCCA
GCAGAGCCTACAGAACATGGAGAAAGGACAGCCAATGAGAACAACACACCATCCCCAGCAGAGCCTACAGAACAT
GGAGAAAGGACAGCCAATGAGAACACTACACCATCCCCAGCAGAGCCTACAGAACATGGAGAAAGGACCCCATTT
GCCAATGACAAAACCATCATCTCTCAGCAGAGTCTACAGAAATGAGAAAGGACCCCACTGGCCAACGAGAAC
ACCACACCATCCCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAACAACACACCATCCCCAGCA
GGGCCTACAGAAAACAGAGAAACGACAGCCAACGAGAAGACCACACTATCCCCAGTAGAGCCTACAGAAAATAGA
GAAACAACAGCCAATGAGAAGACCACACCATCCCCAGCAGAGCCTACAGAAAATGAGACAAAGGACCCCATTTGCC
AATGAGAAAACCATCATCTCTCAGCAGAGCCTACAGAACACGGAGAAAGGACCCCACTGGCCAATGAGAACACC
ACACCATCCCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAAGACCACACCATCCCCAGCAGAG
CCTACAGAAAATGGAGACAGGACTCCTTTGGCCAATGAGAAGACCACATCATCTCAGCAGAGCCTACAGAACACGAAGAAAGGACT
GGACAAAGGACCCCATTTGCCAATGAGAAGACCACATCATCTCAGCAGAGCCTACAGAACACGAAGAAAGGACT
CCACTGGCCAATGAGAACACCACACCATCCCCGGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAAC
ACCACACCATCCCCAGCAGGGCCTACAGAAAATAGAGAAATGACAGCCAACGAGAAGACCACACTATTCCCAGCA
GAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAAGACCACATCATCCCCAGCAGAGCCTACAGAAAATGGA
CAAAGGACCCCATTTGCCAATGAGAAAACCATCATCTCCCCAGCAGAGCCTACAGAACACGGAGAAAGGACCCCA
CTGGCCAATGAGAACACCACACTATCCCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAAGACC
ACACCATTTCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAACAACACACCATCCCCAGCACAG
CCTACAGAAAATGGAGACAGGACTCCATTGGCCAATGAGAAGACCACACCATCTCTAGCAGAGCCTACAGAAAAT
GGAAAAAGGACCCCATTTGCCAATGAGAAGACCACATCATCTCAGCAGAGCCTACAGAACACGCAGAAAGGACT
CCACTGGCCAATGAGAACACCACATCATCTCCCCAGCAGAGCCTACAGAAAATAGAGAAAGGACAGCCAATGAGAAG
ACCACACAATTTCCAGCAGAGCCTACAGAAAATAGAGAAAGCACAGCCAATGAGAAGACCACACCATTTCCAGCA
GAGCCTACAGAAAATAGAGAAATGGACAGCCAATGAGAACAACACACTATCCCCAGCAGAGCCTACAGAACATGAA
GAAATGACCCCATTTGGCCAATGAGAAGACCACACTATCCCCAGCAGAGCCTACAGAAAATGGAGAAAGGACCCCA
TTTACCAATGAGAAGACCACACCATCTCTCAGCAGAGCCTACAGAACATGGAGAAAGGACCCCACTGGCCAATGAG
ATCACCAACACCATCCCGAGCAGAGCCTACAGAACATGGAGAAAGGATAGCCAATGAGAAGGCCACACCATCCCCA
GCAAAGCCTACAGAACATGGAGAAACGACAGTCAATGAGGACACCACACCATCTCTCAGCAGAGCCTACAGAAAAT
GGAGAAAGGACCCCACTGGCCAATGAGAACAACCAACATCCCCAACAGAGTCTACAGAACATGGAGAAAGGACA
GCCAATGAGAAGACCACACCAATCCCCAGCAGAGCCTACAGAACATGGAGAAAGGACACCATCAGCCAATGAGAAG
ACCATACCATCTCCAGCAAAGCCTACAGAACACGAAGAAATGACCCCATCGGCCAATGAGAACAACACACCATCC
CCAGTAAAGCCTACAGAACATGGAGAAAAGACTACATTGGCCAATGAGAAGATCACACTATCCCCAGAAGGGCCT
ACAGAACATGGAGCAAAAACCTACGTCGGCCAATGAGAAGATCACACCATCCCTAGCAAAGCCTACAGAACATGGA
GAAAGGACCACATCACCAATGACAAGATCACCTCATCTGCAGCAGAGTCTACAGAACATAGAGATAGGGCTACA

4790/5332
FIGURE 4159B

TCAGCCAAT

4791/5332
FIGURE 4160

TTGGTGGATTCCCTCAGTCCCTGCCGCCGCGGGGCGCCCTGGGATAGCGGCGGGGCCTCCTGAACAGATCTCGGCC
CCTTTCCAAACACTCCTGATGCCCTCATTGCTCTCGCTTCTTTTCGACCACCATTGTGGGGGCTGAGGCACTCA
CGGGGCTCCCCAGGTTTCACTCCGTTTCTACACAGTCGGAGCCCCATGGATCTCCCATCTCCCGGAGGAACCGT
GAAGCCAAACAGAAGCGCCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCAAGTCACT
GCAGAATCCATTAAAGGCCTGGAGGCCTAAGGAGTTAGTATTGTATGAAATCCCTACGAAACCCGGTGAAAAGAAA
GATGTCTCTGGGCCCCCTGCCTCCTGCATACAGCCCCGATATGTTGAGGCTGCCTGGTACCCGTGGTGGGTACGA
GAGGGCTTCTTCAAACCAGAATATCAGGCCCGGCTGCCCAAGCTACAGGGGAGACCTTTTCCATGTGTATCCCA
CCTCCCAATGTCACTGGCTCCCTGCACATTGGCCACGCACTCACGGTGGCCATACAGGATGCCCTCGTGCCTGG
CACCGGATGCGTGGGGATCAAGTGCTGTGGGTCCCTGGTTTCAGATCATGCAGGAATTGCTACACAAGCTGTGGT
GAGAAACAACCTGTGGAAGGAACGGGGAGTGAGGAGACATGAGCTGAGCCGGGAGGCTTCTTAGGGAGGTGTGG
CAGTGAAGGAGGCGAAAGGTGGAGAGATCTGTGAGCAGCTGCGAGCTCTGGGTGCCTCCCTGGACTGGGATCGA
GAGTGTTTTACCATGGATGTTGGCTCCTCAGTGGCTGTGACTGAAGCTTTTGTGCGGCTCTACAAGGCGGGGTG
CTGTACCGGAACCATCAGCTTGTCAACTGGTCATGTGCTTTAAGATCAGCCATCTCGGACATTGAGGTGGAGAAC
CGGCCCTGCCTGGCCACACACAGCTTCGACTGCCTGGCTGCCCAACCCCGTGTCTTTTGGCCTCCTATTTCT
GTTGCCTTCCCCGTGGATGGAGAGCCTGATGCAGAGGTTGTGGTAGGAACCACAAGGCCAGAGACGCTGCCCTGGA
GATGTGGCTGTGGCCGTTTCATCCAGACGACTCGCGATACACATCTACACGGGCGACAGCTTCGTCACCCCTTG
ATGGGGCAGCCTCTTCCCTCATCAGACTATGCTGTTACGCCACATGTGGGCACGGGGGAGTGAAGGTGACT
CCAGCTCAGACTCCTGCCGATGCTGAGATGGGGGCGGACATGGCTTGAATGTATTGCGGAGGAT
GGGACCATGACCTCCCTCTGCGGGGACTGGCTGCAGGCTTCCAGAACCCCATGGTACTGCCATCTGCAGCCGTTCTGGG
GTGCTGAGTGAATGGGGCCTGTTCCGGGGCCTCCAGAACCCCATGGTACTGCCATCTGCAGCCGTTCTGGG
GATGTGATAGAATACCTGCTGAAGAACCAGTGGTTTGTCCGCTGCCAGGAATGGGGGCGGAGCTGCCAAGGCT
GTGGAGTCGGGGGCGCTGGAGCTCAGTCCCTCCTTCCACCAGAAGAACTGGCAGCACTGGTTTTCCCATATTGGG
GACTGGTGTGTCTCCCGGACGCTGTGGTGGGGCCATCAGATTCCAGCCTACCTGGTTGTAGAGGACCATGCGCAG
GGAGAAGAGGACTGTTGGGTGGTTGGGCGGTGAGAGGCTGAGGCCAGAGAGGTAGCAGCGGAACCTGACAGGGAGG
CCAGGGGCGAGCTGACCTTGAGAGGGGATCCTGATGCTCTAGACACATGGTTTTCTTCTGCCCTGTTCCCTTT
TCTGCCCTGGGCTGGCCCCAAGAGACCCAGACCTTGCTCGTTTCTACCCCTGTCACTTTTGGAAACGGGCGAGC
GACCTTCTGCTGTTCTGGGTGGGCCGATGGTCATGTTGGGGACCCAGCTCACAGGGCAGCTGCCCTTCAGCAAG
GTGCTTCTTCATCCCATGGTTCCGGGACAGGCAGGGCCGGAAGATGAGCAAGTCCCTGGGGAATGTGCTGGACCCA
AGAGACATCATCAGTGGGTGGAGATGCAGGTGCTGCAGGAAAAGCTGAGAAGCGGAAATTTGGACCTGCAGAG
CTGGCCATTGTGGCTGCAGCACAGAAAAGGACTTTCCTCACGGGATCCCTGAGTGTGGGACAGATGCCCTGAGA
TTCACACTCTGCTCCCATGGAGTTCAGGCGGGGCGACTTGCACCTGTCACTCTCTGAGGTCCAGAGCTGCCGACAT
TTCTGCAACAAGATCTGGAATGCTCTTCGCTTTATCCTCAATGCTTTAGGGGAGAAATTTGTGCCACAGCCTGCT
GAGGAGCTGTCTCCCTCCTCCCGATGGATGCCTGGATCCTGAGCCGCTTGCCCTGGCTGCCAGGAGTGTGAG
CGGGGCTTCTCACCCGAGAGCTCTCGCTCGTCACTCATGCCCTGCACCACTTCTGGCTTACAACCTCTGTGAC
GTCTACCTGAGGCTGTGAAGCCCGTGTGTGGCACTCGCCCCGCCCCCTGGGGCCCCCTCAGGTCTGTCTCC
TGCGCTGACCTCGGCTCCGCTCCTGGCCCCACTGATGCCCTTCTGGCTGAAGAGCTCTGGCAGAGGCTGCCC
CCCAGGCCTGGTTGCCCCCTGCCCCAGCATCTCGGTTGCCCTTACCCAGCGCTGCAGCTTGGAGCACTGG
CGCCAGCCAGAGCTGGAGCGGCGCTTCTCCCGGTCCAAGAGTCTGTGAGGTGCTAAGGGCTCTCCGAGCCAG
TACCAGCTACCAAAGCCCGGCCCCGAGTGCTGCTGCAGAGCTCAGAGCCTGGGGACAGGGCCTCTTCGAGGCC
TTCTTGGAGCCCTGGGCACCTGGGCTACTGTGGGGCTGTGGGCTGTTACCCCGAGGCGCAGCAGCTCCCTCC
GGCTGGGGCCAGGCTCCACTCAGTGACACGGCTCAAGTCTACATGGAGCTGCAGGGCCTGGTGGACCGCAGATC
CAGCTACCTCTGTTAGCCGCCCCGAAGGTACAAGTTGCAGAGCAGCTTGACAGCCTCACAGCCAGGACCCCATCA
GAAGGGGAGGCAAGGACTCAGAGGCAACAAAGCTTTCTCCCTCCAGCTGGAATTGTCAAACTGGACAAGGCA
GCCTCTACCTCCGGCAGCTGATGGATGAGCCTCCAGCCCCAGGGAGCCCGGAGCTCTAACTCATCATCCCCATC
AGTTTTCTCTCCCTCTCAGACCTGTCTTTGAGGACAAACAGATTGTGAGCTGTGAGGGTGCAGTGGGACGTCAGA
GACTATGTGGTCCATCGCCTTATTGTGTAAATGAGGACACAGACTGGCTTGGTGCAGTACTGTGGTGTCTT
GAGATGCTCATTACTGCCCGGCTGCCTCCACCTGGAAGTCTGGGAATGAGGAGATTGAGATAAACTTTTGA
AATCCC

4792/5332
FIGURE 4161

CCCATCTTTTCCTCGCATTTTTTCACCATCTTTCCCTCAATCTCCAGGAGCCAATGCGAGACTTTGGCTCCGATT
AAGCGACGGCCCGAGACTCGGGGTGCGCGAGGAGGATCGACAGAGTGGTGATGGAGAGCACCCCTTCAAGGGGAC
TGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATTCTTAGGGGGCCTGAGCCCTGGGGTATTGGACCGAT
TGTATGGGCACCCTGCCACATGTCTGGCTGTCTTCAGGGAGCTCCCATCCTTGGCTAAGAAGGAATTCAGCAAGGCTCAGG
AGGAAAGTACAGGGCTGTGAGCGGCCTCCGGATCTGGCACACACAGCTGCTCCCAGGCGGGCTCCAGGGCCTCA
TCCTCAACCCCATTTTCCGCCAGAACCTCCGCATTGCCCTTCTGGGTGGGGGGAAGGCCTGGTCTGATGACACAA
GTCAGCTGGGACCAGACAAGCATGCCCCGGGACGTTCCCTCCCTTGACAAGTACGCCGAGGAGCGATGGGAGGTGG
TCTTGCACTTCATGGTGGGCTCCCCAGTGCAGCTGTCAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGGGC
TCATGAAGAGTACTGAACCTGGAGAGCCGCCCTGCATTACTTCCGCTGGCTTCCAGTTCCCTGTTGCTGGACACCC
CGGCTCAGCTCTGGTACTTTATGTTGCAGTATTTGCAGACAGCCCAGAGCCGGGGCATGGACCTGGTAGAGATTC
TCTCCTTCTCTTCCAGCTCAGCTTCTCTACTCTGGGCAAGGATTACTCTGTGGAAGGTATGAGTGATTCTCTGT
TGAACCTCCTGCAACATCTGCGTGAGTTGGGCTTGTTTTCCAGAGGAAGAGGAAATCTCGGCGTTACTACCCCA
CACGCCTGGCCATCAATCTCTCATCAGGTGTCTCTGGAGCTGGGGGCACTGTGCATCAGCCAGGTTTCATTGTGCG
TGGAACCAATTACCGACTGTATGCCTACACGGAGTCGGAGCTGCAGATTGCCCTCATTGCCCTCTTCTCTGAGA
TGCTCTATCGGTTCCCAACATGGTGGTGGCGCAGGTGACCCGGGAGAGTGTGCAGCAGGCAATCGCCAGTGGCA
TCACAGCCCAGCAGATAATCCATTTCCCTAAGGACAAGAGCCCACCCAGTGATGCTCAAACAGACACCTGTGCTGC
CCCCACCATCACCGACCAGATCCGGCTCTGGGAGCTGGAAAGGGACAGACTCCGGTTCACTGAGGGTGTCTGT
ATAACCAGTTCCTGTGCAAGTGGACTTTGAGCTGCTGCTGGCCACGCGCGGGAGCTGGGCGTGTCTGTTCG
AGAACTCGGCCAAGCGGCTCATGGTGGTGACCCCGGCCGGGCACAGCGACGTCAAGCGCTTTTGGAAGCGGCAGA
AACATAGCTCTCTGAGAGCGCGGGACTTGACACGGACCTCGGCGGGCGGGACTGGGCGGGCGGGCATCAGAAC
TCAGGTGTTTTTTATTACGCGTCAGGGCTTTTCTTGTTAATAAAGTTATGATAGCT

4793/5332
FIGURE 4162A

TTAGGAAGTTATTTAACTGATCTCTGCCCTAGTTTCTTCATGTGTTAAATATGGATAGTAATAGTATCTACCTTA
TGAAGTGACTGTGAAGATAAAATTATGGATTCTGTTTAAAGGGTTTAGGCCAGTGTCTGGCACAGGGGAAGCATT
TAAAAATATAGCTGATGCTGTTAAACAATGACTGTTGTTGTTGTTTACTGTTATTATCCCCAAAGCGGGCCATT
CTGTCTGTTGCTGTCAGCTATGACTCAGTCCCCCTGATTAACTTACGCACCACCCATTTTATCCCCTGCAGAGATG
CTGCCCCCACCCTTAGGCCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCT
CTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCA
GGACCGGACCATCCCAGACAGTGACATCTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAG
GTTGGAGAGCAGTGACGGGGATGGGGCCTGGTGCCCCGAGGGTCCGTGTTTCCCAAGGAGGAGGAGTACTTGCA
GGTGGATCTACAACGACTGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGGCTGGGCAAGGA
GTTCTCCCGGAGCTACCGGCTGCGTTACTCCCGGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCA
GGAGGTGATCTCAGGCAATGAGGACCCTGAGGGAGTGGTGCTGAAGGACCTTGGGCCCCCATGGTGGCCGACT
GGTTCGCTTCTACCCCCGGGCTGACCGGGTCTATGAGCGTCTGTCTGCGGGTAGAGCTCTATGGCTGCCCTCTGGAG
GGATGGACTCCTGTCTTACACCGCCCCCTGTGGGGCAGACAAATGATTTATCTGAGGCCGTGTACCTCAACGACTC
CACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGGCCAGCTGGCAGATGGTGTGGTGGGGCT
GGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATGACTATGTGGGATGGAGCAACCACAGCTT
CTCCAGTGGCTATGTGGAGATGGAGTTTGAGTTTGACCGGCTGAGGGCCTTCCAGGCTATGCAGGTCCACTGTAA
CAACATGGACACGCTGGGAGCCCGTCTGCCTGGCGGGGTGGAATGTGCTTCCGGCGTGGCCCTGCCATGGCCTG
GGAGGGGGAGCCCATGCGCCACAACCTAGGGGGCAACCTGGGGGACCCAGAGCCCGGGCTGTCTCAGTGCCCTT
TGGCGGGCGTGTGGCTCGCTTTCTGCAAGTCCGCTTCCCTCTTGGCGGGGCCCTGGTTACTCTTCAGCGAAATCTC
CTTCATCTCTGATGTGGTGAACAATTCCTCTCCGGCACTGGGAGGCACCTTCCCGCCAGCCCCCTGGTGGCCGCC
TGGCCACCTCCCACCAACTTCAGCAGCTTGGAGCTGGAGCCCAGAGGCCAGCAGCCCGTGGCCAAGGCCGAGGG
GAGCCCGACCGCCATCCTCATCGGCTGCCTGGTGGCCATCATCTGCTCTGCTGCTCATCATTTGCCCTCATGCT
CTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACCGGAGGGTGTGGAGAGGAGCTGACGGTTCACCT
CTCTGTCCCTGGGGACACTATCCTCATCAACAACCGCCAGGCTCCTAGAGAGCCACCCCGTACCAGGAGCCCCG
GCCTCGTGGGAATCCGCCCCACTCCGCTCCCTGTGTCCTCAATGGCTCTGCGTTGCTGCTCTCCAATGCCCTA
CCGCTCTCTTCTGGCCACTTACGCCCCGTCCCCCTCGAGGCCCCGGGCCCCCCCCACACCCGCTGGGCCAAACCCAC
CAACACCCAGGCCTACAGTGGGACTATATGGAGCCTGAGAAGCCAGGCGCCCCGCTTCTGCCCCACCTCCCA
GAACAGCGTCCCCCATTATGCCGAGGCTGACATTGTTACCCTGCAGGGCGTCACCGGGGGCAACACCTATGCTGT
GCCTGCACTGCCCCAGGGGCAGTCGGGGATGGGCCCCCAGAGTGGATTTCCCTCGATCTCGACTCCGCTTCAA
GGAGAAGCTTGGCGAGGGCCAGTTTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCT
TGATTTCCCCCTTAATGTGCGTAAGGGACACCCCTTGGTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCAA
GAATGCCAGGAATGATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTGGGCTGCT
GGGCGTGTGTGTCAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGCGACCTCAACCAGTTCCT
CAGTGCCACACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCCCTGGGGACGGGCAGGCTGCGCAGGGGCCACCAT
CAGTACCCAATGCTGCTGCTGATGTGGCAGCCAGATCGCCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGT
ACATCGGGACCTGGCCACGCGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGACTTTGGCATGAG
CCGGAACCTCTATGCTGGGGACTATTACCGTGTGAGGGCCGGGCAGTGCTGCCCATCCGCTGGATGGCCTGGGA
GTGCATCCTCATGGGGAAGTTACGACTGCGAGTGACGTGTGGGCCTTTGGTGTGACCCTGTGGGAGGTGCTGAT
GCTCTGTAGGGCCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTATCGAGAACGCGGGGGAGTTCTTCCGGGA
CCAGGGCCGGCAGGTGTACCTGTCCCGGCCGCTGCCTGCCCGCAGGGCCTATATGAGCTGATGCTTCCGTGCTG
GAGCCGGGAGTCTGAGCAGCGACACCCCTTTCCAGCTGCATCGGTTCTTGGCAGAGGATGCACTCAACACGGT
GTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGCGATCCAGGGGAAGCCAGTGACACTAAAACAAGAGGACA
CAATGGCACCTCTGCCCTTCCCCCTCCCGACAGCCCATCACTCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGG
GCCCACCCAGGGAGCTGATGCCCCCTTCTCCCTTCCCTGGACACACTCTCATGTCCCTTCCCTGTTCTTCCCTTCT
AGAAGCCCCCTGTGCCCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCCTCTTAGCCATCCCTTGGGGA
AGGGTGGGGAGAAATATAGGATAGACACTGGACATGGCCATTGGAGCACCTGGGCCCCACTGGACAACACTGAT
TCCTGGAGAGGTGGCTGCGCCCCCAGCTTCTCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGG
GTGAGGAGGACAAGAAGGAGAGGAAAATGTTTCCCTGTGCTGCTCCTGTACTTGTCTCAGCTTGGGCTTCTTC

4794/5332
FIGURE 4162B

CTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCAGTCACCCCCACTTCCCCTTGC
AGTCTTGTAGCTAGAACTTCTCTAAGCCTATACGTTTCTGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAG
CAACGGCCCATAGCCTTGGGGTTGGACAICTCTAGTGTAGCTGCCACATTGATTTTTCTATAATCACTTGGGGTT
TGTACATTTTTTGGGGGGAGAGACACAGATTTTTTACACTAATATATGGACCTAGCTTGAGGCAATTTTAATCCCCT
GCACTAGGCAGGTAATAATAAAGGTTGAGTTTTCCAC

4795/5332
FIGURE 4163

ACTTGGCCTTACACTCCGCTCGGCTCACCATGTGTCACTCTCGCAGCTGCCACCCGACCATGACCATCCTGCAGG
CCCCGACCCCGGCCCCCTCCACCATCCCGGGACCCCGGCGGGGCTCCGGTCTGAGATCTTCACCTTCGACCCTC
TCCCGGAGCCCGCAGCGGCCCTGCCGGGCGCCCCAGCGCCTCTCGCGGGCACCGAAAGCGCAGCCGCAGGGTTC
TCTACCCCTCGAGTGGTCCGGCGCCAGCTGCCAGTCGAGGAACCGAACCCAGCCAAAAGGCTTCTCTTTCTGCTGC
TCACCATCGTCTTCTGCCAGATCCTGATGGCTGAAGAGGGTGTGCCGGGCGCCCTGCCTCCAGAGGACGCCCCTA
ACGCCGCATCCCTGGCGCCCACCCCTGTGTCCCCCGTCCTCGAGCCCTTTAATCTGACTTCGGAGCCCTCGGACT
ACGCTCTGGACCTCAGCACTTTCCCTCCAGCAACACCCGGCGCCTTCTAACTGTGACTCCCCGCACTCCCCAAA
AGAATCCGAAAACACAAAGAAACACCAGGCGTACCTGGTGC GCGAGAGCGTATCCCCAACTGGGACTTCCGAG
GCAACTTGAATCAGAACACTACAGCGGAGACGCCACCCGGTGCTTGAGGCGGGACCGAGGCGCACAGAGACCGA
GGCGCATAGAGACCGAGGCACAGCCAGCTGGGGCTAGGCCCGGTGGGAAGGAGAGCGTCGTTAATTTATTTCTT
ATTGCTCCTAATTAATATTTATATGTATTTATGTACGTCCTCCTAGGTGATGGAGATGTGTACGTAATATTTATT
TTAACTTATGCAAGGGTGTGAGATGTTCCCCCTGCTGTAAATGCAGGTCTCTTGGTATTTATTGAGCTTTGTGGG
ACTGGTGGAAGCAGGACACCTGGAAGTGC GGCAAAGTAGGAGAAGAAATGGGGAGGACTCGGGTGGGGGAGGACG
TCCCGGCTGGGATGAAGTCTGGTGGTGGGTTCGTAAGTTTAGGAGGTGACTGCATCCTCCAGCATCTCAACTCCGT
CTGTCTACTGTGTGAGACTTCGGCGGACCATTAGGAATGAGATCCGTGAGATCCTTCCATCTTCTTGAAGTCGCC
TTTAGGGTGGCTGCGAGGTAGAGGGTTGGGGGTGGTGGGCTGTCACGGAGCGACTGTGAGATCGCCTAGTATG
TTCTGTGAACACAAATAAAATTGATTTACTGTCTGC

4796/5332
FIGURE 4164

AGCAACGGGGTGC GGCAGGGTGGGGAACGCGGGAGCGGGGCCAGCTCCCAGGAAAGCTGGTCTGCGAGCGGCCCC
TGCCCGGCTCCCAGGTCCCTGCGCGACCCCGCCCTTCCCGAGACCCAGCCGGGCTGCCGCCCCGCTCCCGGAAG
CTCCAGCCTGAACCATGTTTTTCACTTGTGGCCCAAATGAGGCCATGGTGGTCTCCGGGTCTGCCGAAGCCCCC
CAGTCATGGTGGCTGGAGGGCGTGTCTTTGTCCTGCCCTGCATCCAACAGATCCAGAGGATCTCTCTCAACACAC
TGACCCTCAATGTCAAGAGTGAAAAGGTTTACACTCGCCATGGGGTCCCATCTCAGTCACTGGCATTGCCCAGG
TAAAAATCCAGGGGCAGAACAAAGGAGATGTTGGCGGCCGCCTGTGAGATGTTCTGGGGAAGACGGAGGCTGAGA
TTGCCACATTGCCCTGGAGACGTTAGAGGGCCACCAGAGGGCCATCATGGCCACATGACTGTGGAGGAGATCT
ATAAGGACAGGCAGAAATTCTCAGAACAGGTTTTTCAAAGTGGCCTCCTCAGACCTGGTCAACATGGGCATCAGTG
TGGTTAGCTACACTCTGAAGGACATTACAGATGACCAGGACTATTTGCACTCTTTGGGGAAGGCTCGAACAGCTC
AAGTCCAAAAAGATGCACGGATTGGAGAAGCAGAGGCCAAGAGAGATGCTGGGATCCGGGAAGCTAAAGCCAAGC
AGGAAAAGGTGTCTGCTCAGTACCTGAGTGAGATCGAGATGGCCAAGGCACAGAGAGATTACGAACTGAAGAAGG
CCGCTATGACATCGAGGTCAACACCCGCCGAGCACAGGCTGACCTGGCCTATCAGCTTCAGGTGGCCAAGACTA
AGCAGCAGATTGAGGAGCAGCGGGTGAGGTGCAGGTGGTGGAGCGGGCCAGCAGGTGGCAGTGCCAGGAGCAGG
AGATCGCCCGGCGGGAGAAGGAGCTGGAGGCGCGGTGCGGAAGCCAGCGGAAGCGGAGCGCTACAAGCTGGAGC
GCCTAGCCGAGGCAGAGAAGTCCCACTAATTATGCAGGCGGAGGCAGAAGCCGCGTCTGTGCGGATGCGTGGGG
AAGCTGAGGCCTTTGCCATAGGGGCCCGAGCCCGAGCCGAGGCTGAGCAGATGGCCAAGAAGGCAGAAGCCTTCC
AGCTGTACCAAGAGGCTGCTCAGCTGGACATGCTGCTAGAGAAGCTGCCCCAGGTGGCAGAGGAGATCAGTGGTC
CCTTGACTTCAGCCAATAAGATCACACTGGTGTCCAGCGGCAGTGGGACCATGGGGGCAGCCAAAGTGACTGGGG
AAGTACTGGACATTCTAACTCGCCTGCCAGAGAGTGTGGAAGACTCACAGGCGTGAGCATCTCCAGGTGAATC
/ ACAAGCCTTTGAGAACAGCCTGAGCCCTTCAGCCCTCACAGATGCCAGCCTCATAGCTGAAGTTGCCTGAATGAT
CCTCCTGTTGCATGTAACCCACTGGCCTCCCTGAGCATGTCCATTGACAGTGAGGTCCCACCCCTCATCTCTCCT
TGCCAAATAGTTTGTGCCTTGTCTTGAAGGGGGTTGCTCCCTTGCCAACTCACACTGCTATGATTGCCAACTC
CAGCGGTCCCATGTGAGCCTTCTGATGATCCCACTCCACCCACCTCACTTATTTAACTTCCTAATTAAATCAG
ACTGTTTGAGCCTGTGTCTAGAATATTTTCTGACCAAGACTGAGGGATGGGCTGGAGGTTTTCAACTTTTGCTA
CCCAAATAAATTGCTGTAAGTAAGTACT

4797/5332
FIGURE 4165

CGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCT
TGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGG
TCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGCTGT
CTTCCGTGGTTCGGATGTCCATGAAGGAGGTCGATGAGCAGATGCTTAACGTGCAGAAACAAGAACAGCAGCTACTT
TGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCAC
CTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCG
GAAGGCCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAA
CGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCGA
AGAGGAGGCCTAAGGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCTT
TCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTTTTTGTCTTTCTTCTGGGGGGGTCTAGAACAG
TGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTTTGTTGAATGTCTCCTCTCTTTCCACTCTGGGAAACC
TAGGTTTCTGCCATTCTGG

4798/5332
FIGURE 4166A

AGATCATGGAGGACACCCAGGCTATTGACTGGGATGTTGAAGAAGAGGAGGAGACAGAGCAATCCAGTGAATCCT
TGAGGTGTAACGTGGAGCCAGTAGGGCGGCTACATATCTTTAGTGGTGCCCATGGACCAGAAAAAGATTTCCAC
TACACCTCGGGAAGAATGTGGTAGGCCGAATGCCTGACTGCTCTGTGGCCCTGCCCTTTCCATCTATCTCCAAAC
AACATGCAGAGATTGAAATCTTAGCCTGGGACAAGGCACCTATCCTCCGAGACTGTGGGAGCCTTAATGGTACTC
AAATCCTGAGACCTCCTAAGGTTTTGAGCCCTGGGGTGAGTACCGTCTGAGGGACCAGGAATTGATTCTCTTTG
CTGACTTGCTCTGCCAGTACCATCGCCTGGATGTCTCTCTGCCCTTTGTCTCCCGGGGCCCTCTGACAGTAGAAG
AGACACCCAGAGTACAGGGAGAACTCAACCCAGAGGCTTCTGTTGGCTGAGGACTCGGAGGAGGAAGTAGATT
TTCTTTCTGAAAGGCGTATGGTAAAAAATCAAGGACCACATCTTCTCTGTGATAGTTCCAGAGAGTGATGAAG
AGGGGCATTCCCCGGTCTGGGCGGCCTTGGGCGGCCTTTTGCTTCAATTTGAACAGTGACACAGATGTGGAAG
AAGGTCAGCAACCAGCCACAGAGGAGGCTCCTCAGCTGCCAGAAGAGGTGCCACTGTAGAGGCAAAGCAGTCTG
AAGCTAAAGTTGTAAC TGAAATCCAGCTTGAAGAGGATCAGCCTTAGTGAAGGAGAGGGACAATGATACAAAAG
TCAAGAGGGGTGCAGGGAATGGGGTGGTTCCAGCTGGGGTGATTCTGGAGAGGAGCCAACCTCCTGGAGAGGACA
GTGACACAGATGTGGATGATGACAGCAGGCCTCCTGGAAGGCCAGCTGAGGTCCATTTGGAAAGGGCTCAGCCTT
TTGGCTTCATCGACAGCGACACTGATGCGGAAGAAGAGAGGATCCAGCAACCCAGTTGTCATTCTATGAAGA
AGAGGAAGATCTTCCATGGAGTAGGTACAAGGGGGCCCTGGAGCACCAGGCCTGGCCCATCTGCAGGAGAGCCAGG
CTGGTAGTGATACAGATGTGGAAGAAGGCAAGGCCCCACAGGCTGTCCCTCTGGAGAAAAGCCAAGCTTCCATGG
TTATCAACAGCGATACAGATGACGAGGAAGAAGTCTCAGCAGCGCTGACTTTGGCACATCTGAAAGAGAGCCAGC
CTGCTATATGGAACAGAGATGCAGAAGAGGACATGCCCAACGTGTGGTCTTCTGCAGCGAAGCCAAACACCA
CTGAGAGAGACAGTGACACAGACGTGGAGGAGGAAGAGCTCCCAGTGGAATAAGAGAAGCTGTCTCAAGGATC
ACACAAAGATTAGAGCCCTTGTTAGAGCACATTAGAAAAGGACCAACCTCCTTTTGGGGACAGTGATGACAGTG
TGGAAGCAGATAAGAGCTCACCTGGGATCCACCTGGAGAGAAGCCAAGCCTCCACCACAGTGGACATCAACACAC
AAGTGGAGAAGGAAGTCCCGCCAGGGTCAGCCATTATACATATAAAGAAGCATCAGGTGTCTGTGGAGGGGACAA
ATCAAACAGATGTGAAAGCAGTTGGGGGACCAGCAAGCTGCTTGTGGTATCTCTAGAGGAAGCCTGGCCTCTGC
ATGGGGACTGTGAAACAGATGCAGAGGAGGGCACCGCCCTAACAGCCTCAGTAGTTGCAGATGTAAGAAAGAGCC
AGCTTCCAGCAGAAGGGGATGCTGGGGCAGAGTGGGCTGCAGCTGTTCTTAAGCAGGAGAGAGCTCATGAGGTGG
GGGCCAGGGTGGGCCACCTGTGGCACAAGTGGAGCAGGACCTCCCTATCTCAAGAGAGAACCTCACAGATCTGG
TGGTGGACACAGACTCTAGGGGAATCCACCCAGCCACAGAGAGAGGGAGCCAGGTCCCCACAGGAAGGGAGA
GAGAACAACTGTTGGGTGGGACCAAGGACTCTGAAGACAATATGGTGATTCTGAAGATCTGGACCTACAAGCTA
CCCAGTGCTTTCTGGAGAATCAGGGCCTGGAAGCATGCCAGAGCATGGAGGATGAACCTACCCAGGCCTTCATGT
TGACTCCACCCCAAGAGCTTGCCCTTCCCATTGCAGTTCAGACAACAGGTACCCTAGATGAACCATGGGAGG
TCCTGGCTACACAGCCATTCTGTCTGAGAGAGTCTGAGGACTCTGAGACCCAGCCTTTTGACACGCACCTTGAGG
CCTATGGACCTTGCTTCCACCTAGGGCAATACCAGGAGACCAACATCCAGAGAGCCAGTTTACACAGAGC
CAATGGGGATTCAAGGCAGAGGGAGGCAGACTGTGGATAAAGTCATGGGTATACCAAAGAAACAGCAGAGGG
TGGGCCCTGAGAGAGGGCCATTGGAGAGAGAACTGAGAACTGCTACCAGAAAGACAGACAGATGTGACAGGAG
AGGAAGAATTAACCAAGGGGAAACAGGACAGAGAAACAAAAACAGTTGTTAGCTAGAGACACCCAGAGACAAGAAT
CTGACAAAAATGGGGAAGTGCAAGTCTGAAAGAGATAGGGAGAGTTTGAAGGTAGAAATTGAGACATCTGAGG
AAATACAAGAGAAACAAGTACAGAAGCAGACCCTTCCAAGCAAAGCATTGAGAGAGAAGTAGAGAGACCAGTAG
CAAACAGAGAGTGCGATCCAGCCGAGTTAGAAGAGAAGGTGCCCAAAGTGATCCTGGAGAGAGATACACAGAGAG
GGGAGCCAGAGGGAGGGAGCCAGGACCAGAAAGGGCAGGCCTCCAGCCCAACACCAGAGCCTGGGGTGGGGGCGG
GGGACCTTCCGGGACCTACCTCAGCCCCGTACCTTCTGGGAGCCAGTCAGGTGGAAGGGGATCCCCAGTGAGCC
CCAGGAGGCATCAGAAAGGCCTCCTGAATTGCAAGATGCCACCTGCTGAGAAGGCTTCCAGGATCAGAGCTGCTG
AGAAGGTTTCCAGGGGCGATCAGGAATCTCCAGATGCTTGTCTGCCTCTACAGTACCTGAAGCCCCAGCCCCAC
CCCCAAAGCCCCCTTAATCTCAGAGCCAGAAACATCTTGACCTCCGCCCCCTTCTTTCTCCCTTTTACCTTCTA
TCAAGCCAACCGTTTCTGTAAGACCAGGCAAGATGGGAGTCAGGAAGCTCCAGAGGCTCCCTTGTCTCAGAGCTGG
AGCCTTTCCACCCAAAGCCTAAAATTAGAAGTCCGGAAGTCTCCAGAATGACACCCTTTCCAGTACCTCTGCTG
CCCCTGAGCCCCACCTTCCACCTCCACAGCCAGCCAGTCACTCCCAAGCCCACATCTCAGGCCACTAGGAGCA
GGACAAATAGGTCTCTGTCAAGACCCCTGAACCAGTTGTCCCCACAGCCCCCTGAGCTCCAGCCTTCCACCTCCA
CAGACCAGCCTGTACCTCTGAGCCACATCTCAGGTTACTAGGGGAAGAAAAGTAGATCCTCTGTCAAGACCC

4799/5332
FIGURE 4166B

CTGAAACAGTTGTGCCACAGCCCTTGAGCTCCAGCCTTCCACCTCCACCGACCGACCTGTACCTCTGAACCCA
CCTCTCAGGCTACTAGGGGAAGAAAAATAGATCCTCTGTCAAGACCCCTGAACCAGTTGTCCCCACAGCCCTG
AGCTCCAGCCTTCCACCTCCACAGACCAGCCTGTCACTTCTGAGCCACATATCAGGCTACTAGGGGAAGAAAA
ATAGATCCTCTGTCAAGACCCCTGAACCAGTTGTGCCACAGCCCTGAGCTCCGGCCTTCCACCTCCACAGACC
GACCTGTACCCCCAAGCCCACATCTCGGACCACTAGGAGCAGGACAAATATGTCCTCTGTCAAGACCCCTGAAA
CAGTTGTCCCCACAGCCCTGAGCTCCAGATTTCCACCTCCACAGACCAACCTGTACCCCTAAGCCCACATCTC
GGACCACTAGGAGCAGGACAAATATGTCCTCTGTGAAGAACCCTGAATCAACTGTCCCTATAGCCCTGAGCTCC
CACCTTCCACCTCCACAGAGCAGCCTGTACCCCTGAGCCACATCTCGGGCTACTAGGGGAAGAAAAATAGAT
CCTCTGGCAAGACCCCTGAAACACTTGTCCCCACAGCCCTAAGCTCGAGCCTTCCACTTCCACAGACCAACCTG
TCACTCCTGAGCCACATCTCAGGCCACCAAGGGGAGGACAAATAGGTCTCTGTGAAGACCCCTGAAACAGTTG
TCCCCACAGCCCTGAGCTCCAGCCTTCCACCTCCACAGACCAGCCTGTTACCCCTGAGCCTACGTCTCAGGCTA
CTAGGGGAAGAACAGATAGATCCTCTGTCAAGACTCCTGAAACAGTTGTCCCCACAGCCCTGAGCTACAGGCTT
CCGCTTCCACAGACCAGCCTGTCACTCTGATCCACATCTCGGACCACTAGGGGAAGAAAAATCGGTCTCTG
TCAAGACCCCTGAAACAGTTGTGCCCGCAGCCCTGAGCTCCAGCCTCCACCTCCACAGACCAACCTGTACCC
CTGAGCCACATCTCGGGCCACTAGGGGAGGACAAATAGGTCTCTGTCAAGACCCCTGAATCAATTGTCCCTA
TAGCCCTGAGCTTCAGCCTTCCACCTCCAGAAACAGCTTGTACCCCTGAGCCACATCTCGGGCCACTAGGT
GCAGGACAAATAGGTCTCTGTCAAGACCCCTGAGCCAGTTGTCCCCACAGCCCTGAGCCCATCTTACCACCT
CCACAGACAGCCTGTACCCCCAAGCTCACATCTAGGGCCACTAGGAGAAAGACAAATAGGTCTCTGTCAAGA
CTCCCAAACAGTTGAACCAAGCAGCCTCTGATCTTGAGCCTTTACCCCCACAGACAGTCCGTACCCCTGAGG
CCATAGCTCAGGGTGGTCAGAGCAAAACACTAGGTCTTCCACAGTAAGAGCTATGCCGTTTCTACCACCCCTG
AATTCCAATCTCTGTCAACCACAGACCAGCCTATTTCCCTGAGCCTATTACTCAACCCAGTTGCATCAAGAGGC
AGAGAGCCGCTGGGAACCCCTGGCTCCCTCGCAGCTCCCATGACCATAAGCCTTGCTCTGCACCCCTGGAACCTA
AATCCAGGCCTCAAGGAACCAAGATGGGGAGCAGTGAGAGCAGCTGAATCCCTTACAGCCATTCTGAGCCTG
CCTCTCCCCAGCTTCTTGAGACACCAATTATGCCTCCAGATCCAAAAGGTGGAACAGCAGGTAGATCTAGGT
TCACCCCGGAGCTCCAGCCTAAGGCCTCTCAAAGCCGCAAGAGGTCTTTAGCTACCATGGATTACCACCACATC
AAAAACAGCCCCAAAGAGGGGAAGTCTCCAGAAGACAGTGATTATCAAGGAAGAGGAAGAAGATACTGCAGAGA
AGCCAGGGGAAGGAAGAGGATGTCTGACTCCAAAACCAGGCAAGAGAAAGAGAGACCAGGCAGAGGAGGAGCCCA
ACAGAATACCAAGCCGACGCTCCGACGGACCAAACCTTAACCAAGAATCAACAGCCCCCAAAGTGCTCTTCACAG
GAGTGGTGGATGCTCGGGGAGAGCGGGCTGTGCTGGCACTGGGGGGAAGTCTGGCTGGTTCAGCGGCAGAGGCTT
CCCACCTGGTCACTGATCGCATCCGCCGACAGTCAAGTTCTGTGTGCCCTGGGGCGGGGAATCCCCATTCTGT
CCCTGGACTGGCTGCATCAGTCCCGCAAGGCTGGTTTCTTCTTACCCCGGATGAATATGTGGTGACCGACCCTG
AGCAAGAGAAGAACTTTGGCTTTAGCCTTCAAGACGCACTGAGCAGGGCTCGGGAGCGAAGGCTGTAGAGGGCT
ATGAGATCTATGTACCCCTGGAGTCCAGCCACCACCACCTCAGATGGGAGAGATTATTAGCTGCTGTGGAGGCA
CATACCTACCCAGCATGCCTCGGTCTATAAGCCTCAGAGAGTTGTGATCACATGCCCTCAGGACTTCCCTCATT
GCTCCATTCCACTACGGGTTGGGCTGCCCTCTCTGCCTGAGTTCTGTGCTGACTGGAGTGTGAAGCAGGAAG
CCAAGCCAGAGGCCCTTGTCTCTCCCTTTGGAGATGTCATCCACCTGAGAACTCCACTACCCTTTTCCCTCCC
AGACCACGAATTAGAAGATATGTGGAAGAAAGAACTCAGGGCGTTAGAAAGGATTGGGGTATATTGATACAACCT
GTCCTGGAACATGGGTGGGACCAGAAATCTTTATGAATAAATGAAAAGATAAGGGATTGGAAGCCACAGGTTGT
TTTTGTTTGTGTTTGTGTTTTTTTAAATGGCCATTTTATTTATTTGATTTATAGTTTTTTATTTGTATAGATT
TAGGGGATACAAGATTTCTTACATGCATGTATTAAATGGCCATTTTAAAATTAGCTAGTTTCATGCTCAGATGTC
ATAAGTGCGAGCTATCTTTAGCCAGACTGTTGCAGTTATTGCTCGATGCCACTCATGGTGTCTTACCTCCTATTT
GGAAACCATCTCTATTTTTTTCTTACTGAGATTCTTACTTTGGGGTCAGGAACCTTGAAGGGATGCTTGGAGTGAG
TAGATTTGAGGGTCCAGTTATGGAGTGCTACTAAACATTTTCTTCTCTCTGCGCTCTGGAAGCATCTTTAGCT
TTGACTTTGGGCAAGTCTCTGTACTTTTCTGGCCAGCTTTTCCAGGATTTATAAAATTAGAGCTTCGGCTTGACC
TCTGTGATAAATAAATATTCACTCTGTGCCTT

4800/5332
FIGURE 4167

ATGGCCCCCTGCACTGCTCCTGATCCCTGCTGCCCTCGCCTCTTTCATCCTGGCCTTTGGCACCGGAGTGGAGTTC
GTGCGCTTTACCTCCCTTCGGCCACTTCTTGAGGGGATCCCGGAGTCTGGTGGTCCGGATGCCCCGCCAGGGATGG
CTGGCTGCCCTGCAGGACCGCAGCATCCTTGCCCCCTGGCATGGGATCTGGGGCTCCTGCTTCTATTGTTGGG
CAGCACAGCCTCATGGCAGCTGAAAGAGTGAAGGCATGGACATCCCGGTACTTTGGGGTCCTTCAGAGGTCACTG
TATGTGGCCTGCACTGCCCTGGCCTTGCACTGGTGTATGCGGTACTGGGAGCCCATACCCAAAGGCCCTGTGTTG
TGGGAGGCTCGGGCTGAGCCATGGGCCACCTGGGTGCCCCCTCCTCTGCTTTGTGCTCCATGTCATCTCCTGGCTC
CTCATCTTTAGCATCCTTCTCGTCTTTGACTATGCTGAGCTCATGGGCCTCAAACAGGTATACTACCATGTGCTG
GGGCTGGGCGAGCCTCTGGCCCTGAAGTCTCCCCGGGCTCTCAGACTCTTCTCCACCTGCGCCACCCAGTGTGT
GTGGAGCTGCTGACAGTGTGTGGGTGGTGCCTACCTGGGCACGGACCGTCTCCTCCTTGGCTTTCTCCTTACC
CTCTACCTGGGCCTGGCTCACGGGCTTGATCAGCAAGACCTCCGCTACCTCCGGGCCCAGCTACAAAGAAAACCTC
CACCTGCTCTCTCGGCCCCAGGATGGGGAGGCAGAGTAGAGGAGCTCACTCTGGTTACAAGCCCTGTTCTTCTCT
CCCGCTGAATTCTAAATCCTTAACATCCAGGCCCTGGCTGCTTCATGCCAGAGGCCCAAATCCATGGACTGAAGG
AGATGCCCCCTTCTACTACTTGAGACTTTATTCTCTGGGTCCAGCTCCATACCCTAAATTCTGAGTTTCAGCCACT
GAACTCCAAGGTCCACTTCTCACCAGCAAGGAAGAGTGGGGTATGGAAGTCATCTGTCCCTTCACTGTTTAGAGC
ATGACACTCTCCCCCTCAACAGCCTCCTGAGAAGGAAGGATCTGCCCTGACCACTCCCCTGGCACTGTTACTTG
CCTCTGCGCCTCAGGGGTCCCCTTCTGCACCGCTGGCTTCCACTCCAAGAAGGTGGACCAGGGTCTGCAAGTTCA
ACGGTCATAGCTGTCCCTCCAGGCCCAACCTTGCTCACCCTCCCGGCCCTAGTCTCTGCACCTCCTTAGGCC
CTGCCTCTGGGCTCAGACCCCAACCTAGTCAAGGGGATTCTCCTGCTCTTAACTCGATGACTTGGGGCTCCCTGC
TCTCCCGAGGAAGATGCTCTGCAGGAAAATAAAAGTCAGCCTTTTTCTAC

[illegible]

4802/5332
FIGURE 4168B

CTGCCCTCCTCCCTTGACCACAGCCTGGTTTACAAATTCCATCAGCTCCCAGCCCCACCTGCCAAAGTCCCAGGTT
TACAAGCCACGCTTACTTGCTGTGTCTGCGTGGAATTCTCTCCTCTGTCCCCTCCAGTCTCCTCATTGGAGTGAC
CTGAAGGTGTGGCTTCCTCCACTTTTTCTCAGTATTACTTTGCCTTAGTTTTCCCCAAGAGGGAAGGCTGGA
CTTAACTCTGTACCCCTTGATAGTTATTTAATTCTGTTTCTCCTAGTGGTTCACAATTGAACTGAATTGAGATGG
TGTCGGGTGGCTAAGGAGACACCTCACCTCTCCTTCCCCATTGTGCCGCCTTTATCAATTGCCTGTTTTGTTTTG
TTTGTTTTTTAACTTTCCATAATAAAATGGAGTTCTCTTC

4803/5332
FIGURE 4169

GTCGGAAGATCCTAGAGGTCCCAAGGTAGCTGACTTGCGAAGCTGAGGCTCCAGCCGAGGGCTCCAGGCCTCTGA
CCGGCCAGCAGTGAAGCGGGCTGCCCCACGCTTCAGGGCCGGGAGCAGGGAGCGTGAGTCGCCATGGCGACGCC
GGCGGGTCTGGAGCGCTGGGTTTACAGGACGAGCTGCACTCGGTGTTGGGGCTGAGCGAGCGGCACGTGCCCCAGTT
TCTGATCGGTACCGCACAGCGCTGCACCTCTGCCGAGGAGTTCGTGCAGCGCCTACGAGACACTGATACCTTGGA
TCTCAGTGGGCCGGCCCCGGGACTTCGCCCTGAGACTCTGGAACAAGGTACCACGAAAGGCAGTGGTAGAAAAGCC
AGCTCGGGCAGCAGAGCGAGAGGCCCGGGCCCTGCTGGAGAAGAACCGATCTTATAGGTTACTGGAAGACAGTGA
AGAGAGCAGTGAGGAGACTGTGAGTAGGGCTGGAAGCAGCCTCCAGAAGAAACGTAAGGCGGAAACACCTCAG
GAAGAAGCGTGAGGAAGAAGAGGAGGAAGAGGCTTCTGAGAAAGGGAAGAAGAAACAGGGGGGAGTAAACAGCA
GACAGAGAAGCCAGAGTCGGAAGATGAGTGGGAACGGACAGAGCGTGAACGCCTTCAGGACCTGGAGGAGCGTGA
TGCCTTTGTGAGCGGGTTCGACAGCGGGACAAGGATCGGACTCGAAATGTCTTGGAACGGTCAGACAAGAAGGC
TTATGAAGAGGCTCAGAAGCGCCTCAAGATGGCCGAGGAAGACCGGAAGGCCATGGTCCCTGAGCTGCGGAAGAA
ATCTCGCCGAGAGTACCTGGCTAAGCGGGAGCGAGAGAAGCTTGAGGACCTGGAGGCGGAGCTGGCTGATGAGGA
GTTCCTTTTTGGGGACGTGGAGCTGAGCCGGCAGAGCGGCAGGAGCTCAAATATAAGCGGCGAGTGGCGGATCT
CGCCCGGAGTACCGGGCAGCTGGGGAGCAGGAGAAGCTTGAGGGCCACCAATCGTACCACATGCCAAAGGAAAC
CCGAGGACAGCCAGCCCGAGCTGTGGATCTAGTGGAGGAGGAATCAGGAGCCCTGGGGAGGAGCAGCGGCGCTG
GGAGGAGGCGCGGCTTGGGGCAGCGTCCCTGAAGTTTGGGGCCCGAGATGCTGCCCTCAGGAGCCCAAGTATCA
ACTGGTGTGGAGGAGGAGGAGACCATTTAGTTTGTCCGGGCCACTCAGCTCCAGGGTGATGAGGAGCCGTGAGC
TCCACCCACTTCAACTCAGGCCACGAGAAAGATCCATCCAGCCGTCGCGCGAGCTCCCGGTGTTCCCAT
TCGAGAGGAGCTCCTGGCTGCTATTGCAAATCACCAGTCCCTCATCATTGAAGGCGAGACAGGCTCAGGGAAGAC
CAGGAGATCCCGCAGTATCTCTTTGAGGAGGGTTATACAAACAAGGGTATGAAGATTGCCTGCACCCAAACCCG
GAGAGTGCTGCCATGAGTGTGGCCGCCGAGTGGCCCCGGGAGATGGGTGTGAAGCTTGGGAATGAGGTTGGCTA
CAGCATCCGCTTTGAGGACTGCACATCAGAGCGAACTGTCTCCGCTACATGACAGATGGGATGCTTCTCCGGGA
GTTCTCTCTGAGCCTGACCTGGCGAGTTACAGCGTGGTGATGGTGGATGAGGCACACGAAAGGACCCTACACAC
AGACATTCTCTTTGATTGATCAAGGATGTTGCTCGCTTCCGACCTGAGCTCAAGGTCTGGTGGCTTCAGCCAC
AATGGACACTGCCCCGTTTTTCCACCTTCTTTGATGACGCCCCCTGTGTTTGAATCCCCGGACGCAGGTTTCTGT
GGACATCTTCTACACCAAGGCTCCAGAGGCTGACTACTTGGAAGCTTGTGTAGTATCTGTGTTGCAGATCCATGT
GACCCAGCCCCCTGGGGATATCTGGTGTCTGACAGGACAGGAGGAGATTGAGGCTGCCTGTGAGATGCTCCA
GGATCGCTGCCGCCGCTGGGCTCCAAATCCGGGAGCTCCTGGTGTGCTGCCATTTATGCCAATCTGCCCTCTGA
CATGCAGGCCCGTATCTTCCAGCCACACCACCTGGGGCAGAAAGGTGGTGTGGCAACGAACATTGCTGAGAC
ATCACTCACCATTGAGGGCATCATTTATGTGCTGGATCCAGGGTTCTGTAAGCAGAAGAGCTACAACCCCGCAC
AGGCATGGAATCGCTCACTGTACACCCCTGCAGCAAGGCCTCAGCCAATCAGCGAGCTGGCAGGGCAGGTGGGT
GGCTGCAGGGAAGTGCTTCCGCTGTATACCGCTGGGCCTATCAGCACGAGCTTGAGGAAACCACAGTGCCTGA
GATCCAGAGGACCAGCTTGGGCAATGTCGTGTTGCTGCTCAAGAGCTTAGGGATCCATGACCTAATGCACTTTGA
TTCTCTGGACCCCTCCACCATATGAGACACTGCTGCTGGCTTTGGAGCAGCTGTATGCTCTGGGAGCCCTCAACCA
CCTTGGGGAGCTCACCACGTCTGGTCAAAAGATGGCAGAGCTGCCGGTGGACCCATGCTGTCCAAATGATCTT
AGCCTCTGAGAAGTACAGCTGTTAGAGGAGATCCTGACAGTGGCTGCCATGCTCTGTGCAACAACCTCCATCTT
CTACCGACCAAAGGACAAGGTCGTCCATGCTGACAATGCCCGTGTCAACTTCTTTCTCCCTGGCGGTGACCACCT
GGTTCTGCTAAATGTTTACACACAGTGGGCTGAGAGTGGTTACTCTTCCAGTGGTGCTATGAGAAGTTTGTACA
GTTAGATCGATGCGCCGAGCCCGGGATGTGCGGGAACAGCTGGAAGGGCTCTTGAACGTGTGGAAGTTGGTCT
CAGTTCTGCCAGGGGGACTATATCCGTGTACGCAAGGCCATCACTGCTGGTTACTTTTACCACACGGCAGCGTT
GACTCGGAGTGGCTACCGCACAGTGAACAGCAGCAGACAGTCTTCAATTCATCCCAACTCCTCCCTCTTTGAGCA
ACAGCCACGCTGGCTGCTCTACCAGAACTTGTCTTGACCACCAAGAGTTTATGAGACAGGTACTGGAGATTGA
GAGCAGTTGGCTTCTGGAGGTGGCTCCCCATTATTATAAGGCCAAGGAGCTAGAAGATCCCCATGCTAAGAAAAT
GCCCAAAAAATAGGCAAAACACGAGAAGAGCTAGGGTAAGAGAAGGACGTAACAGAACCTGACACCAGCTCCT
TTCTCTTCTATACATTATTTAATACCTATTAAATAAAATTATTTTTGGAATAAAGCTTGTGGGAACATTTGGGAT
CT

4804/5332
FIGURE 4170

CTTCACGAAGCCGGCTCTGGGGCGCGCTCACCCCTGTGAGGAGGCCGGAGGTCGGACTCAGGAGGCTCCTTCTCC
ACTCCCGGAAGATCATGTACCAGCCCAGCCGGGGTGCGGCCCGGCGTCTCGGCCCTTGCCCTGCGCGCCTACCAGG
CTCGACCCCAGGACCAGCTTTATCCAGGGACTCTACCATTCCCACCCCTTTGGCCCCACTCCACGACAACCACTT
CCCCATCTTCTCCTCTATTCTGGTCTCCCCTGCCCCACGCCTTCCCACCCAGCGTCTTCCCCAGGTTCCCCAC
TACCTCTCCCTCAGATCCAGGCCCTCAGCTCAGCATGGGTGGTCTCCCTCCAGGAAAGGGGGAGGAGGGACCAG
GACCTGAGTTGCATAGCGGCTGCCTGGATGGGCTTAGAAGCCTTTTTGAGGGACCTCCCTGCCCCCTATCCTGGGG
CTTGATACCTTTCCAAGTCCCTGGAAGTGGCCACCCTTCCCCTGCCACCCCGTCAGGAGATCCTAGTATGGAGG
AACATCTGTCTGTATGTATGAGAGACTGAGACAAGAGCTTCCAAGCTCTTCCTTCAGTCCCACGACTACAGTC
TGTATTCTTGATGTGGAATTCATCAATGAGATCCTCAACATACGTACCAAGGGCCGGACATGGTACATTCTTT
CACTGACCCTCTGCCGTTTCCTGGCCTGGAATTATTTGCACACCTTCGTTTGGAGGTTTTACAGCTGACCCGCC
ACCCTGAGAACTGGACCCTGCAAGCCCGGTGGCGGCTTGTGGGGCTGCCCGTCCACTTGCTCTTTTTCGGTTCT
ACAAGCGTGACAAAGACGAGCATTACCGGACCTATGATGCCTACTCCACTTTCTACCTGAATTCCAGTGGCCTCA
TTTGTGCGCATCGTCTAGATAAACTGATGCCTTCACACTCACCTCCAACGCCTGTGAAGAAGCTGCTAGTGGGAG
CCCTGGTGGCCCTGGGGCTGTCAGAGCCAGAACCTGACTTAAACCTGTGTTCGAAGCCCTGATCCTTGACCTTGG
AGTGGAGGCAGCACTGAAGACTGCTACGCCCAAGAGAAGGAGGTGGAGGCAGCCAAGAATCTCAGGAGCCAGCTT
CCTCTCCTCGTTTCTCTCCTTCCTTTCCATCTCATGCTGTGTAAAGCTGCTGTGTAATTTAACTTGTAAT
AATAAAGTTTAACTGACTATATG

4805/5332
FIGURE 4171

GCCTTTCCGTCAATTCCTGTCTGGGCGTACGTCAAGATGGCGGCGTCTGTATTAAACACCGTGCTGAGGCGGCT
TCCTATGCTATCTCTCTTCCGAGGTTCTCACAGAGTTTCAGGTTCCCCGCCAGACTCTTTGCACCAAAGCTCCCTC
TGAGGAAGATTCTTTGTCTCAGTTCCCATTTCTCCTTATAAGGATGAGCCCTGGAAATATCTGGAATCAGAAGA
ATACCAGGAGCGATATGGTTCTCGCCCCGICTGGGCTGACTACCGCCGCAACCACAAGGGTGGTGTACCCCCACA
GCGGACTCGGAAGACATGTATTCGTGGAATAAAGTTGTTGGGAATCCCTGCCCATCTGTGAGATCACAAGTT
GCATGTTGACTTTAGGAACGTGAAGCTCTTGGAGCAATTTGTCTGCGCCACACGGGTATCATCTTCTATGCTCC
ATACACAGGAGTCTGTGTGAAGCAGCACAAAGCGGTTGACCCAGGCCATCCAGAAAGCCAGGGATCATGGTCTCCT
CATTTACCACATCCCCCAGGTTGAACCACGGGACCTTGACTTCAGTACCTCTCATGGGGCTGTGAGTGCTACTCC
GCCAGCCCCCACCCTGGTCTCAGGTGACCCCTGGTACCCATGGTACAACCTGGAAACAGCCACCGGAGAGAGA
GTCTCGCCTTCGCCGGCTTTACCAGGGTCATCTCCAAGAAGAGAGTGGCCCCCACCTGAGTCAATGCCCAAGAT
GCCCCCTAGAACACCAGCGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAGGAGCTGTAGAC
TGGGAAGAGAGGCCAGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAAGCCAAGGTGGGCTGATCACT
TGATCCCAGGAGTTTGAGACCAGCCTGGGCACCATGGTGAAACCTCGTCTTTACCAAAAAATACAAAAATTAGCT
GGGTGTGGTGGTGCACACCTGTAGTCTCAACTATTGGGGAGGCTAAGGTAGGATCACTTGATCCCAGGAGGCGGA
GGTTGCAGTGAGTTGCAGTCACACCCCTGCACTCCAGCCTGGGTGACAGCTAGACCCTGTCTCAAAAAAAAAA
AAAGACTGGGAAGAGAGCTAGAGGGACTAGGAGATAATGTGTATGTAGGTTTATGTGATGGGATATCACCTGAA
GAGTTGTGTCTTTTGTGGCCAGTGACAAATCCAGGAAATGAATGTTGCTGATAGGGATAAATCTTGAGGCTGAGG
GCGGGTGGTACAGATGTGTATGGGAAACCCCAACCCCTATATATTGTAAATAGATGGGCTGGGCTAAACATTGTT
GCCGTTTCATACTTCTACCAACTCAGCTTTTACACAATAAAGCTCTACTGTCTCTGG

4806/5332
FIGURE 4172A

AGGTTTGAATTTTCTCGGAGAAAGACAGGCCGGCCACGAGGAAAAACAGAAACAAGCCGCAGCAACATCTAAGCCC
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAAACAGCAGCCACCAGCCCCAACCCTTGTGTCTTCTGCCCCCTT
CCCACCTATCTTGCCCAACCCACCAGCCACGCTGCTTGGGACTTGAAATCTGTGGCCGAAGGACCGTCACTACA
TAACCTTCAAAAATAATCAACCACCCCTCCCTTCCCAAACCAACCAATTCATCTCATCCAGCGTTTACTTTTTTGAA
TCCACTCAGAACTTTTTTCTGCGACCCCCCTCCCTAAATGGAGTTGGGTGGGGGGGAAATGAATACTGAGTTGGC
CTTTATTTTTTTAAAGACTTTTTGATCCAATGAGGCCCTTAAATAATTGAGTTTTGGGTCTCGTTGGTTGTTT
TATTTTTTTTTCTCCAAATTTTACCCCCCTCCCCCTGAGCCCGAGGTGCTGACGTCGCAAAAAAATTGGATAAA
ACCACCATCATGGGTTCTGGGTCCCATAGACCCCAAGAACTTCTCAAGGGCCTGGACAGCTTCCCTAACCGAGAT
GGGGAAGTCAAAAGTGTGGATGGGATTTCCAAGATCTTCAGTTTATGAAGGAAGCACGAAAGATGGTGAGTCGA
TGCACTTACTTGAACATTCTCTGCAGACCCGTTACCCAGAAATATTGGTCAAATTTATTGACGTTGGCGGCTAC
AAACTTCTTAACAATTGGCTGACGTATTCAAAGACAACCAACAACATTCCCCTCCTCCAGCAAATTCTACTGACC
CTGCAGCATCTACCGCTCACTGTAGACCATCTCAAGCAGAACACACAGCTAAACTGGTGAAGCAGCTGAGCAAG
TCAAGTGAGGATGAAGAGCTCCGGAATTTGGCCTCAGTCTTGTGAGCGACTGGATGGCTGTCATCCGCTCTCAG
AGCAGTACCCAGCCTGCTGAGAAAGATAAGAAGAAACGTAAAGATGAAGGAAAAAGTCGAACTACCCCTCCTGAG
CGACCTTTGACAGAGGTGAAGGCTGAGACCCGGGCTGAGGAGGCCCCAGAGAAGAAGAGGGAGAAGCCCAAGTCT
CTTCGCACCACAGCACCCAGTCATGCCAAGTTCCGTTCCACTGGACTAGAGCTGGAGACACCATCCTTGGTGCCT
GTGAAGAAGAATGCCAGCACAGTGGTGGTTTCTGACAAGTACAACCTTAAACCCATCCCCCTCAAACCTCAGAGC
AACGTAGCTGCTCCAGGAGATGCCACTCCCCCTGCAGAGAAGAAATACAAGCCACTCAACACAACACCTAATGCC
ACCAAAGAGATCAAAGTGAAGATCATCCCGCCACAGCCTATGGAGGGCCTGGGCTTTCTGGATGCTCTTAATTCA
CCCCCTGTTCCAGGCTCAAAATTAAGAAGAAAAAAAAGTACTGTACCTACGGCTGCCAAGCCAAGCCCCCTT
GAAGGGAAAAACGAGCACAGAACCAAGCACAGCCAAACCTTCTTCCCCAGAACCAGCACACCCTTCTGAGGCAATG
GACGCAGACCGTCCAGGCACCCCGGTTCCCCCTGTTGAAGTCCCGGAGCTCATGGATACAGCCTCTTGGAGCCA
GGAGCTCTGGATGCCAAGCCAGTGGAGAGTCTGGAGATCTTAACCAACTGACCCGGAAGGCAGGAAGAGGAAA
AGTGTGACATGGCCTGAGGAAGGCAAACTGAGAGAATATTTCTATTTTGAATTGGATGAACTGAACGAGTAAAT
GTGAATAAGATCAAGGACTTTGGTGAGGCCGCTAAGCGAGAGATACTGTGACACCGACATGCATTTGAGACAGCG
CGGCGTCTGAGCCATGATAACATGGAGGAGAAGGTGCCCTGGGTGTGCCCCCGGCCCTGGTTCTGCCCTCACCT
CTTGTCAACCCCTGGAAGCAATAGTCAGGAGCGATATATCCAGGCTGAGCGGGAGAAGGGAATCCTTCAGGAGCTC
TTCTGAACAAGGAGAGTCTCATGAGCCTGATCCTGAGCCCTACGAGCCCATACCCCTAAACTCATCCCCCTA
GATGAGGAGTGTTCATGGATGAGACTCCGTATGTTGAGACTCTGGAACCTGGGGGGTCAAGTGGCTCACCTGAT
GGGGCAGGAGGCTCCAAGTTGCCCTCAGTTCTGGCCAATCTTATGGGAAGCATGGGTGCTGGAAAGGGCCCCAA
GGCCCTGGAGGAGGAGGCATTAATGTCCAAGAGATCCTCACCTCCATCATGGGTAGCCCAAACAGTCATCCTTCA
GAGGAATACTGAAACAACCAGACTATTCGGACAAGATCAAGCAGATGCTGGTGCCACATGGACTCCTAGGCCCT
GGCCCAATAGCCAATGGTTTCCCAACAGGGGGTCTGGGGGCCCCAAGGGCATGCAGCACTTCCCCCTGGACCT
GGGGGACCTATGCCAGGTCCCCATGGAGGCCCTGGTGGGCCAGTGGGTCCACGTCTTCTGGGTCTCCACCCCT
CCCCGGGGAGGTGATCCCTTCTGGGATGGCCCCGGGCGACCCATATGCGGGGTGGCCCAATGCGGGGGGTCCAGGA
CCAGGTCTTGACCATAACCATAGAGCCGAGGTGGCCGAGGAGGAAACGAACCTCCTCCTCCTCCTCCTCCATTC
CGAGGCGCCAGAGGAGGTGCTCTGGAGGAGGACCCCAATGGACGAGGGGGCCCTGGTGGGGGCATGGTTGGA
GGTGGTGGGCATCGTCTCACGAAGGCCCTGGTGGGGGCATGGGCAACAGCAGTGGACATCGTCCCCACGAAGGC
CCTGGCGGTGGCATGGGAAGTGGGCATCGCCCCCATGAAGGCCCTGGTGGTAGCATGGGTGGGGGTGGAGGACAT
CGTCCCCACGAAGGCCCTGGCGGTGGCATCAGTGGTGGCAGTGGCCATCGTCCCCATGAAGGCCCTGGCGGAGGA
ATGGGTGCCGTTGGTGGACATCGCCCCACGAAGGCCCTGGCGGAAGCATGGGTGGAAGTGGTGGACATCGTCCC
CATGAAGGCCCTGGACACGGGGGGCCCCATGGCCACCGGCCTCATGATGTCCCTGGTCACCGAGGCCATGACCAT
CGAGGGCCCGCCACCTCATGAGCACCGTGGCCATGATGGTCTGGCCACGGGGGAGGGGGCCACCGAGGGCACGAT
GGAGGCCACAGCCATGGAGGAGACATGTCAAACCGCCCTGTCTGCCGACATTTTATGATGAAGGGCAACTGCCGC
TATGAGAACAACCTGTGCCTTCTACCAACCGGGTGTCAATGGGGCCCCCTGCCCCAGGACCATTTGCCCTGCCCT
GTTACACAACCCCTGTGGACTGCAGCCTCGCTCTTTCACCCCTGTTATGGCTTCTGTGAGGCCCATTTTCCCTT
TTCCCCAGCTGATGAGGAGCCGGCCCCCTCAGTTCCCACTTGCTTGGGTTCTGGGGTTTTCTGATCACTGGTG
CGCATTGATGTACATATTTTCTCCAGTCTGGGGAGGAGAGAGACTGGAAACGTTCCTGGACTGCTGAAGAGGAG

4807/5332
FIGURE 4172B

ACCCAGTTGGCTTCACTTTTGAGAAGATTGCGCCCTGTACCCCAAACCCCTTCCAGTATTACCCTTAATGCTTG
AGAACCTAAAGCTGGTTATCCTGGCGAACACCCCTACCCCTTCTATTGCGGGTCCCCACATGCACACAGAACTCTG
ACACAGGATCAGCTGCACCTTAAGAAATCATCCCAACTAAGTTCATTATTCTCATGGGGTGGGGAGATGCTGAAA
GGGGTATTGTATATCCCACTGCACTGAGAGGGCTCAATCAGCTGGATTTGAGTTCTGGAACACACATCATCCCCA
CCCCCCCCAGCGTGGGCTCACCATTCTTAGTCCTTTCTCAAGTGGGACCTTCAACTTTCTGTGAACACCCAGT
CTGCGTCCTGGGTCTGCTAGGTTTCGATGATGGCGAACTCGTATCTGCATCCGGTGCAAGTTTTAGCTGGCAGAGG
TGAGACCGGTGGTGCTGGTCTGCCTTTGCCAACTATAGCCAGTCTGGAGACTTGATAAAATACTTCAGTGAGACC
AGCTTCTCATCAACTTGGGCCCCGGCGTGCTGGGCCTGAAAGTCACACTACATGCACTGCCTTTGGGAGTCAGCTC
ACTCCCTGCTCCCACCTGGAACCTTGCCAGCGTGAAGGAGGCTTCCAGGTACTTCACCCTGTCAACCACCTCTGA
ATCCCCACCAGGCGCCTTCCTGGGTGGATTCAACAAGATGATTTTGCCCTTTCCCAGTTCTCTCCTTCACTTTGG
CATCAGTTGTTTTCTATGAAAACAGTGGATTGGTTGGGTTTTGTGCAGGGTCTTGGGTTAGAGCCAAAATGGATT
TGAGGATGAGTATTTTTTTTTTTGGTTTTGTATATTTGTACATTAATAATAAACAGTGGAAGAGAAGCAGCTT

4808/5332
FIGURE 4173

CGGGGGCGGGGTTGGCCGCGCCAGCTTGGAGAGCCAGCCCCATCGGGGTTCCCCGCCGCCGGAAGCGGAAATAGC
ACCGGGCGCCGCCACAGTAGCTGTAAGTCCACCGCGATGCCGAAGGCGCCCAAGCAGCAGCCGCCGGAGCCCGA
GTGGATCGGGGACGGAGAGAGCAGAGCCCATCAGACAAAGTGGTGAAGAAAGGGAAGAAGGACAAGAAGATCAA
AAAAACGTTCTTTGAAGAGCTGGCAGTAGAAGATAAAACAGGCTGGGGAAAGAAGAGAAAGTGCTCAAGGAGAAGGA
GCAGCAGCAGCAGCAACAGCAACAGCAGCAAAAAAAAAAAGCGAGATACCCGAAAAGGCAGGCGGAAGAAGGATGT
GGATGATGATGGAGAAGAGAAAGAGCTCATGGAGCGTCTTAAGAAGCTCTCAGTGCCAACCAAGTGATGAGGAGGA
TGAAGTACCCGCCCAAAACCCCGGGAGGGAAGAAAACCAAGGGTGGTAATGTTTTTGCAGCCCTGATTTCAGGA
TCAGAGTGAGGAAGAGGAGGAGGAAGAAAACATCCTCCTAAGCCTGCCAAGCCGGAGAAGAATCGGATCAATAA
GGCCGTATCTGAGGAACAGCAGCCTGCACTCAAGGGCAAAAAGGGAAGGAAGAGAAGTCAAAAGGGAAGGCTAA
GCCTCAAAATAAATTTCGTGCTCTGGACAATGAAGAGGAGGATAAAGAAGAAGAAATTATAAAGGAAAAGGAGCC
TCCCAAACAAGGGAAGGAGAAGGCCAAGAAGGCAGAGCAGGGTTTCAGAGGAAGAAGGAGAAGGGGAAGAAGAGGA
GGAGGAAGGAGGAGAGTCTAAGGCAGATGATCCCTATGCTCATCTTAGCAAAAAGGAGAAGAAAAGTGAAGAA
ACAGATGGAGTATGAGCGCCAAGTGGCTTCATTAAGCAGCCAAATGCAGCTGAAATGACTTCTCCGTGCCCCA
GGCGGAGATGTCCTCCCGCCAAGCCATGTTAGAAAATGCATCTGACATCAAGCTGGAGAAGTTTCAGCATCTCCGC
TCATGGCAAGGAGCTGTTTCGTCAATGCAGACCTGTACATTGTAGCCGGCCCGCTACGGGCTGGTAGGACCCAA
TGGCAAGGGCAAGACCACACTCCTCAAGCACATTGCCAACCGAGCCCTGAGCATCCCTCCCAACATTGATGTGTT
GCTGTGTGAGCAGGAGGTGGTAGCAGATGAGACACCAGCAGTCCAGGCTGTTCTTCGAGCTGACACCAAGCGATT
GAAGCTGCTGGAAGAGGAGCGCGGCTTCAGGGACAGCTGGAACAAGGGGATGACACAGCTGCTGAGAGGCTAGA
GAAGGTGTATGAGGAATTGCGGGCCACTGGGGCGGACAGTGCAGAGGCCAAAGCACGGCGGATCCTGGCTGGCCT
GGGCTTTGACCCTGAAATGCAGAATCGACCCACACAGAAGTTCTCAGGGGGCTGGCGCATGCGTGTCTCCCTGGC
CAGGGCACTGTTTCATGGAGCCACACTGCTGATGCTGGATGAGCCACCAACCACCTGGACCTCAACGCTGTCTAT
CTGGCTTAATAACTACCTCCAGGGCTGGCGGAAGACCTTGCTGATCGTCTCCCATGACCAGGGCTTCTTGATGA
TGCTGCACTGATATCATCCACCTCGATGCCAGCGGCTCCACTACTATAGGGGCAATTACATGACCTTCAAAA
GATGTACCAGCAGAAGCAGAAAGAACTGCTGAAACAGTATGAGAAGCAAGAGAAAAAGCTGAAGGAGCTGAAGGC
AGGCGGGAAGTCCACCAAGCAGGCGGAAAAACAACGAAGGAAGCCCTGACTCGGAAGCAGCAGAAATGCCGACG
GAAAAACCAAGATGAGGAATCCAGGAGGCCCCCTGAGCTCCTGAAGCGCCCTAAGGAGTACACTGTGCGCTTCAC
TTTTCCAGACCCCCCACCCTCAGCCCTCCAGTGTGGGTCTGCATGGTGTGACATTGCGCTACCAGGGACAGAA
ACCCTCTTTAAGAACTTGGATTTTGGCATCGACATGGATTCAAGGATTTGCATTGTGGGCCCTAATGGTGTGGG
GAAGAGTACGCTACTCCTGCTGCTGACTGGCAAGCTGACACCGACCCATGGGGAAATGAGAAAGAACCCCGGCT
GAAATTTGGCTTCTTCAACCAGCAGTATGCAGAGCAGCTGCGCATGGAGGAGACGCCCACTGAGTACCTGCAGCG
GGGCTTCAACCTGCCCTACCAGGATGCCCGCAAGTGCCTGGGCGGCTTCGGCCTGGAGAGTCACGCCCACACCAT
CCAGATCTGCAAACTCTCTGGTGGTCAGAAGGCGGAGTTGTGTTTGTGCTGAGCTGGCCTGTGCGGAACCTGATGT
CCTCATCTTGGACGAGCCAACCAATAACCTGGACATAGAGTCTATTGATGCTCTAGGGGAGGCCATCAATGAATA
CAAGGGTGTGTGATCGTTGTGAGCCATGATGCCCGACTCATCACAGAAACCAATTGCCAGCTGTGGGTGGTGGA
GGAGCAGAGTGTAGCCAAATCGATGGTGACTTTGAAGACTACAAGCGGGAGGTGTTGGAGGCCCTGGGTGAAGT
CATGGTCAGCCGGCCCCGAGAGTGAAGCTTTTCCTTCCAGAAAGTCTCCCGAGAGACATATTTGTGTGGCCTAGAA
GTCTCTGTGGTCTCCCCCTCTGAAGACTGCCTCTGGCCTGCAGCTGACCTGGCAACCATTTCAGGCACATGAA
GGTGGAGTGTGACCTTGATGTGACCGGGATCCCACTCTGATTGCATCCATTTCTCTGAAAGACTTGTGTTCTG
CTTCTCTTTCATATAACTGAGCTGGCCTTATCCTTGGCATCCCCCTAAACAAACAAGAGGTGACCACCTTATTGTG
AGGTTCCATCCAGCCAAGTTTATGTGGCCTATTGTCTCAGGACTCTCATCACTCAGAAGCCTGCCTCTGATTTAC
CCTACAGCTTCAGGCCAGCTGCCCCCAGTCTTTGGGTGGTGCTGTTCTTTTCTGGTGGATTTAATGCTGACTC
ACTGGTACAAACAGCTGTTGAAGCTCAGAGCTGGAGGTGAGCTTCTGAGGCCTTTGCCATTATCCAGCCCAAGAT
TTGGTGCCTGCAGCCTCTTGTCTGGTTGAGGACTTGGGGCAGGAAGGAATGCTGCTGAACTTGAATTTCCCTTT
ACAAGGGGAAGAAATAAAGGAAAGGAGTTGCTGCCG

4809/5332
FIGURE 4174

GGGAGCTCGGCGGAGGGCGGGCCAGGTGACTGGTCCGGGCCATGCCGAGGAAGAAGCCATTCAGCGTGAAGCAGA
AGAAGAAGCAGTTGCAGGACAAACGGGAGCGGAAGAGAGGGCTTCAAGATGGGCTGCGCTCCAGTTCCAACAGCC
GCAGCGGGAGCCGGGAGCGGCGAGAGGAACAGACCGACACCTCGGACGGGGAGTCTGTGACCCATCATATCCGCA
GGCTTAACCAGCAGCCTTCTCAGGGGCTGGGTCCACGAGGCTACGACCCAAATCGATACCGACTGCATTTTGAGA
GAGACAGCAGGGAGGAGGTAGAGAGGAGAAAGAGAGCAGCCCCGGGAGCAAGTTCTACAGCCGGTCAGTGCTGAGT
TGTTGGAGCTGGACATCCGGGAGGTGTATCAGCCTGGCTCAGTTCTGGACTTTCCTCGACGTCCTCCTTGAGCT
ATGAGATGTCCAAGGAGCAACTAATGAGCCAAGAGGAACGGAGCTTCCAAGACTATCTTGGGAAGATTTCATGGGG
CTTACTCCTCTGAGAACTCAGCTACTTTGAGCACAATCTGGAGACATGGAGGCAGCTGTGGCGGGTGTAGAGA
TGCTTGACATCGTCTGCTTATCACTGATATCCGACATCCAGTTGTGAATTTCCCGCCAGCACTTTATGAGTATG
TGACTGGAGAACTTGGACTGGCCCTGGTGTCTGGTTTTGAACAAGGTGGATCTGGCCCCGCCAGCTCTTGTTGGTTG
CCTGGAAGCATTATTTCCATCAACACTATCCCCAGCTCCACGTCGTCCTTTTCACCTCTTTTCCTCGGGACCCCC
GCACCCACAGGATCCTAGTAGTGTCTTGAAGAAGAGTCGGAGGCGGGGAGAGGATGGACTCGGGCCCTGGGGC
CAGAGCAGTTGCTGAGAGCCTGTGAAGCCATCACTGTGGGGAAAGTGGACTTGAGCAGCTGGCGGGAGAAGATTG
CTCGGGATGTGGCTGGGGCCACCTGGGGTAATGGCTCTGGGGAGGAGGAGGAAGAGGAGGATGGCCCAGCAGTCC
TGGTGGAGCAGCAGACTGATTCAGCAATGGAGCCAACCTGGCCCAACCCAAGAGCGCTACAAGGATGGGGTGGTGA
CCATCGGCTGTGTGGGTTTCCCTAATGTGGGAAAGTCCTCGCTGATCAATGGGCTGGTGGGGCGGAAAGTCGTGA
GTGTCTCCAGAACCCCGGGCCATACCCGATACTTTCAGACCTACTTTCTTACCCCTCTGTGAAGCTCTGTGACT
GCCAGGCCTCATCTTCCCATCTCTTCTGCCTAGGCAGTTGCAGGTTCTGGCAGGGATCTACCCTATCGCCCAGA
TCCAGGAGCCCTACACTGCTGTGGGCTACCTGGCCTCCCGAATTCCCGTGCAGGCCCTGCTCCACCTGCGCCACC
CAGAGGCTGAGGACCCCTCAGCGGAACACCCCTGGTGTGCCTGGGACATCTGTGAAGCCTGGGCAGAGAAACGTG
GTTACAAGACAGCCAAGGCGGCTCGGAATGATGTGTACAGAGCAGCCAACAGTCTCTTGCGGCTGGCAGTGGACG
GCCGCTCAGCCTGTGTTTTTCATCCCCAGGCTACAGTGAACAGAAAGGCACCTGGGAGTCCCATCCAGAGACCA
CGGAGCTGGTGGTTTTGCAAGGCAGGTTGGGGCCAGCAGGTGACGAGGAGGAGGAGGAAGAGGAAGAGCTGAGCA
GCTCCTGTGAGGAGGAGGGAGAGGAGGACCGGGATGCGGATGAGGAGGGAGAAGGGGATGAGGAGACCCCAACCT
CGGCTCCAGGGTCCAGCCTGGCTGGCCGAAACCCCTTATGCCCTGCTGGGTGAGGATGAGTGCTTCAGTTTCTCGCC
CAGCGCCATCTTCCCTCCCAGTATCTTTGCTTTTGGACTGACCTGGGGGTATCTCCCTCTGCCACCCCAATTGT
GAATAAAGATTGTTTGTCTTTGTAGCCCCTTCCCCAGATGAACTGAGGTGAGAGCGGCTGTTCCAGGCTAACAGCT
GTGGGAGGCTTCTCTCTCTTCTCCCTTCTTTTTT

4810/5332
FIGURE 4175

GGGATCATGGTAGATGGAACCCTCCTTTTACTCCTCTCGGAGGCCCTGGCCCTTACCCAGACCTGGGCGGGCTCC
CACTCCTTGAAGTATTTCCACACTTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCTGTGGGCTAC
GTGGACGACACCCAGTTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCGCCGTGGATG
GAGCAGGAGGGGTGAGAGTATTGGGACCGGGGAGACACGGAGCGCCAGGGACACCGCACAGATTTTCCGAGTGAAC
CTGCGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCCTGCAGTGGATGCATGGCTGCGAG
CTGGGGCCCCGACAGGCGCTTCCTCCGCGGGTATGAACAGTTCGCCTACGACGGCAAGGATTATCTCACCCCTGAAT
GAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCTCCGAGCAAAAGTCAAATGATGCCTCTGAG
GCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGAGTGGCTCCACAAATACCTGGAGAAGGGGAAGGAG
ACGCTGCTTCACCTGGAGCCCCCAAAGACACACGTGACTCACCACCCCATCTCTGACCATGAGGCCACCCTGAGG
TGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGAC
ACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGA
GAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCCTGAGATGGAAGCCGGCT
TCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGATCTGTGGTCTCTGGAGCTGTG
GTTGCTGCTGTGATATGGAGGAAGAAGAGCTCAGGTGGAAGAGGAGGAGCTACTCTAAGGCTGAGTGGAGCGAC
AGTGCCCAGGGGTCTGAGTCTCACAGCTTGTAAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCT
GCCTTGTGTGCGACTGAGATGCAGGATTCCTCACGCCTCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTT
TGCAAGGGCCTCTGAATCTGTCTGTGTCCCTGTTAGCACAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGT
CTACCATGACCCCTTCCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGG
CAGAGTGCGGCAGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGAT
CGAAACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCA
CGGGCCTGTAGTCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTG
AGCCAGGATTGTGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAATTAAAAAA
TAAAAAAGAACC

4811/5332
FIGURE 4176

CCTGAGTCAGACGGGCATGGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAG
TTCAAAC TTGTATTGGTTGGTGATGGTGGTACTGGAAAAACGACTTTTCGTGAAACATCATTGACTGGTGAATTT
GAGAAGAAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCATACCAACAGAGGACCTGTTAAG
TTCAATGTATGGGACACAGCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGT
ACCATCATAGTGTGTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGA
GTGTGTGAAAAACACCCCACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCC
ATTGTCTTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTATAACTTTGAAAAGCCC
TTCTCTGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAATTTGTTGCCATGCCTGCTCTCGCCCCACCA
GAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCG
GACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCCTGT
GATGTCAGTTGTGCAGCGTGTGTGCCACCTCATTATTATCTAGCTAAGCGGAACATGTGCTTCATCTGTGGGATG
CTGAAGGAGATGAGTGGGCTTCGCAGTGAATGTGGCAGTTCAAAAAATACCTTCATTGTTGGACCTGCATATTT
AGCTGTTTTGGAACACAGTTGATTCCTTGAGTTTCAAATATAGACTGCTACAGTCACATCACAATATTACGCGGT
GAAATCTGTTTGTTACTGTCAATCCCATTCCTTTTCGTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAA

4812/5332
FIGURE 4177

GGAGTCAGGAATGGAGAGAAAGGGTAATGGTGTTACCTCTTATTGTGGAAACCTGTTGAGATCACAGAGAATATAC
TGACGGCATAAAAGGGCAGAACCATAGCAGGGTGCGCGCTGCTGTAGTTGCCTTCCATGGATCTATAGGAGAGCA
AGTCCTCCAGGAGAAGAAGTCCTCACCAGTGAACGGAGACCTCTCTGAACCTAAGAATACCATGGCCACGTCAGCC
CCACTACGGAGCCTGGAAAGAGGAGGTGACCTGCTCCATCTGTCTTGATTACCTGCGGGACCCCTGTGACCATTGAC
TGTGGCCACGTCTTCTGCCGCAGCTGCACCACAGACGTCCGCCCCATCTCAGGGAGCCGCCCGCTGTGCCACTC
TGCAAGAAGCCTTTTAAGAAGGAGAACATCCGACCCGTGTGGCAACTGGCCAGCCTGGTGGAGAACATTGAGCGG
CTGAAGGTGGACAAGGGCAGGCAGCCGGGAGAGGTGACCCGGGAGCAGCAGGATGCAAAGTTGTGCGAGCGACAC
CGAGAGAAGCTGCACTACTACTGTGAGGACGACGGGAAGCTGCTGTGCGTGATGTGCCGGGAGTCCCGGGAGCAC
AGGCCCCACACGGCCCTCTCATGGAGAAGGCCGCCAGCCCCACAGGGAAAAATCCTGAACCACCTGAGTACC
CTAAGGAGAGACAGAGACAAAATTCAGGGCTTCCAGGCAAAGGGAGAAGCTGATATCCTGGCCGCGCTGAAGAAG
CTCCAGGACCAGAGGCAGTACATTGTGGCTGAGTTTGAGCAGGGTCATCAGTTCCGTAGGGAGCGGGAGGAACAC
CTGCTGGAACAGCTGGCGAAGCTGGAGCAGGAGCTCACGGAGGGCAGGGAGAAGTTCAAGAGCCGGGGCGTCGGG
GAGCTTGCCCGGCTGGCCCTGGTCATCTCCGAAGTGGAGGGCAAGGCGCAGCAGCCAGCTGCAGAGCTCATGCAG
GACACGAGAGACTTCCTAAACAGGTATCCACGGAAGAAGTTCTGGGTTGGGAACCCATTGCTCGAGTGGTTAAA
AAAAAGACCGGAGAATTCTCAGATAAACTCCTCTCTGTCAACGAGGCCTGAGGGAATTCAGGGGAAGCTGCTG
AGAGACTTGGAAATATAAGACAGTGAGCGTCACCTGGACCCACAGTCGGCCAGTGGGTACCTGCAGCTGTGAGAG
GACTGGAAGTGCCTGACCTACACCAGCCTGTACAAGAGTGCCTACCTGCACCCCCAGCAGTTTGACTGTGAGCCT
GGGGTGCTGGGCAGCAAGGGCTTCACCTGGGGCAAGGTCTACTGGGAAGTGGAAAGTGGAGAGGGGCTGGTCT
GAGGATGAAGAAGAGGGGGATGAGGAGGAAGAGGGAGAAGAGGAGGAGGAGGAAGAGGAGGCCGGCTATGGGGAT
GGATATGACGACTGGGAACCGACGAAGATGAGGAATCGTTGGGCGATGAAGAGGAAGAAGAGGAGGAGGAAGAG
GAGGAAGTTCTGGAAAGCTGCATGGTGGGGGTGGCTAGAGACTCTGTGAAGAGGAAGGGAGACCTCTCCCTGCGG
CCAGAGGATGGCGTGTGGGCGCTGCGCCTCTCCTCCTCCGGCATCTGGGCCAACACCAGCCCCGAGGCTGAGCTT
TTCCAGCACTGCGGCCCGGAGAGTGGGCATCGCCCTGGATTATGAAGGGGGCACCGTGACTTTACCAACGCA
GAGTCACAGGAACCTCATCTACACCTTCACTGCCACCTTCAACCGGCGCCTGGTCCCTTCTGTGGCTCAAGTGG
CCAGGAACACGCCTCCTGCTAAGACCTTGAGCCCTGACATCTGCCCCAGCCCCAACCCCTCAGATGCTTCACTTC
TTTGGAAATTCAGGACTCTCAATGGGGGGACGGGATGCCTGGCCTAAGCACCTGGAGCAGGGGACCCCATATCCA
CTGGTAGCCACCTCCCCATTGCTGTGGCCCCCTGAAATCTCACTCAGTGCTGTTGCTCCATCTACTGCCCTAATG
GGGCTCTTTTCCACCTCCTGCTGGTTTCCCGAGGGAACCTTCTGACCCTGGAGTCCATGAGGGCTCCTTTCTTTT
TTGACCACGACCTTGGCCCTAGCTCTGCACTCTCTGGAATAAGGGCCCCGATGCAGCATTTTCTTGCCAGTGTGG
CAAGACCTCAGAAAAACAGTCAATTACGCCTAAGATCATTTTGTGTCTTAAACCCCCCAGGTTCTTTCTTGC
ACAAATCCACTCTGCTGCCCACCTTCCCTGGCATTTTAAACAGACCTACCCACCCCAACTCAGAGTTAAGCATA
CATGGCAATGCTGAAAATAAACAATCCACTGAGGCTTCCCAGGCCATTTAAAGCCTGGAGTACCAGCGCATAT
CATCTCATGGGTCCAGAGTGGAGTCCAGGCTTCTCTGAAACCAGGGCTGAGCATATTTCCATAGCCAAGGAGGT
GGGACTCCCTGGAGCTATCTGTGGTCTTAGGGAAGGATCCAGACATACAGGCTTTGGGGTACAAGCTGTGATCA
CTGATCAATAAATTATCTCTAGATTGGTCTTGTGAGGGGAGTTTAAAGAATCCAGAACATCTTGCTCTTGATCA
GCACATCCAAAAACCAAGACAAACATCCAGTGGAGCAGAACCTCTCCTGCCTCGGGAGTTCTGACCGGGTTCC
CCAGCAGGGTGTTAAGCCTCTGTCTCTGGCCCTACCAGCATCCAGGTTCCACTTTCTAGGAGAGAGTGGAGATG
GGAAGACAGGGAAAGGAAGGCAGCAGGAGGCCACAAGCCCACCAGGTCTTCATGTCAAGAGAGGGAGTAACATGT
CTTCTCATTGCCCACGGACCCAACCTCTGTCCAGGTGCCCCCTCATCATCAGTTTAAACACAAGCTCCCCTGCTC
CAGCCAAATTGATCTCCAGTCTTGTCTTACCCATTCCAAGTGCTCTGCCAGCCCCCTGTTTCATCCAAGTTTTAA
GTCCTCCACCCTGTTATAAGAGACTGTTCCAACGGCTCTGGGCCTCAGTGGTCACTTGACCACCATTGTCTCAGA
GCTGCCCCACTTTGTGTGTGTACATGCTGCGCTGAGTCACATGTACATCTTATTTCTGCCTCTAGTTTTGTAAGCT
CCTGGAGGGCGGATAACATCTTATACTACTCTTGATTCTCATGGCACCTAGTGCAGTGCTGGGCACAGAGTAGG
TGCTCAATAAAGACTTGTGTAATGA

4813/5332
FIGURE 4178

GGCGTTACGCAAGGCCTGGTGTTTACCTCCCGTGGGAGCCTCCTCCCTCCCTATAAAGCCTGATGTGGTGGAGAG
ATTTGACGAGACTGAGACTCTGGTTGAAGAGAGAGGCAATCCCAGGAGAGGGGCGGAAAGCGGCAAAAGTTAATG
CGGGAGTCGGAGAGAAGGGCATCTACACAGCAAGCAGCAGGGGCGGCCCCGCCATCTGCGCGCTCGAAGGCGGTCA
CGGTGGTCGCGGAAGGGGCGGCGTCCAGATCCTGGCTTTCATGGATGCGCCGAGCTGGGCCCCGGGCTGGTGG
AGCGTCTGGAGCAGCTGGCGACGTGTCTCTGTGCGGGGGCTCCTTCGAGGACCCGGTGCTTCTGGCGTGCGAGC
ACAGCTTCTGCCGCGCGTGTCTGGCCCCGCCGTGGGGGACTCCGCCGGCGACCGGCACCGAGGCTTCCCCACCG
CCTGTCCCTGTGCGGCCTGCCGTGTCCCCGCCGCAGCCTGAGGTCTAATGTGCGGCTGGCGGTGGAGGTGCGAA
TCAGCCGCGAGCTGCGAGAGAAGCTGGCTGAGCCTGGGGCCCCGTGCGGGGAGACGCCGAGGGGGGCGCATCCCCA
CCATGGGCTGCCTGGACCTGCCCGGAGAGGATATGAGGAAGACATGGAGACGATTGAAGTCCCAACATCCAAGT
CATCTAATTCAGAGGATGATCTCCCTGAAGATTATCCAGTGGTCAAAAAAATGCTTCATAGACTGACAGCCGACC
TGACCCTGGACCCTGGGACCGCACACCGCCGCTGTCTATCTCCGCCGACCGCCGACGCTACAAGTGGCCCCAC
CAGGGACGCCCCGCGCCCCCTGACGGCCCCAAGCGCTTCAATCAGCTCCAGCTGTGCTGGGTGCGCAGGGCTTCG
GGGCGGGCGCCACTGTGGGAGGTGGAGACTGCGGACGCCGCTCCTGCGAGAGACTCTTCTGGGGAGGATGCGG
ACGACGAGAGAGCCACTATGCACTGGGCGCGGCCGGGAATCAGTGCACGCAAGGGCTGCGTAAGGCTGTGCC
CTGCGGGGGCCGTGTGGGCCGTGGAGGGCCGCGGCCGCCCTGTGGGCCCTCACGGCACCCGAACCCACCCTGC
TGGGCGGTGTTGAGCCCCCGCGCGGCGCATTCGCGTGGACCTGGACTGGGAGCGGGGCCGCTGGCCTTCTACG
ACGGCCGCTCACTCGACCTGCTTTACGCCCTTCCAGGCGCCTGGCCCCCTGGGGGAGCGCATCTTCCCGCTGTTCT
GCACCTGCGACCTCGTGCTCCGCTCCGCATTGTACCAGCGGAAAGCTGAGTCTCGTCTCCAAGTAAAGTTTGG
CCCGGCCACTGGCCCTGCAGCTGCTTTTGGGGGTGGAATTCCCCACTCATTTCTGGGAACACATTACACGCCC
ATTGCAGGAGTATTAATAGCAACCCACATTTTCGCCCCAAAATAATGAGACCTCACCTGGTCTCCACGTTTCCAC
GTCCCTGCTCAAAACCAATCCATTCTGCCTTCTGGCTCTCAGAATCTTCTCTCCCTACAGCTACTACAGTAC
TTCCTGACTTCTCCCATTCAAACCATTCAGGCTGCAATGGGGAACAGGCCCTCCCCATCAGTATTGGTAAAGT
GACCATGATTCTACATAGAGGCTCTGCTGGTCAAATACTTGACTCCCACTCTTGCCACTCCTAGCTCCAGAAGG
GCTCAGGGCCTTCCCCACAGATCTAAGGACTGGGCTACCCTGCCTGTCCACTGAGGTTTCTCCTAAAACAAGAGG
CTTGACTCTGGTCTGGGCCCTGTGGCCCTCTGGGAAGCTTTGTACCTCTTTTGCAGGATCCGGGGGTGGGGAGGG
ACAAGCTAGTTCCCCAACCTCCTATGACTGCTTTCTATGCTCACAGCCTTTTTTCCATAAGAACCTTCTTGAAAC
TTCTCCCCGCACATACTCACGAAAGGAACCAATGGTGCTATTTCCCTCTCTCCTCCTCAACCTGGGAATACTT
CAGACATCTCCAAACTCATCCTTGTGTATAGTCTCACACCCTTCCCCATAAGTATAAATGGGCCCATATTTAACA
CATTTTGTGATTTTGGGTTATTTATTTTGTGCATCTGTGGCAATAAATGAGATCTCAGTGGTGTA

CGCGAGAGCCGGAAGTGGGGTTAGCCAGGTTATCCCAAGGGGTGGAGAAGCGGAGGCCCAGGAGGAGGGGGAATAA
AGAAGGTGGAGGATCCTGGCTACCACTCTGAATCCGATACCGCTTCTCTTAGACCTCAGCGACAGAAAAAGGGAA
GGGTGTCTCATCCCCCTTCTCTCTCTCTCCCTGTCTGAGCCTTAGCCATGCGCCGAGGCAGGGGCTGGGCTGAG
CGAGACCGTCACTGAGACAACGGTTACCGTGACAACCGAGCCCGAGAACCGGAGCCTTACCATCAAACCTTCGGAA
ACGGAAGCCAGAGAAAAAGGTAGAATGGACAAGTGACACTGTGGACAATGAACACATGGGCCGCCGCTCATCCAA
ATGCTGCTGTATTTATGAGAAACCTCGGGCCTTTGGCGAGAGCTCCACGAAAGTGATGAGGAGGAAGAAGAGGG
CTGTGGTCATACACACTGTGTACGTGGCCACCGCAAAGGACGGCGTCGTGCAACCCTAGGACCGACCCCCACCAC
CCCTCCCCAGCCTCCTGACCCTTCCCAGCCCCCTCCAGGGCCAATGCAGCACTAAATCCCTCTCTCTCTCCAGCAT
TCCTGTGTCTGTCTGGCCCTAAATGTATCCATGTGGCTACTTCTCCAGCCCCCTCCTTCCCTCTCTTCTGCCTGA
TAGAGGGAAGAGGAAGAGGAGGACGAACAGAGATCCTGAAATTCTGACTTGCTGCTATTCCAGAACCCAGCCTCC
TGGGTTTCCCCAGTCTCATTTTTTCTCCCAATACCCACCCTTCTCTCTCGAGGGATCTAGGCACCTTGGTCCCA
GTGTCTTCCTTTTGTTCTCACTGCCAAACTGCCTGTCTCGGGATCTAGTTATCTTGGCCCTGCACTCTCAAGATG
AGTAGCGAACACTTAAATTGGGTTTTCAACAGTCCCAGCTTCTCACTGCCAGGGTCCCAGTCAGATTCCAGGAATT
TGCGCCCTAACTTTGCTTGCTAATCCTGGTTTTAGAGCTATCCCACTAAAAATATTTAATCCTAATTCTTAGTCCT
GCCTGTGAGATATGAGGTCTTACAGGAGACCTCAGAGCTCCAGCCCTTCTCTCTCTGCTAACCCTTCTCACACC
CTCAAGAGGAGTTAGAAAAGAGGTCTTGTCAATTCTCACCTCTTATGGAAAATGGAATAAGAAATAATCATATCC
TTTCTTCCCACCCTTCTCTCTGTTATTTAGGATTTCTGACAAAGCTGGCTTGAGATTGGTCACTTAGAGCCGACTG
TCTCTCTGCCTTTTGTTTTTAGCTTTCAGAGACAGATCCAATATAGTCCCAGGGACCTGGGTCTCTGGGAGAGG
AAGGAAGAGGGGAGGAGCAAAAGAGATTGGGGTATGTCCCTGTAGTACACTCTTACCTCTTACTCTCTAGACTTT
GATTTCTCCGGCAGCCCAAGTATGTTAGTTCTCTTGGCCCTCTCTACCCCTTACTGGGATCTGGTTTTTCATTTTC
CGGTCTCTTTTGGCATAACAGTTACAGAGATCAGTCAAATCCATACCACCCTGAGATCTCATTTATTGCCACAG
ATGCAACAAAATAAATAACCCAAAATCAC

4815/5332

FIGURE 4180

GCAGAGCTGGCGCTCTAGCCACGGAGTTGGTTAACTCCTCTCACC GGCCCTGGAAAGGGTTCCAAGTCCTTTA
GTACCCGACGCTGTCTGGGAATTCCGGGCGTTTCGGCTCCTTGGTCGCAGAGGCAGGAGGCACCCGACCGCATGT
CTGTCATGGACCTCGCCAATACTTGCTCCAGCTTTCAGTCGGACCTGGATTTCTGTTTCAGATTGCGGCTCGGTCC
TGCCTCTGCCCCGGGGCTCAGGATACGGTCACCTGTATTGCTGTGGCTTCAACATCAACGTTCCGGGACTTTGAGG
GGAAGGTTGTGAAGACTTCGGTTGTGTTCCACCAACTGGGGACAGCCATGCCTATGTCGGTGGAGGAAGGGCCTG
AGTGCCAGGGACCTGTGGTTGACAGGCGCTGCCCTCGATGTGGTCATGAAGGAATGGCATAACACACCAGACAGA
TGC GTTCAGCCGATGAAGGGCAAAGTGTCTTCTACACCTGTACCAACTGCAAGTTCCAGGAGAAGGAAGACTCTT
GACCTTTTTCCTGGGCAACTCTACAGTCCCTCCCTCCTTTCGGAAGGTGAAGGATACTGGGTTTTTAGATGCCTT
GTCCATCCTGTCTGGTTGCAATGTTTTGCTCCCAGAAGAGAATCAGATCATCATGTGGGGATTACCATTGTTCCCT
GGAGTACTCCTACCCTTAGTTGAATTCCTTATTAAAGTTATATTTTCTATAAGACCCTGA

4816/5332
FIGURE 4181

CCCCAGACGCCGAGGATGGCCGTCATGGCGCCCCGAACCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACC
CAGACCTGGGCGGGCTCCCCTCCATGAGGTATTTCTTACATCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGC
TTCATCGCCGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGCCAGAGGATGGAG
CCGCGGGCGCCGTGGATAGAGCAGGAGGGGGCCGGAGTATTGGGACCAGGAGACACGGAATGTGAAGGCCAGTCA
CAGACTGACCGAGTGGACCTGGGGACCCTGCGCGGCTACTACAACCAGAGCGAGGCCGGTTCTCACACCATCCAG
ATAATGTATGGCTGCGACGTGGGGTCGGACGGGCGCTTCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAG
GATTACATCGCCCTGAACGAGGACCTGCGCTCTTGGACCGCGCGGACATGGCGGCTCAGATCACCAAGCGCAAG
TGGGAGGCGGCCCATGAGGCGGAGCAGTTGAGAGCCTACCTGGATGGCACGTGCGTGGAGTGGCTCCGCAGATAC
CTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGACCCCCCAAGACACATATGACCCACCACCCCATCTCTGAC
CATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGG
GAGGACCAGACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCGGCT
GTGGTGGTGCCCTTCTGGAGAGGAGCAGAGATACACCTGCCATGTGCAGCATGAGGGTCTGCCCCAAGCCCCCTACC
CTGAGATGGGAGCTGTCTTCCAGCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGAGCT
GTGATCACTGGAGCTGTGGTCGCTGCCGTGATGTGGAGGAGGAAGAGCTCAGATAGAAAAGGAGGGAGTTACACT
CAGGCTGCAAGCAGTGACAGTGGCCAGGGCTCTGATGTGTCCCTCACAGCTTGTAAGTGTGAGACAGCTGCCTT
GTGTGGGACTGAGAGGCAAGAGTTGTTCCCTGCCCTTCCCTTTGTGACTTGAAGAACCCTGACTTTGTTTCTGCAA
AGGCACCTGCATGTGTCTGTGTTCTGTAGGCATAATGTGAGGAGGTGGGGAGACCACCCACCCCATGTCCAC
CATGACCTCTTCCACGCTGACCTGTGCTCCCTCCCCAATCATCTTCCCTGTCCAGAGAGGTGGGGCTGAGGT
GTCTCCATCTCTGTCTCAACTTCATGGTGCCTGAGCTGTAACCTTCTTCCCTTCCCTATTAAAATTAGAACCTTAG
TATAAATTTACTTTCTCAAATTCCTGCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCTAAAATTTGA
GAGACAAAATAAATGGAAGACATGAGAAC

4817/5332
FIGURE 4182

ATGGTGCTCATGGCGCCCCGAACCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCCAGACCTGGGCGCGC
TCCCACTCCATGAGGTATTTCTACACCACCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCCGTGCGC
TACGTGGACGATACGCAGTTCGTGCGGTTTCGACAGCGACGACGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGG
ATGGAGCGGGAGGGGCGCGAGTATTGGGACCGGAACACACAGATCTGCAAGGCCCAAGCACGGACTGAACGAGAG
AACCTGCGGATCGCGCTCCGCTACTACAACCAGAGCGAGGGCGGTTCTCACACCATGCAGGTGATGTATGGCTGC
GACGTGGGGCCCGACGGGCGCTTCCTCTGCGGGTATGAACAGCACGCCTACGACGGCAAGGATTACATCGCTCTG
AACGAGGACCTGCGCTCCTGGACCGCGGCGGACATGGCAGCTCAGATCACCAAGCGCAAGTGGGAGGCGGCCCGT
CGGGCGGAGCAGCGGAGAGTCTACCTGGAGGGCGAGTTCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAG
GAGACGCTGCAGCGCGCGGACCCCCCAAGACACATATGACCCACCACCCCATCTCTGACCATGAGGCCACCCCTG
AGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGGGAGGACCAGACCCAC
ACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAAGCCATCTTCCCAGCCCACCATCCCC
ATCGTGGGCATCGTTGCTGGCTGGTTCTACTTGTAGCTGTGGTCACTGGAGCTGTGGTCTGCTGTAATGTGG
AGGAAGAAGAGCTCAGATAGAAAAGGAGGGAGCTACTCTCAGGCTGCAAGGCCATCTTCCCAGCCCACATTCTC
ATCATGGGCATCGTTACCGTCTCTGGTTGTTCTAGGTGCTGTGGTCACTGCTGTGATGTGGAAGAATAAGACCCCA
GGTAGGAAAGGGGTGGCACAGGGCTTGACCATCACATTTGTGTCAGGTGACAATAATGCCAGGATCCTCAGTATG
GGCAGCATCGCTTTGAGGTCACTGATAGAGGGCCTGGTCCAGCTCCAGCTGCTGTGCAAGCAACTCCTCAGCTTG
GGCCAGCTCAGCTGTGTGGGGGGCTCAGGGCCCTGGTCCAGAGGGAGTGGAGGAGGGAGCATCAGCCAGGGTAGAG
GGGTTGAGGCCCTTGGAACTGTGTTGCAAGATCTCATGCCCTGCATGCTGCAAGGGTTTGCCTTCTCTGACAGA
CCATCCACTCATAAGGAGGTCAAAAACAAGTTCCACACAGCACTGAGACACAACCACCTCATTGTCCTCACCTCC
ACGGACAGAGCCCAGGACTTTGATAAGCGGGGGGCCAAACCCACCGCTGGGGTGAATCCATATAGACTAGAAAAA
ATGATGCCTAACTCTCAACAAGGTAGACGTGACTTAGTTGCCCTGGAACCTGCACAGGATGGAATAACAAGGCTG
AGGGAAGTGGGCATGGTGAAGGCCACCAGTACCATGCTCCACAAGACAGTCCAAAGGAAACACCTTCCACCAGA
GCCTCAGAAACGTGA

4818/5332
FIGURE 4183

ATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCCACTCC
TTGAGGTATTTTCAGCACCGCTGTGTCGCGGCCCCGGCCGCGGGGAGCCCCGCTACATCGCCGTGGAGTACGTAGAC
GACACGCAATTCCTGCGGTTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAA
GAGGGGCCGAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGG
AACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGACATGGGG
CCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGATTACATCTCCCTGAACGAGGAC
CTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGATCACCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAG
GAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGAGTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTA
CAGCGCGCAGATCCTCCAAAGGCACACGTTGCCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGG
GCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAG
CTTGTTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTCCTGGAGAGGAA
CAGAGATACACATGCCATGTGCAGCACGAGGGGCTGCCCCAGCCCTCATCCTGAGATGGGAGCAGTCTCCCCAG
CCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTTGTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTTCGCT
GCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC
CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGTGTAGACAGCTTCCTTGTGTGGGACTGAGAAGCAAGATAT
CAATGTAGCAGAATTGCACTTGTGCCTCACGAACATACATAAAATTTAAAAATAAAGAATAAA .

4819/5332
FIGURE 4184

GAGAGCACGACGTGCGCGCACCTCTCCCCTTGTCCTGCTGCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG

GCCGAAGAAAAGCCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCGTGGTGACAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATACAATTGATGTGTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT
ACTCCAGAACTCTGTTCCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTGAATTTGCTTCCACCACATCC
TGACTACTACTACCGTATAGTTTTCTCTATTCTTTTCATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG
GTATAATGTGCACAAGCATATTACTTTTTTTTTTTAAACTAAACAGCCAATGGTATGTTTGTATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAACAACAACAAAAACAACAACATAAAAAATC
CTTGACATACCTTGTTCAATTGGAGAATTTTAATGTTTTTCATTTATCATTGTAACCAAGGACAATTTTATAAC
TTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAACAAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAA

4820/5332
FIGURE 4185

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCTCTCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGCGAGTG
TGCCGCCCCGCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGT
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCCGCTGGTCATCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTTCGTATCG
CTCTTCTACACCGTGGTACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

4821/5332
FIGURE 4186

GTGCGAACAACCTTTGCCTCCTGGCCAGAGGGACCCCTTCTGCAGGCTGATTCCAGCAGTGGCCGATGGTGGGACCA
CACCAGACCAAGCCTTCGCCTCCAGAGGGCTCCTGGCCCTCCTGTCTATGGCCTGTGAGAGCCACACCCCTAGGC
CCCGTCTCCTAGTCTGCAGGCCGAGGACCAGCTGCCACGGCCCCAGGGGGCAGGGGCTGTAGATGAGGGTCTC
AGAGGTGGTGGGAGCACCCCCCCCCACCCACAGTTTCTGGGCATTTCCTTTAGAGCTTTAAATGGCACCTGGAGAC
CACCAGGCGCGGCGATCAGATCGGGTGGTGTGGTGCCTCCTGGGACTGACCATTCTTGCTCTCCGACCAGGCAG
GGGCGAGTGGCCTGGGAGGTTCCCGGACCCTCAGGGGGCTGTGTCTCTGGGCACCGCAGCTCCGCCCCACTCCT
TCCTCCAGAACATTCCCCACTCGGGCTAGAGAATTGCGTCTGCTCCAGGAATGCATCCTAGCGTGTGTACGATCG
CGCCTGGGTGTCTGTCTCATGAGCAAGCGGTTTTAACCAGCAGCATAATTTATACTCATAGACAGGACTGGGG
GAAGGGCTGTTTCTGAGGCTGGGGTGCAGTGCCTTGGAAAGCACCCCTGAAACAGTGGACCTTGTATTTTTAGTG
TCCCCTGCAACCATCCTCTGACTTAGAGCAAGAATTTCCGCTGTCTGCTACCCCCGAGATGGGCTTCACCAGATGT
TAATAACGTGCTTATTTTCTCTAAGTGCTATTTTGGCACCAGCGTTAGTTGCAATTTATATTCTGCAGCATTGTA
TGCTGGGAAAAGAACCACCCTAATGGTCCCCAATTGGCAGAGCTCGGCTGTTAAGCAGCAGACCATATGCTGCC
TGCTGGAGGAGCGTGGTCAGCACTTGTCCCCGTGCCGTGCGTGCCTGTGCTGCGTGCACGTGTGCCCTGCGGGTAC
CTGTGCCCTGTGTGTGCATGTGCCTGCATGCGTGTGCCGTGCGTGCACGTGTGCCCTGTGTGTACATGTGCCCTGC
GTGTACCTGTGCCCTGTGTGTGCACGTGTGCCCTCGTGTACCTGTGCCCTGTGTGTGCATGTGTGTGTGAGTCAC
GTCTTCCGTGTGTGTGTGTGAGGGAGAGACTTGTGGGTGTGAGGGAGGGAGGGGAAAGGGTATGTATCCCTT
TGTTCTTTAAAGGTGAGAGCCCCAACCTCTCTGGCTGCCCTCCTGCGCTGTGCTCCAGCTCACCCACACCTA
GCTGTCTATTATTCTCCTGACCCCCCTCCCGGCCCTGCAGCCCCGTGTCCCGCAGCTCCGCCCCGCCTCCTGTCT
CCAGCTCACAGGCAACACTTCGCTCCACCAGGCTTCCGAAGGTGGCCAGAGCAGGCACCTTGAGCCTGATGACC
CAGAGCAAAGCTGCCTTTCTGGGCCCTTGAGTACTCCTTTCTGCTATGGAAGGCTTTTCTTGTTTTCAACGGCCCCG
TCCAGCCCAGGGGGGCTGGGTGAGGGCCGCTTCCTTCTGCAGCAGAGGGGGCGGGCTCTATCCTTGCCATCTGTCT
GCCCCAGAGGCCCTGCCAGGACATGGGCCTGAGCGGTTTCTTCTCCAAGAGGCCCTCCTGGGACCTGTCTGTGC
ACAGGGCGGGAAGACACTTGTGCTTCGACCCAGGACGGCAGCCAGGACGGGCTGAGCTCCTCTTGCGCTGCAAA
CACACAAGGGTTGCCTGCCAGCTCAGCAGCGCCCTCCCTCAACCACACCCTGGGTCCGGACCCAGAGCCACAGGC
CGTTGGACCCAGGGGACCGGGGCTGGGCTCAGGCGTGGGCCTGGAGGGCTTGTGGAGGGGCCAGACCTAGAGCCG
TAGGGCTCCAACAGCTGAGGGCTGGGCCCCCTGCCGGCCATGAAGCTCCAGACCAGTGTCTCCGGCCTTGCGGGTG
CCAGCAGTGCTCCTGCAGGGATGGAGGGTGTGAGGGCTGATGCGGGGACCTTGATCCCCCAGCAGGCAGCGC
TGTGTTCCAGCCACTCAGGAGGCTGAGGCAGGAGAATGGCATGAACCTGGGAGGCGGAGCTTGCACTGAGCTGA
GATCGCACCCTGCATTCCAGCCTGGGCGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAGAAGTTT
CTAGATCTACTGGGCATGATGAACACAAACCCACAGACACTGAGGAACCCAGTGGTGGCAGTGACTCGGGCTCC
TCTGCTCTCTAAAGCTCCTTTGAGAAACATGGGAGGGGGCCGGGCGTGGTGGTTACGCCTGTCTATCCAGCACTT
TGGGAGGCTGGGGCAGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGGCAACATAGTGAGACTGTATC
GCTACATAAAATAAAAAAAAAAGTTAGCTGGGCATTGTACATGTGCCTGTGGTCCCAGCTACTCAGGAGGCTGAG
GCAGGAGGATTGCTTGAGCCCAGGAGTTGGATGTTGCAGTGAGCCAAGATCGCACCATTGCCCTCCACTCTGGGC
CACGGAGCAATACCCTGTCTCAGAAAAACAACAACAAAAGCAGAAACGCTGAAGGGGTCCGGTTTACGGGAAAAC
CGCCTGTCTAGAACACTTGGCTACTCCTACCCAGATCAGTGGACCTGGGAATGAGGGTTGGTCCCGGGAGGCTTT
TCTCCAAGCTGTTGCCACCAGACCCGCCATGGGAACCTTGGCCACAGAAGCCTCCCGGGGAGTGAGCCAGAGCCT
GGACCGCTGTGCTGATGTGTCTGGGGTGGAGGGAGGGTGGGGAGTGTGCAAGGGTGTGTGTGTGCCCGGGGGTG
TTCATGGGCAAGCATGTGCTGCCTGTGTGTGTGCTGTGCTGCCCTCCCTGCGACGCTCGGTGGTATCTCCCTCCAG
CCCCTTCGCCACCTTCTTGACCTATGTCTGTCCGTGAGACTGCCAGGACAGCAGTCCACCTGAGTGGTGGTAA
GGGGAGACCTTTCCCTGGACCTGGGGGTCTCGCCGTATCTCATGACCAGGTGCTAAATGACACGACATGCATCAC
CTGCTTTCGATGACCAACCTCCCTGTCCCCGTCCCGCTGACCTGCCCCCCGTGGCGTCTCACGGTGATGCCTGCT
CCTGACATTGGTGTTCCTGTAGCAAACTACATTCTGGATGGGAATTTTCATGTACATGTGTGGCATGTGAAAA
TTTCAATAAAATGGACTTGATTAG

4822/5332
FIGURE 4187

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT
GGATGATGATATCGCCGCGCTCGTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC
CCCCCGGGCCGTCTTCCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTGAGAAGGA
TTCTATGTGGGCGACGAGGCCAGAGCAAGAGAGGCATCCTCACCCTGAAGTACCCCATCGAGCACGGCATCGT
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCAGGAGCA
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACCGCGAGAAGATGACCCAGATCATGTTTGAGAC
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCCTCTGGCCGTACCACTGGCAT
CGTGATGGACTCCGGTGACGGGGTACCCACACTGTGCCCATCTACGAGGGGTATGCCCTCCCCCATGCCATCCT
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCGAGCGCGGCTACAGCTTCAC
CACCACGGCCGAGCGGGAAATCGTGCCTGACATTAAGGAGAAGCTGTGCTACGTGCGCCCTGGACTTCGAGCAAGA
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCCTGGGCATGGAGTCCTGTGGCATCCACGA
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCTGTCTGG
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAA
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCAC
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTA
GGCGGACTATGACTTAGTTGCGTTACACCCCTTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG
CATGGCTTTATTTGTTTTTTTTGTTTTGTTTTGGTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG
CACATTGTTGTTTTTTAATAGTCATTCCAAATATGAGATGCGTTGTTACAGGAAGTCCCTTGCCATCCTAAAAG
CCACCCCACTTCTCTCTAAGGAGAATGGCCAGTCCTCTCCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT
CGTGTAATATGTAATGCAAAATTTTTTAATCTTCGCCTTAATACTTTTTTATTTGTTTTATTTTGAATGAT
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGA
GTGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

4823/5332
FIGURE 4188

GCGGAGGGTGCGTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCCGCGCAGGGACCCGCCACCCACCTC
CCGGGGCCCGCGCAGCGGCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG
TTCGGCCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC
AGCCACCTGGGCCGCTACCTGGCGGGCGACAAGGACGGCAACGTGACCTGCGAGCGCGAGGTGCCCCGGTCCCGAC
TGCCGTTTCCCTCATCGTGGCGCACGACGACGGTCGCTGGTGCCTGTCAGTCCGAGGCGCACCGGCGCTACTTCGGC
GGCACCGAGGACCGCCTGTCCTGCTTCGCGCAGACGGTGTCCCCCGCCGAGAAGTGGAGCGTGCACATCGCCATG
CACCCTCAGGTCAACATCTACAGCGTCACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGCCGCGCCGACGAGATC
GCCGTGGACCGCGACGTGCCCTGGGGCGTCGACTCGCTCATCACCCTCGCCTTCAGGACCAGCGCTACAGCGTG
CAGACCGCCGACCACCGCTTCTTGCGCCACGACGGGCGCCTGGTGGCGCGCCCCGAGCCGGCCACTGGCTACACG
CTGGAGTTCCGCTCCGGCAAGGTGGCCTTCCGCGACTGQAGGGCCGTTACCTGGCGCCGTTCGGGGCCAGCGGC
ACGCTCAAGGCGGGCAAGGCACCAAGGTGGGCAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCCCAGGTC
GTGCTGCAGGCGGCCAACGAGGAACGTGTCCACGCGCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG
ACCGACAGCTGACGGCCACCGGGGGCGTGAGTCCACCGCCTCCAGCAAGAATGCCAGCTGTACTTTGACATC
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG
GCCGCTCGGTGGAGACAGCAGGGGACTCAGAGCTTTCCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTC
CGCGGGGAGCATGGCTTCATCGGCTGCCGCAAGGTACGGGCACCCTGGACGCCAACCCTCCAGCTATGACGTC
TTCCAGCTGGAGTTCAACGATGGCGCCTACAACATCAAAGACTCCACAGGCAAATACTGGACGGTGGGCAGTGAC
TCCGCGGTACCAGCAGCGGCGACACTCCTGTGGACTTCTTCTCGAGTTCTGCGACTATAACAAGGTGGCCATC
AAGGTGGGCGGGCGCTACCTGAAGGGCGACCACGCAGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC
TCGCTCTGGGAGTACTAGGGCCGGCCGTCCTTCCCCGCCCTGCCACATGGCGGCTCCTGCCAACCTCCCTG
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCTTTCAAACCTGGAAACCCAGAG
AAAACGGTGGCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCTCCGCCCCGGTTCCCTACTCCCTCGGG
TCAGCGGTGCGGCCTGGCCCTGGGAGGGATTTAGATGCCCTGCCCTCTTGTCTGCCACGGGGCGAGTCTGGC
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG
AGCCCTGGGCGTGAGTGTAAGTGAATCTTTTGCCTCTCCAGCCACCTCCTCCAGCCCCCAGGAGAGCTGG
GCACATGTCCAAGCCTGTAGTGGCCCTCCCTGGTGCCTGTCCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT
CGGGTGGGCTAGGACTGACCCTTGTGGTGTTTTTTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGCAGA
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCCGTCTTCCTCCTGTCTCTTTCTTTACCCCTAGCCTGACTG
GAAGCAGAAAATGACCAAATCAGTATTTTTTTAATGAAATATTATTGCTGGAGGCGTCCCAGGCAAGCCTGGCT
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGGTGCATCTCAGCCCCCTCTTTCCGTC
CTTCCCGTCCAGCCCCAGCCCTGGGCCTGGGCTGCCGACACCTGGGCCAGAGCCCCCTGCTGTGATTGGTGCTCCC
TGGGCCTCCCGGGTGGATGAAGCCAGGCGTCGCCCCCTCCGGGAGCCCTGGGGTGAGCCGCCGGGGCCCCCTGC
TGCCAGCCTCCCCCGTCCCCAACATGCATCTACTCTGGGTGTCTTGGTCTTTTATTTTTTGTAAAGTGTCATTG
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAATAGCGAAATAAAATAACTCAGTCTGC

4824/5332
FIGURE 4189

AGTCGGGAGGGGGCGCTGTGCGCAGGCGCGAGGTGACGCCGCGGCAGGGCCGGAAGGAGTGCAGCGGCTGCCACG
GAGCTCGCAGCTGCGGCTTCTGAGGAGTAAGCGGCGCGGTAGCGAAGGCCGCCGAACCTGCCTGGCTAGCCGGCG
ACTTGATTTTTCAGTTCTTTTGAACAGATGGTCACCATGTTTAGATATTAGCAGTCCCATATATGCATGCTGCA
TTTGAAGATGGAAGAGGGAAACAACAATGAAGAGGTAATTCACCTTGAACAACCTTTCAGTCCATCGGGGACAAGT
TGCCTAAATAGACTTTTGTACTATTCTAAATTGACCCCTCTTGACCAGCGCTGCTTCATCCAAGCTGCTGACC
TCCTCATGGCCGACTTCAAAGTGCTCAGTAGTCAGGACATCAAGTGGGCCCTGCACGAGCTCAAAGGACACTATG
CAATCACCCGAAAGGCCCTTGCTGATGCCATTAAAAATGGCAGGAGCTGTCAACAGAAACCAGTGGAAAAAGGA
AGAAGAGAAAACAATGAACCACTATTCTTACATTGATTTCAAGTTTGAACAAGGTGACATAAAAAATAGAAAAGA
GGATGTTCTTTCTTGAATAAGCGACGACATTGTAGGTCCTATGACCGACGTGCTCTCCTTCCAGCTGTGCAAC
AAGAGCAGGAGTTCTATGAGCAGAAAATCAAAGAGATGGCAGAGCATGAAGACTTTTGTCTGCCCTACAGATGA
ATGAAGAACAGTATCAAAGGATGGCCAGCTGATTGAGTGTGCTGCTGCTATGGGGAATTTCCATTCGAGGAGC
TGACGCAGTGCAGATGCTCACTTGTCTGCAAAGAGTGTCTCATCAGATATGCCAAGAGGCAGTCTTTGGAT
CTGGAAAGTTGGAGCTCAGCTGCATGGAAGGCAGCTGCACGTGTTCTGTTCCCAACCAGTGAGCTGGAGAAGGTGC
TCCCCAGACCATCTGTATAAGTACTATGAGCGAAAAAGCCGAGGAGGAGGTTGCGGCAGCCTACGCCGACGAGC
TTGTTCAGGTGCGCGTCTGTAGCTTTCCGGCTCTGTTGGACAGTGATGTGAAGAGGTTTCAGCTGTCTTAATCCTC
ACTGCCGAAAGGAAACCTGTAGGAAGTGTCAAGGACTCTGGAAGAACATAATGGCCTCACCTGTGAAGAGCTGG
CTGAAAAAGACGACATCAAGTACCGTACCTCTATTGAAGAAAAAATGACTGCTGCCCGCATTAGAAAAATGCCACA
AGTGTGGGACTGGCCTCATCAAATCTGAAGGCTGCAACCGCATGTCTTGCCGCTGTGGTGCCAGATGTGCTACC
TCTGTGAGTTTTCTATTATGGATATGACATTTCTGCCAACATCCCCGCTCACAGGAGCCCCCTTGCCAGGAGT
GTTCAAGATGCTCTCTTGACCGATCCCACTGAAGATGATGAGAAGCTTATTGAGGAAATCCAGAAGGAGGCTG
AAGAGGAACAGAAAAGAAAGATGGAGAGAACACCTTCAAACGCATTGGACCCCCGCTGGAGAAGCCTGTGGAGA
AGGTGCAGAGGGTGGAGGCCCTCCCGAGGCCGCTTCCGCAGAACCTGCCACAGCCACAGATGCCACCCATAGCCT
TCGCGCACCCACCTTCCCCCTGCCTCCCGTGCAGGCTGTGTTCAACAACCTTCCCACTCAACATGGGGCCTATCC
CAGCCCCGTACGTGCCCCCTCTGCCAACGTGCGGGTCAACTATGACTTCGGTCCCATCCACATGCCCTTGAGC
ACAACCTGCCCATGCATTTGGCCCCAGCCGCGGCATCGCTTCTGATGGCCCCGAATCCCCATTGAGCAGCACA
AAGCCCGTTTGGGGTAGGAGTGTGGATGGAGAACCCTCCCCAAGGCTGGTGTCTGTACCATTGCATCCTAAGTC
AGCTTGAAGGGTAGGCTGGTTTTCTTCCACCCCTTTCTAGAAAGGGCTACTGCTCCTGGAAGAGTGGACGGATC
CATAATAAAGACGTCCCAAATGGTGGAGTTCGGAGAGAGCTGCGATGTGAAGTGGCCCTCCCTCGCATCCCCCA
GGCCACCAACGGCAGTCTTCTGCCTTGTCCATGGCATAGGCCATAGACCAGGTCCCTGCTGCTCACACCTGGGC
CTCTCCTCGGAGCCGACCCCTGGGTAGCAAGGCAGCCGAGAGCATCTCCCTGGAGGGGGCCACGGTTGGGCCAAG
GGCAGAGGGGGCTGCACCTGCGGGCCTGGGAAGCATTGCTCAGGGTGGGGGGCTGGGACCATGGCCCCGAGAGGC
ACTGCCACAGCTGTGAGGGCCAAGATGCTGTCCCCCATCCAAAACCCGTGCGCCACTGCAGTGAGTGTGAGGG
CACCTCTCCTCCCTCTTACACCTACTCAGATGAGGCAGCAGCAGACCCATCTCGCGGCGGGGGTTTTGTCTGT
TGCCGCTAACTTTCTCATCTCGGTCTCTGGAAGTCAAGGTGAGAAATCCTTTCCAGGCCAGGCCGCTGCGG
TACACTGGATGGTTCTGAAGCTGGCCCATTTGAAGAGCCTCTTAAGGCAGCTGGGACAGAGGCCTGGTGGCCCTG
CTGGGCAGCCCAACTGCTGGGGGAGACGTTTTCTGCCACCCTGGGTGATGAGCAGCTTTTCCCCCTGGCTTTCTG
GGGGAGGAGTGGGCCTCCTTAGGGAGACAGGTGACCCCTGGGTGCCACCCCTGCCCGTGTGTGCCCGGGTGTTC
TCAGTGGTTGCTGAAGGCAGGTAGAGGGTGTGTCCAGTATCCCCATGTGAAGGTCACTTCCCTTCTCATGGAG
TCAGCTGAGCATCAGCTCAGCCCTGCCATGTCCCCACTCACCTCCTCGCCTCCTGTCCGGCCCTGGGTTTCTAG
CGGTGCCTGAGGCATCACTCTGGCCCATTTGACAGATGAGAGGTCTGAAGCCTTCTTGCCACAGGCATCACTTTC
TCCTCCTCCTCATGCCCTGCCTTGTCTTGTGCTGTGCCATGGGGTTCTGAGAGGCTGGGAGTTCACAGACCTC
AGACACAGCTGAGTCCGACAACCATTTGGGGTGGGGCTGCATCAGTCTCCGGAGTGGCCCGCCACCTCTGAAGCA
GGGCCTGGCCACCCAAAGGTGCCTGGGGCAGGCGGGCACCGTCATTGCTGCCATTGGCTTCTCAGATGTATTTT
AAGGACTAAAGTGGGCTCTAAGATCTAAGATGGCCCGGCGGGTGGCTCCCGCCTGTAATCCCAGCACTTTGGGA
GGCCGAGGCGGGCGGATGAGTTGAGGTGCGGAGTTTGTGTCCTCTACTAAAAATACAAAATTAGCCGGAC
AAGGTGGCGCATGCCTATAATCCCAGGTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAG
GTTGCAGTGAGCCAAGATTGTGCCACTGCACTCCAGCCTGAGCAACAAAAGCAAACTCTATCTTT

4825/5332
FIGURE 4190

GTCTCTGGGCGGGCCGTGGGAGGCTCCCGAGGTGGGGGCGGGGCGGGGATGGCTGCAGCGGCGGGCCGGGGCCGGG
AGCGGGCCCTGGGCGGCCAGGAGAAGCAGTTCCCGCGGCGCTGCTGAGTTTCTTCATCTACAACCCGCGCTTC
GGGCGCGCGAAGGACAGGAGGAAAAAAGATTTTATTTTATCATCCAAATGAGGTAGAAAAGAATGAGAAGATT
AGAAATGTCGGATTGTGTGAAGCTATTGTACAGTTTACAAGGACATTTAGCCCATCAAAACCTGCAAAATCTTTA
CATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTGGATGGTCATGGTTGTTTCGGAATCCT
ATAATTGAAAAACAGAGTAAAGATGGAAAACAGTTATTGAATATCAAGAGGAGGAGTTGTTGGACAAGGTTTAT
AGCTCGGTGCTGCGGCAGTGCTACAGCATGTACAAGCTTTTTAATGGTACATTTCTGAAAGCCATGGAAGACGGA
GGCGTCAAGCTTCTGAAAGAAAGATTAGAGAAATTCTTCCATCGGTATTTGCAAACGCTACATTTGCAGTCATGT
GACCTACTTGACATTTTTTGGTGGAATCAGCTTCTTCCCGTTGGATAAAATGACTTATTTGAAAATCCAGTCCTTT
ATTAATAGAATGGAGGAAAGCCTGAATATAGTCAAATACACTGCTTTTTCTCTATAACGATCAGCTCATCTGGAGT
GGATTAGAACAAGATGACATGAGAATTTTATACAAATACCTTACCACCTCCCTTTTTTCCAAGGCACATCGAACCT
GAGTTAGCAGGAAGGGATTCTCCAATAAGAGCAGAAATGCCAGGAAATCTTCAACACTATGGAAGATTTCTTACC
GGACCCTTGAACCTCAATGATCCAGATGCAAAATGCAGATTCCCCAAAATTTTGTAAATACAGATGACACTTAT
GAAGAGCTCCATTTAATCGTTTATAAGGCCATGAGTGCGGCTGTGTGCTTTATGATCGACGCCTCTGTCCACCCA
ACGTTGGATTTTTTGCCGAAGACTGGACAGCATCGTTGGGCCCCAGCTCACAGTGCTGGCCTCTGACATCTGTGAA
CAGTTTAACATCAACAAGAGGATGTCCGGGTCTGAGAAAGAACCCAGTTTAAGTTTATCTACTTCAACCACATG
AATCTCGCCGAGAAGAGCACAGTTCACATGAGGAAAACGCCAGCGTGTGCTCACTTCCGTGCACCCGGATTTA
ATGAAGATTCTCGGTGACATCAACAGTGACTTTACCAGAGTGGATGAAGATGAGGAGATCATTGTGAAGGCCATG
AGTGATTACTGGGTTGTTGGAAAGAAGTCTGATCGGCGGGAGCTCTATGTTATTTGAATCAAAAAAATGCAAAAC
CTGATTGAAGTAAATGAAGAGGTCAAGAAACTTTGTGCAACGCAGTTCAACAACATCTTCTTCTTGGATTGACGG
ATGACGGCTCACCGAGAGCATATCTAAAAAACACTCTGCAAACATTTGGTCACATGCAAGTTAGTGGTCATATGA
CGGACTGCATTACAGGACAAGGGTAAAGCAATACTTGCTTTGAAGAATCACATTTGACTCGGTCTGCTGATCTGA
GGTTTTTAGATTTTAAATATTTATGTGGAATTAATTAAGGTAGTTGGCTATATCGCTATCATTTCATTCTTTTG
ACATTATGTGAATATTTTACTGGAAAATAAGACTAATAAATTGTTAAAAGTTTTTAAATTTCTGGTTTGGTGTG
AGTCTCTCTCCTGCTGCCATTTTATAGATTACACTGGCCACCAGCTCCGTGACCCAGGCTGGAATGCAATGGCTC
ACTGCAGCCTCAACCTCCTGAGCTCAAGCAATCCTCCCACCTCAGCCTCCCAAGAAGCTAGAACCACATGTACAC
ACCACCACGGTCGGCTGATGTTTTAATTTTGCAGAGATGGGGGGTCTCACTATGTTGCCAGGCTGGTCTCGAA
CTCCCGTAATCCAGCCATGTAGGAAACCTGAGATGCAGTGGGCCAAGGGGTATGTTAAAACACTGTGACGAGTTC
AGTGCTAAGAACTGTAATGCTCAGGAAATCTTACAGCACGTGCCATCCTAAGCCTGTGTGTGTGTCCTCGTGTCT
CTCTACTTTTTCTTCTTCTTGTGTTGATGGTCTTGCTGGATGGGGACACGGTCACATCCTCCTTGGGAGGGTCC
AGTATGAGGTGAGAGGATGACACGTCTGCCGGCTCCTTGAGCACTGTGATGTCCACCTCATAGTCATGTCTCTTG
GCCTCTTCTCTCTCAAGATGAAGATGTTACAGCT

4826/5332
FIGURE 4191

CGAGGCGGATCGGGTGTTCATCCATCGAGCGAGCTGAGAGCTCGAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCAGGTGGTACTGAGTCTAAGCACTGCGGTAAAGGAGTTA
GTAGAAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTTATTGAA
GTTTCAGACAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAAGTCTGAAACATCACACATCTAAGATT
CAAGAGTTTGCCGACCTAACTCAGGTTGAAACTTTTGGCTTTTCGGGGGGAAGCTCTGAGCTCACTTTGTGCACTG
AGCGATGTCACCATTTCTACCTGCCACGCATCGGCGAAGGTTGGAAGTTCGACTGATGTTTGATCACAATGGGAAA
ATTATCCAGAAAAACCCCTACCCCCGCCCCAGAGGGACCACAGTCAGCGTGCAGCAGTTATTTTCCACACTACC
GTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGGAGTATGCCAAAATGGTCCAGGTCTTACATGCATACTGT
ATCATTTTCAGCAGGCATCCGTGTAAGTTGCACCAATCAGCTTGACAAAGGAAAACGACAGCCTGTGGTATGCACA
GGTGGAAGCCCCAGCATAAAGGAAAAATATCGGCTCTGTGTTTGGGCGAAGCAGTTGCAAAGCCTCATTCCTTTT
GTTTCAGCTGCCCCCTAGTGACTCCGTGTGTGAAGAGTACGGTTTGAGCTGTTCCGATGCTCTGCATAATCTTTTT
TACATCTCAGGTTTCATTTACAAATGCACGCATGGAGTTGGAAGGAGTTCAACAGACAGACAGTTTTTCTTTATC
AACC GGCGGCCCTTGTGACCCAGCAAAGGTCTGCAGACTCGTGAATGAGGTCTACCACATGTATAATCGACACCAG
TATCCATTTGTTGTTCTTAACATTTCTGTTGATTGAGAATGCGTTGATATCAATGTTACTCCAGATAAAAGGCCAA
ATTTTGCTACAAGAGGAAAAGCTTTTTGTTGGCAGTTTTAAAGACCTCTTTGATAGGAATGTTTGATAGTGATGTC
AACAAGCTAAATGTTCAGTCAGCAGCCACTGCTGGATGTTGAAGGTAAGTAAATAAAAATGCATGCAGCGGATTTG
GAAAAGCCCATGGTAGAAAAGCAGGATCAATCCCCTTCATTAAGGACTGGAGAAGAAAAAAGACGTGTCCATT
TCCAGACTGCGAGAGGCCTTTTTCTCTTCGTACACAACAGAGAACAAGCCTCACAGCCCAAAGACTCCAGAACCA
AGAAGGAGCCCTCTAGGACAGAAAAGGGGTATGCTGTCTTCTAGCACTTCAGGTGCCATCTCTGACAAAGGCGTC
CTGAGACCTCAGAAAAGAGGCAGTGAGTTCCAGTCACGGACCCAGTGACCCCTACGGACAGAGCGGAGGTGGAGAAG
GACTCGGGGCACGGCAGCACTTCCGTGGATTCTGAGGGGTTGAGCATCCAGACACGGGCAGTCACTGCAGCAGC
GAGTATGCGGCCAGCTCCCCAGGGGACAGGGGCTCGCAGGAACATGTGGACTCTCAGGAGAAAGCGCCTAAACT
GACGACTCTTTTTTCAGATGTGGACTGCCATTCAAACCAGGAAGATACCGGATGTAAATTTTCAGTTTTGCTCAG
CCAATAATCTCGCAACCCCCAAACACAAAGCGTTTTAAAAAAGAAGAAATCTTTCCAGTTCTGACATTTGTCAA
AAGTTAGTAAATACTCAGGACATGTCAGCCTCTCAGGTTGATGTAGCTGTGAAAATTAATAAGAAAGTTGTGCC
CTGGACTTTTTCTATGAGTTCTTTAGCTAAACGAATAAAGCAGTTACATCATGAAGCACAGCAAAGTGAAGGGGAA
CAGAATTACAGGAAGTTTAGGGCAAAGATTTGTCTGGAGAAAATCAAGCAGCCGAAGATGAACTAAGAAAAGAG
ATAAGGTTAAACGATGTTTGAGAAAATGGAATCATTGGTCAGTTAACCTGGGATTTATAATAACCAAAGTGA
TGAGGATATCTTCATAGTGGACCAGCATGCCACGGACGAGAAGTAACTTCGAGATGCTGCAGCAGCACACCGT
GCTCCAGGGGCAGAGGCTCATAGCACCTCAGACTCTCACTTAAGTCTGTTAATGAAGCTGTTCTGATAGAAAA
TCTGAAAAATTTAGAAAGAATGGCTTTGATTTTGTTATCGATGAAAATGCTCCAGTCACTGAAAGGGCTAAACT
GATTTCTTGCCAACTAGTAAAAACTGGACCTTCGGACCCAGGACGTCGATGAAGCTGATCTTCACTGCTGAGCGA
CAGCCCTGGGGCTATGTGCCGGCTTCCGAGTCAAGCAGATGTTTGCCCTCCAGACGCTGCCGGAAGTCGGTGAT
GATTGGGACTGCTCTTAACACAAGCGAGATGAAGAACTGATCACCCACATGGGGGAGATGGACCACCCCTGGAA
CTTGCCCCATGGAAGGCCAACCATGAGACACATCGCCAACCTGGGTGTCATTTCTCAGAACTGACCGTAGTCACT
GTATGGAATAATTGGTTTTATCGCAGATTTTTATGTTTTGAAAGACAGAGTCTTCACTAACCTTTTTTGTTTTAA
AATGAACCTGCTACTTTAAAAAAAATACACATCACACCCATTTAAAGTGATCTTGAGAACCTTTTTCAAACC

4827/5332
FIGURE 4192

CCGAACGCCCGCAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCTGACCTCTGACGGTTTCTGAGCGTTGGC
CTTTGGCACGCGCTACCCCTTTTGGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG
GCGCGCCTCTCCGTGTGGAGCTTCCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCCAG
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT
TAAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG
ATGTAACCAACATAATCCAAGCGGATGAGCCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCCTCCCCTCTCCCTGCTTGTGC
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGCAACGCACTCCTCGGTCAAGAGCGTGCCTG
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCCAAGACTATCAGCTGGGATTCACTTTAA
TTTGGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA
TTGCACGTTTTCTGTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCCTTATAGATAGCTGGGTAG
ATATTGCGATTTTTTCAGTTAAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACTCTGCTC
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTCACCGTAGCAGACGTGGTGCTGTGGTCTGTACTCCAGCAGA
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAAGTATTTTAAAGGGTTTAGATTTTAAAGATGGTGCTCTT
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTTATTTAGGCCAGTTGTCAAGTGTCAT
AAAAGCATCATGTAATTTA

4828/5332
FIGURE 4193A

GTTACTTCCGGGTTCGGACGGCGCTAGCTGCAGCATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTG
CGGCCCCGCGCGCGGCCGCGGATGTCAGGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTG
GGGCTGTGGCTGCGCCGCGCGCCATCGACTTTCCCGCCGAGGGCCCGGACCCCGAATATGACGAATCTGATGTTT
CAGCAGAAATCCAGGTGTTAAAGAACCCTACAACAGCCAACCTTCCCTTTTGCAGTTGCAAACCAACTCTTGC
TGGTTCTTTGCTGGAGCACTTGAGCCACGTGCATGAACCAAACCCACTTCGTTCAAGACAGGTGTTTAAGCTAC
TTTGCCAGACGTTTATCAAAATGGGGCTGCTGTCTTCTTTCACTTGTAGTGACGAGTTTAGCTCATTGAGACTAC
ATCACAACAGAGCTATTACTCACTTAATGAGGTCTGCTAAAGAGAGAGTTTCGTCAGGATCCTTGTGAGGATATTT
CTCGTATCCAGAAAATCAGATCAAGGGAAGTAGCCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAG
AACTTGCCATCTTAGGAAAAGGTGGATACGGAAGAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATG
CAATAAAAAAATCCTTGATTAAAGGTGCAACTAAAACAGTTTGCATGAAGGTCCTACGGGAAGTGAAGGTGCTGG
CAGGTCCTTCAGCACCCCAATATTGTTGGCTATCACACCGCGTGGATAGAACATGTTTCATGTGATTACGCCACGAG
CAGACAGAGCTGCCATTGAGTTGCCATCTCTGGAAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTG
TAAAAATGATGAAAGTAGCAGCTCATCCATTATCTTGTCTGAGCCCAACCCAGAAAAAGAAAAACGCTTTGGAG
AATCTGACACTGAAAATCAGAATAACAAGTCGGTGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAAC
TTGAGTCGACCCTGGAGCTCCAGGAAAATGGCTTGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGC
CACTCAGGCGTAATTCCACCTAGAGGAGAGTTTTACATCCACCGAAGAACTCTCCGAAGAAAATGTCAACTTTT
TGGGTGAGACAGAGGCACAGTACCACCTGATGCTGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATT
GGATAGTCGAGAGAAACAAGCGGGGCCGGGAGTATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAAATGTTG
CAACAAAAATTTTTCAAGAATTGGTAGAAGGTGTGTTTTACATACATAACATGGGAATTGTGCACCGAGATCTGA
AGCCAAGAAATATTTTTCTTCATGGCCCTGATCAGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGCACAGACA
TCCTACAGAAGAACACAGACTGGACCAACAGAAACGGGAAGAGAACCAACACATACGTCCAGAGTGGGTACTT
GTCTGTACGCTTACCCGAACAGTTGGAAGGATCTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGG
TCCTGCTAGAGCTCTTTCAGCCGTTTGAACAGAAATGGAGCGAGCAGAAGTTCTAACAGGTTTAAAGAACTGGTC
AGTTGCCGGAATCCCTCCGTAAAAGGTGTCCAGTGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACTCAT
CGCAGAGACCATCTGCCATTACGTGCTGCAGAGTGAACTTTTCCAAAATCTGGAAATGTTAACCTCACCCCTAC
AGATGAAGATAATAGAGCAAGAAAAAGAAATTGCAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAAG
GGGTGAGGGATGACGGAAGGATGGGGGCGTGGGATGAAGTGGACTTAACCTTTAAGGTAGTTAACTGGAATGT
AAATTTTTAATCTTTATTAGGTATAGTTGGTACAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTTA
AAGATGTCAGAGTGCCCCAAGCTGCCGTTCCCTTCCCTTCCCTGCCCCACAAGCTCCTTTTCTGAATTTCTACCT
AAATATTAACCATATGCCTAGTCTCTGAACTAAAACTTGGACCTCATCTCAATTATTTCTCCTTTCAACTC
TGTTGACCCTCTGTCTGGTCTTCTCTAGAAGGTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCC
CAAGCCCCGGGCTGCACATACTCACTGGACTGTTCCAGTTTTGACAGCTGCCAGTCTTCTGCCCTTTACACT
GCAGCTGAAGTTTATTACCTGAAGGACGCCTCATCTTTTCATCTTGGCTCCAAACCTTCTGCTGCCTCTAAGA
TAAAGCTCAACTTCTTAACAGTGACAGTGTGCAACTTCCAACTTTTTATCTGTTCTCTCCACCTTCAGTTTA
GCGTCATTCCAAAACCAACCCCTTGCAAAGCTTTGTACTCCGACCCAGATGATCTCCAGGCAGCTCAGATCTC
TTTCTGCTTTGCCCTGCACTGTTCCCCGGTACTTCTCTCTTTATTGTAGCACTCAGCTCCCCAGCCAATCTGT
ACATCCCTCAGAGGCAGCGATCTGATGAATTGGTTTTTGAATCCCAGAAAGGGTCTGCCATGGAGTTGGCAGTCA
TCACGGTAGATGGCGTATGATTTTGCTGAATTTTAAATAAAATGAAAACCATAAATTACATGATGCTTTTATTGA
CACTTGACAACCTGGCCTAAATAAAAAGACTCTGACTCTAATACAAGTCCCTTACTGATAATAGGCATGAAAGAG
CACCATTCTTAAATCTAAACCCCTTTAAATCAGTTACGGCAATTCACCTAAGGAGCTTGAGGGCCGTGTTAAAA
GGAGCCAGGTTTTACAAGACCTCATCCACCTCTGCACATTGGCTGGCACTGTACACTGCAGCCTCCGATCTGC
TGGAGTACAGACCACAGCACCACGTCTGCTACGGTGAGTTTATCCAGCGAGCCAAGGGCTCTTCCCAAGAGCA
GAGTTCATGGAGCGGAAAACAGCGGCTTTTTCTTTACTGCTTCCCTCTTTTAACTGAAAAATCGCAATATCTACC
CAGCTATCTATAAGGGTTGCGTTGACAGCATTATGCTTCTGGCCAAACAGAGAGAACAAAGAACGTGCAATGTTT
CCTTCGCCCTTCGATGGGGCACATCGTCTGGATGCTGAATTTTCATCTGCGTCTTCGGCACTGAAAAGAAAAACAC
GCCAGGTAGCATACCAGAGCAGCCCTGAGGGAAGTACTCGCACAGTGGGGAAGGGGACAGTCACCAAACACCAC
AGACTGATGACATGGGAAAGGGTGTTCCTCAAGAAGAACATCACATTTTTCAGTCTGTCTCTAAGATGCTTACTACT
GAAAAGGGTTTAAAGTGCAACTATGTTAAAAAAGTAACCAAAGAGTCATTCTGGTATTTGATTATGACACTTCT

4829/5332

FIGURE 4193B

GAAGCTAGAAGGGACCTCAGACCACCTGCTCCAATCCCTGCTGCCTAAGGTTTTGGGGGCTGAGGGCTGGAAACC
CAGGAGCTGCATCTCCCAGGCTCTTGGCCTCATAATCGCCTTCTGTGAGACTGAGGGCAATTAAGATATGAATGA
CATGAACTCGCTTATCTCCATATCAACATAAAACCAGAAGAGGCATACATCTGTGGGATAGTCAATACATAACATC
CTATCTTTATATGGCCATATGAGAAGATAACTTCAGTGTCCCTATGATGGTAAGTTCTTGAATGTGAGGGCAAGA
TGGCTGTGATAGCCATGACTCCCCGCTTTGCCTGGTTGGACAGAACCCCTTCCCCAAATGCTCACAGTCCCCC
CTTGAGCTGTGCTCACTCAGAGACCCTAAATTTTGCAGACGAACAAGGGCATCTTTGCGTTGCTTCATCTCTGC
TCCTCCTCTAGAACTATCCCACAGGCTTTCTAGACTTAGAATATCTGACCTGATGCAAATCGCTATGTGGCCAGT
ATGCCACAGAATGTCCTAAACCCTTGCTGCCTCTTATCAAAACCATGTTGCACATCTCATCATATAGTACAGCTA
ACCTTGAAACAGTGGGGGGGTTAGGGACACTGACCCCGACTGCTGTGCAGTCGAAAATCCACATAAACTTCTG
ACTCCTTCAAACTTAAGCACTAATAGCCTACTATTATGCGGAAGCCTTACCCATCACAGTTGATTAACACGTTT
TGTATGGTCTGTATATTATATGCTATATTCTTACAATAAACTTGAGAAAATGTTAAGAAAAT

4830/5332
FIGURE 4194

CGGCCAGGCTGGTACAGGCGGCTGCTCGCGGAGGCATTCTCCGAGCGTGACGTGCGGACTCCGCTCCACTGCGG
CCCCCCCCCGCCCGGTCTAGCCGCGCCTCCTTCGCTCCCTGAGCACGCCAGGCGAGGGTCAGCTGCCGGGGCG
ACGCGGCGCGGAGAGGGCGGGCGGGGGGGCTGTGGGAGCGCCGGTCTCTATATGCGCGGCGGCTCTGTGCGGCCTG
GCTGTCCGGCTCTCGCGCTCGGCCGCCGCCGCTCCTATGGGGTCTTCTGCAAGGGGCTGACTCGCACGCTGCTC
ATCTTCTTCGACCTGGCCTGGCGGCTGCGTATCAACTTCCCCTACCTCTACATCGTGGCTTCCATGATGCTCAAC
GTCCGCCTGCAGGTTTCATATTGAGATCCATTGAAGGCCCTCCAGACTGACGAAGGCGTGACCTCAGGCCACCG
CATCCAAGAACACGAAGCATGAGGGACAGAAGAGGGCCCCCTCGGCACCTGCCTGGCACAAGTGCAGCAGGCCGA
GGAGGTGACTCGGACAACTATCATGCAGCCTTAAGAAAAGAATGCCGGAGGGCCCTTGGCCTGCAGATGCACCC
TCCTGGATGAATAAGCCTGTGGTTGATGGAATTCACAAAGTGAGGCATTATCACTGGAAATGAGAAAGGATCCG
AGCGGGGCTGGCCTCTGGCTTCACAGTGGCGGCCAGTGCTTCCATATGTGAGAGAATCAGTAAGAAGAAATCCA
GCCTCAGCAGCCACTCCGAGCACAGCCGTGGGTTTGTTCCTGCTCCAACAGAGTGTTTTGCTCGGGTGTCTGCTG
AGTGGTGTGAAGCTCTGGGGCGCGGAGACTGGCTGGGAGGAGGGCCAGGGCCACTGACGGCCACAGAGGACAG
TGCCCCAAAGGAGAGCCTCGGGTGTACGACTGCCACGCCATCAAAAAGTGCCGGAATGGGAAGTTTTTCAGGAT
GACCCACCAAGTGCTTTTCCCAAGGGTCTGGGCTCTGAGTTGGAACCCGCTTGCTGCACTCCATCCTGTCTGCA
ACGCTGCACGTGTATCCCGAAGTGCTCCTGAGTGAGGAGACAAAACGCATTTTCCTTGACCGTTTAAAGCCCATG
TTTTCAAAGCAAACAATAGAATTCAAGAAAATGCTTAAAGCACCTCAGATGGTCTGCAGATAAACTGGGGTTA
CTGGCTCTGCAACCTTTTGAATTAGCAAATACATTATGCCATAGTTAAGGTACAAGCAGAAACAATACCAATAGAT
TAATTTTAAGAGTTGTCTTAGAATGATTTCTTTCGCATTAAGTCTGGATGCAAACTGTGCAGCCCTTAGGTTCT
GCTGTAGTTTTGTACGACCTGGCAGACTTAAAGTAAATTGAGTTTAAATTCAAAGCCAGTTGATGCGGAAGGAAC
TTTTTTGGCATGTGTTAAATTGTGCTTTAAAGACATATAAAGAATTGGGAAACATTTCAAGGAGACGATCATAGC
CTGTATAAATACCAGATTAGAACATACGGATTTACCATGAAGTTCTGTCTTCAACATCCATTCTAAAGGGCTACT
GTCCCAAATCCTGTGTGTCCTTTGACTTGTCTGATCACCCAATGGAAGTGGATACTTGTAAGTCTACACCACT
GTACTTGGCGTTAAATCTTGCTGAATTCGTGGTAAGCTGTTACCATGTCTACATTTTGTAGAATGATTTTGGTCT
GCAGCAAAATTCGATTTCACTTCTCATACCCCTTTTCCTTCCACTTGAAATGCAATTTAGACAGAGGCCCTGTGGT
GAAAGTTGCAATATTAAGTTTACCTTTAGAAGATCCCTTCTCAAACCTCAGAACCCTAGCAGTGTTACCTTAAACA
AAAATGAGCTCGAGAAAAAAGTAGCTCAGTTACAGAGAAGCAAATCGAGTTATTTCCACATAAAAAGTTTCCCA
GATTCTAAGAATTGCAGTATCCTGTACCCTAAAATTTTTCAAGGTGACTCCTGTTGTCGCTGTTGATAACTTTA
ATAAAGGTCATTTAAGGACATAAGTTTTTAAAGACTCCCAAAGTGAACTTAAACATTTTCGGGATTATCGATTG
CATATATCAGTTTATGCTGTGTGCTGAATTACTATGCCATGTGCTATTTTAGTGTTTGGGGAAAATGAAAAATAA
AATTTGTTCTTTAGCTT

4831/5332
FIGURE 4195

CTGCCGGGCATCGGCTTCCCGTCCGCCGCGCCCCGAGCCCGCCGCTTCCTATCTCAGCGCCCTGCCGCCGCCGCC
GCGGCCCAGCGAGCGGCCCTGATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAACTTGC
CTACTGATCAGTTACACAACCAATGCATTTCCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAAT
GTTATGGTAGATGGAAAACCGGTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGC
CCCCTATCCTATCCGCAAACAGATGTGTTCTTAATTTGCTTTTCCCTTGTGAGTCCTGCATCATTGAAAATGTC
CGTGCAAAGTGGTATCCTGAGGTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAATAAATTGAT
CTTAGGGATGATAAAGACACGATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTA
GCCATGGCTAAGGAGATTGGTGCTGTAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTG
TTTGACGAAGCGATCCGAGCAGTCCTCTGCCCCGCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

ATGTCTCAGCCCTCGTTCTTGCTCCTGTCCCTTGGAACCTTTGTACGCTTTGCTCAAAAAAAAAACAAAAAAA
AAACAAAAAA

4832/5332
FIGURE 4196

GCGTTTGCCTTGAGCGCCGATAATTTGGTGGCGGCGTCCGAGGGTGCTGGTTTGTCTCGGTGAACGGCGCGC
GGGGTCTCTCTGAGTGCAGCTACGGGACCTTCGCCATGCCGGGGATGGTACTCTTCGGCCGGCGCTGGGCCAT
CGCCAGCGACGACTTGGTCTTCCAGGGTTCTTCGAGCTGGTCGTGCGAGTGCTGTGGTGGATTGGCATTCTGAC
GTTGTATCTCATGCACAGAGGAAAGCTGGACTGTGCTGGTGGAGCCTTGCTCAGCAGTTACTTGATCGTCCCTCAT
GATTCTCCTGGCAGTTGTCAATGTACTGTGTCAGCCATCATGTGTGTGAGCATGAGAGGAACGATTTGTAACCC
TGGACCGCGGAAGTCTATGTCTAAGCTGCTTTACATCCGCCTGGCGCTGTTTTTCCAGAGATGGTCTGGGCCTC
TCTGGGGGCTGCCTGGGTGGCAGATGGTGTTCAGTGCAGACAGGACAGTTGTAAACGGCATCATCGCAACCGTCTG
GGTCAGTTGGATCATCATCGCTGCCACAGTGGTTTCCATTATCATTGTCTTTGACCCTCTTGGGGGAAAATGGC
TCCATATTTCTCTGCCGGCCCCAGCCACCTGGATAGTCATGATTCAAGCCAGTTACTTAATGGCCTCAAGACAGC
AGCTACAAGCGTGTGGGAAACCAGAATCAAGCTCTTGTGCTGTTGCATTGGGAAAGACGACCATACTCGGGTTGC
TTTTTCGAGTACGGCAGAGCTTTTCTCAACCTACTTTTTAGACACAGATCTGGTGCCAGCGACATTGCGGCGGG
CCTCGCCCTGCTTCATCAGCAACAGGACAATATCAGGAACAACCAAGAGCCTGCCAGGTGGTCTGCCATGCCCC
AGGGAGCTCCCAGGAAGCTGATCTGGATGCAGAATTAGAAAACAGCCATCATTACATGCAGTTTGCAGCAGCGGC
CTATGGGTGGCCCCCTCTACATCTACAGAAACCCCTCACGGGGCTGTGCAGGATTGGTGGTGAAGTCTGCAGAA
CAGAACACAGACTATGACTTGGTCGGAGGCGATCAGCTCACTGTCACTTCGGCTCCATCCTGCACACCACAGG
GCTGCAGTACAGGGACTTCATCCACGTGAGCTTCCATGACAAGGTTTACGAGCTGCCGTTTTTAGTGGCTCTGGA
TCACAGGAAAGAGTCTGTTGTGGTCGCTGTGAGGGGGACCATGTCTCTGCAGGATGTCTTACGGACCTGTGAGC
GGAGAGTGAGGTGCTGGACGTGGAGTGTGAGGTGCAGGACCGCTGGCACACAAGGGTATTTCTCAAGCTGCCAG
ATACGTTTACCAACGACTCATCAACGACGGGATTTTGTAGCCAAGCCTTCAGCATTGCTCCTGAGTACCGGCTGGT
CATAGTGGGCCACAGCCTCGGGGGCGGGGCGGCCCGCTGTGCGCCACCATGCTCAGAGCCGCCTACCCGCAGGT
CAGGTGCTACGCCTTCTCCCCACCCCGGGGGCTGTGGAGCAAAGCTCTGCAGGAATATTCTCAGAGCTTCATCGT
GTCCTGCTCCTGGGGAAGGATGTGATTCCAGGCTCAGTGTGACCAACTTGAAGATCTGAAGAGAAGAATCTT
GCGAGTGGTTCGCGCACTGCAATAAACCCAAGTACAAGATCTTGTGTCACGGTTTGTGGTACGAAGTGTGGAGG
AAACCCCAACAAGTGTGCCACGGAGCTGGACGGGGGCGACCAGGAAGTCTGACACAGCCTCTTCTGGGGGAGCA
GAGCCTACTGACGCGCTGGTCCCCGGCCTACAGCTTCTCCAGCGACTCCCCACTGGACTCTTCTCCCAAGTACCC
CCCTCTCTACCTTCCCGGCAGGATCATCCACCTGCAGGAGGAGGGCGCCTCGGGGCGGTTTGGCTGCTGCTGTC
TGCTCACTATAGCGCCAAGTGGTCACACGAAGCGGAATTACGCAAAATACTCATAGGTCCGAAGATGCTCACCGA
CCACATGCCAGACATCCTGATGCGGGCCTTGGACAGCGTGGTCTCCGACAGAGCGGCCTGCGTCTCCTGTCCAGC
ACAAGGGGTCTCCAGTGTGGACGTGGCCTGACCAGGGCCACTGGAAACTGTCCAGGAACGATGGACTCACGCTT
TTGTCTTAACTGACTTACCATCCGAGGAGTTCCCATGACGCCAAAACAGCGAATGTCCATCAACAGGAATCGG
ATGGGAACAGAATTCCATGGTCTCAATGACTTAAGTTTATGGGAAGTCATTGTGGCCATAATGGTAGCAGAAGTA
GTGAGCACGCTCAGGTGATAGGACGACTCCTGAGACCCAGCGACCGTGGAGACAGCCTCGGGAAGCCCTGGCCCCG
TGGATGGATCCCTTGGCTGTCTGAGGACTGCTCCAGAAGTGCGGGAATCCAGGGGCCACCCAGAAGACCGTGAAC
AGTTTCCTTAGCCTCCACCCCCAAGGCAGCTCTTTTCATCCAACCTCAGTTTACAGGCGTGGTTTGTCTTCAAC
TGGGCTTCTTGATGTACAAATGGAAGTGTGGTGAGGGTGCGGCTGGGGTTTTCTCCTGGGCGTCACCAAGGGC
AGCCCTGGGCTCTGGCTGGGGATGAAGACGAAACCCGATCGGGAAAGTAAGTGGAGCCCCCGGCCCGCCGAGCC
ACAGCCCCCAACTGCCTATTCCCACTGCCCAGTTGTTTGTCCACATCAGGAGTTGCTGATTGAATTCTTGCTAC
TCTTCTGGCTCTGGGGTCGGCCAGTGGATTACAGGAGTTGAAACAATAAAGCGCGCGTCAC

4833/5332
FIGURE 4197

GCCGCCGCCGCCATGACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCCTGGTCTTCACAAC
CGTTACCTGGATCTTTTTACTTCATTTATTTCAATTGTATAACACATCTATGAAGGTTATCTACCTTGCCTGCTCC
TATGCCACAGTGATCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTATTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATGTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATAAGTGCCAAAGACCATCACCAGCATC
TGTCCTTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAACT
TAACTCTTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTTATTACTGTGTACAAAGATTTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAACTCTTAAGTCTTTGTGCTGCAATGAAATTGACTCCTTGACAGTTGATAG
ATTATATATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTGGCAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

4834/5332
FIGURE 4198

ATTAATTACGCCAAGAAAATCACTGACGACCTCTCGGCAAGCCCCTCCCAGCGGTGTGATCCTGGACCCAAGGG
CTTGGGTGATGCCCACACAACACTTAAGGACAGGTCTGACCCGACCCCACTACACCACACCTAGAGCCCGGTCTT
GCACGGGCAGGGTGGGGAGCCGAGTGACCTCTCCCGCGCCCGCCCCACCTCCCGAGCTGGCTGGGCTGCCACGT
CAGGCGCAGCCGGCCACGATCCTGCCCATCCTCCTCCCGCCCGTCCATTGATTCGCGGGTTTCTGCAACCCCG
GGACCCCCACGGGAGATCCCGGCCGAGAAGCGCCCCCATTCAAGCCCAGAGAGGGGCCACGCCTGTCGGACCCC
CCGTCCCACGCCAAGTTTTTCAGACACAGCAGGGCCCCCGCGCAGCCGGGTGCGCTCCGACAGCTCAAGTTCACGCG
GGGACCGACTGCAGAGCGGGTCCCGCGCTGCGACACCCGGCCCGGAGCCACCCGAGGGCCCGCAGGCCGCTG
CCCCCGGGTCCGGGCACCCGTTAGGCCGGCCGAGGGGGTGTGTGCGGGCCGGCGCAGGCCCCGCGAGCCGTGGGG
TGCGCGAGGTGCGCGGGTCTCGGCGAGACCCGGCCCCCACGCCGAGCCTCTCCGGGCTTCCCCCGCCGCTCA
CCGGCGCAGGAGCGCGTCTTCCAGATCTTCAGCAGCAGGATGACGATGGCCGCCAGGTGGGACAGGTCCCCAGTC
AGCCGGAAAAATGTTTCATGGCGGGCGGCGGGTGGCGGTGCGCGCAGCGCGGGCGGCCCGGGGCTGGGCGGCTCAG
GAGGCGGCGGCCCTGAGAGGAAGCGGCGAAGATGGCGAGATCGCCCGGACGTGGCCAGGGACGTGGCCGAAGT
GCCGGCGCGCGCGCGCGGGGACCCCTGGGAGAGCGGGGCCAGGCCCGCCCCCTTAAAGGGGGCGCGCCCCAGC
GCAGGCTCAGCAGGTGAGCTCGCAGGGACTCCCTTGCAAGAAGACCCCGGACTCTGCCAAATTTTCCCTGCGGG
TTTCCGGCTTCTCCTCGGGTGCCAGCAGTTTCTTTACTTTTTTGAAATTAACACTCCCTGGGGATCTTTTCTTTT
CTCCACATATCAAAGAGCTCTACAGGCCTATTGTATGAAAAAGTGTAAGAGAAGGCCGGGTGCGGTGGCTCAT
GCCTGAAATTCTAGCAGTTTGAGAGGCCGAAACAGGAGGATCCTTTGAGCCTAGGAGTTCGAGACCAGCCTGGGC
AACCTAATGAGAGTTCCTCCACCCCCGTCTCTACAAAAATTTTTTAAAAAATTAGCCAGGCCTGATGGTGGGTG
CCTGTAGTACCAGCTATTTTAAAGGCTAAGGCAGGAGGATTGCTTGAGCCAGGACATCGAGGCTGCGGTGAACC
ATGATTGTACCACTGTATTCCAGCCTGGACGACTGAGTGAGACCCTGTCTCAAACAAAACAAAACAAAACAAAAC
AAAAAAAGTACAAGAGGAAAAAAATTGATTTCTGATTGCCTCACTCAAGATAAGGTCAACATTGAAGGTGGAGG
TGGAAGATGCAGTTTATGTAGGGGTCTGAAGATTTTACCATTCTGGGGACTGTCTTAAGAAAGAGAATCCAAA
TTAGGTAGAAAAGTGAACGTCTGACCGGGCGCGGTGGCTCATCCCTGTAATCCCAGCACTTAAGGAGTACGAGAC
GGGAGGATCACGAGGTCAAGAGATCGACAGCATGCTGGCCAACGTGGTGAAACCCCGTCTCTACTGAAAATACAA
AAATTAGCCGGGCGTGGTGGCACGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGGAGAATCGCTTGAA
CCTGGGAGGAGAAGGTTGCAGTGAGCTGAGATGGTGCCACTGCCTCCAGCCTGGCGACAGAGCAAGACTCCATC
TC

4835/5332
FIGURE 4199

AAGTCTCGTATCGCGCCCGGGAGGCGCCGGAGCCAGCGGCTGGCGCCAGATCCAGGCTCCTGGAAGAACCATGT
CCGGCAGCTACTGGTCATGCCAGGCACACACTGCTGCCCAAGAGGAGCTGCTGTTTGAATTATCTGTGAATGTTG
GGAAGAGGAATGCCAGAGCTGCCGGCTGAAAATTACCAACCAAGAGAAATCTGCAGGATGACTTTCTGGTCCT
CTTCTTGTCTACCTGGCTTCGGTGCTGATGGGTCTTGTTCCTTATCTGCGTCTGCTCGAAAACCCATAGCTTGAA
AGGCCTGGCCAGGGGAGGAGCACAGATATTTTCTGTATAATTCCAGAATGTCTTCAGAGAGCCGTGCATGGATT
GCTTCATTACCTTTTCCATACGAGAAACCACACCTTCATTGTCCTGCACCTGGTCTTGCAAGGGATGGTTTATAC
TGAGTACACCTGGGAAGTATTTGGCTACTGTCAGGAGCTGGAGTTGTCCTTGCAATTACCTTCTTCTGCCCTATCT
GCTGCTAGGTGTAAACCTGTTTTTTTTTACCCTGACTTGTGGAACCAATCCTGGCATTATAACAAAAGCAAATGA
ATTATTATTTCTTCATGTTTATGAATTTGATGAAGTGATGTTTCCAAAGAACGTGAGGTGCTCTACTTGTGATT
AAGGAAACCAGCTCGATCCAAGCACTGCAGTGTTGTGTAACCTGGTGTGTGCACCGTTTCGACCATCACTGTGTTG
GGTGAACAACCTGCATCGGGGCCTGGAACATCAGGTACTTCCTCATCTACGTCTTGACCTTGACGGCCTCGGCTGC
CACCGTCGCCATTGTGAGCACCCTTTTCTGGTCCACTTGGTGGTGATGTCAGATTTATACCAGGAGACTTACAT
CGATGACCTTGGACACCTCCATGTTATGGACACGGTCTTTCTTATTACGTACCTGTTTCTGACTTTTCCACGGAT
TGTCTTCATGCTGGGCTTTGTGCTGGTTCTGAGCTTCTCCTGGGTGGCTACCTGTTGTTTGTCTGTATCTGGC
GGCCACCAACCAGACTACTAACGAGTGGTACAGAGGTGACTGGGCCTGGTGCCAGCGTTGTCCCTTGTGGCCTG
GCCTCCGTCAGCAGAGCCCCAAGTCCACCGGAACATTCACTCCCATGGGCTTCGGAGCAACCTTCAAGAGATCTT
TCTACCTGCCTTTCCATGTCATGAGAGGAAGAAACAAGAATGACAAGTGTATGACTGCC

4836/5332
FIGURE 4200

AGGGGATTTTCATCTCAACAACAGAGTGTCTCACCAGGCCTGCCTTCCGGCCAGTATGGGCTTGTACATCAGG
CACCTTCCCTGCATGTGTGGCCTCCGGCCTGCCCTCCTCTAGCCACATTCAAGTCCTTTCTCACCAGTTTAAAAAT
TGTGAAAGTGAAGTGCACCTATTTTACAGAGGAGACATGACTGCCAGAAACGAGGTCTTGGTGCGGAAGGTCTTTG
GAGTGGGAGGGCTCTCAGGTGCAGGTGGCAGGTGTTCTGCACCTTGCTAGGCCAAGGAGCCCGCAGTCAGAGAGG
CTGGGAAGTGGGAGTCAGGGGCAGGGGGCCTTCCAGCCATCTTCCCCCGTACCCCCCAGCTGAGAACAGATGGAA
ACGTGAAGACGGGTAGCTGGGGCGGCCAGGGAACCAAGTCCGCTGGCCGAAGCCAAAGCCCGGCACCACCCCA
ATTCTTGCTGGTGAAAGCACCGTGAAATCAACCAGCGGCAGCTCTGAACGCGACGCACAGCCCGCGAGGGAGCC
TGGGCAAGGACGGAGCGGGCCTGCACCGGCGGTGGGCGGGCTCCGGGGCGGGGTCCACCTGGGACCGCGGCGC
GCCCCACCGCTCGCGCCGCCAGGGGGCGCCCTCCGGAGAGCGCGCCTAGGCCGCGGCCTGCGCTTGGCCCCTG
CGGGCCGCGTCTCCGTGCCCGCATTCGGCCGCTGTTCCGGCTGCGCGGCGGCAGCTCCCGGCGGCTCCTGGCGG
CGCCGCGAGTCGGACCTTCGGGCGCCTGCTGGCCGGCGGCAGCAGCGATGGCCCCCTGAGCAGGCAGGAGCAGGC
GGCGGCAGGCGGGCAAGCGGGCGGGTGCCGCGAGCCAGGCCGGGTGCGGCTCCTTGTTCACGGGTAGCGGC
GCAGTCCCGGGCCCCGGGCGGAAGTGAGACGCGCTCGGCGCGGGGGCGGCGGCGGCGCACCAGTACGACATCC
GCCACTCGCTGCTGCGCGCGATGCGCTGAGCGCCGCCAAGGAGGTGTTGTACCACCTGGACATCTACTCAGCA
GCCAGCTGCAGAGCGCGCGCTGCCCATCGTGGACAAGGGCCCCGTGGAGCTGCTGGAGGAGTTCGTGTTCCAGG
TGCCCCAAGGAGCGCAGCGCGCAGCCCCAAGGAGCAAACCAAGGACTCTGTTCCGGCAGATTATTTTTTCAATCCCTT
TCAGCCCTCAAGGGAACAAAGCCGATGACAGCCGGATGAGCTTGTGGGAAAAGTGGTCTCCATGGCGGTGGCTG
TGTGTCGAATCCCGGTGTTGGAGTGTGCTGCCTCCTGGCTTCAGCGGACGCCCCGTGGTTTACTGTGTGAGGTAG
CCAAGGCCCTTGTAGATGACTACTGCTGTTTGGTGCCGGGATCCATTAGACGCTGAAGCAGATATTCAGTGCCA
GCCCCGAGATTCTGCTGCCAGTTCATCACCTCCGTTACCGCGCTCTATGACCTGTATCAGATGACCTCATTCCAC
CTATGGACTTGCTTGAAATGATTGTACCTGGATTTTGGAGACCCAAGGTTGATTCTCATCACTTTTTTAAATA
CTCCGATTGCGGCCAATCTGCCAATAGGATTCTTAGAGCTACCCCGCTCGTTGGATTGATCCGCTGGTGCGTGA
AGGCACCCCTGGCTTATAAAAGGAAAAAGAAGCCCCCTTATCCAATGGCCATGTGAGCAACAAGGTCACAAAGG
ACCCGGGCGTGGGGATGGACAGAGACTCCACCTCTTGTACTCAAACTCCACCTCAGCGTCCTGCAAGTGCTCA
TGACGCTGCAGCTGCACCTGACCGAGAAGAATCTGTATGGGCGCCTGGGGCTGATCCTCTTCGACCACATGGTCC
CGCTGGTAGAGGAGATCAACAGGTTGGCGGATGAAGTGAACCCCTCAACGCCTCCAGGAGATTGAGCTCTCGC
TGGACCGGCTGGCGCAGGCTCTGCAGGTGGCCATGGCTCAGGAGCTCTGCTGTGCACGAGAGATGACCTGAGAA
CCTTGTGCTCCAGGCTGCCCCATAATAACCTCCTCCAGCTGGTGATCTCGGGTCCCGTGCAGCAGTCGCTCAGC
CCGCGCTCCCCCGGGGTTCTACCCCCACATCCACACGCCCCCGCTGGGCTACGGGGCTGTCCCGGCCACCCCG
CCGCCCACCCCGCCCTGCCACGCATCCCGGCCACACCTTCATCTCCGGCGTGACCTTTCCTTCAGGCCCATCC
GCTAGGCTGGCCCGTGTGTGCCTTCTGCGCTCTCGCTGGACGAAGCCTTTCGAGATGGGAAGGGGTGGCCGGACTC
CCAGAAGAGAACCTCGGGGAAGGGGTGGGGCAGCCCTCCCCCGCGGCAGAACCGTCTTGGTGTACGGAGTCCA
GGTGCTTCCCACCCGGTGCATTCTTTGACATGCAGATTGGATGGTGGAGGGAAGAGTCCAGCCTCTGCCGAGAG
CCTGCTGCGTGCAATTTTTTAAAGATGCCGATCCTGGGAGCCTCTGTTCTCTGCGCATTCAGACACAGCCTGTGT
GGCGAGGAGTGTGACGGCAGGAGCCACGGGTGCAAGCCCGTGTGTCTGGCCTCTTTCCTCGTGAAGACGATGTGT
CCCCGCCAGAAAAAGTGGGCTCCTTCTGCAGCCCCGTGAGCTGAGCCAGGCTGCGTAGTGACCACAAGCTTATG
TGCAGCACTGCTCAGGGAGGCTGTGAGGAATTCCTTCACCTCGGAAAGGAAGTCTCAGTTTTATTGGGGGTGT
CTAAATTCCTTTTCATATGTTCAAATAAATTTTCTAAACAGT

4837/5332
FIGURE 4201

CAGAACCAAGAAGGAGCCCTCTAGGACAGAAAAGGGGTATGTCGTCTTCTAGCACTTCAGATGCCATCTCTGACA
AAGGCGTCCTGAGACCTCAGAAAGAGGCAGTGAGTTCCAGTCAGGGACCCAGTGACCCTACGGACAGAGCGGAGG
TGGAGAAGGACTCGGGGCATGGCAGCACTTCCGTGGATTCTGAGGGGTTTCAGCATCCCAGACACGGGCAGTCACT
GCAGCAGCGAGTGTGTGGCCAGCACCCAGGGGACAGGGGCTCGCAGGAACATGTGGACTCTCAGGAGAAAGCGC
CTGAAACTGACGACTCTTTTTCAGATGTGGACTGCCATTCAAACCAGGAAGATACCGGATGTAAATTTTCAGGTTT
TGCCCTCAGCCAATAATCTCACATCCCCAAACACAAAAGTGTTTTAAGAAAGAAGAAATTTCTTCCAATTCTGAC
ATTCGTCAAAAGTTAGTAAATACTCAGAACGTGTCAGCTTCTCAGGTTGATGTAGCTGTGAAAATTAATAAGAAA
GTTGTGCCCCCTGAACCTTTTCTGAGTTCTTTAGCTAAACGAATAAAGCAGTTACATCATGAAGCACAGCAAAGTGA
AGGGGAACAGAATTACAGGAAGTTTAGGGCAAGGATTGTCTGAGAGAAAATCAAGCAGCCGAAGATGAACTAAG
AAAAGAGATAAGGTAAAACGATGTTTGCAGAAATGGAATCATTGGTCAGTTTAACCTGGGATTTATAATAACCA
AACTGAATGAGGATATCTTCATAGTGGACCAGCATGCCACGGACGAGAAGTATAACTTCGAGATGCTGCAGCAGC
ACACCGTGCTCCAGGGGCAGAGGCTCATAGCACCTCAGACTCTCAACTTAAGTGTGTTAATGAAGCTGTTCTGA
TAGAAAATCTGGAATAATTTAGAAAGAATGGCTTCGATTTTGTTATCGATGAAAATGTCATGGATTTTTCTCAA
ATTGTATTCTTTTAGCTCCAGTCACTGAAAGGGCTAAACTGATTTTCTTGCCAACTAGTAAAAGCTGGACCTTCG
GACCCAGGACGTCGATGAAGTATCTTCATGCTGAGCGACAGCCCTGGGGTCATGTGCCGGCCTTCCCGAGTCA
AGCAGATGTTTGCCTCCAGAGCCTGCCGGAAGTCGGTGATGATTGGGACTGCTCTTAACACAAGCGAGATGAAGA
AACTGATCACCCACATGGGGGAGATGGACCACCCCTGGAATGTCCCCATGGAAGGCCAACCATGAGACACATCG
CCAACCTGGGTGTCATTTCTCAGAACTGACCGTAGTCACTGTATGGAATAATTGGTTTTATCGCAGATTTTTATG
TTTTGAAAGACAGAGTCTTCACTAACCTTTTTTGTTTTTAAATGAAACCTGCTACTTAAAAAAAATACACATCAC
ACCCATTTAAAAGTGATCTTGAGAACCTTTTCAAACCAGATGGAGCAATTGCTTGCAAATTTTTTTTTCTATGTT
TGCATGCGCTCGTGTGTGTGTGTCCAGGCAAGAACACATTTTATAAAAATAAGAACACTTGGGCTGGGCATGGTG
GCTCATGCCTGTGATCGCAGCACTTTGGGAGGCCGAGGCCGCGAGATCACCTGAGATCAGAAGTTTCGAGACCAGC
CTGACCAACATGGAGAAACCTGCCTCTACTAAAAATACAAAATTAGCCAGGTGTGCTGGCGCATGCCTGTAATC
CCCGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAACCGAGATTGCG
CCACTGCGCTCCAGCCTGGGTGAGATAGAGCAAGACTGTGTCTCAAAAAACAAAACAAAACAAAAC

4838/5332
FIGURE 4202

GTCTCTGGGCGGGCCGTGGGAGGCTCCCGAGGTGGGGGCGGGGCGGGATGGCTGCAGCGGCGGGCGGGGCGGG
AGCGGGCCCTGGGCGGCCAGGAGAAGCAGTTCCCGCGGCGCTGCTGAGTTTCTTCATCTACAACCCGCGCTTC
GGGCGCGCGGAAGGACAGGAGGAAAATAAGATTTTATTTTATCATCCAAATGAGGTAGAAAAGAATGAGAAGATT
AGAAATGTCGGATTGTGTGAAGCTATTGTACAGTTTACAAGGACATTTAGCCCATCAAAACCTGCAAAATCTTTA
CATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTGGATGGTCATGGTTGTTTCGGAATCCT
ATAATTGAAAAACAGAGTAAAGATGGAAAACCAGTTATTGAATATCAAGAGGAGGAGTTGTTGGACAAGGTTTAT
AGCTCGGTGCTGCGGCAGTGCTACAGCATGTACAAGCTTTTAAATGGTACATTTCTGAAAGCCATGGAAGACGGA
GGCGTCAAGCTTCTGAAAGAAAGATTAGAGAAATTCCTECATCGGTATTGCAAACGCTACATTTGCAGTCATGT
GACCTACTTGACATTTTTTGGTGGAAATCAGCTTCTTCCCGTTGGATAAAAATGACTTATTTGAAAATCCAGTCCTTT
ATTAATAGAATGGAGGAAAGCCTGAATATAGTCAAATACACTGCTTTTCTCTATAACGATCAGCTCATCTGGAGT
GGATTAGAACAAGATGACATGAGAATTTTATACAAATACCTTACCACCTCCCTTTTCCCAAGGCACATCGAACCT
GAGTTAGCAGGAAGGGATTCTCCAATAAGAGCAGAAATGCCAGGAAATCTTCAACACTATGGAAGATTTCTTACC
GGACCCTTGAACCTCAATGATCCAGATGCAAAATGCAGATTCCCCAAAATTTTTGTAAATACAGATGACACTTAT
GAAGAGCTCCATTTAATCGTTTATAAGGCCATGAGTGCGGCTGTGTGCTTTATGATCGACGCTCTGTCCACCCA
ACGTTGGATTTTTGCGGAAGACTGGACAGCATCGTTGGGCCCCAGCTCACAGTGCTGGCCTCTGACATCTGTGAA
CAGTTTAAACATCAACAAGAGGATGTCTGGGTCTGAGAAAGAACCCCAAGTTTAAAGTTTATCTACTTCAACCACATG
AATCTCGCCGAGAAGAGCACAGTTCACATGAGGAAAACGCCAGCGTGCTCGCTCACTTCCGTGCACCCGGATTTA
ATGAAGATTCTCGGTGACATCAACAGTGACTTTACCAGAGTGGATGAAGATGAGGAGATCATTGTGAAGGCCATG
AGTGATTACTGGGTGTTTGGAAAGAAGTCTGATCGGCGGGAGCTCTATGTTATTTTGAATCAAAAAAATGCAAAAC
CTGATTGAAGTAAATGAAGAGGTCAAGAACTTTGTGCAACGCAGTTCAACAACATCTTCTTCTGGATTTGACGG
ATGACGGCTCACCGAGAGCATATCTAAAAAACACTCTGCAACATTTGGTCACATGCAAGTTAGTGGTCATATGA
CGGACTGCATTACAGGACAAGGGTAAAGCAATACTTGCTTTGAAGAATCAGATTTGCACTCGGTCTGCTGATCTGA
GGTTTTTAGATTTTAAATATTTATGTGGAATTAATTAAGGTAGTTGGCTATATCGCTATCATTTCATTCTTTTG
ACATTATTTGAATATTTTACTGGAAAATAAGACTAATAAATTTGTTAAAGTTTTTAAATTTCTGGTTTGGTGTG
AGTCTCTCTCTCTGCTGCCTATTTATAGATTACACTGGCCACCAGCTCCGTGACCCAGGCTGGAATGCAATGGCTC
ACTGCAGCCTCAACCTCCTGAGCTCAAGCAATCCTCCCACCTCAGCCTCCCAAGAAGCTAGAACCACATGTACAC
ACCACCACGGTCGGCTGATGTTTTAATTTTGCAGAGATGGGGGGTCTCACTATGTTGCCAGGCTGGTCTCGAA
CTCCCGTAATCCAGCCATGTAGGAAACCTGAGATGCAGTGGGCCAAGGGGTATGTTAAACACTGTGACGAGTTC
AGTGCTAAGAACTGTAATGCTCAGGAAATCTTACAGCACGTGCCATCCTAAGCCTGTGTGTGTGCTCCTCGTGTCT
CTCTACTTTTTCTTCTTCTTGTGTTGATGGTCTTGTGCTGGATGGGGACACGGTCACATCCTCCTTGGGAGGGTCC
AGTATGAGGTGAGAGGATGACACGTCTGCCGGCTCCTTGAGCACTGTGATGTCCACCTCATAGTCATGTCTCTTG
GCCTCTTCTCTCTCAAGATAAAGATGTTTCAGCCT

4839/5332
FIGURE 4203

GGGTTATGGTGTGTGCTCGGTGGGGCTGGAGTGGCTGGCTTACCTCCTCGTGGCTTACAGCCTGGGCGCCTCAGC
CGCCTCACTCCTGGTTCTGCTGGGCCTGTGGCTGCCACACCCGGTGCCCTCGTGGCTGGAGAAGGGGTGCACCT
GCTGCTCACCTTCATCCTCTTTTTCTGGGCCCCCTGTGCCTCAGGTCCTGCAACACAGCTGGATCCTCTGTGTGGC
AGCCGCCCTTTGGGGTGTGGGCAGCGCCCTGAACAAGACTGGACTCAGCACACTCCTGGGAATCTTGTACGAAGA
CAAGGAGAGACAGGACTTCATCTTACCATCTACCACTGGTGGCAGGCTGTGGCCATCTTCACCGTGTACCTGGG
CTCCAGCCTGCACATGAAGGCTAAGCTGGCGGTGCTGCTGGTGACGCTGGTGGTGGCCGCGGTCTCCTACCTGCG
GATGGAGCAGAAGCTGCGGCGGGGCGTGGCCCCGCGCCAGCCCCGCATCCCGCGGCCCCAGCACAAAGGTGCGCGG
TGACGGCTACTTGGAGGAGGACAACCTCGGACGAGAGCGACGCGGAGGGCGAGCATGGGGACGGCGCGGAGGAGGA
GGCGCCGCCCCCGGGGCCAGGCCTGGCCCCGAGCCGCTGGACTCGGCCGCCGGCCCTGCCCGTACGAACAGGC
GCAGGGGGGCGACGGGCCGGAGGAGCAGTGAGGGGCCGCTGGTCCCCGGACTCAGCCTCGCTCCTCGCCGGCCT
CAGTTTACCACGTCTTAGGTCGGGGGGACCCCCCTCCGAGTCTCGCGCTGTCTTCGAAGGCCCTGTCTCCCTTCC
CCCACGTTGGGGACGCCCCCTCCAGAGCCCGGGTCACCTCCGGGCTTCCGCAGCCCCCTCCAAGGCGGAGTGGAG
CCTTGGGAACCTCCCCGGCCAAGCACAGGGGTTGAAAATACAGCTAGATACCCCGCGGGCCCTTAGCACGCGCCCC
AGCGCCGGAGCAGGGTCAGGGTCTTCTTGCGACCCGCCCCGCTCCAGATCCCCCAGCTCTCGGCCGCGGACCC
GGGCCGCGTGTGAGCGCCCTTTCACCTCCTATCTCCAGGGTCCGCCGAGAGCCACGATTTTTTACAGAAATGA
GCGATAAAGAGATTTTGTACTGTC

4840/5332
FIGURE 4204

GGGCATCATACTGGGCCCAGAGCTGGGAAGGAGTTGCTGCCAGCACAGGGTGGGCCTGGACTCCCCCTCGCCCCCTA
CCCCCAGTGTTGTGGCTGTAGCCCTAAGCCTGGAGAGCAGGACCGGCCCGGGTGTCTGGGAGGCTGCCAGGTG
CCTCCCAGAGCTCCCAAGGGCCCCACCTGCAAGTGCCAGCCTCAGGGCAGTGCCCAAATGAGGCCCTCTCAGCT
GCAGCCAGCGATGCCTTGGGATGCTTACCGGGAGGGAGGCGGCTTTGGGCTCCTAAGTCCTTGGGAGAGGCTGGG
AGCAGTCACTGCGCGGCTTGCAGCAAGCCCATTTGTCGGGTGGGTGGCTTCCTCAGCCAGGGCTGGGAGGGACTCC
AGGATCAGGTCTCCTGCTCTCGAGTCTCAGTGGGGTGTATGGGAGGAGACCTGGCCACCCATGGCTCAGGGGCA
GCTGAGAACAAGGACCTGCTGGAGCTGGAAGTGTGTGGTGTGAGGGGTGGGGTGGGCAGCTTCTCACACCTGC
CTCCTGCCTCCTTCTGTCCACCTTTCCACCACCCCTGACCTGTCCAGCCCCACACATGGTTCTGCCTGGCTGGCC
TGCCCTTGGCACCTGGCGTAGAGCACAGCAAGGCACCTCAGCTAATGCTGGGCAGGCCCCACTCATGGGGAGTGCG
TGGCTGTGCAGCACCAGGGAACCGGCACAGCAGCGCCGGCAGAAATCACAGCAGTAAACTTGTCCGGGTGTATG
CATCAAGGTGGCGATGGACGTGGGTCCCCCCTGCACTGTGGCCCTGAGCACTGTATAGCAGCCCGCAATGGG
AGCCATTATCTTGGCCCTTTGACAGAGGAGGACACAGAGGCACAGGGAGGTGAAGTAGCTGCCCCACACTAGTGC
CTCCTCGCTCACTCACCACCCCTGCACCACAGTGCAGCGCTTCTCCACCAGCTGGGGTTTCTTGGACCCCCA
AGCCTGGGAAGGGGGAGGTGAGTTTACAAAATGGAAAGCTTAAAAGGAGAAAAGTGAACCAGAGGTTTGAGAAG
CCCTGAGTGGTAGAGTAAGGCCTCCAGCGCTGCCTCTGGGTGCAGGGCAGAGTGGCAGAGGAGAGGGGGAGAGGC
ACTGGGCACCATGGGGGCCAGTTCCCACTTCGGGGATCTCTCTCGCAGAACCAGGGTCCCCTTCATGGGGGTA
GATGCCCAGGGCTAGCTGTTGCCACTGTCTGTGTGGACCTGAGTCTGGACATGCCCCAGTGACTCAGGAGTGGC
TGCTTGGGCGGGCTCTGTACCCCTAGGATGTTATACATTCTGGGAACTGGACAGGAGTGGCTGCTTGGGCGGGCT
CTGGCACCCCTGGGATGTTATACATTCTGGGAACTGGACAGGAGTGGCTGCTTGGGTGGGCTCTGGCACCCCTGGGA
TGTTATACATTCTGGGAACTGCAATCAGCCACTAGAGAAGTCGGAGCTACAGGAAGTGACCCTGGGGTGGGACCT
GGGGACATGGCCAGGTGAGCATGGGGACACCCGGCTCCAGCAGGAGCTCTGGTCTGTCTTGGGGTCTTTGGGGGC
AGGGCTGCGGCCCTGGGCAGGCTTCCTCCAGGCGGAGGTCTGGGGAAGTGGGGGAGCCAGGCCNAGCTGCCGCC
NTNCCCCNACNTANTNGTNAGCATCTGATTGCTCATCTCTCA**TGA**AGGCGATTGGTTTCATAACTCTGAACTC
TGAAAAAGGTCAAAGAAGCAGAGAGGCCCTCGGTGGATATGCCAGCTTTTCTGCCGGTGCTTTCTCCCACTACT
CTGGGTGGTCTGCTCTCCTCTTCAAACCTCAGCTCGCAGGGAGGGCCTGAATCTGCCAGCCCCCTCAGGATCTCCT
TCCCTCTGGGCCCTCCCCAGCCTTAAGGAGCCTCCAGACAGAAGGGTGGACAGAGCCACCTGGGCAGCCCCGAGA
GACACACGGGGGTCTCCTGTGGACAGCCCTGCCAGCTTCCGCCAGCCCTGAGCTTCATTTGCATCTTGAGGA
GTAAGGGGTGGTGAATGGGAATGCTGGTCTGGCTCAGCTGGTCTGGGCATAAGTGCCCGCTGAATGGATGGCA
TCTCTCCCTCCTGTCTTATGTTCTGGGGTCCAGGTGCTTCCAGGGCCATGCCCTGCTGCTAATGCTTGCCCTA
ACCTTTACCCTAACAGCGTCCAGCGTCTCTCACCGAGCCGTAAATAAATCAACAGATTTCGA

4841/5332
FIGURE 4205

CGACATCAGAGATGAGGACAGCATTGCTGCTCCTTGCAGCCCTGGCTGTGGCTACAGGGCCAGCCCTTACCCTGC
GCTGCCACGTGTGCACCAGCTCCAGCAACTGCAAGCATTCTGTGGTCTGCCCCGCCAGCTCTCGCTTCTGCAAGA
CCACGAACACAGTGGAGCCTCTGAGGGGGAATCTGGTGAAGAAGGACTGTGCGGAGTCGTGCACACCCAGCTACA
CCCTGCAAGGCCAGGTGAGCAGCGGCACCAGCTCCACCCAGTGCTGCCAGGAGGACCTGTGCAATGAGAAGCTGC
ACAACGCTGCACCCACCCGCACCGCCCTCGCCACAGTGCCCTCAGCCTGGGGCTGGCCCTGAGCCTCCTGGCCG
TCATCTTAGCCCCCAGCCTGTGACCTTCCCCCAGGGAAGGCCCTCATGCCTTTCCTTCCCTTTCTCTGGGGAT
TCCACACCTCTCTTCCCCAGCCGCAACGGGGGTGCCAGGAGCCCCAGGCTGAGGGCTTCCCCGAAANNGTCTGGG
ACCAGGTCCAGGTGGGCATGGAATGCTGATGACTTGGAGCAGGCCCCACAGACCCACAGAGGATGAAGCCACCC
CACAGAGGATGCAGCCCCAGCTGCATGGAAGGTGGAGGACAGAAGCCCTGTGGATCCCCGGATTTCACTCCT
TCTGTTTTGTTGCCGTTTATTTTGTACTCAAATCTCTACATGGAGATAAATGATTAAACC

4842/5332
FIGURE 4206

GCTCCGGGCCAGCCGCGGTCCAGAGCGCGGAGGTTCTGGGGAGCTCGGCCAGGCTGCTGGTACCTGCGTCCGCCC
GGCGAGCAGGACAGGCTGCTTTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAAATGAAGATCTTCTT
GCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAA
GAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACACTACTGCGTGACTGTGTCTGCTAGTGC
CGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGG
CGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTTAGTGCGGCCGATGG
CGGGCTGCGGGCAAGCGTCACCCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGG
CCCCTGACCGGCCAGACCCTGTCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAG
TGTATGGGAGCCCCTGACTCCTCACGTGCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCCACCCCTGCACCTC
CACCTGCCCCAGCCCCTGCCTCTGCCCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTC
CTTGGGGGACCGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATGGACAT
GCTGACAGGGTCCCCAGGGAGACCGTGTCACTAGGGATGTGTGCCTGGCTGTGTACGTGGGTGTGCAGTGCACGT
GAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCT
GTAGCCCCCTGCCCTGGCACAGCTGCATGCACTTCAAGGGCAGCCTTTGGGGGTGGGGTTTCTGCCACTTCCGG
GTCTAGGCCCTGCCCCAAATCCAGCCAGTCCTGCCCCAGCCCACCCCAACATTGGAGCCCTCCTGCTGCTTTGGT
GCCTCAAATAAATACAGATGTCCCC

4843/5332
FIGURE 4207

TGTTGAGAGGCTGGCCTGCGGTGATGTGGCCAAAGAGGAAGAGCTGGGCTGGGGTGAGTGTTGGTCACATGGTTG
AAACTAGGTGGGGAGGGGAGTGGTCCAGGGGAGAGTCCAGGCCACGCTCTGCTGGGACTTGCCATGGGGGTACG
ACTCATCTGCAGGGAAGGTCTGGGCTTTATCTCTGAGCACCTCTGTGTGCTGCTCACCCTGAAGTGGGGGTGGGC
CTGTGCCTGGCCTGTCCCCCTCATCTGGGAGCTCCCAATGCCCATCTGCAAGGCTGTGGACCCCTCAGGAGTGGC
CTGGAGCCTGGCTCCCATTTGCCACATGGTGGCTGTGTGTGTGGAGAGGGTTGATAGTGGAGTGGTCAGGCCCAGG
CTGCCCTGGGGGATGAAGTGCCATCCTCTGGGTGCCCTGGAGAAAGAAGAGAACTCAGTGAGCCCTGTCTGGTAC
TTTCCTGGAGGAGGGCTCCCATGCTGGCCCTCCACCCCTCTGTCCCCTGTACCCCTGAGGCCTCTGGATTTCCTC
TCTGCCCTTCCCAACCTGCCAACTTCACGGGTTTCTGGCTGGGTTCTGGGGATGGCCCTAGGGGAGACGGGGCA
GGCACAAGCGGGGCTGTGTCAAGGTGGGTATGCAGGGGTAGCACAAAGTGTGCAGAGCCTGGGGAGGCATGGGGCA
AGCATGGCAGGCGGCGGGGAGGGGATCTTGGAAGGTACGGGCTGGGGAGCAGTGTGGGCAGCGGCCAGAGGT
GGGAAGGCCGTAGCTTAGCTGGGTGTCCCCTTTCTGTCTCTGCAGGTGGAGCCCCCTGAGCTGCCCGCTGATCT
GCAGCACTGGATCTCTACAACGAGGCCAGCAGCCAGCTGTCTCCGATGGAGAGTGGGCTCAGTGATGTACCAA
GGAGCACTGACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCCTGGGCCTGGGGGCTGCCACAGATGGGCA
GTCTCAGCCATACTCTGTTCAGCTGGAGTAGCTCCTTGACCAGCCTGGCCCCACCTGCTCCACCCACTGGGCCC
CCCCAGTTATTGATACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTGGCATTGGCATCTTGACCCA
GCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCCTGGCCCTACGATGAGGCCACTCATGTGGG
CCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGCCTAGATCCTGGCTCGGACC
ACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTCTCCAGGGCCTGGGCCTGAT
TCAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCTCTGGCTTCCGCTGAGGTGGT
TGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAAGGGAGGCATTTGCTGACAG
AGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCCTCTACCTCCAGTCAGGCTGGAC
GGGAGGGTAGCCTTGTGGCTGAGAGGGGTGAGACTAGGTGGCACAGGGGCTCCTGAAAGACAGCAGGCTTCCTG
CTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTCCTTGTCCACTCGCACCCCT
CGCCGCCACCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCCTTCTGGGCCTACAGCACCACAGGCCGC
TGTACCCCTTAGAGCTGCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTCCTTGTCTCTATATTAG
CATGTTCCCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCCTAGCAGAGCCTCTCCTGGCAGCTTCTCAGGTCTCC
CTAATGGAGACACCAGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGTGCCCCATCTAGCTGGGT
GCAGGGGTCACTGCTTGTGAGCTCAGGGCCCTGTGCCCGCTTGCTGTTCCTTACATCTGTGCCTGCACATCCA
GAACTGCCTCCTTGCCGCTGCCTCCAGGAAGCCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCGATAGA
ACACGCCCGCCCTCACTGCTGTTCTTGCCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTAAAG
AAAGCCCAACATTAAAGGGTTTTTCATTGC

4844/5332
FIGURE 4208

TTATCAGAGGTGAGCCCGTGCTCTTCAGCGGAGAAGATCCCCTACCTGGCCGCCGGCCACTTTCTGTGGGCCGTG
GGGTCCCTCAAGGAGACGGCCCTTGGGCTCAGGGGCTGCGTTTTCCACACGCGCCTTTCCCAGGGCTCCCGCGCCCG
TTCCTGCCTGGCCGCCGGCCGCTCCAACAGCAGCACAAAGGCGGGACTCAGAACC GGCGTTT CAGGGCCGCCAGCGG
CCGCGAGGCCCTGAGATGAGGCTCCAAAGACCCCGACAGGCCCGGGCGGGTGGGAGGCGCGCGCCCCGGGGCGGG
CGGGGCTCCCCCTACCGGCCAGACCCGGGGAGAGGCGCGCGGAGGCTGCGAAGGTTCCAGAAGGGCGGGGAGGGG
GCGCCGCGCGCTGACCCTCCCTGGGCACCGCTGGGGACGATGGCGCTGCTCGCCTTGCTGCTGGTTCGTGGCCCTA
CCGCGGGTGTGGACAGACGCCAACCTGACTGCGAGACAACGAGATCCAGAGGACTCCCAGCGAACGGACGAGGGT
GACAATAGAGTGTGGTGTTCATGTTTGTGAGAGAGAAAACACTTTTCGAGTGCCAGAACCCAAGGAGGTGCAAATGG
ACAGAGCCATACTGCGTTATAGCGGCCGTGAAAATATTTCCACGTTTTTTCATGGTTGCGAAGCAGTGCTCCGCT
GGTTGTGCAGCGATGGAGAGACCCAAGCCAGAGGAGAAGCGGTTTTCTCCTGGAAGAGCCCATGCCCTTCTTTTAC
CTCAAGTGTTGTAAAATTCGCTACTGCAATTTAGAGGGGCCACCTATCAACTCATCAGTGTTCAAAGAATATGCT
GGGAGCATGGGTGAGAGCTGTGGTGGGCTGTGGCTGGCCATCCTCCTGCTGCTGGCCTCCATTGCAGCCGGCCTC
AGCCTGTCTTGAGCCACGGGACTGCCACAGACTGAGCCTTCCGGAGCATGGACTCGCTCCAGACCGTTGTACCT
GTTGCATTAAACTTGTTTTCTGTTGATTACCTCTTGGTTTGACTTCCCAGGGTCTTGGGATGGGAGAGTGGGGAT
CAGGTGCAGTTGGCTCTTAACCCCAAGGGTTCTTTAACTCACATTTCAGAGGAAGTCCAGATCTCCTGAGTAGTG
ATTTTGGTGACAAGTTTTTCTCTTTGAAATCAAACCTTGTAACCTATTTATTGCTGATGGCCACTCTTTTCCTTG
ACTCCCCTCTGCCTCTGAGGGCTTCAGTATTGATGGGGAGGGAGGCCTAAGTACCACTCATGGAGAGTATGTGCT
GAGATGCTTCCGACCTTTCAGGTGACGCAGGAACACTGGGGGAGTCTGAATGATTGGGGTGAAGACATCCCTGGA
GTGAAGGACTCCTCAGCATGGGGGCGAGTGGGGCACACGTTAGGGCTGCCCCATTCCAGTGGTGGAGGCGCTGT
GGATGGCTGCTTTTCTCAACCTTTCCTACCAGATTCCAGGAGGCAGAAGATAACTAATTGTGTTGAAGAACTT
AGACTTCACCCACCAGCTGGCACAGGTGCACAGATTCTATAAATTCACACGTTGTGTTCAACATCTGAACTT
AGGCCAAGTAGAGAGCATCAGGGTAAATGGCGTTCATTTCTCTGTTAAGATGCAGCCATCCATGGGGAGCTGAGA
AATCAGACTCAAAGTTCACCAAAAAACAATACAAGGGGACTTCAAAGTTCACG

4845/5332
FIGURE 4209

CTTTCCCGGAGGCTGGCAGATGCGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGGT
CCCCCGCCGCCCGCCTCCCGGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGGTGGGAGAA
GGAGAAGCACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCC
CCTTCCCGACGGAGTGCCTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCCAC
TTTTTATGGGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTTCAATGACTGGCG
AAAGGAAATGGCGGTGGAAGAGAGGGAAGTCATCAAGAGCCTGGACAAGTGTGACTTCACGGAGATCCACAGATA
CTTTGTGGACAAGGCCGAGCCCCGAAAGTCTTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCAGAAAA
ACTTCAGCAAGAGTTCGGCTACTGTATTTTAGATGGTCACCAAGAAAAAATAGGCAACTTCAAGATTGAGCCGCC
TGGCTTGTTCCGTGGCCGTGGCGACCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGGT
TATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCGCCGGCGGGGCACCAAGTGAAGGAGGTGCGCTCCGATAA
CACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTTCAAGTCCATCAAGTACATCATGCTGAACCCCTTGCTC
GAAGCTGAAGGGGAGACAGCTTGGCAGAAGTTTGAACAGCTCGACGCTTGGGGGATTTGTGGACGAGATCCG
CTCCAGTACCGGGCTGACTGGAAGTCTCGGGAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGA
TAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAGGCGGCCGACACCGTGGGCTGCTGTTCCCTCCG
CGTGGAGCACGTCCAGCTGCACCCGGAGGCCGATGGCTGCCAACACGTTGGTGAATTTGACTTCCTGGGGAAGGA
CTGCATCCGCTACTACAACAGAGTGCCGGTGGAGAAGCCGGTGTAAGAAGTACAGCTCTTTATGGAGAACAA
GGACCCCGGGACGACCTCTTCGACAGGCTGACCACGACCAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGG
GCTGACGGCCAAGGTGTTCCGGACCTACAACGCCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGCGC
CGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCGTGGCCATTCTCTGCAACCATCA
GCGAGCAACCCCGAGTACGTTGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGT
GGCTGAGGCCAGGCCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAAGCCCAAGGGGATGGCAAGTCCAGGAGTGT
CCTGGAGAAGAAGAGGCGGCTCCTGGAGAAGCTGCAGGAGCAGCTGGCGCAGCTGAGTGTGCAGGCCACGGACAA
GGAGGAGAACAAGCAGGTGGCCCTGGGCACGTCCAAGCTCAACTACCTGGACCCAGGATCAGCATTGCCTGGTG
CAAGCGTTTCAGGGTGCCAGTGGAGAAGATCTACAGCAAAACACAGCGGGAGAGGTTCCGCTGGGCTCTCGCCAT
GGCAGGAGAAGACTTTGAATTTAAACGACGAGCCGTGTTGAACTTCTTTTGTATGTGTGTGTGTTTTTTTCACT
ATTAAAGCAGTACTGGGGAATTTGTACAATAAAA

4846/5332
FIGURE 4210

GCAGTCCAGCTGCTCTGGACGCTGAGGCCCGGGCTTCTCTTGCTGGGGTGTGATTTCGGGAGGGCTGAGGGCGCG
GCCGAGAGAACGGGGCGGTACCGCCGCCGTGGCCCGCGCTCCCGCGCTCTCCTTGCAGTGCAGGCCCCAGCCG
CTCTCGGGCGCGGGCTGGGGGAGGCGGCCCTGCAGGTGCGTACCGGGGTCCGACACGTGCGGGGCTTCTGCGA
GCTGAGTCCCCGCTGCGCGTCTTCAGGCCCTTGTAAAGTTGTCAAATTTCCACCGGCCAGCTCATCGAGCTTCT
TCCAGCTGTGAACAGGAGGGCCTGTTCCTAATTCTTGCCGAAATTGTTCCAACGTGCTGGTGTCTGCAAGATG

GAGCCAGGAGGAGAGCCACAGGTGCTAAAGAGAGCAGTACCCTGATGGAGTCCCTTGCACTGTGAAGGCTGCT
TTCCTGGCGCAGGCCCGAGTGGCAGCCGGTCAGCCGAGGTGCAGGCAGCTCAGAGCACGGAGCCTGCCGCAGAG
GCAGGCGCTCCCGAGGGAGAGGGCCACAGAGGGGGCCTCCCGGGCGTTGGGGTCTCTTGGCCTTTGTGAAAAC
CAGGAAGCCAGAGAGAGGCCCGGAGGTTCCTTCGAGGCCCGGTCACTTCTGAGAAAAGTGGAGGACAGAGTGGC
CTCGAGTCAGACGTCCCTCCGAACGAGGCCCGGCGCAGAGGGCGGGGCAGCTGGAAGGGGCGGCCTTTCCCG
TGCGGCGCCTGTGGCCGAGCTTCAAGTGCTCCTCGGACGCGGCAAGCACCAGGAGCATCCACTCGGGGGAGAAA
CCGTACGAGTGCAGCACTGCGGGAAGGCCTTCATCCACAGTCGCACGTGGTCCGGCACCAGCGGGCGCACAGC
GGGAGAGGGCCCTACGCGTGCGCCGAGTGGCGCAAGGCCTTCGGCCAGAGCTTCAACCTCCTCCGGCACCAGCGC
GTGCACACGGGCGAGAAGCCCTACGCGTGCGCCGACTGCGGCAAGGCCTTCGGCCAGAGGTCCGACGCGCCCAAG
CACCGCCGCACCCACACCGGGGAGAGGCTGTACGCGTGCGGCGAGTGCGGGAAGCGCTTCTGCACAGCTCGAAC
GTGGTCCGGCACCGGCGGACCCACCACGGGAGAAACCCGTACGAGTGCCGGGAGTGCGGCCAGGCCTTCAGCCAG
AGCTCCAACCTCCTCCAGCACCAGCGCGTGACACAGGGGGAGCGGCCCTTCGCCTGCCAGGACTGCGGCCGCGCC
TTCAGCCGAGCTCCTTCTCCGCGAGCACCGCCGATCCACACCGGGGAGAAGCCCCACAGTGCGGCCACTGC
GGGCGCGCTTCCGGGCGCTGTGGGCTTCTTCCGGCACCAGCGACTCCACACGGGCGAGAAGCGTTCCGCTGC
ACCGAGTGCGGCCGCGCCTTCCGCCGTAGCTTCCACCTCATCCAGCACCGGCGGGTGCATGGCGCCGAGTGAGCC
GGGGCTGCGGCGGAAGAGATGCCGGCGGCTGGTGGGCGCGAGGCCGAGGCCGGGGAGGCTCCTGTCCGCCCCG
TGCGCGGTGAGGAAGTAACAGCCGGCTGCGCGCTGGTTCTCGGGTTGCGAAAGCCTCGCCAGGCCTGCATCCGC
CTTGGCTTGGGAGCAATCAGGAGAGACAGGGCTCGGGGAAGGCGAGCGCTGCCCGGGGAGGCGATTCCAGAGG
CGGGGAGGTCTCTGGGGTCTGTCCCGGGCCGGCCGCCCGCCTCTGAACTCCCCGCTCCACGGTCAGTGCTG
CGGGGAGTGGCCGGTGATTGAATCGGTCACTTCTCCGCAACCAGGCCTCCATCAAAACCTGCATGAGATGACG
GCCTCGGGCTTCGGGTGGTGAAGCGGGGTGGGGGGCAGTTACGAAGGGGGCGCCAGACAGGGCATGGAAGC
CTCGGCTCTCCCCGTACCTTGGGGTGGTGGTTTCATCCATGTATTTCAACGCCTTTTCACAGCCGGTTCATA
TGGTCCCGACTTCTGTGTGCTTAGAAAATTATGGAACCTGGCCGGGTGCGGTGGCTCCCGCCTGTAATCCTAGCA
CTTTGGGAGGCCGAGGCGGGCGGATCACACGGTCAAGAGATCAAGACCATCCTGGCCAACATGGCAAAACCCCA
TCTCGACTAAAAATACAAAAAATTAATTGGGCGTGGTGGCGTGCCTGTAATCTCAGCTACTTGGGAGCCTGGG
GCAGGAGAATCACTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCGGAGATCTGGGCACTGTACTTTAGCCTGGGC
GACAGAGAGACCCATCTCAAAAAAATTTGGAACCTGAGAAGGGGGTCTGGGGTCCCCGGGGCCACCGTCTG
CACTTGGCATCTGAAGTCGGGGTGGTCTTGTGGGACTGACCCCTTACCCTGTGGGTCTGCACTAGCTCCGGGCA
ATTGGTGACAGAATCGAGTTAAATTGTAGGACATCGCGTTGGTGTCTGAGAGGGAGTTGGAGAGCTGGTTGGTGT
GGAGGGAAAGGCTTACACACATGTGATTTAGAAAGCGTTCTGTGGGTAGAGGAATCGTTTTCTTTTGTAGACTGT
TATGAGTATGTACAAATGTTATTTCTGTAAAAATATTTTCAATTTTTTAAATGTTATTTCTAGAT

4847/5332
FIGURE 4211

GGCCGGACACTTCCGTCCGGCGCGCGGCGTCCCTCCTCCCGCTCGGAAGGTCCCAGGTGTGACACCTTCAGCAGGT
CTCAGGGAAGATGGCAGCCCTAGGGGACATTACAGGAGTCCOCTTCTGTCCCGTCCCCTGTGAGTCTCTCATCACC
GGGGACACCTGGAACCCAGCACCACGAGCCTCAGCTTCACCTCCATGGGCATCAACATGGCTCCCCCTGGCTCCAG
CCCTAAGGTGCTCTCCCAGCCGTCCGACCTGGATCTCCAAGACGTAGAGGAAGTGGAGATCGGCAGAGACACCTT
CTGGCCCGACTCCGAGCCCAAGCCGGAGCAGGCTCCACGCTCTCCTGGCTCTCAGGCCCTGACGAGGGGGCGGG
CGGGGCGCTGCGCAGCCTCCTGAGGAGCCTTCCCCGAGGGCCCGGTGCAGCGCCGGCTTCGGGCCTGAATCCAG
CGCGGAGCGGCCGGCGGGCCAGCCGCTGGGGCCGTCCCTTGCGCCAGCCGCGGGGCGCCTGGGCGCTGACGCT
CGTGACAGCAAGCAGCGGCCGGGGCCGAGGGTGCGCCGAGCGGGCTGCCGAGCTGGGAGTCAACTTCGGTCGGAG
CCGGCAGGGCAGCGCGCGGGGGGCCAAGCCGCACAGGTGCGAGGCCCTGCGGCAAGAGTTTCAAGTATAACTCGCT
GCTCCTGAAGCACCAGCGCATCCACACGGGCGAGAAGCCCTACGCCTGCCACGAGTGCGGCAAGCGCTTCCGCGG
CTGGTCGGGCTTCATCCAGCACCACCGCATCCACACGGGCGAGAAGCCCTACGAGTGCGGCCAGTGCGGCCGCGC
CTTCAGCCACAGCTCGCACTTCACGCAGCACCTGCGCATCCACAACGGCGAGAAGCCCTACAAGTGCGGCGAGTG
CGGCCAGGCCTTCAGCCAGAGCTCCAACCTGGTGCGCCACCAGCGGCTGCACACGGGTGAGAAGCCCTACGCCTG
CAGCCAGTGCGGCAAGGCCTTCATCTGGAGCTCCGTGCTCATCGAGCACCAGCGCATCCACACTGGCGAGAAGCC
CTACGAGTGCTCCGACTGCGGCAAGCCTTCCGCGGCCGCTCGCACTTCTTCCGGCACCTGCGGACCCACACGGG
CGAGAAGCCCTTCGCGTGTGGCGCTGCGGCAAGGCCTTCGGCCAGAGTCCCAGCTCATCCAGCACCAGCGGGT
GCACTACCGCGAGTAGCCGGGCGGGGGCTCGGGGCTCGGCCTCTACOTGCCCCCAACCCACCCTCCACCCCGTC
CCCCACGGTGGGCACTGCCCAGCACCGCATGCCACGTGTCCGGAATAAATTCTTTTTGATTGTTGG

4848/5332
FIGURE 4212A

GCCCTGACCAGCAGACACCATCCTTCCAGCCTCTCTTGGCCACCCGGACCAGCGGGCACCACCCTCCCAGCCTCA
CGCGGCCACCCTGACCAGCAGGCACCATCCTTCCAGCCTTGCTCAGTCACCCTGACCCAGAGGGCTGCCCTGACC
AGCGGGCACCATCCTCCCAGCCCCACTCAGCTGCCCTGACCAGCGGGCACCATCCTCCCAGCCTCACTCGGCCAG
CCGAGCTCTGTAGGCCTCAGAGTGACAGAGAACCTCAAATGTTGTGACTTTGCTCTGCTGCAGGGACCTGCCATGG
AGTGTCCCTTGTGCGAGCATTTTGTAGAGCTATGCCAGCATCCATCCCTGCAGGTCCCATCCCTGAGCCATTTCTC
AGGAGAGCAGGAAGGGAGCAGGGAGAGGGGTGCTCCGAGCCAGCCCCGGAACCAGAGGTCTGGGGACGCAGCCGA
CCAGCCCTCCTTGTCTGGGCCTCTGTTTCCTCTTCGACACAGGGAAGCAGGGAGGGGCGGATCAGCGACTTAGGC
CTGTTGGCTGTGGTGGGGTCCACCTGCGTTTTCTGGGGAGCCACGGACCCTGGGGTGTACCTGGGTTTCATTCCC
AGTGACCTCTCCTATTGGTCCCCATTTGGGGCGCTGAGATGTGATCGTTTTCTTTCCTGAGAATGAGCTGAGGTAA
AAACATGCTGGGGAGGAAGATGGGCCCTGGGGGCAGCGAGCTGCGCCTCTGCACCGGGAGAAAGGCCGTGTCCCC
AGAGCTGAGGCGGTGGTGGGCAGGGCTCCTGAGAAGCCGGGGCAGGGCAGGGTGTCTCTGAGGTCAATGAGGAAC
AGCTGAGGTCCAGGGACGCAGGAAGGATGGGGTGAACCTCCGGGATGGGGCCGGCAGGGAGCCCTCACGCTTACAGA
GCCTGGTGTGGCACTCTCCTGGCTTCCCTCCGCAAACCTAGCCACGTGGTCAGGGAGCCCGGGCCTAGCAGACGG
CCCCACCTTGACAGAATCCCCAGGGTCGTGCGTGGCGGTGGGGGCGACTTCACAGCCGAGACCGGGCCTAACGC
TGCTGTCTCGCAGTCACCCCTGCAGGCCGCTCAGGGCAGGGCTCTGGCCTGACGGGGGTTCTTGACACGCCTCT
GAGCCGGCAGCCCTACCCGCACCCGTGCACCTTCCACGCCCGTCTCCAGCAGCCCTGCCCCACCCGCACCCC
TGCACCTGCCACGCCGTGTCTCCGGCAGCCCTGCCACGCCCGTCTCCGGCAGCACCCTGCCACGCCCGTCTCCGGCA
GCACCTGCCACGCCGTCTCCGGCAGCACCCTGCCACGCCCGTCTCCGGCAGCACCCTGCCACGCCCGTCTCCGGCA
GCCCTGCCCGCAGCCCGCACCCTGCCCGCAGCCCTGCCACGCCCGTCTCCGGCAGCACCCTGCCACGCCCGTCTCA
CGGCTGTCTCCGGCAGCCCTGCCCGCAGCCCTGCCACGCCCGTCTCCGGCAGCACCCTGCCACGCCCGTCTCCGGCA
CACC CGCACCCTGCCACCTCCACGCCCGTCTTGCCCTGGGGCCAGGTGCAGGTCTGTGAGGAGGGCAGCCCG
TGCTCCCGTGGCCACCGCTCAGCCAAATGGATTACGCAGGGTTTTAGTGTGTGTGCTGTGTCCCGTGTGCC
TGTTTCCTGGTGAGGCTGGATGCCTGGCATGTCTGAACACTCACATTCCCAGGCATGCATGTGACCGCCCGCC
GCCACCCATGTACTGTGGCGCTGACCCCTCCTGTAACAGCTGTGGTCTTGGCCTCTCGTGTGGTGAGATGTC
CCATTTCCAGTTACTTTCTGTTGTCCAAAAGTTTAACTGTCTGCCAGCCAAAGCTGTGAGCATTACTCTGAT
AGACCATCAGTCCTTGGTAAGTGTCTGTGCATCTGGGATAAGCATCCGTTTGTTCAGCTGCGCTTTCTGTGA
CTTGCTCTGCGTGAGTCTCGGTCCACGTGGGCCGTGCGCTGGTTCACAGCCTGCCGACACACTCACTGCGAC
GCCTCCCTTGCTACTGCTTGCTGGCTTCTGTGTTCTCTGCAGTAAACATTGATTTCTGACTCGAGTGCTGTCTT
CATTGAGCTCTCTGCACTCTGGGGATGCAGTCAGCGACCCACGAAGGCTACCGGCTTCTCCAGGGAACAGTG
CAGGTGCTGCTTCCAGGACCACAGGACCCTGGCTGGTTCGCTGCCTGTGATGGGTCTCCACAAGACCACTCCCA
TTAGCCAGACTCACAGGAGACTGACACATAAATGAGAAAAGTTGTTCACTAACTCACAATGGGAGCAACCCCTTGC
AGTGGGAAATGCTCTCAGCCTTTCTGGCCCCGATACCTGGGAAGCTAAGGGTTTATTAGGTGGCCTAGTGCCT
GCACTCAGGATGCCCCAGAGGAGGCCCGGGGTCTGAAAGCCTTCTTCAAGCCCTGTCTTCAAGCCCTTCTCCA
GGCCCTCTGAGTTCCAAACAGCACTCACTTTTGTCTGGTCTCTGTTCCCGGCTCGCACCTCCTTCGTAGGGC
AGTTGCTCTCAACCAGGGGTACTTCTGCCCCGGGGCCACTCGGCAATGCTCCGGGACCGTGTGGCGGTACAG
CTGGGCGGGGGCACCACCGGAATCTGGTGTGCAGAGGCGGGGTCTGCCAGATGCCAGAGGTGCTGCAGGTGA
GAGATACAGATTTAGACCCTGTGACGACAAAGAAAAGGACGGGAAAGGTGGCTCTCAAGGCCCCAGGGAACCGCC
CAGAGACGCTTGGGGTTCCAGAAGCTGGAAAGGCATGGAGCGGTGCGGGAACAAGCCTCTGCGGTGGCTGGAGAT
GTGGGGATGGAGACTGGTTCATGCCTTACACACTTAACCAGAACCCTCCAGCTCTCCCTCCCTGCAACCAAGC
CAGCAAGGCACACGGTGGCTGGCGCTGGCGAGAGGCAAGTGTGCTTGACTGCCTTTCTCCACTCTTGAGGACAA
CACCAGAGTGGCCCCGTCTTTGCCCCACCAGCCAGGCCTAAAGCTTCTCATCATCCGCATCCCGGCTGGGA
CTTAGGCGGACTTCTGCCAGCTGTGTACGTGCAGGGGACTGCAGCCACTGACCCCTCTCCCTTCTGTCTGCT
CTTCTCTACCCACAGCCCCAGGCAGATCTTCAAGTCATGTGAGCTCTCTCCCTCCCTCCCTGCAGACCCCTGT
GCCCCGAGTGCCCTGAGAATGACGTCTGAGCCCCAGTGGAGGTGTCAAGGCTGTTCCGGTCTGTCCCCATCCCG
TTCTGTCCTCCCTTGTCTACACACTCCCTGCTGGTCTTCCAAACTCGAACCCAGGCAACTCCTTCAGGCA
TCAGACCTCTGCCCCGCGCCCTCCTGCCTCTCTGTGATGGGCTGGCCCTTCCCTTCTGCTGCCTCCCTCCCT
CCTTCTGCTCCAACCCCTATCTCTCTCTGATGTGCCCTTAGAGAAGCCTTCTTGGACCTTAAGCCTGGCCAC
TCCTCTAAGCCCTCATCTCCAGGTGTGGTCTAGGAAGTGTCTCAGCCTCTCTACTCCAGTGGCTCGGGGTCTC

4849/5332
FIGURE 4212B

TGACCAGCCCTCCTGCCAGGGAAGCTTTGAAGGTTCCCACAGGGACCCCTAGAGACAAGGGCACTGCCCCGTCCAG
ATGGCACCCCTCACCCCAACCCAGCAGCACTGGCTGGAGCAGGCCATGCCTGTGTGGGTATCTGAACAGGCACTG
GATTCCCGATCTCAACAAAAGAAGCCCATGGAGGCCTTTTCTAATCCACAGTCCAAGAGGACAAATCAAGACAA
CAGGCTGGGGGGGCTGGCTGTGGGCCGACTCCCACGTCTTAGGACCAGGGGCTCTGGGGCTGTTTGGGCTGGAAC
CCCTCCTCCCAGCATAACAAACACTAGCTCATTATTTACAGTGAATACCCAACAAAACCCCTGCTCGAGGTGAGGA
GCGGGGACCTGCTGCTCCAACAGACCAGACTGGCTGCTGGCTCCGAGCTCATTAAATCAGCAACCTTTGCACTCC

4850/5332
FIGURE 4213

GATGGCGGCGGAGCAGGACCCCGAGGCGCGCGGGGCGGCCGCTGCTCACTGACCTCTACCAGGCCACCATGGC
GTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCGCCGAGTTTCGAGCTCTTCTTCCGCCGCTGCCCGTTTCGG
CGGCGCCTTCGCCTTGGTAGCCGGCTTGCGCGACTGTGTGCGCTTCCTGCGCGCCTTCCGCCTGCGGGACGCCGA
CGTGCAGTTCCTGGCCTCGGTGCTGCCCCAGACACGGATCCTGCGTTCTTCGAGCACCTTCGGGGCCCTCGACTG
CTCCGAGGTGACGGTGCGAGCCCTGCCCCAGGGCTCCCTCGCCTTCCCCGGAGTGCCGCTCCTGCGAGGTGTCCGGG
CCGCTCCTGGTGGTGCAGCTGCTGGAGACACCGCTGCTCTGCCTGGTCAGCTACGCCAGCCTGGTGGCCACCAAC
GCAGCGCGCGTTTCGCTTGATCGCAGGGCCAGAGAAGCGGCTGCTAGAGATGGGCCTGAGGCGGGCTCAGGGCCCG
ATGGGGCCTGACAGCCTCCACCTACAGCTACCTGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCCAGCT
GCGAGGTGTGCCGGTGGCCGGGACCCTGGCCCACTCCTTCGTCACTTCCTTTTCAGGCAGCGAGGTGCCCCCTGA
CCCCATGTTGGCGCCAGCAGCTGGTGAGGGCCCTGGGGTGGACCTGGCGGCCAAAGCCCAGGTGTGGCTGGAGCA
GGTGTGTGCCACCTGGGGCTGGGGGTGCAGGAGCCGCATCCAGGCGAGCGGGCAGCCTTTGTGGCCTATGCCTT
GGCTTTTCCCCGGGCCTTCCAGGGCCTCCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCAACTTCCTAGC
AGTCGCCCTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCGTGAGGCTGGACAGTGGTGACCTGCTACAGCA
GGCTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCAGTTCCAGGTGCCCTGGCTGGAGTCAGTCCTCAT
CGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCAGGAGGGCAGTGAGGTGAATGTATTGG
CATTGGCACCAAGTGTGGTCACCTGCCCCAACAGCCTTCCCTGGGTGGTGTCTATAAGCTGGTGGCCGTGGGGGG
CCAGCCACGAATGAAGCTGACCGAGGACCCCGAGAAGCAGACGTTGCCTGGGAGCAAGGCTGCTTCCGGCTCCT
GGGCTCTGACGGGTCTCCACTCATGGACATGCTGCAGTTAGCAGAAGAGCCAGTGCCACAGGCTGGGCAGGAGCT
GAGGGTGTGGCCTCCAGGGGCCAGGAGCCCTGCACCGTGAGGCCAGCCAGGTGGAGCCACTACTGCGGCTCTG
CCTCCAGCAGGGACAGCTGTGTGAGCCGCTCCCATCCCTGGCAGAGTCTAGAGCCTTGGCCAGCTGTCCCTGAG
CCGACTCAGCCCTGAGCACAGGCGGCTGCGGAGCCCTGCACAGTACCAGGTGGTGCTGTCCGAGAGGCTGCAGGC
CCTGGTGAACAGTCTGTGTGCGGGCAGTCCCCCTGAGACTCGGAGCGGGGCTGACTGGAAACAACACGAATCAC
TCACTTTTCCCC

4851/5332
FIGURE 4214

CAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCTGGTTCGACAAGTTCAAATATGACGACGCAGAAAG
GAGATTCTACGAGCAGATGAACGGGCCTGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCCGTGATCCTCCGTG
ACATTGCGAGAGCCAGAGAGAACATCCAGAAATCCCTGGCTGGAAGCTCAGGCCCCGGGGCCTCCAGCGGCACCA
GCGGAGACCACGGTGAGCTCGTCGTCCGGATTGCCAGTCTGGAAGTGGAGAACCAGAGTCTGCGTGGCGTGGTAC
AGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCGGCTGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGG
CCACGGCCCCACAGACCCAGTGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGG
CAGTACGCGGAGAAGAAGGCCAAGAAGCCTGCACTGGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGG
GATGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCCAGCTGGACGGGCTGGTCTGGGGGGCT
TCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGGGG
ACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAG
ATCTGAAGCCTGAGTGTGTGTACGTGCGCGCTGCGTGAGGCCCTGCCACGATTAAAGACTGAGAC

4852/5332
FIGURE 4215

CCCCGTGACCCCTCTTCAGGCACCCACCAACCTGATGGTGACAGAGGGGGACAGCCAGCACCCATCTGTCCCCGT
CAGGGCTCTTGTTCACAGCCCCCTGGAGCATGCCCCATGCCCCAACCTTGGGCCTGGCTCCTGGCCCAGATGG
CACCTGGCCTCTTGAGTCTGCTGGGGGACCCCAAAGTTGGTGGTCCCATAGCCTGCCCTCCTGGGTCTCCACCTC
ATGCCTGGACAGGACGCTGTGGCCTGTCCGGGCCTTGGCCAGCCCTGCAGCTGCACCCCGATCCTCATCCCTCA
CCCCATTCCCTGCCAGCATCCTAAGGCTCCTGGCGGGCATCCTCTCTGCTCAAAATTATTGACCTGTCTCCCGGC
CACACCTGCTGTGCCCTCTCAGCCAGGCCATCATCACCCCTGTTTCATTATGTCAGGCCTCATGGGAGCCTGGCC
TTCTCCAGAAGCTGGCCCCGGCGTCCTCCCAAGCTGGACCACGGCTGAATGAGGAACGCGCCACTGGACACATGA
GGAAGAGGCTGCTCTGGGAGCTACTGATGCTGTGACCTCACCTCTCTGGCTTTGGGCGGCAGGTCCCTGCACCTA
GGATGCCTGCCTGGAAATGTCCTTGCAATTCGTGGCCTCCTTCACAGCCTCCTCCTCAGAGAAGCCTCTGCGAGTG
CACAGGGAGTGTGTGCAGCCTTGTGAAGGGCTGGGACCACTTGCCCAGACTGGGGCCCCCTCAGGCACAGGCGTGG
GGTCCTACTGACCTGTCTCCCCAGCTCCACACAGAAAGCATCTAAAAT

4853/5332
FIGURE 4216

CCTGGGCGGGCCCTGCGTCAGGTTGCAGTTTCACTTTTAGCTCTGGGCACCTCCAGCTCCTGCTCGCCGGACGGC
TCCCAGGGAGAGCAGACGCGCCAGACGCGCCACCCTCGGGGCGCCGACGGTCACGGAGCATGGGGTTCGGCCTTTG
AGCGGGTAGTCCGGAGAGTGGTCCAGGAGCTGGACCATGGTGGGGAGTTTCATCCCTGTGACCAGCCTGCAGAGCT
CCACTGGCTTCCAGCCCTACTGCCTGGTGGTTAGGAAGCCCTCAAGCTCATGGTTCTGGAAACCCCGTTATAAGT
GTGTCAACCTGTCTATCAAGGACATCCTGGAGCAGGATGCCGCGGAACCAGACGTGCAGCGTGGCAGGAGCTTCC
ACTTCTACGATGCCATGGATGGGCAGATACAGGGCAGCGTGGAGCTGGCAGCCCCAGGACAGGCAAAGATCGCAG
GCGGGGCCGCGGTGTCTGACAGCTCCAGCACCTCAATGAATGTGTACTCGCTGAGTGTGGACCCTAACACCTGGC
AGACTCTGCTCCATGAGAGGCACCTGCGGCAGCCAGAACAAGTCCTGCAGCAGCTGCGCAGCCGCGGGGACA
ACGTGTACGTGGTGACTGAGGTGCTGCAGACACAGAAGGAGGTGGAAGTCACGCGCACCCACAAGCGGGAGGGCT
CGGGCCGGTTTTCCCTGCCCCGAGCCACGTGCTTGCAGGGTGAGGGCCAGGGCCATCTGAGCCAGAAGAAGACGG
TCACCATCCCCTCAGGCAGCACCTCGCATTCGGGTGGCCAGCTGGTTATTGACTCTGACTTGGACGTCCTTC
TCTTCCCGGATAAGAAGCAGAGGACCTTCCAGCCACCCGCGACAGGCCACAAGCGTTCCACGAGCGAAGGCGCCT
GGCCACAGCTGCCCTCTGGCCTCTCCATGATGAGGTGCCTCCACAACCTCCTGACAGATGGGGTCCCTGCGGAGG
GGGCGTTCACTGAAGACTTCCAGGGCCTACGGGCAGAGGTGGAGACCATCTCCAAGGAAGTGAAGCTTTTGGACA
GAGAGCTGTGCCAGCTGCTGCTGGAGGGCCTGGAGGGGGTGTGCGGGACCAGCTGGCCCTGCGAGCCTTGGAGG
AGGCGCTGGAGCAGGGCCAGAGCCTTGGGCCGGTGGAGCCCTGGACGGTCCAGCAGGTGCTGTCCTGGAGTGCC
TGGTGTGTCCTCCGGAATGCTGGTGCCGGAAGTGCCTATCCCTGTTGTCTACCTGCTGGGGGCACTGACCATGC
TGAGTGAAACGCAGCACAGCTGCTGGCGGAGGCGCTGGAGTCGCAGACCCTGTTGGGGCCGCTCGAGCTGGTGG
GCAGCCTCTTGGAGCAGAGTGCCCCGTGGCAGGAGCGCAGACCATGTCCCTGCCCCCGGGCTCCTGGGGAACA
GCTGGGGCGAAGGAGCACCGGCCTGGGTCTTGCTGGACGAGTGTGGCCTAGAGCTGGGGGAGGACACTCCCCACG
TGTGCTGGGAGCCGCAGGCCAGGGCCGCATGTGTGCACTCTACGCCTCCCTGGCACTGCTATCAGGACTGAGCC
AGGAGCCCCACTAGCCTGTGCCGGGCATGGCCTGGCAGCTCTCCAGCAGGGCAGAGTGTGTTGCCACCAGCTGC
TAGCCCTAGGAAGGCCAGGAGCCCAGTAGCCATGTGGCCAGTCTACCATGGGGCCAGGAGTTGGGGAACACAA
TAAAGGTGGCATACGAAGG

4854/5332
FIGURE 4217

CAGGTGCAACTGACATGGGTGAACCCAGGGATCCATGCGGATTCTAGTGACAGGGGGCTCTGGGCTGGTAGGCA
AAGCCATCCAGAAGGTGGTAGCAGATGGAGCTGGACTTCCTGGAGAGGACTGGGTGTTTGTCTCCTCTAAAGACG
CCGATCTCACGGATACAGCACAGACCCGCGCCCTGTTTGAGAAGGTCCAACCCACACACGTCATCCATCTTGCTG
CAATGGTGGGGGGCCTGTTCCGGAATATCAAATACAATTTGGACTTCTGGAGGAAAAACGTGCACATGAACGACA
ACGTCTGCACTCGGCCCTTTGAGGTGGGCGCCCGCAAGGTGGTGTCTGCCTGTCCACCTGTATCTTCCCTGACA
AGACGACCTACCCGATAGATGAGACCATGATCCACAATGGGCCTCCCCACAACAGCAATTTTGGGTACTCGTATG
CCAAGAGGATGATCGACGTGCAGAACAGGGCCTACTTCCAGCAGTACGGCTGCACCTTCACCGCTGTCTATCCCCA
CCAACGTCTTCGGGCCCCACGACAACCTCAACATCGAGGATGGCCACGTGCTGCCTGGCCTCATCCACAAGGTGC
ACCTGGCCAAGAGCAGCGGCTCGGCCCTGACGGTGTGGGGTACAGGGAATCCGCGGAGGCAGTTCATATACTCGC
TGGACCTGGCCAGCTCTTTATCTGGGTCCCTGCGGGAGTACAATGAAGTGGAGCCCATCATCTCTCCGGTGGGC
GAGGAAGATGAGGTCTCCATCAAGGAGGCAGCCGAGGCGGTGGTGGAGGCCATGGACTTCCATGGGGAAGTCACC
TTTGATACAACCAAGTCGGATGGGCAGTTTAAGAAGACAGCCAGTAACAGCAAGCTGAGGACCTACCTGCCCCGAC
TTCCGGTTCACACCCTTCAAGCAGGCGGTGAAGGAGACCTGTGCTTGGTTCACTGACAACCTACGAGCAGGCCCCG
AAGTGAAGCTGGAAGACAGGATCAGGTGCCAGCGGACCATCGGCTGGCAGAGCCCAGCGGCCACCACCCGTC AAC
CCTGCCAGGAGCTGAGGGCACCACCAGCAACCTGGGCCTGCATTCCATCCGCTCTGCAGCCCCAAGCATCTTTC
CAGTGGGGCCCCCATTACGTTGGTCCTCAGGGAAACCAGGGTCCCGGGCAGGCCCGCGCTTTGCTCCCCACAC
CAGCCCCCTGCGCGTGTCCACTCTGATCCTGCATCCCACTCCCTGGGAGCCAATAAAGTGCATTTTCACAG

4855/5332
FIGURE 4218

ACGCGACGCGCGCTCCGAGGCAACAAGATGCGAGCTGCGGAGCCGTCTCCGCGGCGCGTGGGCTTCTGTGGCGCGG
 GCCGCATGGCGGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGAAGCTCAGCACATACTGGCCAGTG
 CACCAACAGACAGGAACCTATGTCACTTTCAAGCTCTGGGTTGCCGACCACGCACTCCAACCAGGAGGTGCTGC
 AGAGCTGCCTGCTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTTGGCAGAGGTGGCTCCTGTGG
 TCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGGGTGTCTCTGAGCACCTTGGAGGAGCTGCTGCCCCAA
 ACACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGCGGGGCC
 GCCACGTGGGGAGCAGCGAGACCAAGCTCCTGCAGCATCTGCTGGAGGCCTGTGGGCGGTGTGAGGAGGTGCCTG
 AAGCCTACGTCGACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGG
 CTGAAGGAGCCGTCAAGATGGGCATGCCAGCAGCCTGGCCCACCGCATCGCTGCCCAGACCCTGCTGGGGACGG
 CCAAGATGCTGCTGCACGAGGGGCAACACCCAGCCCAGCTGCGCTCAGACGTGTGCACCCCGGGTGGCACCA
 TCTATGGACTCCACGCCCTGGAGCAGGGCGGGCTGCGAGCAGCCACCATGAGCGCCGTGGAGGCTGCCACCTGCC
 GGGCCAAGGAGCTCAGCAGAAAGTAGGCTGGGCTCTGGCCATCCTTTCTGCTCTGTGCCCTGCTCTCCCTG
 TGTCCCTTCCCTGAGGACTGCGGCTCCCTCCCTCCTGCATGAGGGTCTCCTACTGCTCCTTCTCCCTTGCACA
 GGGAAATGCAGGGGGCAGGACTTGGGAGGTTCCAGCAGGCGGGGGAGCCCCGACCAGTGGGGACACTCCTCCCTC
 CCCAGTGAGCAGAAGGCACCGTGGTGGTGGCTCTGCCCTTGTGTCAGTGAGCCCACCTTGTGCAACATTGGTT
 CTGAGGGGGCCCAAGAGATGGCGTCTTGGTCAATTGCCCCGCATGGTTGGGCAGTTGGTTGAGGCCATGAACAGAAC
 TTACGGTAACAGGCACGGCTGGCCCAATGCCTGGTCTGGAGCTGGAGCTTGCCCTTGGCTTTCCAGGTGGCTCCG
 TGCAGCTACAGCCAGGCCGGCTGCCTCATCTCAGCTCTAGGGGGCACGAGCCATATGGGGTCTGCACAAGAGACC
 CTCTCCCTTGCAATAAGCCAGGGGCCCTGGCCTGATGGGGCCCCCATGGGGAGCTGGAGCCTGCCCTGCAGCCT
 GGAGAAGAGGGTGGCTGTGGTGGGCCTGCTCATCCCTGCTAAGGAGCAGGAGCTGCTGGGCCAGGTCTGCGGCA
 GTGCTGGGGTGGCACCAAGGTGGGCAGTGGTAGGTGGGGTGGCTTGAGGTCTGGGAGGGTGGCCCTGGCCAGCCAG
 GACACATGCAGACCCCTGGCTTTAGTCTGGATACAGGCTCCCTCTTCTCCCAATCCTAAGCTCCTGACAAGTG
 GCCAGGTGGCTCTGGGGCCCTCCTGCCCCGTGCCTAGGTGAGGGTCTTGAATACCCCGTAGCTCTGGCACCACC
 AACTGGCCTCTGATGGCAAGACTTGGCCCCCTCCACCTGTCCCTAACGGACGGCAGGTGAGGAAGCCAGGACTC
 AGGGGAGAAGCAAACCCCCAGGATTGAAGGCTAGGGTCTTAGGGCCTTTGGGTGGGGAGGGCCCCGGGCCGGACAG
 CCTCAGCTCCGTCCCCTGCCCCACAAGATTACCTGGGCTCCAGTCCCACGCTGGCCCCAACTGCTGCAGCTCT
 CGGCTTCCGCCCAACAGCCTCTGAGAGGTGAGGCGGGAGCATGCCCTCAGCGAGGCTGGGCGCGGGTCTGCTGT
 GCCATCTCCCTTGCTGCGCCTGAGCAGATCAATCCACCAGTGCAAAACAGGGCTAACGGCACCTGCAGGACAGCAGC
 ACGCTCCATCCCTCATGCTCAGCTGCCTCTGCGGCCACGGACTTCTGCCCTTCATCTGCTCTCTTACTCTCCT
 GAGCCTAGCCCGTCCGTAAAGCTCCCTCCCCTGCCTGGTTCCCAGGGCAGGCTGACTCAGTTGACTGCTTGGTCCA
 AGCCTGGCCCTGGCACTTGTGAGGGTCAAGCCTAAGGAGATGGGAATAAAGAGGCCAGAGAGCACCAGGTGAGCTC
 ATGTTTC

4856/5332
FIGURE 4219

TCCAGGCGCAGGCCGAGGCCTTCGCGCGCCAGATCTACGGGCCCCGAGTGCACCTTCAAGGCCAGCCACGGCTGGT
TCTGGCGCTGGCAGAAGCGCCACGGCATCTCCAGCCAGCGCTTCTACGGCGAGGCCGGGCCCCCAGCCCCGAGCC
CCGCGCCCCGGCCCCGCCGCTCAAGGAGGAGCCCCGCGCTGCCCTCCGGCGCCGGCCCCCTGCCCGACCGCGCCCCGG
CCCCGCGCCCCCGGCCGAGGGCGGCTACGGGGACGAGCAGATTTACAGCGCCAGCGTCACCGGCCTCTACTGGA
AGCTGCTTCCGGAGCAGGCTGCGCCCCCGGGCGCAGGGGACCCCGGGCGGGGGGGCTGTGGCCGGCGCTGGCGGG
GCGACCGCGTAACGGTGCTGCTGGCCGCAAACCTGACCGGCAGCCACAAGCTGAAGCCGCTGGTTCATCGGGCGGC
TGCCGGACCCGCCCAGCCTGCGCCACCACAACCAGGACAAGTTCCCGGCCTCCTACCGCTACAGCCCCGACGCCT
GGCTCAGCCGCCCGCTGCTGCGGGGCTGGTTCTTTGAGGAATTTGTCCCAGGCGTCAAACGCTACCTGCGCCGAA
GCTGCCTGCAGCAGAAGGCCGTGCTGCTGGTGGCCCCACCGCCCTGCCCAAGCCCAGCTGCCAGTATGCCCGCCC
TGGACAGCGAGGATGCCCCCGTGCGGTGCAGGCCGGAGCCCCCTCGGTCCCCCGGAGGAGCTGCAGACACCGGATG
GCGCTGTGCGGGTGCTGTTCCCTGTCCAAAGGCAGCAGCCGGGCACATATCCCCGCACCGCTGGAGCAGGGCGTGG
TGGCCGCTTCAAACAGCTGTACAAGCGGAGCTGCTGCGACTGGCTGTGTCTGCGCCAGCGGCTCCCCGCTGG
ACTTCATGCGCAGCTTCATGCTCAAGGACATGCTCTACCTGGCTGGCCTCTCCTGGGACCTGGTGCAGGCGGGCA
GCATTGAGCGCTGCTGGCTGCTGGGCCTGCGGGCTGCCTTCGAGCCCCGGCCCCGGCGAGGACAGTGTGGGCAGC
CGGCCCAGGCCGAGGAAGCCGCCGAGCACAGCAGGGTGCTCAGCGACCTCACCCACCTGGCGGCTCTGGCCTACA
AGTGCCTGGCTCCGGAGGAGGTGCGGAGTGCTGCACTGGACGATGATGGGGGTCCGCCCCGAGGGCTGCAGGG
AGGAGGTGGGCCCAGCCCTGCCCCCTGCAGCGCCTCCGGCCCCAGCCAGTCTGCCCTCTGCCATGGGGGGCGGAG
AGGACGAGGAGGAGGCCACCGACTATGGAGGGACCTCAGTGCCGACTGCCGGGGAGGCCGTGCGGGGGCTAGAAA
CAGCTCTGCGGTGGCTGGAGAACCAGGACCCAGAGAGGTGGGGCCACTGAGGCTGGTGCAGTTGCGCTCACTCA
TCAGCATGGCCCCGAGGCTGGGGGGCATCGGGCATACCCAGCAGGCCCTATGACGGTGTGTGACCAGGCCAGC
CCAGTGACCTTTCTCCTGCTGCACTTGAGGGAGGGGACATACACACAGTCTCCCATCTCTCCTCCCCCTCCCCCT
GGGGTGGCCQACCGCATGGGTACAGGGGGTTCCAGGAATCCAAATCCAGCATGGCTTGGAGGAGCTCTGTTGGTG
AGAGGTGCCCCCTGCCTCACTGGCACCCCTGGGGGCACAGCTGGAAGAGAGGCCTGGCCCATGCTCCTCTCAGGGCA
GGCACATGTACGGGGCATAACAAGGCACAGCGCCTGTTGGAACAGGTGGCTGTGTTCTGCTCTGGCCCCCGTGGG
GCTGGGCCTCCGCCCCTGCAACAGTCACATGCACTGGACGAGGGCCGAAACTCCTGTCTGCTATCGAGCCCTGGT
GCTATGTGGCCCCGGAGCCACAGCACAATCATCTCAGTGGCGAAGCACACCACTTGATTCTATTTTTTTTTTAACA
CATTAAATCTGTTTTTAAAGAT

4857/5332
FIGURE 4220

CGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGTGCTCGGGGAGGTCCCCGCCGCCCGCCTCCCGGGAT
GTCCGCTCGCGCAGGACGCAGAAAGGGCAGTGGAGCCAGAAACAGCCAGAAAGGCCCTTTCAGAAATGTCTGTTGC
ACATGCTTTCCCTCTCAGACCCTTCAGAGACTTCCTGTTGCTCTGAGGACACTCATCCAGCCGACCAGGCCAC
CAGGCCCCAACAGCACTACCTGGCTGGGGTCACGTGCAGGTCTCCTGGCTCTGGCAGGTGGGAGAAGGAGAAGC
ACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCGTA TCGCACCCCATACGAGCCCCTTCCCG
ATGGAGTGC GTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTCGCCACTTTTTATG
GGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTTCAATGACTGGCGAAAGG

CGCGACTCGGGAGATGAGGAGAAAAGGAGATATTACGGCGGCAGATCCGCCTACTGCAGGGTCTGATTGATGACTA
CAAAACCCCTCCACGGCAATGCCCGGGCCCTGGTACCCAGCAGCTTCTGGGTGGCAGCCACCCACTTACCACAG
TGGCAGAGCCTTTAGTGCCCGCTACCCCTCGTCCAAGCCGGAGGGGCTACTCTTCCACCATTGGGCCTTCGTGGCG
CAAGAAATACTCCCTCGTGAATCGGCCCCCGGGACCCTCAGACCCTCCTGCCGACCATGCTGTGCGGCCGTTGCA
CGGGGGCCCGGGGGGCCAGCCTCCTGTCCCGCAGCAGCATGTCTTGAGAGACAGTCCAGCTCAGTCAGGGTCA
GAACGTGGTCATCAAAGTTAAACCGCCATCAAAGTCTGGCTCTGCCAGTGCCTCAGGGGGCCAGCGGGGCTCTTT
GGAAGAATATGAGGACACCCCTGGAGTGACCAAAGGCCCGGGAAGGTGAAGGTGAGCCCCCTCGGGGACAGCT
GCAGCCCTCGAGGCCAACAGAGCCAGGGGGACCTGCAGTGTGGAAGATCCTCTTCTGGTCTGCCAGAAGGAGCC
TGGTAAGCCCAGGATGGTGAAGTCAGTGGGCAGTGTGGGCGACAGCCCTGGGAGCCCCGCCGGACAGTCAGTGA
GAGCGTGATTGCCGTCAAAGGCGAGCTTCCCATCCTCCGCTCTGCCCCACGCACTGGCGTGGCCCTGGGCCGGAA
GCTGGGTTCTCATTTCCGTGGCCAGCTGTGCTCCACAGCTCCTTGGGGACAGGAGAGTAGATGCTGGCCACACAGA
TCAGCCAGTTCCGTCTGGCTCAGTGGGGGGTCCCGCCAGACCGGCCCTCAGGACCCAGGCAGGCCCGGGAGGCCCTC
GCTGGTTGTGACCTGTGAACTAACAAAGTTCGGAAAAACAACATAAAATGGGTGGCTGCCTCCTCGAAGAGTCC
CCGGGTTGCTCGGAGGGCCCTCAGTCCCAGAGTGGCTGCAGAGAAATGTGTGCAAGGCCTCTGCTGGCATGGCAAA
CAAGGTGGAGAAGCCGAGCTCATAGCTGACCCAGAGCCCAAGCCAGGAAGCCAGCCACGTCCTCCAAGCCAGG
GTGCCCCCAGCAAGTACAAGTGAAGGCCCTCAGCCCCCTGCCTCCTCCTCTCCTCTCCTTCCGTTGGCAGTC
GGAGGCCGCGCAGCAAGGACCATGCTCCTCCAGCTCTCCCAGTCTGCTTAGTCTCCCGTGGGGGACAGCCAGC
AGTAGGACACAGTGGCTTGAAAGCCCTCTCTGGGGAGACCCCGCTCTCGGCTTACAAAGTGAAGAGCCGACCCAA
GATCATCCGAGACGCGGCGAGCACAAGCCTTCTGGAGACAAGAAAGCGGCACCTCACCTGCCGCCACCGCCAA
GAGCCACCTCAGCCTCCGGCGGAGACAGGCCCTCAGGGGGAAGAGCAGCCCTGTCTGAAAGAAGACCCCCAACAA
GGGCTTGGTACAGGTACACCAGCACCGACTATGTGCGCTGCCACCGAGCCGGGGCCACCTCCCCACCAAGGAAGC
GTCCAGCCTGCATGCTGTGCGGACTGCACCCACCAGCAAGGTGATCAAGACCCGCTACCGCATTGTCAAGAAGAC
GCCGGCCTCGCCTCTCAGCGCCCCGCCCTTCCCCCTGTCTCTGCCCTCCTGGCGGGCCCGGCGGCTCTCACTATC
CAGGTCCCTGGTGCTGAACCGCCTGCGTCCAGTTGCCAGCGGGGGTGGGAAAGCCCAACCGGGCTCCCTTGGTG
GCGGAGCAAAGGCTACCGCTGCATCGGAGGGGTCTCTACAAAGTATCTGCCAACAAAGCTCTCCAAGACCTCCGG
CCAGCCAGTGATGCGGGCAGCAGGCCCTCCTGCGCACAGGCCGGCTGGATCCTGCAGGCAGCTGTAGCCGTTT
CCTGGCCAGCCGGGCAGTGCAGCGCAGCCTGGCCATCATCCGGCAGGCGCGGCAGCGCAGGGAGAAGAGGAAGGA
GTACTGCATGTACTACAACCGCTTCGGCAGGTGCAACCGTGGCGAGCGCTGCCCTACATCCACGATCCCGAGAA
GGTGGCCGTGTGCCACAGGTTTGTCCGGGGCAGCTGCAAGAAAACGGATGGGACCTGCCCTTCTCCACCATTGT
GTCCAAGGAGAAGATGCCGGTGTGCTCCTACTTCTGAAGGGCATCTGCAGCAACAGCAACTGTCCCTATAGCCA
CGTGTAAGTGTCCCAGAACGGCCGAGGTCTGCAGCGACTTCTCAAAGGCTACTGCCCTTGGGTGCAAGTGC
GAAGAAACACACGCTGCTGTGCCCCGACTTTGCCCGCAGGGGGGCGTGTCCCCGCGGCGCCAGTGCCAGCTGCT
CCACCGTACCCAGAAACGCCACAGTCGGCGGGCAGCCACGTCCCCCGCCCCAGGGGCCAGCGACGCAACCGCCAG
GAGCAGGGTCTCGGCCAGCCACGGGCCAGGAAGCCTTCAGCATCCCAGCGCCCCACCAGGCAGACGCCAGCTC
GGCTGCCCTCACTGCGGCTGCCGTGGCTGCACCTCCCCACTGCCAGGGGGGTGAGCCTCTCCCTCATCTCGAA
GGCTTCTCTCTCTCTCTCTCTCATCCCCCTCCCGTTTCTTGGACCACGAGGCACCATCTCTCCAGGAGGC
TGCTTAGCAGCAGCGTGCTCCAACAGGCTCTGCAAGCTGCCTTCTTTCATCTCCCTGCAGTCTCTGCCGAGCCC
AGGAGCCCAGCCAGGGTCCGGGGCCCTAGGGCCCCCTCACCAGGACTCAGGGAAGCCTCTGCACATCAAACC
ACGTCTGTGAGGACCCAGGGACCGGCCTGCACCTACCTCAGACCCTCATCTTGGAGAGGAAAGAGGCTCTGT
CACCCTCTACCCACAGGAGGCCCGCCGCCACCAAGCCTCAGCTGGGGGCCAGGAGACACTGCTCTGCTGCT
CTGGCCCTCAACCTTCCATGACCAGCGTGTGCGCAGGGCCTGGTCTTCTCCCCCAAGCCAGGCCCTGCCCCA
CCCCACCACTTCCAGGCTGCCAGGCAGGGCTGGCCCTCAGGCCCTGTCCCCGACTGCCATTGGCAACAGTGGCCC
TGCAGCCCCAGCCCTCCCCACCCAGGTTTTTCGGCCAGTGAAGAGGCCACTGGCCAGGCCTCCAGGCAGGTGT
TTTATGTTTCAGCAATAAAGGTTCTATCCGT

4859/5332
FIGURE 4222

GCGCACCCCGCCCCGGCGCCATCTTCCCGACCGCGAGCCGTCCAGGTCTCAGTGCTGTGCCCCCCCCAGAGCCT
AGAGGATGTTTTCATGGGATCCCAGCCACGCCGGGCATAGGAGCCCCCTGGGAACAAGCCGGAGCTGTATGAGGAAG
TGAAGTTGTACAAGAACGCCCGGGAGAGGGAGAAGTACGACAACATGGCAGAGCTGTTTGCGGTGGTGAAGACAA
TGCAAGCCCTGGAGAAGGCCTACATCAAGGACTGTGTCTCCCCCAGCGAGTACACTGCAGCCTGCTCCCGGCTCC
TGGTCCAATACAAAGCTGCCTTCAGGCAGGTCCAGGGCTCAGAAATCAGCTCTATTGACGAATTCTGCCGCAAGT
TCCGCCTGGAGCTGCCCGCTGGCCATGGAGCGGATCAAGGAGGACCGGCCCATCACCATCAAGGACGACAAGGGCA
ACCTCAACCGCTGCATCGCAGACGTGGTCTCGCTCTTCATCACGGTCATGGACAAGCTGCGTCTGGAGATCCGCG
CCATGGATGAGATCCAGCCCGACCTGCGAGAGCTGATGGAGACCATGCACCGCATGAGCCACCTCCCACCCGACT
TTGAGGGCCGCCAGACGGTCAGCCAGTGGCTGCAGACCCTGAGCGGCATGTCGGCGTCAGATGAGCTGGACGACT
CACAGGTGCGTCAGATGCTGTTCGACCTGGAGTCAGCCTACAACGCCTTCAACCGCTTCCTGCATGCCTGAGCCC
GGGGCACTAGCCCTTGACACAGAAGGGCAGAGTCTGAGGCGATGGCTCCTGGTCCCCCTGTCCGCCACACAGGCCGT
GGTCATCCACACAACCTCACTGTCTGCAGCTGCCTGTCTGGTGTCTGTCTTTGGTGTGAGAACTTTGGGGGCCGGG
CCCCCCCCACAATAAAGATGCTCTCCGACCTTC

4860/5332
FIGURE 4223

AGTCTGGCCCTGGACAACCCCAGCAAAGCCGCCCTCAGCCAGCCCAGAAGCACTGGGCCCTTGGCCACAGCAACAC
CCTAGTACGACGCTGGGAGCTGAGTATGGCGTCCCTGGTCTCGCTGGAGCTGGGGCTGCTTCTGGCTGTGCTGGT
GGTGACGGCGACGGCGTCCCCGCCTGCTGGTCTGCTGAGCCTGCTCACCTCTGGCCAGGGCGCTCTGGATCAAGA
GGCTCTGGGCGGCCTGTTAAATACGCTGGCGGACCGTGTGCACTGCGCCAACGGGGCCGTGTGGAAAGTGCCTGTC
TGTGGAGGACGCCCTGGGCCTGGGCGAGCCTGAGGGGTGAGGGCTGCCCCGGGGCCGGTCCTGGAGGCCAGGTA
CGTCGCCCCGCTCAGTGCCGCCGCCGTCTGTACCTCAGCAACCCCAGGGCACCTGTGAGGACGCTCGGGCTGG
CCTCTGGGCCTCTCATGCAGACCACCTCCTGGCCCTGCTCGAGAGCCCCAAGGCCCTGACCCCGGGCCTGAGCTG
GCTGCTGCAGAGGATGCAGGCCCGGGCTGCCGGCCAGACCCCCAAGATGGCCTGCGTAGATATCCCTCAGCTGCT
GGAGGAGGGCGGTGGGGGCGGGGCTCCGGGCAGTGTGGCGGCGTCTGGCTGCCCTGCTGGACCATGTGAGGAG
CGGGTCTTGCTTCCACGCCTTGCCGAGCCCTCAGTACTTCGTGGACTTTGTGTTCCAGCAGCACAGCAGCGAGGT
CCCTATGACGCTGGCCGAGCTGTGAGCCTTGATGCAGCGCCTGGGGGTGGGCAGGGAGGCCCCACAGTGACCACAG
TCATCGGCACAGGGGAGCCAGCAGCCGGGACCCTGTGCCCTCATCAGCTCCAGCAACAGCTCCAGTGTGTGGGA
CACGGTATGCCTGAGTGCCAGGGACGTGATGGCTGCATATGGACTGTGGAACAGGCTGGGGTGACCCCGGAGGC
CTGGGCCCCAACTGAGCCCTGCCCTGCTCCAACAGCAGCTGAGTGGAGCCTGCACCTCCCAGTCCAGGCCCCCGT
CCAGGACCAGCTCAGCCAGTCAGAGAGGTATCTGTACGGCTCCCTGGCCACGCTGCTCATCTGCTCTGCGCGGT
CTTTGGCCTCCTGCTGCTGACCTGCACTGGCTGCAGGGGGGTCACCCACTACATCCTGCAGACCTTCTGAGCCT
GGCAGTGGGTGCAGTCACTGGGGACGCTGTCTGCATCTGACGCCCAAGGTGCTGGGGCTGCATACACACAGCGA
AGAGGGCCTCAGCCACAGCCACCTGGCGCCCTCCTGGCTATGCTGGCCGGGCTCTACGCCTTCTTCTGTTTG
AGAACCTCTTCAATCTCCGGCAGCCCAGGGACCCGGAGGACCTGGAGGACGGGCCCTGCGGCCACAGCAGCCATA
GCCACGGGGGCCACAGCCACGGTGTGTCCCTGCAGCTGGCACCCAGCGAGCTCCGGCAGCCCAAGCCCCCCCACG
AGGGCTCCCGCGCAGACCTGGTGGCGGAGGAGAGCCCGGAGCTGCTGAACCTGAGCCCAGGAGACTGAGCCCAG
AGTTGAGGCTACTGCCCTATATGATCACTCTGGGCGACGCCGTGCACAACCTTCGCCGACGGGCTGGCCGTGGGCG
CCGCCTTCGCGTCTCTGGAAGACCGGGCTGGCCACCTCGCTGGCCGTGTTCTGCCACGAGTTGCCACACGAGC
TGGGGGACTTCGCCGCCTTGCTGCACGCGGGGCTGTCCGTGCGCCAAGCACTGCTGCTGAACCTGGCCTCCGCGC
TCACGGCCTTCGCTGGTCTCTACGTGGCACTCGCGGTTGGAGTCAGCGAGGAGAGCGAGGCCTGGATCCTGGCAG
TGGCCACCGGCCTGTTCTCTACGTAGCACTCTGCGACATGCTCCCGGCGATGTTGAAAGTACGGGACCCGCGGC
CCTGGCTCCTCTTCTGCTGCACAACGTGGGCCTGCTGGGCGGCTGGACCGTCTGCTGCTGCTGTCCCTGTACG
AGGATGACATCACCTTCTGATACCCTGCCCTAGTCCCCACCTTTGACTTAAGATCCACACCTCACAAACCTAC
AGCCCAGAAACCAGAAGCCCCTATAGAGGCCCCAGTCCCAACTCCAGTAAAGACACTCTTGTCTCTGG

4861/5332
FIGURE 4224

CCCCGGCACCCCAGGGCAGGTGCAGACCCGCGAGTGCATCGAGGCCGTGATCCGCTTCGCCTTCGAAGAGCGGCT
CTTCTGCTGGCGGACGAGGTGTACCAGGACAACGTGTACGCCGCGGGTTCGCAGTTCCTCATTTCAAGAAGGT
GCTCATGGAGATGGGGCCGCCCTACGCCGGGCAGCAGGAGCTTGCCTCCTTCCACTCCACCTCCAAGGGCTACAT
GGCGGAGTGCGGGTTCGCGGGCGGCTATGTGGAGGTGGTGAACATGGACGCTGCAGTGCAGCAGCAGATGCTGAA
GCTGATGAGTGTGCGGCTGTGCCCCGCCGGTGCCAGGACAGGCCCTGCTGGACCTGGTGGTCAGCCCGCCCGCGCC
CACCGACCCCTCCTTTGCGCAGTTCAGGCTGAGAAGCAGGCAGTGCTGGCAGAGCTGGCGGCCAAGGCCAAGCT
CACCGAGCAGGTCTTCAATGAGGCTCCTGGCATCAGCTGCAACCCAGTGACAGGGCGCCATGTACTCCTTCCCGCG
CGTGACAGCTGCCCCCGCGGGCGGTGGAGCGCGCTCAGGAGCTGGGCCTGGCCCCCGATATGTTCTTCTGCCTGCG
CCTCCTGGAGGAGACCGGCATCTGCGTGGTGCCAGGGAGCGGCTTTGGGCAGCGGGAAGGCACCTACCACTTCCG
GATGACCATTCTGCCCCCTTGGAGAACTGCGGCTGCTGCTGGAGAAGCTGAGCAGGTTCATGCCAAGTTCAC
CCTCGAGTACTCCTTGAGCACCCAGCTGGGGCCAGGCTGGGTGCGCCTGGACTGTGTGCTCAGGAGCCCTGGGAG
GCTCTGGAGCCCACTGTACTTGCTCTTGATGCCTGGCGGGGTGGGGTGGGGGGGTGCTGGGCCCTGCCTCTCT
GCAGGTCCCTAATAAAGCTGTGTGGCAGTCTG

4862/5332
FIGURE 4225A

ATGGAGCGGCTGCGGGACGTGCGGGAGCGGCTGCAGGCGTGGGAGCGCGCTTCCGACGGCAGCGCGGGCGGCGA
CCGAGCCAGGACGACGTGGAGGCGGCGCCGGAGGAGACCCGCGCGCTTACCGGGAATACCGCACTCTGAAGCGT
ACCACGGGCCCAGGCCGGCGGGGCTCCGCAGCTCCGAGTCGCTCCCCGCGCGGCGGCGAAGAGGCGCCAGAGCCC
CGCTGCTGGGGGCCCCATGTGAATCGGGCTGCGACCAAGAGTCCACAGTCTACGCCAGGGCGGAGCCGCCAGGGC
TCGGTGCCGGACTACGGGCAGCGGCTCAAGGCCAATCTGAAAGGCACCCCTGCAGGCCGGACCAGCCCTGGGCGGC
AGACCGTGGCCTCTAGGAAGAGCCTCATCTAAGGCATCCACCCCAAAGCCCCCAGGTACAGGGCCTGTCCCCCTC
TTTGCAGAAAAAGTCAGTGATGAGCCTCCACAGCTCCCTGAGCCCCAGCCAAGGCCAGGCCGGCTCCAGCATCTG
CAGGCATCCCTGAGCCAGCGGCTGGGCTCCCTAGATCCTGGCTGGTTACAGCGAIGTCACAGTGAGGTCCCAGAT
TTTCTGGGGGCCCCCAAAGCCTGCAGGCCTGATCTAGGCTCAGAGGAATCACAACCTTCTGATCCCTGGTGAGTCG
GCTGTCTTGGTCTGGTGCTGGCTCCCAGGGCCCAGAGGCTTCAGCCTTCCAAGAAGTCAGCATCCGTGTGGGG
AGCCCCCAGCCCAGCAGCAGTGGAGGCGAGAAGCGGAGATGGAACGAGGAGCCCTGGGAGAGCCCCGCACAGGTC
CAGCAGGAGAGCAGCCAAGCTGGACCCCCATCGGAGGGGGCTGGGGCTGTAGCAGTTGAGGAAGACCTCCAGGG
GAACCTGTACAGGCACAGCCACCTCAGCCCTGCAGCAGCCCATCGAACCCAGGTACCACGGACTCAGCCCCCTC
AGTCAAGCTAGGGCTGGGAAGGCTGAGGGCACAGCCCCCTGCACATCTCCCTCGGCTGGCCCGCATGACAGG
GGCAATTACGTACGGCTCAACATGAAGCAGAAACACTACGTGCGGGGCGGGCACTCCGTAGCAGGCTCCTCCGC
AAGCAGGCATGGAAGCAGAAGTGGCGGAAGAAAGGGGAGTGTGTTGGGGGTGGTGGTGCCACAGTCACAACCAAG
GAGTCTTGTGTTTCTGAACGAGCAGTTCGATCCTGAGGAGCCAGTGTCCCCGGCCAGCAAGTGAGGAAGACACA
GATGCTGTTGGGCTGAGCCACTGGTTCCTTCACCACAACCTGTACCTGAGGTGCCAGCCTGGACCCCAACCGTG
CTGCCACTCTACTCCCTGGGGCCCTCAGGGCAGTTGGCAGAGACGCCGGCTGAGGTGTTCCAGGCCCTGGAGCAG
CTGGGGCACCAAGCCTTTCGCCCTGGGCAGGAGCGTGCAGTTCATGCGGATCCTGTCTGGCATCTCCACGTGCTG
GTGCTGCCTACAGGTGCCGGCAAGTCCCTGTGCTACCAGCTCCCAGCGTGTCTACAGCCGGCGCAGCCCTGC
CTCACGTTGGTCTGTCTCTCCCTGTGTCTACTCATGGATGACCAGGTGTCTGGCCTGCCACCGTGTCTCAAGGCG
GCCTGCATACACTCGGGCATGACCAGGAAGCAACGGGAATCTGTCTGCAGAAGATTGCGGCAGCCCAGGTACAC
GTGCTGATGCTGACACCTGAGGCACTGGTGGGGGCGGGAGGCCTCCCTCCAGCCGCACAGCTGCCTCCAGTTGCT
TTTGCCTGCATTGATGAGGCCCACTGCCTCTCCAGTGGTCCCACTTCCGGCCCTGCTACCTGCGCGTCTGC
AAGGTGCTTCGGGAGCGCATGGGCGTGCACTGCTTCTGGGCTCACAGCCACAGCCACAGCCGCACTGCCAGT
GACGTGGCACAGCACCTGGCTGTGGCTGAAGAGCCTGACCTCCACGGGCCAGCCCCAGTTCCACCAACCTGCAC
CTTTCGCTGTCCATGGACAGGGACACAGACCAGGCACTGTTGACGCTGCTGCAAGGCAAACGTTTTCAAAACCTC
GATTCCATTATCATTTACTGCAACCGGCGCGAGGACACAGAGCGGATCGCTGCGCTCCTCCGAACCTGCCTGCAC
GCAGCCTGGGTCCAGGGTCTGGAGGTGCTGCCCCAAAACCACAGCCGAGGCCTACCACGCGGGCATGTGCAGC
CGGGAACGGCGGCGGGTACAGCGAGCCTTCATGCAGGGCCAGTTGCGGGGTGGTGGTGCCACGGTGGCCTTTGG
GATGGGGCTGGACCGGCCAGATGTGCGGGCTGTGCTGCATCTGGGGCTGCCCCAAGCTTCGAGAGCTACGTGCA
GGCCGTGGGCGGGGCGGGCTGAGCGGGCAGCCTGCCACTGCCACCTCTTCTGCGAGCCCCAGGGCGAAGACCT
GCGAGAGCTGCGCAGACATGTGCACGCCGACAGCACGGACTTCCTGGCTGTGAAGAGGCTGGTACAGCGCGTGT
CCCAGCCTGCACCTGCACCTGCACCAGGCCGCCCTCGGAGCAGGAAGGGGCCGTGGGTGGGAGAGGCCTGTGCC
CAAGTACCCCCCTCAAGAGGCTGAGCAGCTTAGCCACCAAGCAGCCCCAGGACCCAGAAGGGTCTGCATGGGCCA
TGAGCGGGCACTCCCAATACAGCTTACCGTACAGGCTTTGGACATGCCGAGGAGGCCATCGAGACTTTGCTGTG
CTACCTGGAGCTGCACCCACACCACTGGCTGGAGCTGCTGGCGACCACCTATACCCATTGCCGTCTGAACTGCC
TGGGGGCCCTGCCAGCTCCAGGCCCTGGCCCCACAGGTGTCCCCCTTTGGCTGTGTGCTTGGCCCAGCAGCTGCC
TGAGGACCCAGGGCAAGGCAGCAGCTCCGTGGAGTTTGACATGGTCAAGCTGGTGGACTCCATGGGCTGGGAGCT
GGCCTCTGTGCGGCGGGCTCTCTGCCAGCTGCAGTGGGACCACGAGCCCAGGACAGGTGTGCGGCGTGGGACAGG
GGTGTCTGTGGAGTTCACTGAGCTGGCCTTCCACCTTCGAGCCCGGGGACTTGACCGCTGAGGAGAAGGACCA
GATATGTGACTTCTCTATGGCCGTGTGCAGGCCCGGAGCGCCAGGCCCTGGCCCGTCTGCGCAGAACCTTCCA
GGCCTTTTACAGCGTAGCCTTCCCCAGCTGCGGGCCCTGCCTGGAGCAGCAGGATGAGGAGCGCAGCACCAGGCT
CAAGGACCTGCTCGGCCGCTACTTTGAGGAAGAGGAAGGGCAGGAGCCGGGAGGCATGGAGGACGCACAGGGCCC
CGAGCCAGGGCAGGCCAGACTCCAGGATTGGGAGGACCAGGTCGGCTGCGACATCCGCCAGTTCTGTCCCTGAG
GCCAGAGGAGAAGTTCTCCAGCAGGGCTGTGGCCCGCATCTTCCACGGCATCGGAAGCCCCCTGCTACCCGGCCCCA
GGTGTACGGGCAGGACCGACGCTTCTGGAGAAAATACCTGCACCTGAGCTTCCATGCCCTGGTGGGCTGGCCAC

4863/5332
FIGURE 4225B

GGAAGAGCTCCTGCAGGTGGCCCGCTGA

4864/5332
FIGURE 4226A

CGGGGCTGGAGGCGGTGGCTGCGGTTGCGGGACCGGCACTATGCTGGGCCTTCCTACCACCTTGTTGTGTGGCTTGG
TAGTGGCCTAGGGTCTCTCTCCCTGCTGAAGTCCCTCTCTCTGAGGTGGCCGTCTGCCCGGCCAGCACCATGC
ACACGCTTGTTGTTCTTGAGCACACGGCAGGTGCTGCAGTGCCAGCCAGCTGCCTGCCAGGCCCTGCCCTTGCTGC
CACGCGAACTCTTCCCCCTGCTGTTCAAGGTGGCCTTCATGGACAAGAAGACAGTGGTACTGCGCGAGTTGGTAC
ACACGTGGCCCTTCCCCTGCTCAGTTTCCAGCAGCTGCTACAGGAGTGTGCCACTGCAGCCGTGCCCTCCTGC
AGGAGCGGCCTAGCACTGAGAGCATGCAGGCTGTTATCCTGGGGCTGACTGCCCGGCTCCACACCTCAGAGCCTG
GGGCCAGCACACAGCCCCTCTGCAGGAAGCATGCGCTGCGGGTGTGGACATGACGGGCCCTCTGGATGATGGTG
TGGAACAGGATCCTGGCACCATGAGCATGTGGGACTGTACTGCTGCCGTAGCTCGCACATGCATTGCCAGCAGC
AGGGTGGGGCCGAGAGCCTGGGCCAGCCCCATCCCCGTGGAGGTGCGCGTGGACCTGCGGGTGAACCGGGCCT
CCTATGCGTTCTCTGCGGGAGGCACTCCGAAGCAGCGTGGGCAGCCCGTGGCGCTCTGCTGCCGGGACCTGCGAG
CTGAGGACCTGCCCATGCGCAACACTGTGGCCCTGCTGCAGCTTCTGGATGCAGGCTGCCTGCGCCGCGTGGACC
TGCGCTTCAACAATCTGGGCTGCGCGGCTGTCTGTGATCATCCACACGTGGCCGCTTCCAGCACCTGGCCA
GCGTGGGCTCCACTATGTGCTGCGGATTCAAGGCAGCCCTCCGTGGATGGCGAGGACAACCTCCGCTACTTCC
TTGCCAGATGGGCGCTTACCTGTCTGCGTGAGCTCAGCATGGGCTCCTCTCTCTTTCAGGGAGGCTGGACC
AGCTGCTCAGCACCCCTGCAGAGCCCCCTGGAGAGCCTGGAGTTGGCCTTCTGTGCTCTGCTGCGCTGAGGACCTAC
GCTTCTGGCACGGAGCCACATGCTGCCACCTCAAGAAGTTGGACCTGAGTGGTAACGACCTGTCTGGCAGCC
AGCTGGCACCCCTTCCAGGGTCTGTTGACAGCATCAGCAGCCACACTGTTGCATCTGGAGCTGACTGAGTGTGAGC
TCGCAGACACCCAGCTGTTGGCCACACTACCCATCCTGACTCAGTGCGCCAGTCTCCGGTACCTTGGCCTCTATG
GCAACCCACTGTCCATGGCGGGCCTCAAGGAGCTGCTGCGGGACTCAGTGGCACAGGCTGAGCTGCGTACTGTGG
TGCACCCCTTCCCTGTGGACTGCTATGAGGGCTTGCCCTGGCCGCCGCTGCTCTGTCTGCTGGAGGCCTCCA
TCAATGAGGAGAAGTTTGGCCGCTAGAAGCTGAGTTGCACCAGCTGCTTCTAGCCTCAGGCCGTGCCATGTGC
TCTGGACCACGGACATCTACGGGCGACTGGCTGCGGACTACTTCAGCCTATGATGAAGTAGCTCTGGGTGAGACA
CAGGCCGCCCTGCAGTCTCTTTAGGTAGGCAGGGCCTTTGCTGGGACCCCTGGTGGAGGCCTTCAAAAAGCACT
GGTTACTGGTTTCTGCTGGGTCTACCTTGCTTCTGGGCACACCTCAAGCCTCCCTGCTTTCTGCAGTGCCCCA
CGCGGTTTTCCCTGCATTGCTCCATAATTGGCTGATCATCTGTGGGCCCCGGGGCTGGATGTCAGGCCTCCATT
GCCCTGCTCAGTTTGGCTGCATTGGCTGCCGTCTGGGGTCTGGTCTTTGTGCAAATGCTTTGGGATTCCAGT
TGTGAGCTGAGAGAGATGATGGCCTCTCTGGCCTTCTCTCCCTTTACTGAGAGCTCAGTGCTTCTGGGGTTG
AAGTTGGACAGAGGCCTGCTTCAAGGAAGCTGGGAGTCCCCAGGCACTCACGCCTTTACGTGTTCCCTACCCTG
CCACCCAGCCACCCCACTGGGCTGGGCTCGGGCTGGAGGGGGTCACTAAGGTACACATGTGCCTGGAAGTTGAAT
TTGTGGCTGTTTTTTTTTCTGTCCACGTTGGTACCCTTATCCTTATCTCTGCTGTACCCCCAACATGGCCACC
CGGCAACAACCTGCCATCCAGCCTGTGCCCCGCCCTTCGCGGGGAGCCCGTGGCACTGCCGGCCAGTCCCTG
CTTTCCACCTTTTCGGAGGCCCAAGATCTACTGTGGCCGGCCAGGGCCAGCGAGGGACCCCCCATGCAGAG
CTGGAGGTTGGGGTGATGTCTTTTCGGAAGAGCTTCAAGGGAGGTGTTGGGGCCTCCCCGGCCACCTTCCATTGC
TACCCCAAGGATTCCCGAGTGCAACGTTCCCGCTCGCGCCCCACACACGGCTCAGCGCACACTGCGCGGCTTCCA
CCTTTACTGACGGAGCATGCGCGAGGCCGCACCGGCCAATCTCCGGCGCCACGTCATCCGCGCGCCCGCGGGCC
TAGCAGTGGAATCTCGTAGGCGACCGCGGGGGCACGCGGAGTCCCGGCCCGCCCCCTGTTCCGGGGCCGAGTCA
GCGGGCGCCTCCGCGGACCCCTCGGCGAAGAGCGGCTTGAGCGGTTGATGACGAACATCTCGTGGCCGCGCTCG
TCGCGGAGCTCCTCTAGCTGTGCGAACGTACAGGGGCCGTCCAAGTAGTCGTTGACGAACAGCGCTCCCTCCCC
GGAGGCCCCCGCGCCTTTTTTCGCTGCGGCGCGGCGACAGATCATGGCGACCAGGAGCAGCGCCGTGAGCGCC
AGCAGCGCGATGGCCGCGCAATGGCCGTCTGTGTGGCCACGCCAGGGCGCGGAAGGCCATGCTGCCCGCCTCG
GGCCGGGGCTCGCTGCCGCGGGGCGGGCGGGCGAGGCGGCGGTTGCGCGGGCTGCTGCGGCTGCTGCCGGGAC
GCGTTGACCAGGAGCCGGAAGGGCACGCGGGCAGCGCCGCGGCGGCTTGAGGGCTCGCACTCGTACTTACCGGG
TGCGCCAGCGTGATGTTGCTGAGGAAGAGCATGCCGTGCCCGTGTGCGATGCCAGTGTCCGCCCAGGCCCCAGC
AACCCGCTTCTAGCTGGGCTGGGCTCGCGGCCGGCCCTCGCGAGGCTGGGGCACCTTCTCCAGGTACCAAT
GGCTGCGGGTAGCCGAGGCTTGGCAGGCAACCCGAGGTCTCACCAGGTTGGCTGTGAGCTCCAGCGGCTGC
ACGTGGACAGAGGGCGAATGCAGATGAGGCTGCTGTGGGATACGTCCAGGAGACTCTGGAGCGCCAGGCGCGG
GGCTCTGCACACATGATCTTCTGTCCCTGGAGGTGAGCAGCCGCTGGCCGCCCTCCTTGATCCAGGCACCCAGC
CAGTGCAGGGCGCAGTCACAGCGCCATGGGTTCTCTGTGGGAGAGCAGCGTTAGGCAGGTGGCTTGAGGGTGTG

4865/5332
FIGURE 4226B

CTAAAACAGCCTGTGCAGTTGGGGTTTTGCAGGCCAGGACAGAGGCCCTCTTTCCACCTCCCACAGCGTTTTAC
ACGGAGTCCAAGGCCCTGCCACCCCTTCCTTGACCCCAAGCTCCTTGGGGCGGCAGGCCCTTCACCCTCNGCCCC
CCTCCCCTTTAGCTCTGTGATGCCTGCCTGTTACAGATCACTTCTCCGTCGGTCTCTGAGAAAGCACCTGCTCCT
TAAGTCTTCCTGCAACAAGTGCCACTGTTTTTAGGAACCTGGGCGTCCACATAGACATCTCACCAGCACTGAAAC
CTCACAAGTCCTCTCAGCCTTGCCCTTTGGATGCCCTCTCTTGGAATGTCCCCAGTCCTGGTCAGCTGTCTCTCT
CCTTTGCAATTTTGTCTGCCTCCCCCTCAGCCTAAAAGTGTGCAGAACCTCAATTCTGTTAAGTCACCCTGTGGA
GTTCTGTCTTCTGTTTTCCCCAGGCAGGGTGCCTGAGCTGTATTCCCCAGCACACCCACTCCCGCAGCCCTCCA
GTGTGGCTGCAGGCGGTGGTGCAGCCTTCCAGACTGTGCCAGTGCCTGATGTGAGAGCCCTCCACACATGA
GCCTGCTCCCTACTGCCAACACCGTGGCCCAGACAGAGACGCTTTCGAGGAAGAGGTACCTGTGAGGCGCAGGA
CTTGACAGACTGGCCAGGGGCTGCAGGGCCTCTCGGCTGATGGTGCCAGCTGGTTCTGTGAGGTCCAGCAGTG
CTAGGGAGGACAGCCCCGCTAGAGCCTGGTCTCCAGCAGCTCAATGCTGTTTTCTTGACAGGTGAAGCTCCTGCA
GTCGCTGAAGTAAGGACAGCAGATCGTGAGGAAAAAGGGCGCCGAGGTTGGGGGCATGTCTCTTCTTACCAAG
CTAGACTGGGTGCTTTTCTAACTATTCCAGCCCTACAGGGCGAGGGGCCATAATGGAGTATCCCGCCCCCTTA
GACCCAGGCGCTCACCAGGAGGTGCAAGAAGGTGAAATCCAGCAGCCGCGCCAGCTGGTTGCCCGCCAGGTAGA
GCACGCGCAGCTGGGCCAGGCCTACGAAGGCGCCGCTGCGCAAGCCGCGCAGCCGTTGCTAGTGAGCGCCAGCT
CCAGCAGGCGCGGCTGCGCGCGGAAGGCGCCGCTCCAGGGCGCGCAGGCTGTTGTTGTGAGGTAGAGCCGGC
GCAGAGCGGCGAGTGGCGCCAGGGCTCCCGGCTCTAGGCGGGCGATGTTGTTGTCTGAGGAACAGTGTCTGCA
GGCCGGGGAAAGAGGAGGCGCTTACCCCGTTGCGGGGCTTCTCTCTCCCTGGGGGCACCCCGTCTCCCGCAGC
TCCACACGGTGCCACCTGCGTCCCTGGCGGGATTCCAGCGGGACGACGCGCAACCGCAGGGCGCCACACTCCA
CCGTGGCGCTGTAGCAGCGGCAGGCTGCTGGGCAGCCGGCGGCGCGGAGCGGCAGTAGTAGCAGCAGCAGCGGCA
GCAGTGCGGGGGCCCTCAGGGCCATCTCCCGAGGCCCCGTTCTCACCAGGCCCTTCCGCGGTTACGCCGAGACG
CGTGCCCTCCTGAAACACAGGTTGGCAGGCCAGTCTCGGCAGTCGAGAGCCAGCCAATAGATGGAATGGAGGCCCT
GCACCTGCGTCTAACTTTTGACGCTATAAATAGGTTCAAGAACTAATAAAACGTTCTGGTTTTCTCCTTTGAC

4866/5332
FIGURE 4227

GCCCCGAGGCCCGAGGGAGAGGGAAGAGCGCCGGGCCCGGGTCGCGGAGGCGGGCGCCGCGGAACGCGAAGCG
CGGGGCTACTGCGGGCAGGCGCGAGTTTCGCGCAGCACCGCCCCCGGCGTGACCTGCTGGTCGCTTCCGGCGCGGG
AGGAGAATGTGGCCGCTTTCGCGGACGCTCCGGACCCTGGCCTTGCGCGGGTCGCGGGGAGCCCGGGCCTGCAGC
GGGGATGGGGGCGTTTCTACACGCAGGGCCAGAGTCCGGAGCCGCGGACCCGCGAGTATTTCTACTACGTGGAC
CACCAGGGCCAGCTTTTCTGGATGATTCCAAAATGAAGAATTTTCATCACCTGCTTCAAAGACCCGCAGTTCCTG
GTCACCTTCTTCTCCCGCTGAGACCCAACCGCAGCGGGCGCTACGAGGCGCTTTCCTTCTCGCCCTGC
GGCAGAGAGCGCAACTTCCTGCGCTGCGAGGACCGGCCGGTGGTCTTACGCACCTGCTGACCGCGGACCACGGG
CCTCCGCGCCTCTCCTACTGCGGCGGTGGCGAGGCCCTGGCCGTGCCCTTCGAGCCGGCGCGCCTGCTGCCCTG
GCCGCCAACGGGCGCCTGTACCACCGGCGCCGGAGCGTGCGGGCGCGTGGGCCTGGTGCGCTCCGCCCTGGCC
TTCGAGCTCAGCGCCTGCTTCGAGTACGGGCCCCGGCGCGCCTGCGCTGCCCTCGCACGTGCGCTGGCAGGGCCGC
CGCCTCGCCCTACCATGGACCTGGCCCCGCTGCTGCTCGCGGCTCGGTGCGCCCTGAGCGGGGCCAAGGGAAAGG
CGGGAGGCCGCGGGCGCCTCTCGCCCCGCTCCCCGGGACTCCACGCCCGGAAAGCCCGCGCCACCCGCGCTCG
CGGCAGCCTAGTGCGCCTGCGCGCTCGG

4867/5332
FIGURE 4228

CTCCTGCGCACGCGGCCCGGTGCTGTCGGAAGCGGCTGTGCGGGTGGCGGCCGGCGCGCGGTGGGGCATGGCGG
GTTGCGGGGGTGGCGGGGCGCACGGCGGGCGCCGAGCGTGGCGGCCGGAGAAGCGGCGGTCTGAGCCCCGAAGTGGAGC
CTGAGCCCCGAGCCGGAGCCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCT
CCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCG
ACGAGGAGGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGC
AGGCCAGCACTCCTTGCCCCGAGGACAGAGATGGCGAGCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTG
ATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCCCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACG
ACCTGGATGGCAGGCGCATCTACAAGCCCCTGCGGACCCGGGATGAGCTGGACCAGTTCTGGACAAGATGGACG
ATCCTGACTACTGGCGCACCGTGCAGGACCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCC
TGGTGCGGCGGCTGCAGAGTGGCCAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTGCACTTCTTCA
GCGGGGACGTGATGATCCACCCGGTGACCAACCGCCCGGCCGACAAGCGCAGCTTCATCCCCCTCCCTGGTGGAGA
AGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCCCACC
CCAGCTTCTATGACCTGTGGGCCCAGGAGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTC
CCAAGCTGGCCCTGCCAGGCCACGCCGAGTCTGTAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCT
TGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGCTGAGCTTTTGCCACGCAAGTTCCCGAGCCTGCGGGCGG
TGCCCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCCCCACGGCAGCGCA
AGATGAGGGTGAATGTAGACCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGACCTGCAGCCCTTCCCCA
CGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCGGTGCCTCAGTGTCTCTCCTGGGGGCCAGTGGC
TGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCG
TGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACT
CGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCGGCTGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCG
TCCCGCTGAGGAGCCCCCCTTGACGCCGGCCCGCTGGCTGGAGGCCTCAGAGGAGGAGCGCCAAGTGGGCCTGC
GGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGGTGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGC
TGGCCACCCAAGGCCACACCCAGGTGCTGATTACACAGCTGAGCCGTGCGCGCAGCCAGAGTCCGTTCCGCCGCA
GCCACGGACAGGTGCAGCGAGTGGCCTTCCACCTGCCCGGCCCTTCTGTGGTGGCGTCCCAGCGCAGCGTCC
GCCTCTACACCTGCTGCGCCAGGAGCTCACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGG
TGCACCTGCGAGGTGACAACGTCATCTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCA
CCAAGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCT
TTGCGTCAGGCTCGGACGACGGCAGTGTATCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCT
TGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGACGTCATCTTCCACC
CCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACGGGACTGTCCGCCTTTCACCTAGCTGTTCTGCCTGCCTG
GGGCTGGGGTGGTGTGCTGAAGTCAACAGAGCCTTTACCCTGTGCTGCCTGGTGTCCACCTTCTTGAATTGG
GGTTGCCAACAAAGCCGCCCCACCACA

4868/5332
FIGURE 4229

GCCCGTTGCAAGATGGCGGCGGCCATGCTGGGCCCCGGGGCTGTGTGTGCGCAGCGGGCGGGCGGGCGGGCCCCGGA
AGGCTGGCGCGGCGACGGCGTTAGCCCGGCCCTCGGCCCCCTCTTTGCGGCCGCTCCCTCCGCTATTCCCTCCTT
GCTCGAGATGGATCTGCCCCTGGGCCCCGGCGCGGGGGGCCAGCAACGTCCCGGCTTCCTGACCAAGCTGTG
GACCCCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCCCGAGCGGGAACAGCTTCCACGTGTTGGA
CCAGGGCCAGTTTGCCAAGGAGGTGCTGCCCAAGTACTTCAAGCACAAACATGGCCAGCTTCGTGCGGCAGCT
CAACATGTATGGCTTCCGGAAAGTGGTCCACATCGAGCAGGGCGGCCCTGGTCAAGCCAGAGAGAGACGACACGGA
GTTCCAGCACCCATGCTTCCCTGCGTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAGGAAAGTGACCAGTGTGTC
CACCCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTGCTGACGGACGTGCAGCTGATGAA
GGGGAAGCAGGAGTGCATGGACTCCAAGCTCCTGGCCATGAAGCATGAGAATGAGGCTCTGTGGCGGGAGGTGGC
CAGCCTTCGGCAGAAGCATGCCAGCAACAGAAAGTCGTCAACAAGCTCATTAGTTTCTGATCTCACTGGTGCA
GTCAAACCGGATCCTGGGGGTGAAGAGAAAGATCCCCCTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCC
CAAGTATAGCCGGCAGTTCTCCCTGGAGCAGTCCACGGCTCGGGCCCCCTACTCGGCCCCCTCCCCAGCCTACAG
CAGCTCCAGCCTCTACGCCCTGATGCTGTGGCCAGCTCTGGACCATCATCTCCGACATCACCAGAGCTGGCTCC
TGCCAGCCCCATGGCTTCCCCCGGGGAGCAGATAGACGAGAGGGCCCTATCCAGCAGCCCCCTGGTGCCTGTCAA
GGAGGAGCCCCCAGCCCGCCTCAGAGCCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCCATCTTCCGTGGACAC
CCTCTTGTCCCCGACCGCCCTCATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCCTCCGTACAGCCCT
CACGGACGCCAGGGGCCACACGGACACCGAGGGCCGGCTTCCTTCCCCCGCCACCTCCACCCATGAAAAGTG
CTTCAGGGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCATTGGATGCTATGGACTCCAACCTGGATAACCT
GCAGACCATGCTGAGCAGCCACGGCTTCAGCGTGGACACCAAGTGCCTGCTGGACCTGTTTACGCCCTCGGTGAC
CGTGCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGTCTCCCCAGGAGCC
CCCCAGGCCTCCCGAGGCAGAGAACAGCAGCCCGGATTAGGGAAGCAGCTGGTGCACTACACAGCGCAGCCGCT
GTTCTGCTGGACCCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTGCTGTTTGAAGCTGGGAGAGGGCTC
CTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCCTGCTGACAGGCTCGGAGCCTCCCAAAGC
CAAGGACCCCACTGTCTCTTAGAGGCCCGGAGGAGCTGGGCCAGCCGCCACCCCCACCCCACTGCAGGGCTG
GTCTTGGGGAGGCAGGGCAGCCTCGCGGTCTTGGGCACTGGTGGGTGCGCCGCCATAGCCCCAGTAGGACAAACG
GGCTCGGGTCTGGGCAGCACCTCTGGTCAGGAGGGTACCCCTGGCCTGCCAGTCTGCCTTCCCCAACCCGTGT
CCTGTGGTTTGGTTGGGGCTTCACAGCCACACCTGGACTGACCCTGCAGGTTGTTTATAGTCAGAATTGATTTT
GGATTTTACACAACCTGTCCCCTTCCCCGCTCCACAGAGATACACAGATATATACACACAGTGGATGGACGGACA
AGACAGGCAGAGATCTATAACAGACAGGCTCT

4869/5332
FIGURE 4230

GTCCCTGGGCGGACGGCGGTGTCCCGGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGGGCGCGGGAC
CGGGAGGGCGCAGGGACCGGACGGCTCCCGAGTCGCCCCACCTGACGCTAGAAGAAGTCTTCACTTCCCAGGAGAGC
CAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCCCAGCCTTGG
GCTGAATGGCAGCACCCACGCCCGCCCGTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGCATGGGCTCCT
GGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGAGCCTCCCT
CTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCCTCTGGAGGAGGCTGGCCCCAG
GAAAGGACGAGCAGGTCCCCATCCGGGTGGTGAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGGCCTCTCTGT
GGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTGTGCTGGCACTGG
CATGCTGTGCCTCGAATGTCACTTTCCTGCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGTCATTCTTCC
TGGGTCAAGGCCTGAGTGCCCTGCTGCCCTGCGTGCTGGCCCTAGTGCAGGGTGTGGGCCGCTCGAGTGCCCGC
CAGCCCCCATCAACGGCACCCCTGGCCCCCGCTGGACTTCTTGAGCGTTTTCCCGCCAGCACCTTCTTCTGGG
CACTGACTGCCCTTCTGGTCGCTTACGTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTG
TACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAGAGTCTCAC
CACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCAACCCCTGGTCCAGACCCTAAGGCCTATCAGCTTCTATCAG
CCCGCAGTGCCTGCCTGCTGGGCCTGTGGCCGCAACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGA
GCTTTTCTGCTTACCCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGG
CCTGCTTCTGCCATGGGTGTGCTGTGCAGGTCCCTTGGCAGGGCTGGGCGGCCTCTCTGCTGGGCGTGTCT
GTGGGGGCTACCTGATGGCGCTGGCAGTCCCTGAGCCCCCTGCCCGCCCTGGTGGGCACCTCGGCGGGGGTGGTCC
TCGTGGTGCTGTGCTGGGTGCTGTGCTTGGCGTGTCTCTACGTGAAGGTGGCAGCCAGCTCCCTGCTGCATG
GCGGGGGCCGGCCGGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTGTTGCTATGT
TCCCCCGACCAGCATCTATCACGTGTCCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCCTGAGCCTGGG
CAGGTGGGGACCCGCTCCCCAACACCTGTCTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTGCAGCCCAGG
AGGCCCCACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTCCAGGGTGGGCAAGGG
CAAGGAGCAGGCTTGAGCCAGGGACCAGTGGGGGCTGTAGGGTAAGCCCCTGAGCCTGGGACCTACATGTGGTT
TGCGTAATAAAACATTTGTATTT

4870/5332
FIGURE 4231

GCTTCCCCGAGCGCCGTCGGTGGTCAATGGCTGCCCCAGCCTCCCGGCAGGTCCGACGCAGAGCCCCGGGCAGCGCC
GCGGCCCCGCTCGGCCGAGGATTGGTGGTGGGACCGGCTGGCGCCGAGGGGCTCGGGGTACCACCTGCTGCAGTC
CGACAGCATGCTGCTGGTGTGTCCGAACCAGGCCCCCGCCGGCCCCGCGCACAGCGGCGCGATTCCCGCCGCAC
TCCCCGGCAGCCGCCCGGGGCCCCAGCGCCGCGGCCAAGCCCAAGGCCGGGCTCAGGTCCGAGGCGGCGGCCGC
GCCCCGACCCGCACCGGCACCCACGCCACGCCGAGGAAGGGCCCCGACGCGGGCTGGGGAGACCGCATTCCCTT
GGAAATCCTGGTGCAGATTTTCGGGTTGTTGGTGGCGGCGGACGGCCCCATGCCCTTCCTGGGCAGGGCTGCGCG
CGTGTGCCGCCGCTGGCAGGAGGCCGCTTCCCAACCCGCGCTCTGGCACACCGTGACCCTGTCGTCCCCGCTGGT
CGGCCGGCCTGCCAAGGGCGGGGTCAAGGCGGAGAAGAAGCTCCTTGCTTCCCTGGAGTGGCTTATGCCCAATCG
GTTTTACAGCTCCAGAGGCTGACCCTCATCCACTGGAAGTCTCAGCTGGTAGGTGAGTGCTGTCCTCGGCTCAC
TTTCCTCAAGCTCTCCGGCTGCCACGGTGTGACTGCTGACGCTCTGGTCATGCTAGCCAAAGCCTGCTGCCAGCT
CCATAGCCTGGACCTACAGCACTCCATGGTGGAGTCCACAGCTGTGGTGAGCTTCTTGGAGGAGGCAGGGTCCCG
AATGCGCAAGTTGTGGCTGACCTACAGCTCCAGACGACAGCCATCCTGGGCGCACIGCTGGGCAGCTGCTGCCC
CCAGCTCCAGGTCTGGAGGTGAGCACCGGCATCAACCCTAATAGCATTCCCTTCAGCTGCCTGTCGAGGCTCT
GCAGAAAGGCTGCCCTCAGCTCCAGGTGCTGCGGCTGTTGAACCTGATGTGGCTGCCAAGCCTCCGGGACGAGG
GGTGGCTCCCGGACCAGGCTTCCCTAGCCTAGAGGAGCTCTGCCCTGGCGAGCTCAACCTGCAACTTTGTGAGCAA
CGAGGTCTGGGCCGCTTACTCCACGGCTCTCCCAACCTGCGCTTACTGGATCTTCGTGGCTGTGCGCGCATCAC
GCCGGCTGGCCTTCAGGATCTGCCATGTGCGGAGCTGGAGCAGCTTCATCTGGGCCTGTATGGCAGCTCAGACCG
GCTGACTCTAGCCAAGGAGGGCAGCCCCTTTTTGACCCAGAAGTGGTGCCATACACTGCGAGAAGTGGACTTGAG
TGGCCAGGGGTTTCAAGTGAAGAAGGACCTGGAGCAGGCCCTGGCTGCCTTCTTAAGCACCCTGGGGGCTCACACCC
AGCCCTGTGCTCTCTTAACCTCAGGGGCACCCGGGTACACCAAGCACTGTGAGCTCTGTGATCAGCAGCTGCCC
GGGCTGCTTTACCTCAACCTGGAGTCTGCGGCTGCCTTCCCCGGGGTTTGAAGCGGGCTACCGGGGCTGGA
GGAAGTCCAGTGGTGTCTGGAGCAGGTGCTCACCAGCCCCTACCCAGCTTAGGCAGCCACAGACCTGGGACACCT
CAGCCAGCTTGCCACCCTCCACCTTTGCCCAATTTAGATATTTGAGCATTGTGTTAAATAAAACATTTTATAG
G

4871/5332
FIGURE 4232

GAAGCTCTGGGAAGGGGATGCCCCGAGGGTGCCAGTCCAGCTAGCTGCCCCACCCCTCAGGCCCAGCCTGGCCC
CCAAGCTCCCCACTCTGGTGCCCCGAGCAGCCCTGTGGGCAAGCAGCCGCCGCGCCATGGCCGAGCACCTGGAGCTG
CTGGCAGAGATGCCCATGGTGGGCAGGATGAGCACACAGGAGCGGCTGAAGCATGCCCAGAAGCGGCGCGCCCAG
CAGGTGAAGATGTGGGCCCAGGCTGAGAAGGAGGCCCAGGGCAAGAAGGGTCTCTGGGGAGCGTCCCCGGAAGGAG
GCAGCCAGCCAAGGGCTCCTGAAGCAGGTCTCTTCCCTCCCAGTGTGTCTCTTGGAGGCGCTGCCCCGAAAT
GACCTGGAAGAAGTCCGCCAGTTCCTTGGGAGTGGGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCC
CTGCACCACTGCTGCATTGATGATTTCCGAGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCC
TGTGACAGTGAGTGTGGACGCCTCTGCATGCTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGCTGCTCATC
GCCAGTGGCGCCAATCTCCTGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACG
CTGGACTGCCTGGAGACTGCCATGGCCGACCGTGGCATCACCCAGGACAGCATCGAGGCCGCCCGGGCCGTGCCA
GAACTGCGCATGCTGGACGACATCCGGAGCCGGCTGCAGGCCGGGGCAGACCTCCATGCCCCCTGGACCACGGG
GCCACGCTGCTGCACGTCGCAGCCGCCAACGGGTTACGCGAGGCGGCTGCCCTGCTGCTGGAACACCGAGCCAGC
CTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCCTACTGGGGCCAGGTGCCCTGGTGGAG
CTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAAGAGGTGCGGGCCAAGCTTCTGGAACTGAAACACAAGCAG
ACGCCCTCCTGCGCGCCAGAGCCGCCAGCGCTCCTTGCTGCGCCGCGCACCTCCAGCGCCGGCAGCCGCGGGA
AGGTGGTGAGGCGGGTGAGCCTAACCCAGCGCACCGACCTGTACCGCAAGCAGCACGCCCAGGAGGCCATCGTGT
GGCAACAGCCGCGCCACCAGCCCGGAGCCGCGCCGAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGG
CGCCGCCCCCGAGGAGGACAACCCCGAAGTGGTCAGGCCGCACAATGGCCGAGTAGGGGGCTCCCCAGTGC
ATCTATACTCCAAGCGACTAGACCGGAGTGTCTCCTACCAGCTGAGCCCCCTGGACAGCACACCCCCACACCC
TGGTCCACGACAAGGCCCACCACACCCCTGGCTGACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCC
CACCTGAGGGGGCCGAGAGCCCTGAGACAGCTGAGCCTGGCCTGCCTGTGTGACACGGTGACCCCCAGCCTGACT
GTGGCTTCAGGGCAGGCGGGGACCCACCCCTGCTCAAGCTCACAGCCCCGGCGGTGGAGGCTCCCGTGGAGAGGA
GGCCGTGCTGCCTGCTCATGTGAGGCTGTTGCTCAGCATGCAGGGGCCCTGTCTCGGGCACAGCCCAAGGCTGCC
TCCCCACGGTGCCTGCCCTGGTGTGCGGGTGACGACGGAAACCCCGGCTTCTACTGTACAGGACACTGGCCCC
TCTCAGGTGAGAAGACATGCCTGGAGGGATGTCTGGCTGCAAAGACTATTTTATCCTGCAACTCTTGATAAAGG
GCTGTTTTGCCATGG

4872/5332
FIGURE 4233

GGCGCCGAGTCTGGGCGCGGGGACGCGGGGCGGCGCAAGCGGGGCCCTCTGCCGCCCCGCGCTCCCATGTACGC
CTTTTACTCGTTTGCTCATCTACATCTTCTACAGCCTCTTCCGCAGGGATGGTGGCGCCGCGGCGGGCCGCGGAGCC
CGGGGACCCCGCCAGAGAGCCCGCAAGCCCCGGGGTCGCCGCGCCAGACCTGCCCGCGCCAGAGCTGTGGAC
CGAGCTGACCGGCTTGGCCGCCAGCTCCGAGCCTGAGGATGGGTTCGGAAGGCGCAGCCGAGGGTTCGCGCGGGCCGC
GGTGTCCCTTGAAGAGGCCCTACTGCGCCTCGCCGAGTTTCTCTCCGTCCAGCTGGGGGCGGAAGAGAGCTGCGG
GGGCCCCGCGGACCTGGGCCAGTCTGGCGAGGTCCCCCTCACTGTTGACAGTGACCACTCAGCTCTTGGCCCTTCT
GGCATGGCTTTCGAAGCCCCAGGGGAGGCGAGGCCCTGCTCCAGGGGACTCAGCCAGCCCCCTCGGGTCCGGCCCCC
CTCTCCAGATGGATCCACATCCCAAGAAGAAAGCCCTTCCCACTTACCAGCAGTCCAGGCGAGCCACTGGGGGA
TGAGACCCAGGACAGCAGCCCCCTCAGTTGGAGGAGGATCAGAGGGCGTGGCAGCGGCTGGAGCAGCTCATCCT
GGGACAGGAGGAGCTGAAGCAGCAGCTGGAACAGCAGGAGGAGGAGTTGGGTTCGACTGCGCCTGGGCGTGGGCGA
CGGACTCAGAGAAAAGGGTTTACGATCTGACTCTGGAGAACGAGGCCCTGAAGCAGAGCCTGAGTCTCATCGGG
ACCTCCTGCTGCACTGGGGCCCCGGGCCCCCATCAGGGCTCCGCAGGAGGAGGCGGAGGCATTGCTAGAGCTCC
AGGGCCGGCTTCAGGAGGCCAAGACACCACAGAAGCCCTCCGAGCCAGCTGGGGGTGCAGGAGGTGCAGCTGC
AGGGCCTTCAAGGGGCCCTCCAGCAGCTCCAGCAGGAGACGGAGCAGAACTGCAGGCGTGAGCTACAGCAGATGC
ATGGGCAGCTGGCAGGACTTCGGGCACGGATGGCCAGCCTGCGTCAGGGCTGCGGGGACCTCCGAGGTTTGGTCA
GCACCTTTACCCAGAGCTGTGAGGTTTCGCTGAGTGAGGCCCGGGGCCAGGTGTCTTGGCCCTTGGGGGCACGT
CATCTGGAGGGCCTGGCACTCAGCTCCCTGAGGGGCGAGCAAGGGCCCCAGCCGGATGCCAGGGCGGCTGCCAG
AACTCAAGGAAATATCCGTGTGTGTGCTGCGCTGAGGTCAGGCCAGGGACATCTTCTAGCCTTGTGAGTGTGGAGCCTG
GCCCAGGGGGCACCGTCACCACCTGCTACCGGGGGCGCCATCGTCGATTCGCGCTAGACTGGGTCTTCCCTCCAG
ACGCCAGCCAGGAGGAGGTCTTACAGAGCTGGAACCTGCGGTGCTGTCTGCTCCGAGGCTACAGCGTCTGCA
TCTTACCTATGGCCAGACAGGACCCGGGAAGACCTACAGCATGGAGGGCCCTCCTGAGGACCCCGGCATAGTTC
CTAGGGCGCTGCAGTCGCTGTTCCGGGAGATGGGGGCGCGCCGCGCAGCACCGGGTGACACTCAGCATGGTGGAGA
TCTACAATGAGGCTGTCAGGGACCTCCTTGCTCCAGGGCCTCCGAGCGCCTGGCCGTGAGGCAGGGCCAGAAAG
GCCAGGGCGGGATCCAGGTGGCTGGCCTCACCCACTGGGACGTGCCCAACCTGGAGACATTGCACCAGATGCTGA
AACTGGGGAGGAGCAACCGGGCCACCGCGCCACCGCCATGAACCAGCGCAGCTCCCGCTCGCATGCCCTGGTCA
CGCTGACGCTGCGCGCGGCGTCTCACCGCGCGCTCCAGGCACCGCAGGCACGCTGCACCTGGTGGACCTGGCGG
GATCCGAACGCGCACGGAAGGCAGGGGCGGTGCGCCCGCGCGGAGAGACCCAGACGGCGCCCGGCGCCTGCGGG
AGGCCCAGACCATAAACCGCTCGCTGCTGGCGCTAGGAGGCGTGATGGCCGCACTGCGGGCCCACCGGCCGACG
TGCCCTTCCGCGACTCGCAGCTCACGCGACTGCTGCAGCCGGCGCTGGGCCAGGCACACCGCGGTGCTGCTGC
TGCAGGTGGGCGCCGGGGCGGGGAGGTGTGTGCGTGCCGGTTCGCCGCCACCGGGCCCCGCCACCGCGCCTC
TTGCCCCGAGATCTCCACGCGCCGAGGATCTCGGGGAGACAGTCTGCTCCCTCAAGTTCGCCGACCGAGTGGG
TCAAGTGGAGCTGGGGCCAGCCCGCGCGCAGGGTCCCGCGCTCCTCCGGGACGCCTTCTTCCCTCAGCACCGA
CACTCCGCTCACCGGGACCCCTGCACCCCTACGCGCTCCCTGGCAGTCTCCATGCCCCAGTCCCGACAACGG
CTCGGGCTCGGCTCTCGCGCCCGCAGAGGGCCTGCCCTCTAGTCTTGGTTCGCGGCCCTGCCCATGGGGTCTCA
GGCCAGGTCTCTGCTGGCAGAGGCGGTAGTAAGTCCCTGTACCCCGTCTCCAGGGCACAAGCTCCCTAGCCTC
TTTGGATCCATTGCCCCGTGAGTCCAGAGTCAACCCCTCCACCTCCGAGCCAGTGAAGTGTGTTGTGCCTGCTG
AAGTGATCACCCCCCGCCCCAGCCCTGCATCAGGCCACAGGTCTTGGCTTCTCCTTATCACCATTGTGCTGTTA
TCACGGCACACAGCAGGGAATCCAGGCCCCCCCCGCAAGTGTTACCCAAGTCACCACTCCTGACCCAAAAATC
AGGCATGGCATTAAAACGTTGCAAATTCCTTTACTGTTATCCCCCCCACCAACAGGACCATGTAGGGTGCAGTCT
TTACTCCCTAACCCGTTTCCCGAAAAAGGTGCTACCTCCTTTCCAGACAGATGAGAGAGGGCAGGACTTCAGGCT
GGATCCACCACTGGGCTCTCCCTCCCCAGCCTGGAGCACGGGAGGGGAGGTGACGCCTGGTGAAGTATGGATGGG
TATGGGCTGAGAAGAGGGGACTAGGAAGGGCTATTCCAGGCTCAGGCCCTGCTCCTGCAGGCTTTGCCGCTGAGT
GTAGGAAAAACAGGCATGGCAGACCAGGGTGAGGGTGTGCCAGCTGGGCCACGGCCATGCGTGGGGTGGCCCA
ATAAACACCGTGGACTCCC

4873/5332
FIGURE 4234

CGGAGCAGTGGTCGGAGATGTGGCGACCGGCTGGAGTGCAGTGTCTCAATCTTGGCTCACTGCAATCTCCGCCTA
CCAAGATCAAGCGATTCTCCTGTCTCAGCCTCCCAACTACCTGGGATTACAGGTGCAGCTCTGTCATTTCCACTC
TGCTCTGCTGCACAGAAGGCAGAAGCCCTGGCCGTCCCCTGCTGTGTTCTTCAGGAGAAACGTCAGGGGCCTTCC
TCCAAGGTTCTCCAGCCCCACACCCCTGTGGAGGAAGGTGCTCTCCACCGCGGTAGTGGGGGCGCCCCTGCTCCT
CGGAGCCCGCTATGTCATGGCAGAGGCACGGGAGAAGAGGAGGATGCGGCTCGTGGTGGATGGCATGGGGCGCTT
TGGCAGACCTTGCTCCCCAGGCCTTGGAGACCCACCCCTCCTGGTGTCTCCTCTCTTCCCTAGTGGACCTCAGGC
TGCAGGTCTCTGAAGGTCGGCCTGCAGATCTCCCTGGACTACTGGTGGTGCACCAATGTTGTCCTTCGAGGGGTG
GAAGAGAACAGCCCAGGCTACTTGGAGGTGATGTCTGCGTGTACCAGCGGGCGGCTGATGCCCTGGTGGCAGGG
GCCATCAGCAACGGGGGCCTCTACGTGAAGCTGGGCCAGGGGCTGTGCTCCTTCAACCACCTGCTTCCCCCGAG
TATACCCGGACCTGCGCGTGCTAGAGGACAGGGCCCTCAAGCGGGGCTTCCAGGAG

4874/5332
FIGURE 4235

GGCGGGCTGGTGCTGTGTCCACTGCAATGCCTCTCCTCTCCCCAGATAGCAAAAAAGCTCATCAAGGCCTTTGCT
GAGCAGATATTTTACACCGGCTTCATCCACTCGGACCCACATCCTGGCAACGTTCTGGTGCGGAAAGGCCCGGAC
GGGAAAGCGGAGCTGGTGCTGCTGGACCACGGGCTCTACCAGTTCCTGGAGGAGAAGGACCGCGCAGCCCTCTGC
CAGCTGTGGCGGGCCATCATCCTGCGGGACGACGCCGCCATGAGGGCGCACGCAGCCGCACTGGGGGTGCAAGAC
TACCTCCTGTTAGCCGAGATGTTTCATGCAGCGCCCCGTGCGCCTGGGGCAGCTGTGGGGTTCGCACCTACTGAGC
CGCGAAGAGGCGGCCCTACATGGTGGACATGGCCCCGCGAGCGCTTCGAGGCCGTCATGGCGGTGCTCAGGGAGCTG
CCGCGGCCCATGTGCTGGTGCTGCGCAACATCAACACCGTGCGCGCTATCAACGTGGCCCTCGGCGCCCCCGTG
GACCGCTACTTCCTTATGGCTAAAAGGGCTGTCCGGGGCTGGAGCCGCCTGGCGGGCGCCACGTATCGGGGTGTC
TACGGCACCAGCCTCCTGCGCCACGCCAAGGTCGTCTGGGAGATGCTCAAGTTTGAAGTGGCGCTCAGGCTGGAG
ACCTTGCCCATGCGGCTGACCGCCCTCCTGGCTCGTGCTCTGGTCCACCTGAGCCTCGTGCCCCAGCGGAGGAG
CTCTACCAGTACCTGGAGACCTAGGGTGCAGCCGCCCAGGGCCGGCGGGGCCCTTTTCACCTTGGGCTGACGGAG
GTGGCGGGGCTAGAGGTGTAGACACCCCGAGCCCCGTGGGCACTCGCACTGGGGGGCTGTGACAGCAGCTGGGCC
AGGAGGCCGTGTAATGACCACACACTCCTCTCAAGCAAAAAA

4875/5332
FIGURE 4236

ATGGTCACCATGGAGCCCCGGGTACCTGTTCTGGGTTCTCGCCTGGGCAATTCCCTCCTCCTCAAGTACACGGAG
AAGCTGCAGGAGCCCCCGGCCAGTGCTGTCCGTGAGGCTGCCGACAAGGAAGAGCCTCCCTCAAAGAAGAAGCGA
GTGGATGCGACGSCCGGCTGGTCAGCTGCGGGTAAGTCGGTGCCGACAGGATGAGGTGGACGAGATTGAAGTGAC
GGCAGCGAGGCCCCAGTCGGGAACACAGCTGGCCACCTACTCCTTTGAGGTGTGTGACAGCATCCTGAACATTGGA
CCCTGTGCCAATGCCGCCGTGGGCGAACCTGCCTTCCTCTCTAAAGAGTTTCAGAACAGCCCCGAGCCGGACCTG
GAGATTGTGGTTTGCTCCGGCCACGGGAAGAACGGGGCTTTGTGCGGTGCTGCAGAAGAGCATCCGGCCCCAGGTG
GTGACAACATTTGAGCTTCCCGGCTGCTATGACATGTGGACAGTCATCGCCCCGGTGCGTAAGGAGGAGGAGGAC
AATCCCAAGGGGGAGGGCACAGAGCAGGAACCCAGCACCACCCCTGAAGCAGACGACGACGGCCGACACACGGA
TTCTTGATTCTGAGCCGGGAAGACTCCACCATGATCCTGCAGACGGGGCAGGAGATCATGGAGCTGGACACCAGT
GGCTTCGCCACTCAGGGCCCCACGGTCTTTGCTGGGAACATCGGGGACAACCGCTACATTGTCCAAGTGTCACCA
CTGGGCATCCGCTGCTGGAAGGAGTGAATCAGCTGCACTTCATCCCCGTGGACCTGGGCGCCCCCATCGTGACG
TGCGCCGTGGCCGACCCCTATGTGGTCATCATGAGTGCCGAGGGCCACGTCACCATGTTCTGTGTAAGAGTGAC
TCCTACGGTGGCCGCCACACCGCTGGCGCTGCACAAGCCCCGCTGCACCATCAGTCCAAGGTGATTACGCTG
TGCCTGTACCGAGACCTCAGCGGCATGTTACCACATGAGAGCCGCTGGGTGGGGCCCGTGACGAGTCCGGGGG
CGGATTTGGGCGGAGGCGGAGGCGCTGGGCTCAGAGACTAGCCCCACAGTGGATGACGAGGAGGAGATGCTGTAT
GGGGATTGGGCTCCCTCTTCAGCCCCAGCAAGGAGGAGGCCGGAAGAAGCAGCCAGCCCCCTGCTGACCGGGAC
CCTGCACCCCTCCGGGCAGAGCCTACCCACTGGTGCCTGCTGGTGCGGGAGAATGGCACCATGGAGATCTACCAG
CTTCCCGACTGGCGGCTGGTGTTCCTGGTGAAGAATTCCTGTGGGGCAGCGGGTCTTGTGGACAGCTCCTTT
GGACAGCCCACTACACAGGGCGAGGCCCGCAGGGAGGAGGCCACGCGCCAGGGGGAGCTGCCCTCGTCAAGGAG
GTGCTGCTGGTGGCGCTGGGCAGCCGCCAGAGCAGGCCCTACCTGCTGGTGATGTGGACCAAGAGCTGCTTATC
TACGAGGCCCTTCCCCACGACTCTCAGCTCGGCCAGGGCAATCTCAAAGTCCGCTTTAAGAAGTCCCTCACAAC
ATCAACTTCCGTGAGAAGAAGCCAAAGCCATCCAAGAAGAAAGCAGAAGGTGGCGGCGCAGAGGAGGGGCTGGG
GCCCGGGGCTCGTGCGCGCTTTCCGCTACTTCGAGGATATTTATGGCTACTCAGGGGTCTTCATCTGCGGCCCC
TCCCTCACTGGCTCTTGGTGACCGGCCGAGGGGCTCTGCGGCTACACCCATGGCCATCGACGGCCCGGTGAC
TCTTTCGCTCCATTCCACAATGTCAACTGTCCCGCGGCTTCCTGTACTTCAACAGACAGGGCGAGCTGAGGATC
AGTGTCTGCTGCTGCTACCTGTCTATGATGCCCCATGGCCTGTCAGGAAGATCCCGCAGCGTTGCACGGCCAC
TATGTGGCTTACCACGTGGAGTTTAAGGTGTATGCTGTGGCCACCAGCACCACACGCGGTGTGCCGCTATCCA
CGCATGACTGGCGAGGAGAAGGAGTTTGAAGCATCGAGAGAGATGAGCGGTACATCCACCCCGCAGCAGGAGGCC
TTCTCCATCCAGCTCATCTCCCCGGTCAGCTGGGAGGCTATTCCAATGCCAGGATCGAGCTGCAGGAGTGGGAG
CATGTGACCTGCATGAAGACAGTGTCTCTGCGCAGTGAGGAGACCGTGTGCGGCTCAAAGGCTACGTGGCCGCC
GGGACCTGCCTCATGACGGGGGAGGAGGTCAGTGCCGAGGGCGGATCTTGATCATGGATGTGATTGAGGTGGTG
CCCAGCCTGGCCAGCCCTTGACCAAGAACAAGTTCAAAGTCTTTACGAGAAGGAGCAGAAGGGGCCCGTGACC
GCCCTGTGCCACTGCAATGGCCACCTGGTGTGCGCCATCGGCCAGAAGATTTTCTGTGGAGCCTGCGGGCCAGC
GAGCTGACGGGCATGGCCTTCATCGACACGCAGCTCTACATACACCAGATGATCAGCGTCAAGAATTCATCCTG
GCAGCCGACGTCATGAAGAGCATTTGCTGTGCTGCGCTACCAGGAGGAAAGCAAGACGCTGAGCCTGGTGTGCGG
GATGCCAAGCCCCGAGGAGGTGTACAGCGTGGAATTCATGGTGGACAATGCCAGCTGGGTTTTCTGGTGTCTGAC
CGCGACCGCAACCTCATGGTGTACATGTACCTGCCCGAAGCCAAGGAGAGTTTCGGGGGCATGCGCCTGCTGCGT
CGGGCAGACTTCCACGTGGGTGCCCACGTGAACACGTTTTGGAGGACCCCGTGCCGGGGGGCCACTGAAGGGCTC
AGCAAAAAGTCGGTGTGTGGGAGAATAAGCACATCACGTGGTTTGCCACCCTGGACGGCGGCATCGGGCTGCTG
CTGCCCATGCAGGAGAAGACCTACCGGCGGCTGCTGATGCTGCAGAACGCGCTGACCACCATGCTGCCACACCAC
GCCGGCCTCAACCCCCGCGCTTCCGGATGCTGCACGTGGACCGCCGACCCCTCCAGAATGCCGTGCGCAACGTG
CTGGATGGGGAGCTGTCAACCGCTACCTGTACCTGAGCACCATGGAGCGCAGCGAGGTAGCCAAGAAGATCGGC
ACCACACCAGACATAATCCTGGACGACTTGCTGGAGACGGACCGCTACCGCCCACTTCTAGCCCCGTGGATGC
CGTCACCACCAGCACACGGAACCTACCTCCCACCCCTTTTTGTACAAAACACAAGGAAAAACATTTTTTGC

4876/5332
FIGURE 4237

CGCTCGCTCCGGCAACTGGAGGCACGGCAGAGGAGGCAGGGCCGACGGCGGTGGGCGGTGCGTTGCGCAGGCTCG
GGCCTCCCGCTCGCCGCTGCGTTGGGACCGCGCAGCCCGGTGTGTGCAGTGGCCTCAGGGATCCGGAAGTCTAG
GACTGAACTTCTCCTAACATCCAGTAATGGGGACCTGGAACCTGGGCGTACTAGAGTGCCGCGCTAGGGCTCCA
GGTCGCTGGCTTCTGCGCTTCTTCTCTCCAAAGTTGAGTATCTCCTATCTGTGTCCTCATACTACTGCCGCC
TGAGGTGCCATGGCCCCCAAGCCGGGGGCGGAGTGGAGCACAGCCCTGTCCCATCTGGTGCTGGGAGTGGTGTCT
CTGCACGCAGCCGTGAGCACAGCCGAGGCAAGTCGAGGGGCTGCTGCTGGCTTCTGTCTCCAGGTCTTGGCTGCC
ACCACCACGCTGGCCCCAGGGCTGAGCACACATGAAGACTGCCCTTGCTGGAGCCTGGGTGGCCACCGTCATCGGC
CTTCCCCTTCTGGCCTTCGATTCCACTGGGTGAATGGGGACCGCTCCTCTGCCAACCTGCTCCTGGGAGGAGGC
ATGGTGCTGGCAGTGGCTGGCGGCCACCTCGGCCCTGAGGGCCGCTCTGTGGCTGGTCAGGCAATGCTGTTGGTG
GTCGCAGTGACCATCCTCATTGTAGCTGTCTTACGGCCAACACTTATGGGATGTGGGGGGGGCGATGCTGGGT
GTGGCAGGCCTCCTGAGCCGGCTGGAGGAGGACAGGCTGCTGCTGCTACCGAAGGAGGATGTCTGTCGCTGGGCC
TTGGCTGTAGGCAGCTGGGCTTACTGCCGGGCCCTGCATACACAGCGCCTCCAGTGGGAGTGACAGTTGGATACA
GCCAGGCAGGGTTTCTGCCCTGCCGAACACTTTCCTCCCACCTGCCTGCTCCTGGCGCCTTCTCCCTAGGGGTA
GACTCTTCTGCCTACTGAAGTGGGTTTGCTGCACATTGACTGGTCAGGGGCAGAGTCTGGGTGCTGTCTTTGGC
CACGTGTGGGACTTGTCTAGACCAGAATGAAAGGGACAGGGTCCCAGACACGTTTGGGGGTCTGATTCTGGGC
TGGACACGGTTGTGGATCCAGAGAAGAGGCCTAGTCTCCAATAAATCTTAGGAATTTTGCAGG

4877/5332
FIGURE 4238

CTAATGGTCACTTGATGTGCGCTGGCTGTTTTATCCACCTACTAGCAGATGCCCGGCTGAAGGAGGAGCAGGCCA
CGTGCCCCAATTGTCGTTGTGAGATCAGTAAGAGCCTCTGCTGCCGGAACCTGGCCGTGGAGAAAGCCGTGAGCG
AGCTGCCTTCAGAGTGTGGCTTCTGCCTGCGCCAGTTTCCCCGCTCCCTCCTGGAGAGGCACCAGAAAGAGGAAT
GCCAGGACAGGGTAACCCAGTGCAAGTACAAACGCATCGGCTGCCCATGGCACGGCCCCCTTCCATGAGCTGACGG
TGCACGAGGCTGCGTGCGCCACCCGACCAAGACAGGCAGTGAGCTGATGGAGATCCTGGATGGGATGGACCAGA
GCCACCGCAAGGAGATGCAGCTGTACAACAGCATCTTCAGCCTGCTCAGCTTCGAGAAGATTGGCTACACAGAGG
TCCAGTTCGGCCGTACCGCACAGACGACTTCATCACGCGCCTGTACTATGAGACGCCCAGGTTTACAGTGCTGA
ACCAGACGTGGGTCTCTGAAGGCTCGAGTCAACGACTCGGAGCGTAACCCCAACCTGTCCTGCAAGCGTACGCTCT
CCTTCCAGCTCCTCCTCAAGAGCAAGGTACGGCACCGCTGGAGTGCTCCTTCCTGCTGCTCAAGGGCCCCTACG
ACGACGTGAGGATCAGCCCCGTCTCTACCACTTTGTCTTCACCAACGAGAGCAACGAGACGGACTACGTGCCAC
TGCCCATCATTGACTCCGTGGAGTGCAACAAGCTGCTGGCTGCCAAGAATCAACCTGCGGCTCTTCTGTTC
AGATACAGAAGTAGGGCGGGGCTCAGGATGTCCGAGGAGCCACGGGCGGCATCCCAGCACCGCTGCCCTGTCC
ACCTGGCTGGCAGCTGCTTCACAGGACTATCTGATCACTTTAGCAAAGGAGGAGAACAACGAAGCCAACACAGG
GCAAGTCTGCATGCGTGACGACGGGGCCCCCGCTCCGGCTCACCCACCGACCCCTGCCTCCCCCTCCTTCCGA
GGGCCGCCAGAGGCTGGGCTGACCCGAAGAGGAGACGGTGCAACAGGCGCCCCGAGGCTAAGAGACGGTGGCAGC
AAGGAGGCCGAGAGGCACAGCGACCCTGCCCCAGCCCTTCTGTGCACTCAGGCGCGGCTGCTGCTCCATCCCTGC
GGGTTCGGCGGGGCGCGGGGGCCTTGCTGACATCAGACGGGATATCCGAATATCTGATAGCAATTAAAAGGCAG
CCTTGTTTCGTACTTTCTGTTTTGTTTCGAGGGGAAGGCATGGCTGTGAATGGACAGCGTGGGGGCTTTGGTTTGG
CCTGGGGGTCAGAGCCTGCCCCGCCCCATCTGTGTGCCCGCACACGTCCCCCGAGGAAAGACTCAGAGACACTG
CTCCCCCTACGCTCTGTCTATGGGGTCTTGAGACTGAGGCTTGGGCAGGAAGATCCAGGTAGGGTCGGGGCTGCC
CTGGCCAACCGCCGCTCCAGGGAGACAGGACTCAGCCACCAGGGCTCAGCAGGCATTTTCGAAAGCAGGGTG
AAATTGTCTCTTCCCAGGAAAAGATTAACTCCTTGCAGGCTCTTGGATAAGTTACAC

4878/5332
FIGURE 4239

ATGCAATCAGTGTGGGAAGGCCCTTCAGTCAGAGCTCAAGCCTTTTCCTCCATCATCGGGTTCATACTGGAGAGAA
ACCCTATGTATGTAATGAATGCGGCAGAGCCTTTGGTTTTAACTCTCATCTTACTGAACACGTAAGGATTACAC
AGGAGAAAAACCCCTATGTTTTGTAATGAGTGCGGCAAAGCCTTTCGTCGGAGTTCCTCTTGTTCAGCATCGAAG
AGTTCACACTGGGGAGAAGCCCTACCAGTGCGTTGAATGTGGGAAAGCTTTCAGCCAGAGCTCCCAGCTCACCCCT
ACATCAGCGAGTTCACACTGGAGAGAAGCCCTATGACTGTGGTGACTGTGGGAAGGCCTTCAGCCGGAGGTCAAC
CCTCATTACAGCATCAGAAAGTTCACAGCGGAGAGACTCGTAAGTGCAGAAAACATGGTCCAGCCTTTGTTTCATGG
CTCCAGCCTCACAGCAGATGGACAGATTCCCCTGGAGAGAAGCACGGCAGAGCCTTTAACCATGGTGCAATCT
CATTCTGCGCTGGACAGTTCACACTGGTGAGAAATCCTTTGGATGTAATGAATATGGAAAAGCTTTCAGTCCCAC
CTCACGACCCACTGAAGATCAGATAATGCATGCTGGGGAAAAGCCCTATAAATGTCAAGAATGTGGAAACGCCTT
CAGTGGAAGTCAACCCTTATTCAACATCAGGTAACCTCACACTGGTCAGAAACCATGTCATTGCAGTGTGTATGG
GAAAGCCTTCAGCCAGAGTTCACAGCTCACACCACCTCAGCAGACTTGTGTTGGAGAGAAACCTGCTTTAAATGA
TGGCTCTAAAAGATACTTTATTCATATCAAGAAGATTTTCCAAGAAAGACATTTTAAATGTGATAAATGCAGAAG
ACAGTTTAGCAACTGTTCACTTGACATTAGAAGATAAGATGGCATAATGAAAGATATATAAGGTCTAAATATTAC
TGGCAAAGTAAAATAAATAGTTCAGATGACTACTAAAGTCAAAGTCATTAAATCTGGAAGTAAACACGAGAATTCT
ATTCTGGGAAATCAGGCTGTCTGTGTAAAGGTTACTGTGTGCTCAGGAGTTGAACCGTGTGGTGCTGTATCCGG
ATACTCATGACGAATGGATGGAGGGCGTGAAAAGTGAGCCAGCTGGTGCTCTGGGTCTACCCCTACCTGACATCC
TTCCAGTCTTATCCTTTGTTTCCTATCCAGGCCCAGGCTTGTGGCTGAGAACATCCACTTTCAGTCCCATATACC
TGCCTCCAAGTGTGGTACAGAGAACTTGGGCCTGCTGGGGCGCTTAGCCTTACTCTCTCCACCACCTCTCCCAC
CAACCCCCAGATGAACTGCAGGTAGACGTTTCTTCCTTGCTTGGAGCCCCAGTTTTTGCATTTTCATTTTCATTAA
AATGAAAGGTGGTTTTGGTTTTGGTTCTAAGGAGCTCTACAGTTTAAACAGAGAGAGGGACCTTAGGGGCCAAGAAA
GCAGGGGCCTACCAAGTATCTCCACTTTTGAAAATTGTAATTACTGATAAAAAATTTTTTAAAGGCAGGTTTATT
GAAGCATAATTTATAACAATAAAATTTACTCTTTTTAGTGT

4879/5332
FIGURE 4240

GCGGCATGGGCAGTATCCGCCGCCATCCTCTTCCGTGAGGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAGGAT
GCCGGTGCGGGCGCCCGCGGAGAGGGACCCGTCGCCATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGG
TCTGTGTTCCGCGCGCACGTGAAGCACCGTAAAGGCGCTGCGCGCCTGCGCGCCGTGGATTTTCGTGAGCGGCAC
GGCTACATCAAGGGCATCGTCAAGGACATCATCCACGACCCGGGCGCGGCGCGCCCTCGCCAAGGTGGTCTTC
CGGGATCCGTATCGGTTTAAGAAGCGGACGGAGCTGTTTATTGCCGCCGAGGGCATTACACGGGCCAGTTTGTG
TATTGCGGCAAGAAGGCCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTG
TGCTGCCTGGAGGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCGGGCATCAGGGAATATGCCACCGTTATCTCC
CACAACCCTGAGACCAAGAAGACCCGTGTGAAGCTGCCCTCCGGCTCCAAGAAGGTTATCTCCTCAGCCAACAGA
GCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCATCTTGAAGGCTGGCCGGGCGTACCACAAA
TATAAGGCAAAGAGGAACTGCTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGT
GGCAACCACCAGCACATCGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATT
GCTGCCCCCGGACTGGACGTCTCCGGGGAACCAAGACTGTGCAGGAGAAAGAGAACTAGTGCTGAGGGCCTCAA
TAAAGTTTGTGTTTATGCC

4880/5332
FIGURE 4241

GCGGACTCGGGTTGCCCTCGGTCCGAGTGATCCCTGGTCGCTTCCTTAGCCCTCCCGCCTTCGGCATTGGGGTCC
CCGCGTCCCCCGGGCCTCCAGGCGGGAAAGCGCGGGGGCTTTGCGGGGCCTTGAGCGCCTGGTGTGGGAGGTGGT
CGAGCCCAGCCACCCTCCCCCGGGCGGCGGAGGTCTCTCGGCCAGAACACGTGGATGCCACCCACCACTGAG
CCTCATGGAGGTGGTAACATTTGGCGATGTGGCTGTGCACCTCTCTCGGGAGGAGTGGCAGTGTCTGGACCCCTGG
CCAGAGGGCCCTCTACAGGGAAGTGATGTCTGGAGAACCACAGCAGTGTGGCTGGACTAGCAGGATTCTGGTTTT
CAAGCCTGAGCTGATCTCTCGGCTGGAGCAGGGAGAAGAGCCATGGGTCCTCGACCTGCAGGGAGCAGAGGGGAC
AGAGGCACCAAGGACCTCCAAGACAGATTCTACGATTAGGACTGAAAATGAGCAGGCCTGTGAGGACATGGACAT
CCTAAAATCAGAATCCTATGGGACAGTGGTCAGAATCTCCCCACAGGACTTTCCTCAGAATCCTGGCTTTGGAGA
CGTTTCTGATTCTGAGGTCTGGTTAGACAGTCACTGGGCGAGTCCCGGGCTGAAAGTGACAGGCTTTACCTTCCA
AAATAACTGTTTGAATGAGGAGACTGTGGTTCCCAAGACCTTACCAAGGACGCACCCAGGGATGTAAGGAGCT
GGGAAGCAGCGGCCTGATTGTCTAGCCTCTTGAAGTCAGGGAGAGAGTGCAGGAAAGGATGTCCCAGAGATGCGA
GGAGTGTGGCAAAGGCATCAGAGCCACTTCAGATCTGCTCTGCAGGGGAAACATACAAATAACTGCCATGGAGAGAAGCC
GTACGAATGTCCAGAGTGTGGGAAAGTCTTCAGGCTCTGCTCGCAGCTTAATCAGCATCAGAGAATCCACACGGG
AGAGAAACCCTTTAAATGCACTGAGTGTGGAAAAGCCTTCCGCTGAGCTCAAAACTTATTCAGCATCAAAAGAT
CCACACTGGGGAGAAGCCCTACAGATGTGAGGAATGTGGAAAAGCCTTTTGGTCAGAGCTCAAGCCTCATCCACCA
TCAGAGAATCCACACAGGAGAGAGGCCCTATGGTTGTCGTGAGTGTGGGAAAGCCTTCAGCCAGCAGTCGCAGCT
GGTTAGACACCAGAGAACTCACACTGGGGAGAGGCCCTACCCCTTGCAAGGAGTGTGGGAAGGCCTTCAGCCAGAG
CTCCACCCTAGCCCAGCATCAAAGGATGCATACTGGGGAGAAAGCTCAAATTCTAAAAGCCTCAGACAGTCCAAG
CCTTGTTGCACATCAGAGAATTCACGCTGTAGAGAAACCATTAAAGTGTGATGAGTGTGGGAAAGCCTTTAGGTG
GATCTCTCGCCTGAGTCAGCATCAGCTGATTACACTGGAGAGAAGCCTTATAAATGCAACAAGTGTACAAAAGC
CTTTGGTTGTAGTTCACGGCTTATTCGCCATCAGAGAACTCACACTGGAGAAAAACCATTAAATGTGATGAGTG
TGGCAAAGGCTTTGTTTCAGGGCTCACACCTTATTCAGCATCAGCGAATCCACACTGGAGAGAAACCCTATGTGTG
TAATGACTGTGGAAAAGCCTTCAGTCAGAGTTCAGCCTTATTTACCATCAGAGAATCCATAAAGGAGAGAAGCC
CTACGAATGCCTCCAATGCGGAAAAGCCTTCAGTATGAGCACACAGCTTACAATACATCAAAGGGTTCACACTGG
AGAGAGGCCCTATAAATGTAATGAATGTGGGAAAAGCCTTCAGTCAAACTCAACCCTTTTCCAACACCAGATAAT
TCATGCAGGGGTGAAGCCCTATGAGTGCAGTGAAGTGTGGAAAAGCCTTCAGCCGGAGCTCATATCTTATGAACA
CCAGAGAATACACACTAGGGCCAGTGGTTTTACGAATATGGGAATGCCCTGGAAGGGTCCACCTTTGTGAGCCG
TAAAAAGGTTAATACTATAAAGAACTGCATCAGTGTGAAGACTGTGAGAAGATATTTAGGTGGCGTTCACACCT
AATTATACACCAGAGAATTCACACCGGGGAGAAGCCTTATAAATGCAATGACTGTGGCAAAGCTTTTAAATCGTAG
CTCAAGGCTTACCCAGCATCAAAAAATTCACATGGGATAGACCCTTACATATAAATGTGTATATATGTGAATAA
ACCTATAGCCTTAACCT

4881/5332
FIGURE 4242

GGGCGCTTCCGGGGACCAGGCCGCTTTTGGCTGCATCAGCCGGGGATTGCCGGCGCCAGGTGCTGGGGGCGACT
CGGACAGCGGGAGCGTGGGGTGGAGTAGGATGGAGTCTCCCTCCCGAGCTGGGGGTGTGGGCCTAGGAAAGGCTG
CTTCGCCGCTGTGTTTCGGAGAGCTCTGGATACTGCGGGGCTTTTCCGCGGAGGAGCGCCCGCCGGCATCTGCATC
TGGGACCGACCTCCTGGGCTGGCTGATCAAAGAGGAAGCAGCAGCAATGCTCTGCTGTGGGGGCTGCAACTCCATA
CCTGCATCATCCTGGTGATAGTCACAGTGGCCGAGTGAGTTTCTTGGGGGCCAGCTTCCTCCAGAGGTGGCAGC
AATGGCCCCGGCTACTAGGGGACCTAGACAGGAGCACGTTTCAGAAAGTTGCTGAAGTTTGTGGTCAGCAGCCTGCA
GGGGGAGGACTGCCGAGAGGCTGTGCAGCGTCTTGGGGTCAGCGCCAACCTGCCGGAGGAGCAGCTGGGTGCCCT
GCTGGCAGGCATGCACACACTGCTCCAGCAGGCCCTCCGCTGTCCCCCACCAGCCTGAAGCCTGACACCTTCAG
GGACCAGCTCCAGGAGCTCTGCATCCCCAAGACCTGGTCGGGGACTTGGCCAGCGTGGTATTTGGGAGCCAGCG
GCCCCCTCTGATTCTGTGGCCACAGCAGAGGGGCTGGCTGCCGCATGTTGCTGACTTTCGGTGGCGGGTGGGA
TGTAGCAATCTCCACCAGTGCCCTGGCTCGCTCCCTGCAGCCGAGCGTCTGTATGCAGCTGAAGCTTTCAGATGG
GTCAGCATACCGCTTTGAGGTCCCCACAGCCAAGTTCAGGAGCTGCGGTACAGCGTGGCCCTGGTCTCTAAAGGA
GATGGCAGATCTGGAGAAGAGGTGTGAGCGCAGACTGCAGGACTGACCTTCCACGACAGCCCTGCCCTTCCCATTGAG
CGGCTTGGACAGCACCTGAGATGGTGCCAAAGTGCAGCTGACTCTTCCACGACAGCCCTGCCCTTCCCATTGAG
GCAGGCTCTTCAAGCGATATCTGAAGTGGCTCTGATGCCTTTGCCACACTCCTCGCATCTCTGGGACATCCCTTC
CGCACTCTCTCCCTGACTTTCAAGAGGCTGACAAATCCAGGCCGCTGCTTCCCAGCTCCTTACATCCCTGGGGTGC
GTCCTTGGTGAAGGTCTTGGGAACCACAGTCTCCTCATTCAAACAGTTATTTTGGAGGTAAAGCCTGTCACTTT
CAGCCCCGGGACTGCCCAGATGACTGTCTAACCAGACCTCAGAATCAGAAACGTCTCCAAAGCCAGGATTCTGAGG
AAAGTCTGTGGGGAGATTCTGACCCTGTCCCATAGGATTCTGATTTTAGGATGTCCATGTCTCACAGGCCTG
CTCATTTTCAGTCTTAATCGTAGAATCTGAAATAAACAGGAACAAAGACGTTCTTAGGCCCTGTGCTCAGAGAA
ATGATAAGACTACAAATGCGGGGGCCAGGGCTCAAGGCTCCCAGGATAGTTGCACTGAGCACTGTGAGGCCCCAG
GTGGAAACGTGCAAGAGAAGGCAGAGCCTTTGACAGTTCTCAAAAGTGGTTTCATACTTTTTACCTTGTTCCTC
ATTCGATAGCAATGAATGTTTATTGCTGGGGCAGGGCTGGGTTCTGTGAGCAGAGAGGTCCATCTACAGGCACT
GGTGTGGGGCAGAGTCCATGCAGAGGCAAAGGAGACAAAGCAAGACCAGAAGGGTGGGAAGCTACCACGGATTGG
GCTGCGGGGTGAGGGCTCCAGCATCCGAGCTGGCGAGGAAACAGTACAGGGTCTGAGTTCTGAATGGAGAGCAT
GGATTGTGATGAGGAAACAAGGCTGGAAGAGCTGCCAAGGGACTTACTACGTGAGCTCAGAAGAGCACTGGGCAC
CTAGGCCGTTTCATGGCTACTCCCTGGGGTGGGCTTCTCTGAGCAGGACCCAGCCCCCTCAGCTGCCTCTGGCTG
CTGCTGCCAACTTGCACCTGGCCACCTCCCTGCTTCTCCCTGGGCTGTGCGTGGCCACCTCTAAGACCACACTG
ACTTCTTCCCTGGGGCTGCAAGTTTCTGGAGGCCCCAGGAGGCTTCCAGACATCTGCGTTCTTCTGGACTCT
CCAAGTAAGCACAGGCTTCTGTCTACTCTGTAACCCTAGAGGGCACCTCTGCTGAGGTCAGACATCTCCTTGAT
GTCTGTGATCAAACCATGACAGGATGCAACCACAACACACGGCTATGATCATGACAACCACGGTCCCCACCACGA
CACAATCACGTTTACAACCACAACCACGCAGCCACAGGGTTTACCCTGTTGGCCAGGATGGTCTCGATCTCCTG
ACCTCGTGATCCGCCCCACCTCGGCCTCCCAAATCGCTAGAATGGCCGGCGTGAGCCACCATGCCCGGCTCCACGG
CCCCTACTTTTACAACCTTTGGACTGTCCAACCTTGCTTCCCGAGGCCCTACAAGCCGGTGGCCTCTGTAGGACC
TGGTCTTGCCCTGCTGCAGGAGTGACGGTGATGACCCAGCAGCAACTGAAAGGGAGGTGAGGGGCTTCTTTCTG
CAGCTGAGATGCACGCAGACCCATCTCCCTTGTGATGCTGGGCAGCACACCGGCTAAGCAGGGGAGCAGAGCACC
AGGCCGGGCGCCTGCCCAGCAGGAGCTGATGCCGGAGGCAGTGGGTGCCCTGGTTAGGGCTGAGGACCCCAAGAT
AGGCTGAAGTCCTAACTTGAAGCACCTCAGAAATGTGACCTTGTTTGGAAACACAGTCGTTGCAGATTAATTAGTC
ACCATGAGGTCACTGGGGTGGCCCTAACCACCATGACTGGTGTCTTCTAAGGAGATGGCCACATGAACACAG
ACACGCAGGGGAGAAGGCAGCCGTGTGAAGGAGTCGGAGATCAGAGTGAGGGACGCATCCACAAGCCAAGGAACCC
AAGGACTGCCAGAAAACCACAGCTGCCGGAGAGGCAGGACAGGATCCTTCCCTAAAGCCTTACAGGGGGGCA
CGGCCCTGCTTGCTGACCCCCGGTTTCAGATTTCCGGCCTCCACAGCTGTGAGACAATAAATTTCTGTTGTTTT

4882/5332

FIGURE 4243

GCGCAGACGGGGCGGGGCAGCCCTTTGTCTGAAGGTGCTGCGGGATGCCGTTCCCTTCGCGCGTGAGGCTGCGGCT
CTGACGCCCCATAGGCTCCTTCAATTTCCGTGATCCTCGGAGTCCCCAGGAGACCAGGTGATGGCAGCAGCCAGA
CTCCTGCCAGTGCCGGCAGGACCCCAGGCCAAGCTGACCTTCGAGGATGTGGCTGTGCTCCTCTCCCAGGATGAA
TGGGACCGCCTGTGCCCTGCTCAGAGGGGTCTCTACAGAAATGTGATGATGGAAACCTATGGGAATGTAGTCTCA
TTGGGACTTCCAGGATCCAAGCCTGACATAATCTCCCAGCTGGAGCGAGGGGAAGATCCCTGGGTCCCTGGACAGG
AAGGGGGCTAAGAAGAGCCAGGGCCTGTGGAGTGACTACTCAGATCCTGTGCCCCAGAAACCGTCAGATGTCTCA
ATTCCCATGCAGGCAAAGGAGGGGAGCTTCACACTCAGCAGACCTCATAGCTGTTACACCAATGGCTTCTGCTGT
GGCTATCCCATGTCCGGTGTGAGGAGACAGTGGTATGACTCATCCCTTTGTGTCCGGAATTGGTGGGTTCTTGGT
CTCACTGACGTCAAGAATGAAGCTGCGGACCCTCGTGGTACAGCCAGCTCTAATGGCTTCCATTTGGCGTTTCCA
ACCATAATAGCCTTTACCAGTCAAGGAGCCAATGTGGGGG

4883/5332

FIGURE 4244

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGGCCTCAGCCCGCACCGGC
AGTAGAAGATGGTGAAAGAAACAACCTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGA
AAAAGGCTTATAGGAACTGGCTTTGAAGTACCATCCTGATAAGAACCCTAATGAAGGAGAGAAGTTTAAACAGA
TTTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTA
AAGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCCATGGACATCTTTGATATGTTTTTTGGAGGAGGAGGAAGGA
TGCAGAGAGAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAA
CAAGAAAAC TGGCTCTGCAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAG
AGTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAA
TTCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACG
GAAGGAAGATAGTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAA
CATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTAGATCAGAAGGACC
ATGCTGTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCT
TCCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATG
GAGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCG
AATTTAAGGTAAACTTTCTGAGAATGGCTTTCTCTCTCCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCG
AGAGGAAGGAAGTGGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGAC
GGCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCAGAGGTGGTGTTCAGTGTGAGACCTCTT
AATGGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAAT
ATGCTCACTACTTGCTCTTGTTTTGTTTTAATAAACTATAGTAGTGTTTTAAAAAGTTAAATGAAGAATAAACG
CAAATATAAAAGCTC

4884/5332
FIGURE 4245

GAGGGAGAGCTGGGGCCTGCTCCCGGAGAGATACGGCTATGTCGATCGAAATCGAATCTTCGGATGTGATCCGCC
TTATTATGCAGTACTTGAAGGAGAACAGTTTACATCGGGCGTTAGCCACCTTGCAGGAGGAGACTACTGTGTCTC
TGAATACTGTGGACAGCATTGAGAGTTTTGTGGCTGACATTAACAGTGGCCATTGGGATACTGTGTTGCAGGCTA
TACAGTCTCTGAAATTGCCAGACAAAACCCCTCATTGACCTCTATGAACAGGTTGTTCTGGAATTGATAGAGCTCC
GTGAATTGGGTGCTGCCAGGTCACTTTTGAGACAGACTGATCCCATGATCATGTTAAAAACAAACACAGCCAGAGC
GATATATTATCTGGAGAACCCTTTTGGCCAGGTCTTACTTTGATCCTCGTGAGGCATACCCAGATGGAAGTAGCA
AAGAAAAGAGAAGAGCAGCAATTGCCAGGCCCTTAGCTGGCGAAGTCAGTGTGGTGCCTCCATCTCGTCTCATGG
CATTGCTGGGACAGGCACCTGAAGTGGCAGCAGCATCAGGGATTGCTTCCTCCTGGTATGACCATAGATTTGTTTC
GAGGCAAGGCAGCTGTCAAAGATGTGGAAGAAGAAAAGTTTCCTACACAACCTGAGCAGGCATATTAAGTTTGGTC
AGAAATCACATGTGGAGTGTGCTCGATTTTCTCCAGATGGTCAGTATTTGGTCACTGGGTCTGTTGATGGATTCA
TTGAAGTATGGAACCTTTACTACTGGAAAAATCAGAAAGGATCTTAAGTACCAGGCCCAAGATAACTTTATGATGA
TGGATGATGCTGTCCTCTGCATGTGTTTCAGCAGAGATACAGAAATGTTAGCAACTGGGGCCCAAGATGGAAAAA
TCAAGGTGTGGAAGATTGAGAGTGGACAATGTTTAAAGGAGATTGAGAGGGGCACACAGTAAGGGTGTACCTGTG
TAAGCTTTTTCTAAGGATAGCAGTCAGATCCTTAGTGCTTCTTTTGACCAGACAATTAGAATTCATGGTTTAAAAAT
CTGGGAAAACCCCTGAAGGAATTTCTGTTGGCCATTCTCCTTTGTTAACGAAGCAACATTTACACAAGATGGACATT
ACATTATTAGTGCATCCTCTGATGGCACTGTAAAGATCTGGAATATGAAGACCACAGAATGTTCAAATACCTTTA
AATCCCTGGGCAGCACCGCAGGGACAGATATTACCGTCAACAGTGTGATTCTACTTCCTAAAAACCCCTGAGCACT
TTGTGGTGTGCAACAGATCAAACACGGTGGTCATCATGAACATGCAGGGGCAGATTGTCAGAAGCTTCAGTTCTG
GTAAAAGAGAAGGTGGGGACTTTGTTTGCTGTGCCCTCTCTCCCCGTGGTGAATGGATCTACTGTGTAGGGGAGG
ACTTTGTGCTCTACTGTTTCAGTACAGTCACTGGCAAACCTGGAGAGAACTTTGACAGTGCACGAGAAGGATGTGA
TTGGTATTGCACATCACCCCTCATCAGAACCTGATTGCTACCTACAGTGAAGATGGACTCCTAAAGCTCTGGAAAC
CATAAATTCAACTTTTCTTTTAAATCAGCTCGAAAGCATGTACTTAAATGAAGCATATTCATGTAATGTGCTTTT
TTTTTTTTTTGCCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAGTCACAG

4885/5332
FIGURE 4246A

GCGGCCCCGCGGGCGGGTTCGCTCCCCTCCTGTAGCCACACCCTTCTTAAAGCGGCGGGCGGAAGATGAGGCTTC
GGGAGCCGCTCCTGAGCGGCAGCGCCGCGATGCCAGGCGCGTCCCTACAGCGGGCCTGCCGCTGCTCGTGGCCG
TCTGCGCTCTGCACCTTGGCGTCACCCTCGTTTACTACCTGGCTGGCCGCGACCTGAGCCGCTGCCCAACTGG
TCGGAGTCTCCACACCGCTGCAGGGCGGCTCGAACAGTGCCGCCGCCATCGGGCAGTCTTCCGGGGAGCTCCGGA
CCGGAGGGGCCCGGCCGCGCTCCTCTAGGCGCTCCTCCAGCCGCGCCCGGGTGGCGACTCCAGCCCAGTCG
TGGATTCTGGCCCTGGCCCCGCTAGCAACTTGACCTCGGTCCAGTGCCCCACACCACCGCACTGTCTGCTGCCG
CCTGCCCTGAGGAGTCCCCGCTGCTTGTGGGCCCCATGCTGATTGAGTTTAACATGCCTGTGGACCTGGAGCTCG
TGGCAAAGCAGAACCCAAATGTGAAGATGGGCGGCGCTATGCCCCAGGGACTGCGTCTCTCTCACAAGGTGG
CCATCATCATTCATTCCGCAACCGGCAGGAGCACCTCAAGTACTGGCTATATTATTGACCCAGTCCCTGCAGC
GCCAGCAGCTGGACTATGGCATCTATGTTATCAACCAGGCGGGAGACACTATTTCAATCGTGCTCAAGCTCCTCA
ATGTTGGCTTTCAAGAAGCCTTGAAGGACTATGACTACCTGCTTTGTGTTAGTGACGTGGACCTCATTCCAA
TGAATGACCATAATGCGTACAGGTGTTTTTTCACAGCCACGGCACATTTCCGTTGCAATGGATAAGTTTGGATTCA
GCTTACCTTATGTTAGTATTTTTGGAGGTGCTCTGCTCTAAGTAAACAACAGTTTCTAACCATCAATGGATTTT
CTAATAATTATTGGGGCTGGGGAGGAGAAGATGATGACATTTTTTAACAGATTAGTTTTTAGAGGCATGTCTATAT
CTCGCCCAAATGCTGTGGTTCGGGAGGTGTCGCATGATCCGCCACTCAAGAGACAAGAAAAATGAACCCAATCCTC
AGAGGTTTGACCGAATTGCACACACAAAGGAGAATGCTCTCTGATGGTTTGAACCTACTCACCTACCAGGTGC
TGGATGTACAGAGATACCCATTGTATACCCAAATCACAGTGGACATCGGGACACCGAGCTACCGTTTTGGTACAC
GGATAAGAGACCTGAAATTAGCCAGGGACCTCTGCTGTGTGCTCTGCCAATCTGCTGGGCTGGTCCCTCTCATT
TTTACCAGTCTGAGTGACAGGTCCCCTTCGCTCATCATTAGATGGCTTTCCAGATGACCAGGACGAGTGGGATA
TTTTGCCCCAACTTGGCTCGGCATGTGAATTCTTAGCTCTGCAAGGTGTTTATGCCTTTGCGGGTTTTCTTGATG
TGTTGCGAGTGTACCCCGAGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGGAACACATTCCCGGTGA
TAGAATTGCTAAATTGTCGTGAAATAGGTTAGAATTTTTCTTTAAATTATGGTTTTCTATTGCTGAAATTCGG
AGAGTGCTGCTAAATTTGGATTGGTGTGATCTTTTTGGTAGTTGTAATTTAACAGAAAAACACAAAATTTCAACC
ATTCTTAATGTTACGTCTCCCCCACCCTTCTTTTCAAGTGGTATGCAACCACTGCAATCACTGTGCATATGTC
TTTTCTTAGCAAAAGGATTTTAAACTTGAGCCCTGGACCTTTTGTCTATGTGTGTGGATTCCAGGGCAACTCT
AGCATCAGAGCAAAAGCCTTGGGTTTTCTCGCATTCACTGGCCTATCTCCAGATTGTCTGATTTCTGAATGTAAAG
TTGTTGTGTTTTTTTTTAAATAGTAGTTTGTAGTATTTTAAAGAAAGAACAGATCGAGTTCTAATTATGATCTAG
CTTGATTTTGTGTGATCCAAATTTGCATAGCTGTTTAAATGTTAAGTCATGACAATTTATTTTTCTTGGCATGCT
ATGTAACTTGAATTTCTATGTATTTTTATTGTGGTGTTTTAAATATGGGGAGGGGTATTGAGCATTTTTTAGG
GAGAAAAATAATATATGCTGTAGTGGCCACAAATAGGCCTATGATTAGCTGGCAGGCCAGGTTTTCTCAAGAG
CAAAATCACCTCTGCCCCCTTGGCAGGTAAGGCCTCCCGGTGAGCATTATCCTGCCAGACCTCGGGGAGGATAC
CTGGGAGACAGAAGCCTCTGCACCTACTGTGCAGAACTCTCCACTTCCCCAACCTCCCCAGGTGGGCAGGGCGG
AGGGAGCCTCAGCCTCCTTAGACTGACCCCTCAGGCCCTAGGCTGGGGGTTGTAATAACAGCAGTCAGGTTG
TTTACCAGCCCTTTGCACCTCCCCAGGCAGAGGGAGCCTCTGTTCTGSGTGGGGGCCACCTCCCTCAGAGGCTCTG
CTAGCCACACTCCGTTGGCCCAACCTTTGTTACCAGTTCTTCTCCTTCTCTTTTCCCCTGCCTTTCTCATTCTT
ICCTTCGCTCTCCCTTTTGTTCCTTTGCTCTTGCCTGTCCCTAAAACCTTGACTGTGGCACTCAGGGTCAAACA
GACTATCCATTCCCCAGCATGAATGTGCCTTTTAAATTAGTGATCTAGAAAGAAGTTCAGCCGAACCCACACCCCA
ACTCCCTCCCAAGAACTTCGGTGCCTAAAGCCTCCTGTTCCACCTCAGGTTTTTACAGGTGCTCCCACCCAGTT
GAGGCTCCCACCCACAGGGCTGTCTGTCAAAACCCACCTCTGTTGGGAGCTATTGAGCCACCTGGGATGAGATG
ACACAAGGCACTCCTACCCTGAGCGCCTTTGCCAGGTCCAGCCTGGGCTCAGGTTCCAAGACTCAGCTGCCTAA
TCCCAGGGTTGAGCCTTGTGCTCGTGGCGGACCCCAAAACCACTGCCCTCCTGGGTACCAGCCCTCAGTGTGGAGG
CTGAGCTGGTGCTTGGCCCCAGTCTTATCTGTGCCTTTACTGCTTTGCGCATCTCAGATGCTAACTTGGTTCTTT
TTCCAGAAGCCTTTGTATTGGTTAAAAATTTATTTTCCATTGCAGAAGCAGCTGGACTATGCAAAAAGTATTTCTC
TGTAGTTCCCACTCTATACCAAGGATATTATTTAAACTAGAAATGACTGCATTGAGAGGGAGTTGTGGGAAAT
AAGAAGATGAAAGCCTCTCTTCTGTCCGCAGATCCTGACTTTTCCAAAGTGCCTTAAAGAAATCAGACAAAT
GCCCTGAGTGGTAACTTCTGTGTTATTTTACTCTTAAACCAAACTCTACCTTTTCTTGTGTTTTTTTTTTTT
TTTTTTTTTTTTTTGGTTACCTTCTCATTATGTCAAGTATGTGGTTTATTCTTAGAACCAAGGGAAATACTGC
TCCCCCATTTGCTGACGTAGTGTCTCATGGGCTCACCTGGGCCCAAGGCACAGCCAGGGCACAGTTAGGCTTG

4886/5332

FIGURE 4246B

GATGTTTGCCTGGTCCGTGAGATGCCGCGGGTCCTGTTTCCTTACTGGGGATTTCAGGGCTGGGGGTTTCAGGGAG
CATTTCCTTTTCCTGGGAGTTATGACCGCGAAGTTGTCATGTGCCGTGCCCTTTCTGTTTCTGTGTATCCTATT
GCTGGTGACTCTGTGTGAAGTGGCCTTTGGGAAAGATCAGAGAGGGCAGAGGTGGCACAGGACAGTAAAGGAGAT
GCTGTGCTGGCCTTCAGCCTGGACAGGGTCTCTGCTGACTGCCAGGGGCGGGGGCTCTGCATAGCCAGGATGACG
GCTTTCATGTCCAGAGACCTGTTGTGCTGTGTATTTGATTTCCCTGTGTATGCAAATGTGTGTATTTACCATTG
TGTAGGGGGCTGTGTCTGATCTTGGTGTTCAAAACAGAACTGTATTTTGCCTTTAAAATTAAATAATATAACGT
GAATAAATGACCCTATCTTTGT

4887/5332
FIGURE 4247

TAGTCGGGCGGGGTTGTGAGACGCCGCGCTCAGCTTCCATCGCTGGGCGGTCAACAAGTGCGGGCCTGGCTCAGC
GCGGGGGGGCGCGGAGACCGCGAGGCGACCGGGAGCGGCTGGGTTCCCGGCTGCGCGCCCTTCGGCCAGGCCGGG
AGCCGCGCCAGTCGGAGCCCCCGGCCAGCGTGGTCCGCTCCCTCTGGGCGTCCACCTGCCCCGAGTACTGCCA
GCGGGCATGACCGACCCACCAGGGGCGCCGCCCGGCGCTCGCAGGCCGCGGATGAAGAAGAAAACCCGGCGCC
GCTCGACCCGGAGCGAGGAGTTGACCCGGAGCGAGGAGTTGACCCTGAGTGAGGAAGCGACCTGGAGTGAAGAGG
CGACCCAGAGTGAGGAGGCGACCCAGGGCGAAGAGATGAATCGGAGCCAGGAGGTGACCCGGGACGAGGAGTCGA
CCCGGAGCGAGGAGGTGACCAGGGAGGAAATGGCGGCAGCTGGGCTCACCGTGACTGTCACCCACAGCAATGAGA
AGCACGACCTTCATGTTACCTCCCAGCAGGGCAGCAGTGAACCAGTTGTCCAAGACCTGGCCCCAGGTTGTTGAAG
AGGTCATAGGGGTTCCACAGTCTTTTCAGAACTCATATTTAAGGGAAAATCTCTGAAGGAAATGGAAACACCGT
TGTCAGCACTTGGAATACAAGATGGTTGCCGGGTCATGTTAATTGGGAAAAAGAACAGTCCACAGGAAGAGGTTG
AACTAAAGAAGTTGAAACATTTGGAGAAGTCTGTGGAGAAGATAGCTGACCAGCTGGAAGAGTTGAATAAAGAGC
TACTGGAATCCAGCAGGGTTTTCTGCCAAGGATTTGCAAGCTGAAGCTCTCTGCAAACCTTGATAGGAGAGTAA
AAGCCACAATAGAGCAGTTTATGAAGATCTTGGAGGAGATTGACACACTGATCCTGCCAGAAAATTTCAAAGACA
GTAGATTGAAAAGGAAAGGCTTGGTAAAAAAGGTTTCAGGCATTCTAGCCGAGTGTGACACAGTGGAGCAGAACA
TCTGCCAGGAGACTGAGCGGCTGCAGTCTACAACTTTGCCCTGGCCGAGTGAGGTTGAGCAGAAAAAGGCTGTG
CTGCCCTGAAGAATGGCGCCACCAGCTCTGCCGTCTCTGGAGCGGAATTTACCTGATTTCTTCAGGGCTGCTGGG
GGCAACTGGCCATTTGCCAATTTTCTACTCTCACACTGGTTCTCAATGAAAAATAGTGTCTTTGTGATTTTGAG
TAAAGCTCCTATCTGTTTT

4888/5332
FIGURE 4248

GAAGTCGAGGCGGGAGTGACTCTGCTTCCGTTTCTGGTTTTGCTCTAGTGTTTGGGTTTCTTCGCGGCTGCTCAA
GATGAACCGACTCTTCGGGAAAGCGAAACCCAAGGCTCCGCCGCCAGCCTGACTGACTGCATTGGCACGGTGGA
CAGTAGAGCAGAATCCATTGACAAGAAGATTTCTCGATTGGATGCTGAGCTAGTGAAGTATAAGGATCAGATCAA
GAAGATGAGAGAGGGTCCTGCAAAGAATATGGTCAAGCAGAAAGCCTTGCGAGTTTTAAAGCAAAAGAGGATGTA
TGAGCAGCAGCGGGACAATCTTGCCCAACAGTCATTCAACATGGAACAAGCCAATTATACCATCCAGTCTTTGAA
GGACACCAAGACCACGGTTGATGCTATGAACTGGGAGTAAAGGAAATGAAGAAGGCATACAAGCAAGTGAAGAT
CGACCAGATTGAGGATTTACAAGACCAGCTAGAGGATATGATGGAAGATGCAAATGAAATCCAAGAAGCACTGAG
TCGCAGTTATGGCACCCCAGAACTGGATGAAGATGATTTAGAAGCAGAGTTGGATGCACTAGGTGATGAGCTTCT
GGCTGATGAAGACAGTTCTTATTTGGATGAGGCAGCATCTGCACCTGCAATTCAGAAAGGTGTTCCCACTGATAC
AAAAACAAGGATGGAGTTCTGGTGGATGAATTTGGATTGCCACAGATCCCTGCTTCATAGATTTGCATCATTCA
AGCATATCTTGTAACAACACATATTATGGGACTAGGAAATATTTATCTTTCCAAATTTGCCATAACAGATTT
AGGTTTCTTTCCTTTCTTTGAAGGAAAGTTAATTACATTGCTCTTTTATTTTTTCCATTAAAGAGACTCATTGCT
TGGGAAATGCTTTCTTCGTACTAAAATTTGATTCCCTTTTTTCTTATGAAAAACGAACTCAGTTTAAAAGTATTT
TTAGCTCGTATGACTTGTTTTCAATTCATTAATAATAATTTGAAATAAACTAAGGAAATGGAATCTTAAAAGTCT
ATGACAGTGAACTCTACAGTCTCAAAATGACCTGATAAATTGATAAGACAAAGATGAGATTATTGGGGCTGTTT
ATATTATGATTGAGAAATCATTCTTATTGTTGATTATAGGTTGGTTAAAGTGATGGCCTTTTGGATGGGTTTTG
TTGTGCTTGTGAACAAGTCGTTACTGTGTCCATTATTGGAATGGAATTATCACTACTGTATCATGAGTGGGTAT
TTGATTCTATGGTTCCCTCAGTATTACATCTTGACTTGTAATCAATTATGAATATTTCTTGATATTTAATGTAT
AGGACATTTATTTATACTCAATAAATATTTTCAAAAGG

4889/5332
FIGURE 4249A

ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGCACGGGATGCGGGAGGCGCC
TCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATTCATTCCCTCAGGAGAAAAAATTCTGGTCT
AAATTGTGGGACTCAAAGGAGACTAGACTCTAATAGGATTGGTAGAAGAAATTACAGTTCACCACCTCCCTGTCA
CCTTTCAGGCAGGTCCCTTATGATGAAATCTCTGCTGTTTCATCAGCATAGTTATCATCCGTCAGGAAGCAAACC
TAAGAGTCAGCAGACGTCTTTCCAGTCCTCTCCTTGTAAATAAATCGCCCAAGAGCCATGGCCTTCAGAATCAACC
TTGGCAGAAATTGAGGAATGAGAAGCACCATATCAGAGTCAAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGA
TACAGCTGGATTAGAGAGCTCGACCAGATCAGAGAGTGGGACAGACCTCAGAGAGCATAGTCCTTCTGAGAGTGA
GAAGGAAGTTGTGGGTGCAGATCCCAGGGGAGCAAAACCCAAAAAAGCAACACAGTTTGTATACAGCTATGGTAG
AGGACCAAAAGTCAAGGGGAAACTCAAATGTGAATGGAGTAACCGAACAACCTCCAAAACCGGAGGATGCTGGACC
CGAAAGTACCAAACCTGTGGGGGTTTTCCACCCTGACTCTTCAGAGGCATCCTCTAGAAAAGGAGTATTGGATGG
GTATGGAGCCAGACGAAATGAGCAGAGAAGATACCCACAGAAAAGGCCTCCCTGGGAAGTGGAGGGGGCCAGGCC
ACGACCAGGCAGAAATCCACCAAAACAGGAGGGCCACCGACATACAAACGCAGGACACAGAAACAACATGGGCC
CATTCCAAAGGATGACCTCAATGAAAGACCAGCAAAATCTACCTGTGACAGTGAGAACTTGGCAGTCATCAACAA
GTCTTCCAGGAGGGTTGACCAAGAGAAATGCACTGTACGGAGGCAGGATCCTCAAGTAGTATCTCCTTTCTCCCG
AGGCAAAACAGAACCATGTGCTAAAGAATGTGGAAACGCACACAGGTTCTCTAATTGAACAATAACAACAGAAAA
ATACGAGTGCATGGTGTGCTGTGAATTGGTTTCGTGTACGGCCCCAGTGTGGAGTTGTGAGAGCTGTTACCATGT
GTTTCATTTGAACTGCATAAAGAAATGGGCAAGGTCTCCAGCATCTCAAGCAGATGGCCAGAGTGGTTGGAGGTG
CCCTGCTGTGAGAATGTTTCTGCACATGTTTCTAATACCTACACTTGTCTGTGGCAAGGTAAAGAATCCTGA
GTGGAGCAGAAATGAAATTCACATAGCTGTGGTGAGGTTTGTAGAAAGAAACAGCCTGGCCAGGACTGCCCACA
TTCTGTAACTTCTCTGCCATCCAGGACCCTGCCACCCTGCCCTGCCCTTATGACAAAAACATGTGAATGTGG
ACGAACCAGGCACACAGTTCGCTGTGGTCAGGCTGTCTCAGTCCACTGTTCTAACCCATGTGAGAATATTTTGA
CTGTGGTCAGCACCAGTGTGCTGAGCTGTGCCATGGGGGTGAGTCCAGCCTTGCAGATCATTGTAACAGGT
ATGCTATTGCGGCAGCACCTCCCGAGATGTGTTATGTGGAACCGATGTAGGAAAGTCTGATGGATTGTTGGGATT
CAGCTGTTTAAAGATATGTGGCAAGGACTTGAATGCGGTAAACATACATGTTGCAAGTGTGCCACCCTCAGCC
CTGCCAGCATGCCACGGCTCCCCAGCTGGTGCCTGTGGCCAACTCCTCTCAGCCAATTGCT
AGAATTGGAAGTAGTAGTCGGAACATGCATGGACCTGTGCCTTCATGTGGAAAAGTGTGCGGCAAGCCTCT
GCCTGTGGTTCTTAGATTTTATTTCATACCTGTGAAAAGCTCTGCCATGAAGGAGACTGTGGACCATGCTCTCG
CACATCAGTTATTTTCTGCAGATGCTCTTTTCAAGACAAAGGAGCTTCCATGTACCAGTCTCAAAAGTGAAGATGC
TACATTTATGTGTGACAAGCGGTGTAACAAGAAACGGTTGTGTGGACGGCATAAATGTAATGAGATATGCTGTGT
GGATAAGGAGCACAAGTGTCTTTGATTTGTGGGAGGAAACTCCGTTGTGGCCTTCATAGGTGTGAAGAACCTTG
TCATCGTGGAAACTGCCAGACATGCTGGCAAGCCAGTTTTGATGAATTAACCTGCCATTGTGGTGCATCAGTGAT
TTACCCTCCAGTTCCTGTGGTACTAGGCCCTGAATGTACCAAACTGCGCTAGAGTCCATGAGTGTGACCA
TCCAGTATATCATTCTTGTCTATAGTGAGGAGAAGTGTCCCCCTTGCACTTTCTTAACCTCAGAAGTGGTGCATGGG
CAAGCATGAGTTTCGGAGCAACATCCCCTGTACCTGGTTGATATCTCTTGGGATTACCCTGCAGTGCCACGCT
ACCATGTGGGATGCACAAATGTCAGAGACTCTGTCAAAAGGGGAGTGTCTTGTGGATGAGCCCTGCAAGCAGCC
CTGCACCACCCCAAGAGCTGACTGTGGTCACCCGTGTATGGCACCCTGCCATACCAGCTCACCTGCCCTGTGAC
TGCTGTAAAGCTAAGGTAGAGCTACAGTGTGAATGTGGACGAAGAAAAGAGATGGTGATTGCTCTGAAGCATC
TAGTACTTATCAAAGAATAGCTGCAATCTCCATGGCCTCTAAGATAACAGACATGCAGCTTGGAGGTTTCACTGGA
GATCAGCAAGTTAATTACCAAAAAGGAAGTTCATCAAGCCAGGCTGGAGTGTGATGAGGAGTGTTCAGCCTTGA
AAGGAAAAAGAGATTAGCAGAGGCATTTTATATCAGTGAGGATTCTGATCCTTTCAATATACGTTCTTCAGGGTC
AAAATTCAGTGATAGTTTGAAGAAGATGCCAGGAAGGACTTAAAGTTTGTGAGTACGTTGAGAAGGAAATGGA
AACCCTCGTGGAGGCCGTGAATAAGGGAAAGATAGTAAGAAAAGCCACAGCTTCCCTCCCATGAACAGAGACCA
CCGCCGGATCATCCATGACTTGGCCCAAGTTTATGGCCTGGAGAGCGTGAGCTATGACAGTGAACCGAAGCGCAA
TGTTGGTGGTCACTGCCATCAGGGGGAAGTCCGTTTGTCTCTACCACGCTGACAGGTGTGCTTGAAAGGGAAAT
GCAGGCACGGCCTCCACCACCGATTCTCATCAGACATCAGTCAGACAAGAATCCTGGGAGCAGTAATTTACA
GAAAAATAACCAAGGAGCCAATAATTGACTATTTTACGCTCCAGGACTAAGAAGATCATGATGCACTTAGATAAAA
GAATGATTAGGTATAGTGGAGACTTATTTGCCAGCAGATAAATCATGCCCGTTCCCTCTGCTGGCAGAAATCAC
AGTCTCACATACTGTCTTGTACTGACACATCCAAAGCATGAGTGTGTGAGAAATCCCTTGTCTATTCTGTCTGT

4890/5332

FIGURE 4249B

ATAAAGTGTTCATTATGACCAGATCTCTGATTGTATGGTCACTAGGTATGCAATCACGCATTCAAAGAGGCTCT
TTACACCATCACTGTGATTGCTCTGAGAGTTGAGGGACTATTGGGCTTTATTTGGACAAACCAAACCTTTTAGCCT
GAAACCAACCTTTATGCCACTAAGTCATAGCCTCAGTTGTCCCAGTTATTTGTCTCCTGAAAATGCCTGAAACAT
CAGACAGACATTGCTTGCTTTACCCAAACTGATCAAAATCTTTAGGAGCACAAATGAATTTTTTAGTCTGAAATA
CCAAATAATGAATTGGTATACCATATCCGGAATCACACATGTTATCTTAAACCCAGCCATCATACCTAAGTCTTT
TGCCAAAACCTCTCATAGGTATATCTAGCTGAACTTATTTGGCATTITTCATGTGATCAGTTCTAGACCTAGAA
GGGGGTCAGGCTGCTTTACAGAATTCTATTTCCCTTAAGTCCCTGGCACTTCTCATACCACATCACTGAACCTGTT
CAGTAACAATCAGTTTGGCCGTCCCCATGATGGTAGGAAATATAGAGAGCAAGTTCTTCTGCCAGGGTCACACT
GTGGTCTCTGAACTGACCAGTATATCCCTAACTCCTCTTTGATAGAGAAAGAGTCTCAAATGGACAACCTGTCTG
TGTIGCTTTCCCTAGGCCTTCAGCAGCCTATTGGCTCTCCCTGCCTCTGAGCTCTGGACTCTGTTTGAATATTCC
AAGTAGTATATGGACAGTCCAGGGCTTATGCCCAGCAGCCCACTGGAGGCATTCTTCAGGCTCCTTTAAGGCAGG
TGCATTGATAGTTCCATTAGTGTGACCCTTGCAATTGGCACCCCTCCAGCCTGGAGGCCAGGCTTCCAGCAACTTC
CTTCTGCCCTAGAGCAAGCCATGAGCCCCAGAGCAGTAGCAGGAGACTTGAGAAGTAGAGTGACAAAAACAAGCA
CTTAATTAAATTATAAAATTTAACTTT

4891/5332
FIGURE 4250

TGCTCGCTGCGCCACCGCCTCCCGCCACCCCTGCCCCGCCGACAGCGCCGCGCCTGCCCCGCCATGGGTCGACA
GAAGGAGCTGGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTG
CCTGGGGACCCCTCATCTGGTGATGTTTGGCTGTGGCTCCGTGGCCAGGTTGTGCTCAGCCGGGGCACCCACGG
TGGTTTCCTCACCATCAACCTGGCCTTTGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGG
GGCCACCTGAACCCTGCCGTGACCTTTGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGCTGCCCATCTA
CACCTGGCACAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCA
CTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACA
CTTGATATGATCAATGGCTTCTTTGACCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGT
TGACCCCTACAACAACCCCGTCCCCGAGGCCTGGAGGCCTTCACCGTGGGCCTGGTGGTCTGGTCATTGGCAC
CTCCATGGGCTTCAACTCCGGCTATGCCGTCAACCTGCCCCGGGACTTTGGCCCCCGCCTTTTACAGCCCTTGC
GGGCTGGGGCTCTGCAGTCTTCACGACCGGCCAGCATTGGTGGTGGGTGCCCATCGTGTCCCCACTCCTGGGCTC
CATTGCGGGTGTCTTCGTGTACCAGCTGATGATCGGCTGCCACCTGGAGCAGCCCCACCCCTCCAACGAGGAAGA
GAATGTGAAGCTGGCCCATGTGAAGCACAAGGAGCAGATCTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCC
CTGGCCTTGAGCATCCACTGACTGTCCAAGGGCCACTCCCAAGAAGCCCCCTTACGATCCACCCTTTAGGCTA
AGGAGCTCCCTATCTACCCTCACCCACGAGACAGCCCTTCAAGGATTTCCACTGGACCTTGCCCAAATAGCACC
TTAGGCCACTGCCCCTAAGCTGGGGTGGAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGA
ATGGGCAGCAGGTATGTGTGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGG
GGGGGTTCAGATATTCAGGGCAAGGGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCCAGAGACAGGG
GAAGGCAGCCTGTCCATCTGTGCATAAGGAGAGGAAAGTTCAGGGTGTGTATGTTTCAGGGGCTTCACATGGAG
GAGCTGCAGATAGATATGTGTTTCT

4892/5332
FIGURE 4251A

CTGAAGTGCGGGAGAGTGCTGGACCCCTGAGTGATGGGGCCGGCGCCAGCTGGAGAGCAGCTTCGCGGAGCGACTG
GAGAGCCAGAGGTGATGGAACAGCCCTGGAAGGCACAGGCAAAGAGGGGAAGAAAGCATCCTCCAGGAAGCGTA
CATTGGCTGAACCTCCAGCGAAGGGCCTCCTGCAGCCAGTGAAGCTCAGCAGGGCAGAACTGTACAAGGAGCCTA
CCAATGAGGAGCTTAATCGCCTTCGGGAGACTGAGATCTTGTTCCACTCCAGCTTGCTTCGTTTACAGGTAGAGG
AGCTACTAAAGGAAGTAAGGCTGTCAGAGAAGAAGAAGGATCGGATTGATGCCTTCCTACGGGAGGTCAACCAGC
GGGTTGTGAGGGTGCCCTCAGTCCCTGAGACAGAGCTCACTGACCAGGCATGGCTCCCAGCTGGGGTTTCGAGTGC
CCCTCCACCAAGTGCCCTATGCCGTGAAGGGCTGTTTCCGCTTCCTGCCCCAGCCCAGGTTACTGTTGTGGGCA
GCTACCTTCTGGGCACCTGCATCCGACCAGACATCAATGTGGATGTGGCACTGACCATGCCCAGGGAAATCCTAC
AGGACAAGGACGGGCTGAACCAGCGCTACTTCCGCAAGCGTGCCCTCTACCTGGCCCCTTGCTCACCACCTGG
CCCAGGACCCCCCTCTTTGGCAGTGTTGCTTCTCCTACACAAATGGCTGCCACCTGAAACCCCTCACTGTTGCTGC
GGCCGCGTGGAAGGATGAGCGCCTGGTCACTGTACGTCTGCATCCGTGCCCTCCACCTGACTTCTTCCGCCCGT
GCCGCTTGCTGCCAACCAAGAACAAATGTGCGCTCTGCCTGGTACCGAGGGCAGAGTCTGTCAGGGGATGGTAGCC
CAGAGCCTCCTACCCCCCGCTATAACACATGGGTCTGCAAGATACAGTTCTCGAGTCCCATTTGCAGCTGCTGT
CAACCATTCTGAGTTCAGCCCAGGGCCTGAAGGATGGCGTGGCACTTCTGAAGGTCTGGCTGCGGCAGCGGGAGC
TGGACAAGGGCCAGGGTGGGTTTACTGGGTTTCCTTGCTCTCCATGCTGGTTGTCTTCCTTGTTGTCTACACGCAAGA
TCCATACCACCATGAGTGGCTACCAGGTCTTGAGAAGTGTCTTGCAAGTTTCTGGCCACTACAGACCTGACAGTCA
ACGGGATCAGTTTATGCTCTCAGCTCAGATCCCTCTTTGCCGGCCCTGGCTGACTTCCACCAGGCCTTCTCCGTTG
TCTTCTTGATTCTCAGGCCATCTCAACCTCTGTGCTGATGTCACTGCCTCTACTTACCACCAGGTACAGCATG
AGGCACGGCTGTCTATGATGTTGCTGGACAGCAGAGCTGACGACGGGTTCCACCTGCTGTTGATGACTCCCAAAC
CCATGATCCGGGCTTTTGACCATGTCTGCTCATCTCCGTCCACTGAGTCGCTGCAGGCAGCGTGCCACCGGCTGA
AGCTCTGGCCAGAGCTGCAGGACAATGGTGGGGACTATGTCTCAGCTGCTTTGGGGCCCCCTGACCACCTCCTGG
AGCAGGGCCTGGGGGCTCGGCTGAACCTGCTGGCTCACTCTCGACCCCCAGTCCCAGAGTGGGACATCAGCCAAG
ATCCACCAAAGCACAAAGACTCTGGGACCCCTGACCCTGGGACTCCTTCTCCGGCCTGAGGGACTGACCAGCGTCC
TTGAGCTGGGTCCAGAGGCAGACCAGCCTGAGGCTGCTAAATTCCGCCAGTCTGAGGGATCCCGCTCGGAGCTTC
GGCGTTTCCAGGACGGAGCCATTCCGGAAGCTGTGGTCTGGGAGGCAGCCTCTATGTCCCAGAAGCGCCTTATTC
CCCACCAGGTGGTCACCCACCTCTTGGCACTCCATGCTGACATCCAGAAACCTGTGTCCACTATGTGGGGGGCC
CCCTGGATGCACTTATCCAAGGCCTGAAAGAGACCTCCAGCACAGGTGAGGAGGCCCTGGTAGCGGCGGTACGTT
GCTACGACGACCTCAGTCGCTACTGTGGGGCTAGAGGGTCTCCCACTGACCGTGTCTGCTGTTTCAGGGAGCTC
ACCCAGTGCTGCGCTACACAGAGGTGTTCCCACTCCAGCTCCGCTCCAGCCTTCTCCTTCTATGAGACTCTGC
GGGAGCGGTCTCAGTGTCTGCCCCGGCTCGATAAGCCCTGTCCGGCCTACGTGGAGCCCATGACCGTGGTTTGTG
ACCTGGAGGGCAGTGCCAGTGCCACAGGACGCTGAGGCCGTGACGCGGTCCGAGCTGCCTTCCAGCTGCGCC
TGGCAGAGCTGTTGACACAACAGCATGGTCTGCAGTGCCGTGCCACTGCCACGCACACGGATGTCCTTAAGGATG
GATTTGTGTTTTCGGATTGCGGTGGCCTATCAGCGGGAGCCCCAGATCCTGAAGGAGGTGAGAGCCCAGAGGGGA
TGATCTCGCTGAGGGACACAGCTGCCTCCCTCCGCTTGAGAGAGACACAAGGCAGTTGCCACTGCTCACCAGTG
CCCTGCACGGACTGCAGCAGCAGCACCAGCCTTCTCTGGTGTGGCACGGCTGGCCAAGCGGTGGGTGCGTGCCC
AGCTTCTTGGTGAGGGTTTCGCTGATGAGAGCCTGGATCTGGTGGCCGCTGCCCTTTTCTGACCCCTGAGCCCT
TCACCCCTCCGAGTTCCCCCAGGTTGGCTTCCTTCGATTCTTTTCTTGGTATCAACGTTTGATTGGAAGAACA
ACCCCTCTTTGTCAACCTCAATAATGAGCTCACTGTGGAGGAGCAGGTGGAGATCCGAGTGCGTTCCTGGCAG
CTCGGGCACAGCTCCCCGTCATGGTCATTGTTACCCCCAAGACCGCAAAACTCTGTGTGGACACAGGATGGAC
CCTCAGCCCAGATCCTGCAGCAGCTTGTGGTCTGGCAGCTGAAGCCCTGCCCATGTTAGAGAAGCAGCTCATGG
ATCCCCGGGGACCTGGGGACATCAGGACAGTGTTCCGGCCGCCCTTGGACATTTACGACGTGCTGATTGCGCTGT
CTCCTCGCCATATCCCGCGCACCGCCAGGCTGTGGACTCGCCAGCTGCCTCCTTCTGCCCCGGCCTGCTCAGCC
AGCCGGGGCCCTCATCCCTGATGCCGTGCTGGGCTATGATCCTCCTCAGCTCTATCTGACGCAGCTCAGGGAGG
CCTTTGGGGATCTGGCCCTTTTCTTCTATGACCAGCATGGTGGAGAGGTGATTGGTGTCTCTGGAAGCCCACCA
GCTTCCAGCCGACGCCCTTCAAGGCCTCCAGCACAAAGGGGCGCATGGTGTCTCGAGGTGGGGAGCTAGTAA
TGGTGCCCAATGTTGAAGCAATCCTGGAGGACTTTGCTGTGCTGGGTGAAGGCCTGGTGCAGACTGTGGAGGCC
GAAGTGAGAGGTGGACTGTGATGCCAGCTCTGGAGCAAGCTGTAGACGACAGCAGGACATTGGACCTCTAGA
GCAAGATGTCAAGTAGGATGACCTCCACCCCTCCTTGGACATGAATCCTCCATGGAGGGCCTGCTGGCTGAACATGC

4893/5332
FIGURE 4251B

TGAATCATCTCCAACAAAACCCAGCCCCAACTTTCTCTCTGATGCTCCAGCATTGGGGCAGGGGCATGGTGGCCC
ATGTAGTCTCCTGGGCCTCACCATCCCAGAAGAGGAGTGGGAGCCAGCTCAGAGAAGGAACTGAACCCAGGAGAT
CCATCCACCTATTAGCCCTGGGCCTGGACCTCCCTGCGATTTCCTTCTTAGTCTTCTTCCAGAAACAG
AGAAGGGGATGTGTGCCTGGGAGAGGCTCTGTCTCCTTCCTGCTGCCAGGACCTGTGCCTAGACTTAGCATGCCC
TTCAGTGCAGTGTGAGGCCTTTAGATGGGACCCAGCGAAAATGTGGCCCTTCTGAGTCACATCACCGACACTGAG
CAGTGGAAAGGGGCTATATGTGTATGAATAGACCACATTGAAGGAGCACAATGCCCTCCTGTGTTGATGCCACTT
CCCAGGGTGGAGACAGTGGAAAAGAACCAGGACAGGAAAGGATTGGGTAGGTGAAGGGGTGAGGGGACTGGTAG
TCACCCAATCTTGGAGAGGTGCAAAAAGCACTGGGGGCTACCCGTTAGCTGCATCTGCCCTGGCTGTTTGCCCGT
TCATGTACAAACTGCCACTACTATGTACCTGCAGTGGGGTTGCAGAGATGGGGGAGACTCAAGTCTTACTCCCC
AGGAGCTCCCAGGGCCCAAGGAGGAGAATGCTGCCTCCTTTCAGTCTGGTCTACACCCACTTTCCTGGTAGCCTCT
CTGCTTCCTGTAATTCTGGCTGTTTTTCCAGACTCAGCTCAAATAGTGCCCTCCTTAAGCCCATCCCTCGCCCC
CAGCCTGAGGTGATCTTTCCTCCTCTGAACTATTAGAGCAGTTACTGTCTGTTTCAAGTTCGTTTGGCAGGCACAC
ACAGTGGCATAAATTCTATTGTTTTGAACTCTGATTTAAAATTAAATTGCAGCTGGGCGTGGTGGCTTATGCTTG
TAATCCCAACACTTAGGGAGTCAGGAGAATCACTTGAGCTCAGGAGTTCTAGACCAATCTGGGCAACAGAGAGAC
CCCATCTCTTTTAAATAAAAAGTTAAATTGCTTAATTTCCCCGTATTCTGGCCTGTCTGCCCTTTTACATAA
TTTTAACCTGGTTTCTTGTATGTAAACTCCTTGAGGGCAAGAACATGTTTGAACATAG

4894/5332
FIGURE 4252

ACACTCTACCACCAATGAATCCATTCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCTTTGACGATGA
TGACAAGATTGTTGGGGGCTACACCTGTGAGGAGAATTCTCTCCCTACCAGGTGTCCCTGAATTCTGGCTCCCA
CTTCTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAGGT
GAGACTGGGAGAGCACAAATCAAAGTCCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCATCCGCCA
CCCTAAATACAACAGGGACACTCTGGACAATGACATCATGCTGATCAAACCTCTCCTCACCTGCCGTCATCAATGC
CCGCGTGTCCACCATCTCTCTGCCCACCACCCCTCCAGCTGCTGGCACTGAGTGCCTCATCTCCGGCTGGGGCAA
CACTCTGAGCTTTGGTGCTGACTACCCAGACGAGCTGAAGTGCTGGATGCTCCGGTGCTGACCCAGGCTGAGTG
TAAAGCCTCCTACCCTGGAAAGATTACCAACAGCATGTTCTGTGTGGGCTTCCTTGAGGGAGGCAAGGATTCTG
CCAGCGTGACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTCCAAGGAGTTGTCTCCTGGGGCCATGGCTGTGC
CTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAGGACACCATCGCTGCCAA
CAGCTAAAGCCCCCGGTCCCTCTGCAGTCTCTATACCAATAAAGTGGCCCTGCTCTC

[illegible]

4896/5332
FIGURE 4254A

ATTTTCTATTTTGTACATACATTATTTTGTATATACTGTATATGATGACTTCAGTGAGCAGTGACCATTGTGCGAG
GTGCTCGGGAAAAACACAGATTTTCAGCAGCACAAATCAACGCAACCACAGAAACAAGTGGTACAGGCAACAGCTG
AACAGATGCGTCTCGCTCAAGTGATCTTTGATAAGAATGATTCAGATTTTGAAGCTAAAGTTAAGCAGCTTATGG
AAGTGACAGGGAAAAATCAGGATGAATGCATAGTGGCCCTACATGATTGTAATGGAGATGTGAACAAAGCTATCA
ATATATTGCTGGAAGGGAATTCAGACACAACCTTCATGGGAGACTGTAGGGGTGAAGAAAAAGAATTTTGCAAAAG
AAAATTCAGAAAACAAAGAGAATAGAGAGAAGAAAAGCGAGAAAGAATCGAGTCGTGGACGTGGAAACAACAACC
GGAAAGGAAGAGCGGCAATCGTGGCAGAGAATTTAGAGGTGAAGAAAATGGAATTGATTGCAATCAAGTGGACA
AACCTTCAGATCGTGGCAAGCGAGCCCGGGGTAGAGGATTTGGACGTGGCAGAGGGAGAGGGGCAGGAAGGTTCT
CAACCCAAGGCATGGGGACATTAAATCCTGCAGACTATTTCAGATTCTACATCTACAGATGTGTGTGGGACAAAGC
TAGTAGTTTGGGAAGCTGCTCAGAATGGTGCAGATGAGGGAACTGAACTGGCATCAAATACTCACAAACATAGCTC
AGGATCTGTCAAACAAAAGTTCTTATGGACTCAAAGGGGCTTGGAAGAATTCTGTGGAAGAGTGGACAACAGAAG
ACTGGACTGAAGATCTTTCTGAAACAAAGGTCTTCACCTGCCTCATCTGCTCCAGCAGAGAATCACATCTTACCTG
GGCAAAGCATTGATCTGGTAGCCTTGCTCCAGAAGCCTGTTCCTCACAGTCAAGCCTCAGAAGCCAACCTCCTTTG
AACTTCCCAACAGCAGGGCTTTGGCCAAGCCCTTGCTTTCACAAATTCGCAACACAACAATCAGATGGCACCAG
GGACTGGCAGCTCCACTGCCGTCAACTCCTGTTCCTCCTCAGAGCCTGTATCCGTCTTGGCTCAGGATTTGGAG
AGCTTGACACCACCAAAAATGGCAAACATCACCAGCTCCAGATTTTGGACCAGTTGAAAGCTCCGAGTTTGGGCC
AGTTTACCACCACCCCAAGTACACAGCAGAATAGTACAAGTCACCCCTACAATACTACTTCTTGGGACCTCAAGC
CCCCAACATCCCAGTCCCTCAGTCCCTCAGTCACTTGAAGTCAAATCTCAACCTGAGCCATCCCCAGTTCTTAGCC
AGTTGAGCCAGCGACAACAGCACCAGAGCCAGGCAGTCACTGTTCCTCCTCTGGTTTGGAGTCCCTTCTCTCCC
AGGCAAACTTCGAGAATCAACACCTGGAGACAGTCCCTCCACTGTGAACAAGCTTTTGCAGCTCCCAGCACGA
CCATTGAAAAATATCTCTGTGTCTGTCCACCAGCCACAGCCCAACACATCAAACCTTGCTAAGCGCGGATACCCC
CAGCTTCTAAGATCCCAGCTTCTGCAGTGGAAATGCCTGGTTCAGCAGATGTACAGGATTAATGTGCAGTTTG
GGGCTCTGGAATTTGGGTGAGAATCTCTCTCTCTGAATTTGGATCAGCTCCAAGCAGTGAATAAGTAAATCAGA
TTCCCATCAGCTTGATTCGAAGTCTTTAAGTGAGCTTTGAATACATCTTTATCAATGACCAGTGCAGTACAGA
ACTCCACATATACAACCTCCGTCAATTACCTCCTGCAGTCTGACAAGCTCATCACTGAATTCTGTAGTCCAGTAG
CAATGTCTTCTCTTATGACCAGAGTTCTGTGCATAACAGGATCCCATACCAAAGCCCTGTGAGTTCATCAGAGT
CAGCTCCAGGAACCATCATGAATGGACATGGTGGTGGTGAAGTCAGCAGACACTAGACACTCCAAAGACAACAG
GCCCTCCCTCTGCCCTCCCGTCTGTGAGCTCCCTGCCAGCACCACCTCCTGCACTGCACCTTCTGCCGTCCACAT
CCCAGCACACTGGCGACCTGACTAGCAGCCCTCTCTCTCAGCTTAGCAGTTCGCTCTCCAGCCACCAGAGCAGCC
TCTCTGCACATGCAGCCCTCTCCTCGAGCACGTACACACACATGCCAGTGTGGAGAGCGCCTCTTCCACCAGT
CCTCAGCCACCTTCTCCACGGCAGCGACCTCCGTCTCAAGTTCCGCATCCTCAGGCGCCAGCCTGTCCAGTAGCA
TGAACACCGCGAAGCAGCCTCTGTCTGGGTGGGACCCCGCGAGTGCATCCAGCAGCAGTAGCAGGGCCGCGCCCT
TGGTGACCTCAGGCAAAGCACCACCAACTTACCTCAGGGGGTGCCTCCCTGTCTGCACAACCAGTACCTCGTAG
GTCCCGGAGGACTGCTTCTGCCTACCCGATCTATGGCTATGACGAGCTCCAGATGCTGCAGTACAGGCTGCCAG
TGGACTACTATGGAATTCCTTTGCTGCACCCACAGCGCTTGCCAGCCGAGATGGGAGCCTAGCTAATAATCCAT
ATCCAGGTGATGTACAAAGTTTGGCCGTGGGACTCTGCATCCCCTGCACCCGCTACCACACCAGCTCAGCCAC
AGCAGAGCCAATCAGAGCCACCACACAGCCAGCAGCCCTTCGTGAATCCTGCACTGCCACCTGGCTATAGCT
ACACTGGTCTTCCCTACTACACAGGCATGCCAGTGCCTTCCAGTATGGCCCCACCATGTTTGTCCCTCCAGCCT
CAGCCAAGCAACATGGGGTGAACCTCAGCACTCCACACCTCCCTTCCAGCAGGCCAGTGGTTATGGCCAGCACG
GCTACAGTACAGGTATGACGACCTGACCCAGGGGACAGCAGCAGGAGACTACTCAAAGGTGGCTATGCTGGAT
CATCGCAGGCACCAACAAGTCTGCAGGTTCTGGGCCTGGCAAAGGAGTATCAGTGTCTTCAAGCACCAGTGGTC
TACCTGATATGACTGGTCTGTCTACAATAAGACACAGACTTTTGACAAGCAGGGATTTTCATGCAGGGACGCCTC
CACCTTTCAGCTGCCCTCGGTCTTGGGCTCCACTGGGCCCCCTGGCCTCGGGAGCGGCCCTGGCTATGCACCCC
CACCATTCTACACATCTTGCCAGCCACCAGCAGCCCCACTCACAGCTGCTGCACCACCACCTTCCGCAGGATG
CACAGAGTGGCTCGGGTCAGCGCAGCCAGCCAGCTCCCTGCAGCCCCAAGTCTCAAGCCTCCAAACCTGCCTACG
GCAACTCTCCATACTGGACAAACTAAACCCAGAAGAGAGGGGTGGGCTGGGGCAAGGCTTATCCTGGGCAGGAGA
GAACACACGAGCACGTATTTGGGAGCCAGTGGCCCTTTCCTAGAATTCCCGACATGTGTGAGCCATGCCTCTGTG
GGGAGTCTGCCTCCAGACTGGCTACTGTATGTAATGTATTATGTATGTATTTGTAAATGTGATAGAAGTCTGG

4897/5332
FIGURE 4254B

GGGGGAGTTGGGGGATGGCGGCAGATGTTAGCCAGGTCTGCCCTCCCCATTCAAGCCCCCTTCTCCACTGTAGCAA
AATAAGCACCCCCACCCCATCTGCCTTCAGGTCTTCTTCACAGCCTGCACTGCCCAGTGGGCCACTAGGGGCAGT
CTCTGGAAGGGCTGGTTCAAGGCTGTTTGGGTATAGGGGTCAGGTACCAATGAAGAATCACGACTTGTCTCACTC
CTTTGGAAATTGTTTTCTTTCCTGTGTAATTACTTCATACCTCTGTTTTTGAGAACTGTTCCGTTTGTCACTG
TCATGGTCTCCTTCCACCAAATCTTCATCTGGGAATAGCAGCGGTATCCCTCCACCCAAGTATGGCCACCTGTTT
GTCTTCATATAGAACAGGGGCTTCTGGTCTGGTCATGTCCCTAGAGACTTACTAGAGACTGGCTGACCATG

4898/5332
FIGURE 4255

TGAAATCTAAAGGGAATGGTGAAGTTGCACCGTAAGGGGAAGGTGACTGAGGAGCTGAAACTGACTGAGGGGCT
GAAGCATTTTCGGACAGGAGAAAGGATCAGGAGGAGACAGAGCGGAGAATGAGCCTCAGGGCTACCCAGCGTTTG
GCTGGGATCACTCGCTTCAAAAAGGAAAAGACTTCCTCCTGTGAAGAGATCCTTAGTATACTACTTGAAGAACC
GGGAAGTCAGGCTACAGAATGAAACCAGCTACTCTCGAGTGTTCATGGTTATGCAGCACAGCAACTTCCCAGTC
TCCTGAAGGAGAGAGAGTTTTACCTTGGGACCTTAATAAAGTGTTCATCTCAGTGGTTGAATCATAGGCAAG
TGGTGTGTGGCACAAAATGCAACACGCTATTTGTCGTAGATGTCCAGACAAGCCAGATCACCAAGATCCCCATTC
TGAAAGACCGGGAGCCTGGAGGTGTGACCCAGCAGGGCTGTGGTATCCATGCCATCGAGCTGAATCCTTCTAGAA
CACTGCTAGCCACTGGAGGAGACAACCCCAACAGTCTTGCCATCTATCGACTACCTACGCTGGATCCTGTGTGTG
TAGGAGATGATGGACACAAGGACTGGATCTTTTCCATCGCATGGATCAGCGACACTATGGCAGTGTCTGGCTCAC
GTGATGGTTCTATGGGACTCTGGGAGGTGACAGATGATGTTTTGACCAAAAGTGATGCGAGACACAATGTGTAC
GGGTCCCTGTGTATGCACACATCACTCACAAGGCCTTAAAGGACATCCCCAAAGAAGACACAAACCTGACAAC
GCAAGGTTTCGGGCTCTGGCCTTCAACAACAAGAACAAGGAAGTGGGAGCAGTGTCTCTGGATGGCTACTTTTCATC
TCTGGAAGGCTGAAAATACACTATCTAAGCTCCTCTCCACCAAACTGCCATATTGCCGTGAGAATGTGTGTCTGG
CTTATGGTAGTGAATGGTCAGTTTATGCAGTGGGCTCCCAAGCTCATGTCTCCTTCTTGGATCCACGGCAGCCAT
CATACAACGTCAAGTCTGTCTGTTCCAGGGAGCGAGGCAGTGGAAATCCGGTCAGTGAGTTTCTACGAGCACATCA
TCACTGTGGGAACAGGGCAGGGCTCCCTGCTGTCTATGACATCCGAGCTCAGAGATTTCTGGAAGAGAGGCTCT
CAGCTTGTATGGGTCCAAGCCCAGACTAGCAGGGGAGAATCTGAACTAACCCTGGCAAAGGCTGGCTGAATC
ATGATGAAACCTGGAGGAATTACTTTTCAGACATTGACTTCTTCCCCAATGCTGTTTACACCCACTGCTACGACT
CGTCTGGAACGAACTCTTTGTGGCAGGAGGTCCCTCCCTTCAGGGCTCCATGGAACTATGCTGGGCTCTGGA
GTAAATGACAACCTCCCCAATGCAGAGATTACACTAAGTTCATTCTCAGTTTCTTCTTTGATTTTTT
TTTTCTAATTGTGTGAGGCTCTTGTGTTTTAGTGGGAACACCAAGTTTGCCTATAGTTTAGGCACTTAATAGG
AAGAAGCTCTGTACAGAAATCTGAAAGTGTGTTTTGCTTTTTGTTTTCCCTTTGGTAATCAAAATTTTACTATCT
TTTATTATTTCTGGCTTTTCAACCAACATTGTTGCTAATCCCTATTTTTCTTTAAGTGACACACATCTCCTGT
CTCTGGCTTCTTCAGGCTGAAATGACATAGCTCACCTTACTTCACTCTTGAGAGGTAGGGCTCCTTTATAATTA
CATGGTTGCTCTCAGACTTTCTGTGAAAGTTTGGGAGCTGTGTGTGCTGTGTGTGTGAGAGAGAGATCTTGT
CTGCGTGTGTGTGTGTGATCTTGTGTGCTGTAGGTACTGTGTGTCACTGAAATTACCTGGAGTGAGGATTACTT
GTAATTAATAATTTTATAAAAGAAACAACTTTATTACAGAGTCCAGCTTTGGGACTAGTCTGTATCTTGTTTTT
TAAGTCTAACAACACTGATAATAGGAAGTAAAAACAGAAAGGAAAGAAATTACCACTGGGAAATCTTTTTAGT
TAGATTGTAGGCTTCTTGGGGCTCCCATGCCAGGACTGCAAAGTGATCCAGCCCTACCTGTCTTCCACCTGTG
TGTCCTCCGCTGTGGGAAGTTGGTGTCACTTCCCTTCCACCTCACATCTGCTTAGCCAGTAGCCACACCCCTA
AAACATCAGACTCACCATCCAGGTGCAGCTCCAGAGGCTACAAAAGGCTTCATGGGACTTGAATCCCCATCCTAG
CTTCTCTCTCTTCCCTCAAGACCTGATCTGGTTTTAAGGGGCTGGAGCTGGGAGTCTCAAGTCTGCTAAGAT
TCACATCCATAGCCCCATGGCTTTGAGGAGAATCCTCTCTGCCATTCTTCCAATCTCCCCAGTGGGTTTTGCTA
TTATTTTCTAAATTGGGTAAAGTCTAAGAAGGTGGGGGTGAGCAGGGGTTTTATCTGTGTGTAGTGAGTGCTTCA
TGTGTGGAATATTCAATTTCTTACTGCAGTGGGACTTGGGGTTGAAGCCACCCCTCCTACTCTGTTGGCTTAGCC
CTGAGATGGTGACAGGCTGGCCTGCAGTCAGCATCATTGTGCATGTGACAGCATCAATGTGATTAGTAATTTGTC
TGTTCCCTCCCTTGAAGTGTCTGTTTAGTCTGAGGTTTTTAACTTGCAGGCAGCTGACTGTGATGTCCACTTGT
CCCTGATTTTTACACATCATGTCAAAGATAACAGCTGTTCCCACCCACCAGTTCCTCTAAGCACATACTCTGCTT
TTCTGTCAACATCCCATTTTGGGGAAAGGAAAAGTCATATTTATTCCTGCACCCAGTTTTTTAACTTGTTCTCC
CAGTTGTCCCCCTCTTCTCTGGGTGTAAGAAGGGAAATTGGAAAAAAATTATATATATATTCTCCTTTTAAATGG
TGGGGGGCTACTGGAGAGGAGAGACAGCAAGTCCACCCTAACTTGTTACACAGCACATACCACAGGTTCTGGAAT
TCTCATCTTCGAACCTAGAGAAATAGGTGCTATAAACAGGGAATTAAGCAAAATGCTGGATGCTATAGATCTTTT
AATGTCTTAATTTTTTTTTCTATTATTAACCTACAGGCTGTAGATTTCTTAGTTCTCACAGAACTTCTATCATTT
TAACTGACTTGTATATTTAAAAAAAATCTTCAGTAGGATGTTTTGTACTATTGCTAGACCCCTCTTCTGTAAT
GGGTAATGCGTTTTGATTGTTTGAATTTTCTGTTTTTAAAAATGTAGCACTTGACTTTTTGCCAAGGAAAAAAT
AAAAATTATTCCAGTGC

4899/5332
FIGURE 4256

ACTGGCGGTGGCTACGGTGACGGCCTGGCCCGGAGCGGGCAGAGTTGGAGGTGGTGGCGTTTCGCTCTCCCTAGGG
GCTGTCGGGAGCTCAGCGGGGACCGAGCCTGGGAGGCCGGCCGGTGCCAGCACCTTTTCGGCTTCTGAGACGGCGG
CAGCAGCGGCATTTCAGGTTCTAAATGGCTTCTAAGAAGTTGGGTGCAGATTTTCATGGGACTTTCAGTTACCTTG
ATGATGTCCCATTTAAGACAGGAGACAAATTCAAAACACCAGCTAAAGTTGGTCTACCTATTGGCTTCTCCTTGC
CTGATTGTTTGCAGGTTGTGAGAGAAGTACAGTATGACTTCTCTTTGGAAAAGAAAACCATTGAGTGGGCTGAAG
AGATTAAGAAAATCGAAGAAGCCGAGCGGGAAGCAGAGTGCAAAATTGCGGAAGCAGAAGCTAAAGTGAATTCTA
AGAGTGGCCAGAGGGCGATAGCAAAATGAGCTTCTCAAGACTCACAGTACAGCCACAATGCCACCTCCTATTA
ACCCCATCCTCGCCAGCTTGCAGCACAAACAGCATCCTCACACCAACTCGGGTCAGCAGTAGTGCCACGAAACAGA
AAGTTCTCAGCCCACCTCACATAAAGGCGGATTTCAATCTTGCTGACTTTGAGTGTGAAGAAGACCCATTTGATA
ATCTGGAGTTAAAAACTATTGATGAGAAGGAAGAGCTGAGAAATATTCTGGTAGGAACCACTGGACCCATTATGG
CTCAGTTATTGGACAATAAATTGCCAGGGGAGGCTCTGGGTCTGTGTTACAGGATGAGGAGGTCTTGCCATCCT
TGGAACGGGCAACCCTAGATTTCAAGCCTCTTCATAAAACCAATGGCTTTATAACCTTACCACAGTTGGGCAACT
GTGAAAAGATGTCACTGTCTTCCAAAGTGTCCTCCCCCTATACCTGCAGTAAGCAATATCAAAATCCCTGTCTT
TCCCCAACTTGACTCTGATGACAGCAATCAGAAGACAGCCAAGCTGGCGAGCACCTTCCATAGCACATCCTGCC
TCCGCAATGGCAGGTTCCAGAATTCCCTAAAGCCTTCCACCCAAAGCAGTGCCAGTGAGCTCAATGGGCATCACA
CTCTTGGGCTTTTCAGCTTTGAACTTGGACAGTGGCAGAGATGCCAGCCCTGACATCCTCCCAGATGCCTTCCC
TCTCTGTTTTGTCTGTGTGCACAGAGGAATCATCACCTCCAAATACTGGTCCCACGGTCACCCCTCCTAATTTCT
CAGTGTCAACAAGTGCCCAACATGCCAGCTGTCCCCAGGCCTATTCTGAACTGCAGATGCTGTCCCCAGCGAGC
GGCAGTGTGTGGAGACGGTGGTCAACATGGGCTACTCGTACGAGTGTGTCTCAGAGCCATGAAGAAGAAAGGAG
AGAATATTGAGCAGATTCTCGACTATCTCTTTGCACATGGACAGCTTTGTGAGAAGGGCTTCGACCCTCTTTTAG
TGGAAGAGGCTCTGGAATGCACCAAGTGTTCAGAAGAAAAGATGATGGAGTTTCTTCAGTTAATGAGCAAATTTA
AGGAGATGGGCTTTGAGCTGAAAGACATTAAGGAAGTTTGTCTATTACACAACAATGACCAGGACAATGCTTTGG
AAGACCTCATGGCTCGGGCAGGAGCCAGCTGAGACCAGGCCCTGCCTAGGCCCTGCCGAGAACCACCATCCCTG
GGAGGCCCTGCAGAGCCCACCTGTGGGGAAAGAGAAGGGGCAGCTTCCGGATTTCTTTTGGGGGTTAGAAGGTC
AGGTGTGGAGACTGCTCGCCAGTCTCTGTGAGCCTAGGCCCTGAGCTGGGGAGGTGGGGAAGATTCCGGCATGTG
AGTGCCCCCAGAACTGTCCTGGCTCCTTCCGTATTAAACGCATTTGCATTTTGAGAAGTGTCTTCCCACCTCAG
CCCTCCGGAGAGACTACCCTAGTCTTTCTGGGGTGTTTATGTCTCAGCTGAAGCCTGGCCTAGTTGCTGAGAGG
GGCTGGGGAGATGGGGCGGGAGGGCCAGACTCAGTGCTGCTGTGGAGCTAGGTGCTTCCCCCTTCCCCTGAGACT
GGTGGACTGAACTCCAGTCAAGTTGAGTTCAAGTGAAAAGATTCTTCCAGGGTTTTATTTTTTCCCCTCCTAACAA
AGTCTCATAGTGTTAACTGTTCTGCAATATCTCTGAGGTGCAAAGAATGCACCTTTCCCTATGGGGCCAGAG
GTTTGCTTTTCTGCCAGGCAGTCACCATGCTTCCCTACCCAGCCTGTTTCTTTTGGCTTGGTTGGACCACAG
TCCTCTGCTACCCAGGGTTTTAGAGCCCTGCTCTAGGAAACAGTTTAAGAAATCATTGGCCCCCTTCCAGCACA
TTGAATGGGTAAAGCAGACAGGCCATGATTTAGTTGGCCAGCACTAACTCCACCTCTGTTCTCCTTGAACAGCTTC
CCCTCCAGCCCACTGCTTTAGGATGACACAATGAATAACACCTAGTCATAGAAATCAGTCTCTCTGGTTTGT
GTATTATGTTGTACATCATTAAAGATCTAAATACAAAGGATATACAGTCTTGAATCTAAAATAATTGCTAACTA
ACTATTTTGATTCTTCAGAGAGAACTACTAATAAAAAATCTAAAAGGT

4900/5332
FIGURE 4257

CAAGCGTAACCAGGCTCTTCTGATTGGCCGGTGTACTTCAGTTTCCGTCCAAGGICCGCCTCCTACCTCCTTCTG
CTTCGGTGCGTTTGTCTTCTGAGGATCTCCAGTGTACAACAAACACATGCCAGCCCTGTTTTACAGGGAGCCCTG
GAGGAGTTGGGATAGAGGCCACATTGACTGAGGGTAGTTGCCAGGGTCCTGCAGTTATACACAAAGTCCTTAGGA
TAAGACCATGGCCTTGAGAGCATGTGGCTTGATCATCTTCCGAAGATGCCTCATTCCCAAAGTGGACAACAATGC
AATTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTTCATCACTGGACTCCTCCCAAAGGCCATGTGGAACCAGG
AGAGGATGACTTGGAACAGCCCTGAGGGAGACCCAAGAGGAAGCAGGCATAGAAGCAGGCCAGCTGACCATTAT
TGAGGGGTTCAAAGGGAACCAATTATGTGGCCAGGAACAAGCCTAAAACAGTCATTTACTGGCTGGCGGAGGT
GAAGGACTATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCTGGGGCTGGAGGAGGCCTG
CCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAGTTTCTTTGCTCCATAGAGGCCTG
AGCTGACTGGAGCAGAGTCATTTGCTTCAGCAGGATCCTTGTGGGCCTTCTAAGATGAAGCCACCCTCAGGTCCA
GGGAAGGTTGTGCTGGTATTTGGCTCATGACAGCCAAGAGCAGATTTGTGAAATCGGCTCAACTCCCAGGTGAGA
GCAAGCAAAAATCTTGGCTGGGTGAAAAGGAAGGCAAAAGAGTAAAAATTAAAAAGGCCAGGCCCAGTAAGTGTA
CCTTGTACTTTATAAATAAACCTCAAGCAGCTC

4901/5332

FIGURE 4258

CAAGCGTAACCAGGCTCTTCTGATTGGCCGGTGTACTTCAGTTTCCGTCCAAGGTCCGCCTCCTACCTCCTTCTG
CTTCGGTGCCTTTGCTTCTGAGGATCTCCAGTGTCAACAACACATGCCAGCCCTGTTTTACAGGGAGCCCTG
GAGGAGTTGGGATAGAGGCCACATTGACTGAGGGTAGTTGCCAGGGTCCTGCAGTTATACACAAAGTCCTTAGGA
TAAGACCATGGCCCTTGAGAGCATGTGGCTTGATCATCTTCCGAAGATGCCTCATTCCCAAAGTGGACAACAATGC
AATTGAGTTTTTACTGCTGCAGGCATCAGATGGCATTTCATCACTGGACTCCTCCCAAAGGCCATGTGGAACCAGG
AGAGGATGACTTGGAACAGCCCTGAGGGAGACCAAGAGGAAGCAGGCATAGAAGCAGGCCAGCTGACCATTAT
TGAGGGGTTCAAAGGGAACCAATTATGTGGCCAGGAACAAGCCTAAACAGTCATTTACTGGCTGGCGGAGGT
GAAGGACTATGACGTGGAGATCCGCCTCTCCCATGAGCACCAAGCCTACCGCTGGCTGGGGCTGGAGGAGGCCTG
CCAGTTGGCTCAGTTCAAGGAGATGAAGGCAGCGCTCCAAGAAGGACACCAGTTTCTTTGCTCCATAGAGGCCCTG
AGCTGACTGGAGCAGAGTCATTTGCTTCAGCAGGATCCTTGTTGGGCCTTCTAAGATGAAGCCACCCTCAGGTCCA
GGGAAGGTTGTGCTGGTATTTGGCTCATGACAGCCAAGAGCAGATTTGTGAAATCGGCTCAACTCCCAGGTGAGA
GCAAGCAAAAATCTTGGCTGGGTGGAAAGGAAGGCAAAAGAGTAAAAATTAAAAAGGCCAGGCCCAGTAAGTGTA
CCTTGTACTTTATAAATAAACCTCAAGCAGCTC

4902/5332
FIGURE 4259

GCCGGAACCGGGCGGGCAGAGGGGCGCTCGTAGGGTTGGGGGACGCCTGTGGCTTGGCTGCAGCGCCGGCAAGA
CCCTGGAAGAGACCGTGGCTATGGAAACGGCCAAGGCTGTCTTGGAATGTCCTGAGCAGCCCTCCGAGTCGAGCC
TCTGCCCCCGAGTTTCTGAGTGACCTGGGTTGATATAGATTGACCTTGTGGGCAGCGAGAGTCACAGACAAGACA
GCAAGCAGGATGGAGCACTACCGGAAAGCTGGCTCTGTAGAGCTCCCAGCGCCTTCCCCAATGCCCCAGCTACCT
CCTGATACCCCTTGAGATGCGGGTCCGAGATGGCAGCAAAATTCGCAACCTGCTGGGGTTGGCTCTGGGTCGGTTG
GAGGGCGGCAGTGCTCGGCATGTAGTGTTCAGGTTCTGGCAGGGCTGCAGGAAAGGCTGTCAGCTGCGCTGAG
ATTGTCAAGCGGCGGGTCCCAGGCCTGCACCAGCTCACCAAGCTACGTTTCCTTCAGACTGAGGACAGCTGGGTC
CCAGCCTCACCTGACACAGGGCTAGACCCCTCACAGTGCGCCGCCATGTGCCTGCAGTGTGGGTGCTGCTCAGC
CGGACCCCTGGACCCCAATGAGTGTGGTTACCAACCCCAAGGAGCACCCCTGGCCTGGGTTCCATGCCCAGC
TCCAGCTGTGGCCCTCGTTCCCGAAGAAGGGCTCGAGACACCCGATCGTGAAGACCTGCTGAGCCAGCCTGTTCT
CCGGGCCTGAATGTCTGGGGTGCTTGTGCCTTTTCTGAGAAGCGTTGTGACTGCTCAACATCCCCATCAAGGTTT
GAGTCCACAAAAGTGGACCTCCCTATCATGCTTCCCCCTCCCTCTAGCATGTGGGAAGGGACTGCTGTGAAGAAT
GACAGATGTGGGGCCTCTGCCAAGTTCTGCATTGCTAAATAAGGGCTTCCTCTGCCT

4903/5332
FIGURE 4260

TGGGTCGGTAGTAGCGATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCCGAGTGGAAGAGCTGGAGCGCTG
GGTGACGGGCCGGGCGGGCGCGGGCTCACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGG
GAACATTTCCAGCAAGAGGGAGAGGGTGAAGATTCTCTACAAAAGATTGAAGATCTGATCAAGTACCTGGATCC
TGAGTACATCGACCGCATTGCCATACCTGATGCCTCTAAGCTGCAATTCATCCTAGCAGAGGAGCAGTTTATCCT
TTCCCAGGTTGCACTCCTGGAGCAGGTGAATGCCTTGGTGCCCATGCTGGACAGTGCTCACATCAAAGCCGTTCC
TGAGCATGCTGCCC GCCTGCAGCGCTTGGCCCAGATCCACATTAGCAGCAGGCTCCATGGGGAGTGGGAGTCCG
TGATGAGGCAGGAAGTTTAGTGGAAGATGTGGGCTTTGCCAGTTTCTTTCTGTGCTACACTTTGGCCCTACAGG
ACCAAGTGTGTGGAAATCACTGAGGAGTCCAAGGCTCTCCTGGAGGAATACAACAAGACTACAATGCTTCTCTCCA
AGCAATTCGTGCAGTGGGATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAGTGAT
AGCTGCTCCCCATCCCAAAGTGGGCCTGGGCAGTCAGGCTCCAGGGCCCTATGCCAACCTGCCTTTGTTACAAGG
CAGAGGAAGCTTTGTATTTATTGGCTTCAAGGCCACCTCTCTGTACTCTGGGCTCTAAAGTTGGAGGTCAGGTT
ACCTGAGGTTTGCAATTTGCAACACCCACCCTCCCCCAATCAGTGTTCTTATTTTCAGTGACAATAAACCATAGA
GATG

4904/5332
FIGURE 4261

CTCCGAGGCCGTGAGCGCAAAGCCTCAGGCCCCGGCTCCCTCCTGAGCTGCGCCGTGCCAGGCCGCCCGCCGGGA
TGAGTGGGCCGTGGGCCGGCGGTGGGCGTGGGCCGCGCTGCTCCTGGCTGTGCGAGCGGTGCTGACCCAGGTGCG
TCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTTCCAGCGCGAAGAGATAGCGCAGTTGGCGCGGCAGTACGCTG
GGCTGGACCACGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGGCGGCTGCACCCAGGCCACGTGCTGCCCG
ACGAGGAGCTGCAGTGGGTGTTTCGTGAATGCGGGTGGCTGGATGGGCGCCATGTGCCTTCTGCACGCCTCGCTGT
CCGAGTATGTGCTGCTCTTCGGCACCGCCTTGGGCTCCCGCGGCCACTCGGGGCGCTACTGGGCTGAGATCTCGG
ATACCATCATCTCTGGCACCTTCCACCAGTGGAGAGAGGGCACCACAAAAGTGAGGTCTTCTACCCAGGGGAGA
CGGTAGTACACGGGCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCAAACACATGGATGGTGGAGTACGGCCGGG
GCGTCATCCCATCCACCCTGGCCTTCGCGCTGGCCGACACTGTCTTCAGCACCCAGGACTTCCTCACCTCTTCT
ATACTCTTCGCTCCTATGCTCGGGGCTCCGGCTTGAGCTCACCACCTACCTCTTTGGCCAGGACCCTTGAGCAG
CCAGGCCTGAAGGAAGACCTGCGGATAGACAGGAGCGGGCAGGCCCGCACATATCCACTTGCTGGAGCCCATGTT
TACAGACAGGGACATACACCATGCAGATCCTGAGTTCTGCTGTATGAGCAGGGATATCCATGCTTATGTATCCA
AACACAGAGACCCATGGGAACAAATGAGACACATATAGATACTGAGACCTGTGTGTACAGTAGGACCATGCACTC
ACACCCATCTGGAGAGGGAGCCCCCGGTATACCAAGGGAGCCAGTTGTGTTTACAGACACACATCACAGCTTGAC
TCACTAACTGAGGCCTTTCCATAGCTCCACAGCTTCCACCTCCTCCCCACCAAACCGGGGTTCTAGAGTTAAGG
ATGGGGGAGGGTATTATACTGCCTCAGTCTGACTCCTCAACCCAGCAGCAATTTGAGGGGATGAGGGGAAGAGG
AGCTGCCTTTTGGAGGCCCCCTTACCTGCAGCTATGATGCCCTTCCCCTTCTCCCCTGTCTCACCATATGCCT
TATCCCCATTCTACTCCCCTGCTATGCAAGTGCCCTGTGGCTTGTCCCCAACCCCTCAGCAACAAAGCTCAGC
TGGGGAACGAGAGTAATTTGAAGAATGCTTGAAGTCAGCGTCTTCCATTCCAGAAAGACCCCCATTCTTCCTTTG
GGGTATGATGTGGAAGCTGGTTTCAGCCCAGGACCCACCACTGAGGAGAGGATCTAGACAGGTGGGCCTAATTC
CAAGGGGCCCTTCTGGCCTGGAGAAGGCCTTTTACACACACACAACACATACACACACACACACACACAT
ATCACAGTTTTTACACAGCCCCTGCTGCATTCTCTGTCCATCTGTCTGTTTCTATTAATAAAGATTTGTTGATCT
GTTCC

4905/5332
FIGURE 4262

TTTTCCAGCGGATCCCCGGTGGCCTCATGTCGCGCAGTGGAACCGATCCTCAGCAACGCCAGCAGGCGTCAGAG
GCGGACGCCGCGCAGCAGCAACCTTCCGGGCAAACGACCATCAGCATATCCGCTACAACCCGCTGCAGGATGAGTGG
GTGCTGGTGTCTCAGCTCACC GCATGAAGCGGGCCCTGGCAGGGTCAAGTGGAGCCCCAGCTTCTGAAGACAGTGGCC
CGCCATGACCCTCTCAACCCTCTGTGTCTGGGGCCATCCGAGCCAACGGAGAGGTGAATCCCCAGTACGATAGC
ACCTTCCTGTTTGACAACGACTTCCCAGCTCTGCAGCCTGATGCCCCCAGTCCAGGACCCAGTGATCATCCCCCTT
TTCCAAGCAAAGTCTGCTCGAGGAGTCTGTAAGGTTCATGTGCTTCCACCCCTGGTCCGATGTAACGCTGCCACTC
ATGTCGGTCCCTGAGATCCGGGCTGTTGTTGATGCATGGGCCTCAGTCACAGAGGAGCTGGGTGCCCAGTACCCCT
TGGGTGCAGATCTTTGAAAACAAAGGTGCCATGATGGGCTGTTCTAACCCCCACCCCACTGCCAGGTATGGGCC
AGCAGTTTCCTGCCAGATATTGCCAGCGTGAGGAGCGATCTCAGCAGGCCTATAAGAGTCAGCATGGAGAGCCC
CTGCTAATGGAGTACAGCCGCCAGGAGCTACTCAGGAAGGAACGTCTGGTCCTAACCAAGTGAGCACTGGTTAGTA
CTGGTCCCCTTCTGGGCAACATGGCCCTACCAGACACTGCTGCTGCCCCGTCGGCATGTGCGGCGGCTACCTGAG
CTGACCCCTGCTGAGCGTGATGATCTAGCCTCCATCATGAAGAAGCTCTTGACCAAGTATGACAACCTCTTTGAG
ACGTCCTTTCCCTACTCCATGGGCTGGCATGGGGCTCCACAGGATCAGAGGCTGGGGCCAACCTGGAACCATTGG
CAGCTGCACGCTCATTACTACCTCCGCTCCTGCGCTCTGCCACTGTCCGGAAATTCATGGTTGGCTACGAAATG
CTTGCTCAGGCTCAGAGGGACCTCACCCCTGAGCAGGCTGCAGAGAGACTAAGGGCACTTCCTGAGGTTCAATTAC
CACCTGGGGCAGAAGGACAGGGAGACAGCAACCATCGCCTTGACCACGCCGACCACAGGGCCTTGAATCCTTTTTT
GTTTTCAACAGTCTTGCTGAATTAAGCAGAAAGGGCCTTGAATCCTGGCCTGGAATTTGGGCAGATATAGCATT
ATAAACTGTGCATCTC

4906/5332
FIGURE 4263

CTTGCAGCTGCCCACCTCACCCCTCAGCTCTGGCCTCTTACTCACCCCTCTACCACAGACATGGCTCAGTCACTGGC
TCTGAGCCTCCTTATCCTGGTTCTGGCCTTTGGCATCCCCAGGACCCAAGGCAGTGATGGAGGGGCTCAGGACTG
TTGCCTCAAGTACAGCCAAAGGAAGATTCCCGCCAAGGTTGTCCGAGCTACCGGAAGCAGGAACCAAGCTTAGG
CTGCTCCATCCCAGCTATCCTGTTCTTGCCCCGCAAGCGCTCTCAGGCAGAGCTATGTGCAGACCCAAAGGAGCT
CTGGGTGCAGCAGCTGATGCAGCATCTGGACAAGACACCATCCCCACAGAAACCAGCCCAGGGCTGCAGGAAGGA
CAGGGGGGCTCCAAGACTGGCAAGAAAGGAAAGGGCTCCAAAGGCTGCAAGAGGACTGAGCGGTCACAGACCCC
TAAAGGGCCATAGCCCCAGTGAGCAGCCTGGAGCCCTGGAGACCCACCAGCCTCACCAGCGCTTGAAGCCTGAAC
CCAAGATGCAAGAAGGAGGCTATGCTCAGGGGCCCTGGAGCAGCCACCCCATGCTGGCCTTGCCCACTCTTTCT
CCTGCTTTAACCACCCCATCTGCATTCCCAGCTCTACCTGCATGGCTGAGCTGCCCACAGCAGGCCAGGTCCAG
AGAGACCGAGGAGGGAGAGTCTCCCAGGGAGCATGAGAGGAGGCAGCAGGACTGTCCCCTTGAAGGAGAATCATC
AGGACCCTGGACCTGATACGGCTCCCCAGTACACCCACCTCTTCCTTGTAATATGATTTATACCTAACTGAAT
AAAAAGCTGTTCTGTCTTCCCACCC

4907/5332
FIGURE 4264

ATGACCACCTCAGCATGTTCCCACTTAAATAAAAGGCATCAAGCAGGTGTACATATCCCTGCCTCAGGGTGAGAAA
GTCCGGGTCATGTATATCTGGATCGATGGTACTGGAAAAGGACTGCACTGCAAGACCTGGACCCTGGACAGTGAG
CCCAAGTGTGTGGAAGAGTTGCCCTGAGGGGAATTTTGATGGCTCTATAGACCCTTCCGTAAGGATCCTAACAAG
CTGGTATTGTGTGAAGTTTTCAAGTACAATCGAAAGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATA
ATCGACGTGATGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAATATACCCTCATGGGGACAAATGGCCAC
CCCTTTGGTTGGCCTTCCAGTGGCTTCCCGGGGCCTCAGACTCCATATTACTGCAGTGTGGGAGCAGACAGAACC
TATGGCAGGGACATCGTGGAGGCTCATTACAGCGCCTGCTTGTATGCTGGAGTCAGGATTGTGGGGACTAATGCC
AATCATGCCTCCCCACCCATTCTGGGAAGTGAATGGTGCAGGCTGCCATACCAACTTTAGCACCAAGGCCATG
TGGGAGGAGAATGGTCTGAAATACACTGGGGAGGCCATCAAGAAATTAAGCAAGCGACACCAGTACCACATCTGT
GCCTGTGATCCCAAAGGAGGCCTGGACAAGGCCCCGACACCTAACTGGATTCCATGAAACCTCCAACATCAACAAC
TTTTCTGCTGGTGTAGCCAATCGTAGCGCCAGCATATGCATTCCCTGGACTGTCGGCCAGGAGAAGAAGGGTTAC
TTTGAAGACCATCACCCCTCTGCCAACTGTGACCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGTCTTCTC
AATGAAACTGGTGATGAGCCCTTCCAGTACAAAAACTTAA

4908/5332
FIGURE 4265

GAACATCCAGTAATGGATAAAAAATGAGCTGGTTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGTGGTATGATGAT
ATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTTAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
GCTTATAAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGCATCGTCTCAAGTATTGAACAAAAGACAGAAAGGT
GCTGAGAAAAAACAGCAGATGGCTCAAGAATACAGAGAGAAAACTGAGACCTAGCTAAGAGATAGCTGCAATGA
TGTACTGTCCCTTTTGGAAAAGTCTTGATCCCCAGTGCTTCACAAGCGAGAGCAAATTCTTCTATTTGAAAATG

AAAGGAGATCACTACCATTACTTGGCTGAGGTTGCCGCTGGTGTATGATAAGAAAGGGACTGTGGATCAGTCACAA
CAAGCACACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACATATCCTATCAGACTGGGTCTGGCC
CTTAACCTTCTCCGTGTTCTATTATGACGTTCTGAATTCGCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
GATGAAGCCATTGCTGAAGTTGATACATTAAGTGAAGAGTCATCCAAAGACAGCACACTAATAATGCAATTACTG
AGAGACAACCTTGACATTGTGGACATCGGATACCCGAGGAGACAAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTA

CCGGCCTTCCAACCTTTTGTCTGCCTCGTTCTAAAATTTACACAGTAGACCATTTGTCATCCATGCTGTCCACAA
ATAGTTGTTTACAATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATATTTCCACGTGGTTTTTATGT
TTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGGA
TGTGGAATTTTTATACAAGTTATTAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTTACAAGGGCCAGTGT
TAAACTGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATATTGGTTTGTCTGCTGGTGGGACTAAAAGGGATCA
TTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTATTTTAAAGTTTGGAGCACTTACAAGGCTGTGGTAGAAACAG
ATATCCCACAGATACCACATGTTAAACCATGTATATCTGTGGAACACTCAATCTCAATGTGCATACCCCTTGACTA
TAGCTGCAGAAGTGTTCCTTTAGACAAAGCTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTC
CATTATTTGTAAAGTTACCTGCTGTAGCTTTTATTATTTTGTACACTCATTATTTTGTATTAAATGTCTT
AGGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGGAAAATGAATTGCTTGGTATTCTTACTTTCATGTATA
TCAAGCACAGCAGTAAAAACAAAACCCATGTATTTAACTTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTTT
TTGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACACGGAAATAACTTGAGATGATGGCTACCTTTGT
TTAATGTCTTATGAAATTTTCATGAACAATTCAAACATAATTGTTAAGAACACGTGTATTAAATTCATGTAAATG
GAATAAAAAGTTTTAAGAATGGA

4909/5332
FIGURE 4266

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTTCGCCCCACGCCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTTCGGGTTTGTGCGCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCCG
TTGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCCGGCCGGGAGAGGCGCGGCCATGGCTCTGG
AGCCGATTCAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCCTCCCAATCGGTTAATTGTTGA
TGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCCAAGATGGATGAATTGCAGTTGTTCCGAGG
TGACACAGTGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTTCTGA
TGAGAAGATTTCGGATGAATAGAGTTGTTCGGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCC
ATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGGAAGGCATTACTGGTAA
TCTCTTCGAGGATACCTTAAGCCGTAATTCCTGGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTGT
CCGTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGA
CACAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGA
TGACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATAAAGGAGATGGTGGAACTGCCCCTGAGACATCCTGCCCT
CTTTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCTGAT
TGCTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCCTGAGATCATGAGCAAATTGGC
TGGTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGA
TGAGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCAGGTGGAGCGGCGCATTGTATCACAGTTGTT
GACCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGA
CCCAGCTCTACGGCGATTGGTTCGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGA
GATTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCA
CGGGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCT
CATTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAATCTCTAGCAGTTACTATGGATGACTGACCTG
GGCCTTGAGCCAGAGTAAACCATCAGCACTGCGGGAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACAT
CGGGGGCCTAGAGGATGTCAAAGCTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCCT
GAAGTTTGCCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAA
AGCCATTGCTAATGAATGCCAGGCCAACTTCATCTCCATCAAGGGTCTCTGAGCTGCTCACCATGTGGTTTGGGGA
GTCTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCT
GGATTGCGATTGCCAAGGCTCGTGGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGAT
CCTGACAGAAATGGATGGCATGTCCACAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCAT
TGATCCTGCCATCCTCAGACCTGGCCGCTTTGATCAGCTCATCTACATCCCACTTCCTGATGAGAAGTCCCGTGT
TGCCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGGAGTTCTGGCTAAAATGAC
TAATGGCTTCTCTGGAGCTGACCTGACAGAGATTTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGA
GAGTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCC
TGAGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTCAGTGACAATGACATTCCGAA
GTATGAGATGTTTGGCCAGACCCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGG
TGGAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACACAGAAGACAATGATGATGACCT
GTATGGCTTAAGTGGTGGTGGCCAGCGTGCAGTGAGCTGGCCTGCCTGGACCTTGTTCCTGGGGGTGGGGGCGCT
TGCCAGGAGAGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGA
CTCTGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTCATTGTTAGGC
GGAGAGTGAATTACCAACAGGGAATTGGGCCTTGGGCTATGCCATTTCTGTTGTAGTTTGGGGCAGTCAGGGG
ACCTGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCC
CGAGCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGT
AGGTTGATTTATTTTACATGCTTTTGTAGTTAATGTTGGAAAATAATCACAAAGCAGTTTCTAAACCAAAAAATGA
CATGTTGTAAAAGGACAATAAACGTTGGGTCAAAATGG

4910/5332
FIGURE 4267

AGGAGGACCTGGGGGTGTGGCAGCGAGGAAGGGCCGAGCCACGGACTGTGGGGCCGAAACTCGCTCCCGCCCACC
CTTTCTCGAGGCTGTGGCCTCCGCGAGAGCCGAGCGGGCCGACCGCCGGCCGTGCGACTGCCCCAGTCAGACAC
GACCCCGGCTTCTAGCCCGCCTAAGCCTGTTTGGGGTTGCTGACTCGTTTCCCTCCCGAGTTTCCCGCGGGA
AACTCTTCAAGAGGACCAACCGCAGCCAGAGCTTCGAGACCCGGCCAACCAGAGGCGAGGTTGAGAGCCCGGC
GGGCCGCGGGGAGAGAGCGTCCCATCTGTCCTGAAAGCCTGGGCGGGTGGATTGGGACCCCGAGAGAAGCAGGG
GAGCTCGGCGGGGTGCAGAAGTGCCAGGCCCTCCCGCTGGGGTTGGGAGCTTGGGCAGGCCAGCTTCACCCT
TCCTAAGTCCGCTTCTGGTCTCCGGGCCAGCCTCGGCCACCATGTCCCGCCAGACCACCTCTGTGGGCTCCAGC
TGCTTGACCTGTGGAGGGAAGAAATGACCGCTCGTTTCGACAGGCCAAGGTGGCTCAGAAGTCCGGTCTGACT
CTGAGGCGACAGCAGTTGGCTCAGGATGCACTGGAAGGGCTCAGAGGGCTCCTCCATAGTCTGCAAGGGCTCCCT
GCAGCTGTTCTGTTCTTCCCTTGGAGCTGACTGTACCTGCAACTTCATTATCTGAGGGCAAGCTTGGCCCAG
GGTTTCACAGAGGATCAGGCCCAGGATATCCAGCGGAGCCTAGAGAGAGTGTGGAGACACAGGAGCAGCAGGGG
CCCAGGTTGGAACAGGGGCTCAGGGAGCTGTGGGACTCTGTCTTTCGTGCTTCTGCGGAGCTGCTG
TCTGCCCTGCACCGCCTGGTTGGCCTGCAGGCTGCCCTCTGGTTGAGTGTGACCGTCTTGGGGACCTGGCCTTG
TACTAGAGACCCTGAATGGCAGCCAGAGTGGAGCCTCTAAGGATCTGCTGTTACTTCTGAAAACCTTGGAGTCCC
CCAGCTGAGGAATTAGATGCTCCATTGACCCTGCAGGATGCCCAGGGATTGAAGGATGTCTCTGACAGCATT
GCCTACCGCCAAGGTCTCCAGGAGCTGATCACAGGGAACCCAGACAAGGCACTAAGCAGCCTTCATGAAGCGGCC
TCAGGCCTGTGTCCACGGCCTGTGTTGGTCCAGGTGTACACAGCACTGGGGTCTGTACCGTAAGATGGGAAAT
CCACAGAGAGCACTGTTGTACTTGGTTGCAGCCCTGAAAGAGGGATCAGCCTGGGGTCTCTCACTTCTGGAGGCC
TCTAGGCTCTATCAGCAACTGGGGGACACAACAGCAGAGCTGGAGAGTCTGGAGCTGCTAGTTGAGGCCTTGAAT
GTCCCATGCAGTTCCAAAGCCCCGAGTTTCTCATTGAGGTAGAATTACTACTGCCACCACCTGACCTAGCCTCA
CCCCTTCACTGTGGCACTCAGAGCCAGACCAAGCACATACTAGCAAGCAGGTGCCTACAGACGGGGAGGGCAGGA
GACGCTGCAGAGCATTACTTGGACCTGCTGGCCCTGTTGCTGGATAGCTCGGAGCCAAGGTTCTCCCCACCCCC
TCCCCTCCAGGGCCCTGTATGCCTGAGGTGTTTTGGAGGCAGCGGTAGCACTGATCCAGGCAGGCAGAGCCAA
GATGCCTTGACTCTATGTGAGGAGTTGCTCAGCCGCACATCATCTCTGCTACCCAAGATGTCCCGGCTGTGGGAA
GATGCCAGAAAAGGAACCAAGGAAGTGCCTACTGCCCACCTCTGGGTCTCTGCCACCCACCTGCTTCAGGGCCAG
GCCTGGGTTCAACTGGGTGCCCAAAAGTGGCAATTAGTGAATTTAGCAGGTGCCTCGAGCTGCTCTTCCGGGCC
ACACCTGAGGAAAAAGAACAAGGGGCAGCTTTCAACTGTGAGCAGGGATGTAAGTCAGATGCGGCACTGCAGCAG
CTTCGGGCAGCCGCCCTAATTAGTCGTGGACTGGAATGGGTAGCCAGCGGCCAGGATACCAAGCCTTACAGGAC
TTCTCTCTCAGTGTGCAGATGTGCCAGGTAATCGAGACACTTACTTTACCTGCTTCAGACTCTGAAGAGGCTA
GATCGGAGGGATGAGGCCACTGCACTCTGGTGGAGGCTGGAGGCCAACTAAGGGGTCACATGAAGATGCTCTG
TGGTCTCTCCCCCTGTACCTAGAAAGCTATTTGAGCTGGATCCGTCCCTCTGATCGTGACGCTTCTTGAAGAA
TTTCGGACATCTCTGCCAAAGTCTTGTGACCTGTAGCTGCCACGTTTTGAAGAGCTTGAAGCTGGGTCCCCAGTGG
GCTGTCTCTCTGTGGGAGGGCTTTCTGCTTACCATCATTAGGAATGTGACCATTCTATATAATTCTGGACT
GGTGAGATTGGTGGTAGGCCTGTGAAATTTGCCCTAGTTACTACCATTCTCGTTTTGGAGGAAACAATCTCTGCC
ACCACCAAGTCATTGACTTTGCTCGAGGCACCTTTTTCTGTTTCTCTTTCTGTTGTCGAGTAAATTTTCAT
ATTTAT

4911/5332
FIGURE 4268

TGGACAGTGGTGAATGGGACGTGCTGATTGCTCACTTCCTGGGTGTGGACCACTGTGGCCACAAGCATGGCCCTC
ACCACCCTGAAATGGCCAAGAACTTAGCCAGATGGACCAGGTGATCCAGGGACTTGTGGAGCGTCTGGAGAATG
ACACACTGCTGGTAGTGGCTGGGGACCATGGGATGACCACAAATGGAGACCATGGAGGGGACAGTGAGCTGGAGG
TCTCAGCTGCTCTCTTTCTGTATAGCCCCACAGCAGTCTTCCCCAGCACCCACCAGAGGAGCCAGAGGTGATT
CTCAAGTTAGCCTTGTGCCCACGCTGGCCCTGCTGCTGGGCCTGCCCATCCCATTGGGAATATCGGGGAAGTGA
TGGCTGAGCTATTCTCAGGGGGTGAAGACTCCAGCCCCACTCCTCTGCTTTAGCCCAAGCCTCAGCTCTCCATC
TCAATGCTCAGCAGGTGTCCCGATTTCTTCATACCTACTCAGCTGCTACTCAGGACCTTCAAGCTAAGGAGCTTC
ATCAGCTGCAGAACCTCTTCTCCAAGGCCTCTGCTGACTACCAGTGGCTTCTCCAGAGCCCCAAGGGGGCTGAGG
CGACACTGCCGACTGTGATTGCTGAGCTGCAGCAGTTCTGCGGGGAGCTCGGGCCATGTGCATCGAGTCTTGGG
CTCGTTTCTCTCTGAGCTTCCTTCTCCTACATCTGCTTGCTGCTGGGATACCCGTCACCACCCCTGGTCCTTTTA
CTGTGCCATGGCAGGCAGTCTCGGCTTGGGCCCTCATGGCCACACAGACCTTCTACTCCACAGGCCACCAGCCTG
TCTTTCCAGCCATCCATTGGCATGCAGCCTTCGTGGGATTCCCAGAGGGTCATGGCTCCTGTACTTGGCTGCCTG
CTTTGCTAGTGGGAGCCAACACCTTTGCCTCCACCTCCTCTTTGCAGTAGGTTGCCCACTGCTCCTGCTCTGGC
CTTTCTGTGTGAGAGTCAAGGGCTGCGGAAGAGACAGCAGCCCCCAGGGAATGAAGCTGATGCCAGAGTCAGAC
CCGAGGAGGAAGAGGAGCCACTGATGGAGATGCGGCTCCGGGATGCGCCTCAGCACTTCTATGCAGCACTGCTGC
AGCTGGGCCTCAAGTACCTCTTTATCCTTGGTATTAGATTCTGGCCTGTGCCTTGGCAGCCTCCATCCTTCGCA
GGCATCTCATGGTCTGGAAAGTGTGCCCCCTAAGTTCATATTGAGGCTGTGGGCTTCATTGTGAGCAGCGTGG
GACTTCTCCTGGGCATAGCTTTGGTGATGAGAGTGGATGGTGCTGTGAGCTCCTGGTTCAGGCAGCTATTTCTGG
CCCAGCAGAGGTAGCCTAGTCTGTGATTACTGGCACTTGGCTACAGAGAGTGCTTGAGAACAGTGTAGCCTGGCC
TGTACAGGTACTGGATGATCTGCAAGACAGGCTCAGCCATACTCTTACTATCATGCAGCCAGGGGGCCGTGACAT
CTAGGACTTCATTATTCTATAATTCAGGACCACAGTGGAGTATGATCCCTAACTCCTGATTTGGATGCATCTGAG
GGACAAGGGGGGGCGGTCTCCGAAGTGAATAAAATAGGCCGGGCGTGGTGACTTGCACCTATAATCCCAGCACTT
TGGGAGGCAGAGGTGGGAGGATTGCTTGGTCCCAGGAGTTCAAGACCAGCCTGTGGAACATAACAAGACCCCGTC
TCTACTATTTAAAAAAAAGTGTAAATAAATGATAATATAATT

4912/5332
FIGURE 4269

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTTCGTGCCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTTGCAAATCGATGGAGTC
CTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTCACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACCTCTCTGAGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTGATCGAGTCAAG
ATGAGTTAGTGGAGCTGGGCTTGGCCAGGGAGTCTGGGAACAAGGAAGCAGATTTTCCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTTATTTGAACTTTAGTCGTGTAATAAACTCACCAGTGGCAAACC

4913/5332
FIGURE 4270

ACAGCTAGGGCTGCTCAGTAACTGCCCCAACCCTACCACGTCCCCAAGTGCAACGGGACCCACGGAACCTACAGG
TGTGGGGCAGGGTGAGCGTGGAAGAAGGGACGCGGATGGGGGTGCGCTTTCAGACGATCTGGAGACTGCTGTGT
GTTGAGGGAAGATACGAAGTCGCGGGAGCAGTTGGGGACTCAATGTGTGGGCAACAAGGGTCTGTGAGCTCAG
GAGCTGCACGAATGGTGGCAGTCACCTTGCCAGTGACAGGCATGGATCAGACTGCAAGCTAGGGGCACGAGG
CATCAGTTGGGAAGAGGGGACGCACAGCTAGGCTTGAGGCCTCTTCATCGGGATGTCCCCAGGCCCCCAGCCCA
GGCCAGCATAAAGGCCGTGTTGGGGGGCCCCCTGACCCAAGGGGGGCTTCATGCGCCACGTGCAGGCGGAGCC
GTCTCCATCCTCAGAGCCGGAGGCTGGCCCTTCACAGCCTCCAGTCAGGCAGGGGGCCCTCCAGGGTGGCCTGCT
CATGGGTACAGCCCAGCAGGGGGGGCGACATCCCCCGGGGTCTACCAGGTATCCATCTTTTCCCCTCCGGCTGG
TACCTCTGAGCCTCATAGGGCCCTGAAACGACAAGCCCCATCCACTGAGGGTCCCCGGGAGCTGAAGAGAGGGCC
TGGGCTGGGGGCCAGAGAGGGGACTACCCCTGAAGAACCATCTACTGTGGGGCTCTTAGGCCACAGAGGGACCGG
GCTGGGACTAGGTGTGGCCAGCCAGCATTCTCCCAACCGTGGCCTCTGTGTTGTGGAACAGAGAAGTAGTGTAC
CTCATCTTGGAATTGCGGGGCTGGAGTCCCCCTGCCCCCATCAAATGCTTCTGCAATACTTTGCACACCAG
AGACTGGGCCTCCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCAGGGCCAGCCCTCCAGGCCAGCT
GCACACACTTGACACTGATTTGCACAGTCTTGCAAAATAGGGGGTAAGAGCCAGTGGCTGGGGTGGGCAATGG
GGGTAGCCTCTGGCCTAGGGAGTCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCTGGCCCTGG
ACCCCCAGGCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCTGAGGAAGA
GGGGCCAGCCCCTCGGAGGCGCCGGGGATCCCTGGGCCACCCTACTGCTGCCAACAGTTCTGATGCCAAAGCCAC
ACCCTTCTGGAGCCACCTGCTGCCCTGGGCCCAAAGAGCCTGTTTTGGACCCAACAGACTGCGGTCCCATGGGGCG
GAGGCTGAAAGGAGCCCGTCGCTGAAGCTGAGCCCCCTTCGAAGCCTCCGGAAGGGGCCAGGCCTGCTGAGCCC
CCCCAGTGCCCTCCCCTGTTCTACCCCTGCTGTACGCCGTACCCTGCTGGGCAACTTTGAGGAATCATTGCTGCG
AGGACGTTTTGCACCATCTGGCCACATTGAGGGCTTCACAGCAGAAATTGAGCTAGTGGGTGCTACTGCCCCCA
GCACGTCACGCTGCCTGTCACTGTCACTTCTTTGATGTTTTCTGAGCAAAATGCCCCGGCTCCCTTCCCTGGGCAT
CGTGGATCTGAACCCCTTGGGGAGGAAGGGTTACAGCGTGCCCAAGGTGGGCACCGTCCAAGTGACCTTATTTAA
CCCCAGTCCCTTCACTTCCCCTACCCCTGACCTATCTCTGAAAGCCAAGTTATGCGTATGTGTGTGTGCACAAG
CTTGCTTTTGTGTGGTATGTGTGTGTGAGTGTGCATGTATGCACACACACAGGGGTTAACCACCCCTCACCTAGG
GCTCCAGACTCCAGTTGTCCCTCTCCTCCTACCTGTGTCTCCTTGTTTTGGGGTCTGACTGAAGAAGGTGTCCA
GGGGGCAGAGTCAGGGCCAAGCACTGGGGTGCCTCCTCTCACCTGGCCAGACTCTGACCCACCTACCTCAGCTGG
GGTGAGGGGCACCCCTCAAACCTCAGTCATGTGGTTCCAACTACCCCTTCCCCACTCCAGACTCTGACCCAGCC
TCAGTCCTAACTCCTGGGGCTGGGCTGAGGGGAACAAGCATTGTGCTGAAACTTGAAAAAACAAAGCAAATCAAAA
ACAGGAAAAAATTGTACCTGGTACTTTTTTTTAG

4914/5332
FIGURE 4271A

CCCAGCCTGCCGGCCGGTACTCACCCTACCCGGAGTTCGCTCAGACGGTGAGATTTGGGGCGGGTCCGAGGCAG
CGGCGGGACGCTACCTGCGACCGGGACCATGAGGAGCTGCCAGACCCGTGGGGCCGGTAACGAGAGCAGTCGCGG
CACCTGCTGAGAGGAAAGAGGGAGCGGTCCGGCGCGGCTGGGGCGCGGCAGAGGCTTGCCCCGATCCTCGGCCATG

TCACTGCTCTGCGTGCGCGTTAAAGGGCCAAATTCAGGGTTCACCAGATAAAATTTAACACATATGTGACCCTG
AAAGTACAGAATGTGAAGAGCACAACTGTAGCAGTTCGTGGTGATCAGCCTTCCTGGGAACAGGATTTTCATGTTT
GAGATTAGTCGCTGGACCTGGGTCTAAGTGTGGAGGTATGGAACAAAGGACTGATCTGGGACACCATGGTGGGG
ACTGTGTGGATTGCGCTGAAGACTATTTCGTTCAGTCGGATGAGGAAGGGCCTGGGGAATGGTCCACATTAGAGGCA
GAGACGTTAATGAAAGACGATGAGATCTGTGGAAGTAAACCCAACTCCTCATAAAATTTTGCTTGATACAAGA
TTTGAGTTGCCTTTTGATATCCCAGAGGAGGAAGCCAGATATTGGACCTACAAATGGGAGCAAATCAATGCCTTG
GGAGCTGACAATGAGTATTCTAGTCAAGAAGAAAGCCAGAGGAAGCCATTGCCCACTGCTGCCGCCAGTGTCTT
TTTGAAGACCTGATAGTGCCTGCGATGACCGAGATAGTGACTATCGCAGTGAGACCAGCAACAGCTTCCCACCT
CCTTACCATACAGCTTCCCAGCCCAACGCTTCTGTGCACCAAGTTCCTGTGCCGGTGCGATCGCCACAGCAGCTG
CTACTTCAAGGCAGTTCCCGGGACTCTTGTAATGACTCTATGCAAAGTTATGACCTTGATTATCCAGAGCGGGCGG
GCTATCAGCCCCACCAGCAGCAGTAGGTATGGCTCCTCCTGTAATGTGAGTCAAGGAAGCTCTCAGCTAAGTGAA
CTAGACCAGTATCACGAACAAGATGACGACCATCGGGAGACGGACTCGATTCACTTCTTGCCACAGCTCTCACAGC
CTGTCCAGAGATGGCCAAGCAGGTTTGGAGAACAAGAGAAACCCCTTGAGGTGACAGGTCAAGCAGAGAAGGAG
GCAGCATGTGAACCAAGGAGATGAAAGAAGATGCCACAACCCACCTCCCCAGATCTGGTGCTGCAAAAAGAC
CACTTCTTAGGTCCCCAGGAGAGTTTCTGAGGAGAATGCATCTTACCATTACCCAAAGCCAGAGCACATTGG
ATCCGAGCAGTTACCAAGGTTCCGACTCCAGCTGCAGGAGATTCCAGATGATGGTGACCCCTCTCTGCCTCAGTGG
CTCCCGGAAGGGCCAGCCGGAGGGCTCTATGGCATTGACAGCATGCCAGATTACGCAGAAAGAAGCCACTGCCA
CTTGTCAGTGATCTGTCACTGGTCCAGTCTCGGAAGGCAGGAATCACTTCTGCAATGGCTACACGCACCTTCTCTT
AAGGACGAAGAGCTGAAATCCACGTGTATAAGAAAACCTGCAGGCCTTAATCTACCCCATTTTCGTGCACCACT
CCTCATAACTTTGAGGTCTGGACGGCCACTACCCCAACCTACTGCTATGAGTGTGAAGGCCTGCTCTGGGGCATT
GCCCAGCAGGGCATGCGCTGCAGCGAATGTGGAGTCAAGTGCCATGAGAAGTGCCAGGATCTGCTCAATGCTGAC
TGCTGTCAGCGGGCTGCAGAAAAGAGCTGTAAACATGGAGCTGAGGACCGGACCCAGAACATTATCATGGCCATG
AAGGACCGCATGAAGATCCGAGAGCGAAATAAGCCAGAGATCTTTGAAGTTATCCGGGACGTCTTCACAGTGAAC
AAAGCTGCCCATGTGCAGCAGATGAAAACAGTGAAGCAGAGTGTACTGGATGGCACCTCCAAATGGTCAGCCAG
ATCACCATTACTGTGGTGTGTGCCAGGGCCTACAAGCCAAGGACAAAACAGGATCCAGTGACCCTTACGTGACT
GTGCAAGTCAGCAAACTAAGAAGCGTACCAAGACCATTTTGGAACTTGAATCCTGTTTGGGAGGAGAAGTTC
CATTTTGAGTGCCACAACCTCTGACCGCATTAAGGTGCGTGTATGGGATGAGGATGATGACATCAAGTCAAGA
GTAAAGCAACGCCTAAAGCGAGAGTCTGATGATTTCTTGGCCAAACCATCATTGAGGTTCCGACCCCTAAGTGGC
GAGATGGACGTCTGGTACAACCTGGAGAAGAGGACAGACAAATCAGCCGTCTCAGGGGCTATCCGACTACAAATC
AGTGTGGAGATCAAGGGGGAGGAGAAAGTAGCCCCATACCACGTGCAGTATACATGTCTCCATGAGAATCTTTTC
CATTACCTCACAGACATTGAGGCGAGTGGAGGAGTCCGCATCCCTGAAGCTCGAGGAGACGATGCCTGGAAGGTG
TACTTTGATGAGACAGCCCAAGAAATTTGTGGATGAATTTGCCATGCGTTATGGCATTGAGTCCATATATCAGGCC
ATGACGCACTTTGCATGTTTATCATCCAAGTACATGTGTCTGCTGGTGTGCCAGCAGTGATGAGCACCTTACTGGCC
AACATCAACGCCTACTATGCCACACAACCTGCCTCTACCAATGTCTCTGCATCTGATCGCTTTGCAGCCTCCAAC
TTTGGGAAAGAGAGATTTGTAAACCTGCTGGACCAGCTACACAACCTCACTGAGGATCGACCTCTCTACATACAGG
AATAATTTCCCTGCTGGGAGTCTGAACGGCTTCAGGACTTAAATCCACAGTGGATTTGCTGACCAGCATTACT
TTCTTCAGAATGAAGGTACAAGAACTGCAAAGCCCTCCAAGAGCCAGCCAGGTGGTAAAGGATTGTGTGAAGGCC
TGTTTGAACCTCCACATATGAATATATCTTCAACAACCTGCCACGACTTATACAGCCGCCAGTACCAGCTGAAGCAG
GAGCTACCTCCAGAGGAACAAGGGCCCAGCATTCCGAACCTGGATTTCTGGCCCAAGCTCATCACACTCATCGTG
TCAATCATAGAGGAAGATAAGAATTCCTACACACCTGTTCTGAACCAAGTTTCTCAGGAGTTGAATGTGGGAAA
GTCAGCGCAGAAGTGATGTGGCATTGTTTGGCCAAAGACATGAAATATGCATTGGAGGAGCATGAGAAAGACCAC
CTGTGTAAAAGTGCTGACTACATGAACCTGCACCTCAAGGTGAAGTGGCTCCACAATGAATACGTGCGGGATCTG
CCTGTCTCCAGGGGCAGGTGCCGTGAGTACCCAGCGTGGTTTGAGCAGTTTCGTGCTACAATGGCTGGATGAGAAT
GAGGATGTATCCCTGGAATTCCTGCGTGGGGCCCTGGAACGAGATAAGAAGGATGGATTCCAGCAGACATCAGAG
CATGCACTCTTTTCTGCTCTGTGGTGGATGTCTTACACAACCTCAATCAGAGCTTTGAGATCATCCGGAAGCTG

4915/5332
FIGURE 4271B

GAATGCCCAGACCCAGCATCCTTGCCCACTACATGAGGAGGTTTGCTAAGACCATCGGGAAGGTGCTGATGCAG
TATGCAGACATCTTGTCAAAGGACTTCCCAGCCTATTGCACAAAGGAGAACTGCCCTGCATCCTGATGAACAAC
GTGCAGCAACTGAGGGTCCAGCTGGAGAAAATGTTTGAGGCCATGGGAGGCAAGGAGCTGGACCTTGAAGCTGCA
GACAGTCTGAAGGAGCTGCAGGTGAACTGAATACGGTCTGGATGAGCTCAGCATGGTGTGTTGGAACAGTTTC
CAGGTACGGATTGATGAGTGTGTTTCGACAAATGGCCGACATCCTGGGCCAGGTTCCGGGCACAGGGAATGCATCT
CCAGACGCCAGGGCCTCAGCGGCTCAGGATGCAGATAGCGTACTCCGGCCTCTCATGGACTTCCTGGATGGCAAC
CTCACCTCTTTGCCACTGTGTGTGAGAAGACGGTTCGAAGCGTGTACTGAAGGAGCTCTGGCGCGTGGTGATG
AACACAATGGAGAGGATGATTGTTCTGCCCCACTCACTGACCAGACGGGACCCAGCTGATCTTCACTGCTGCC
AAGGAGCTGAGCCATCTTTCCAACTCAAGGATCACATGGTACGAGAGGAAACACGGAATCTCACTCCAAAGCAG
TGTGCAGTCCTTGACCTCGCCCTGGACACCATCAAGCAATACTTCCATGCAGGAGGCAATGGGCTGAAGAAAACC
TTCTGGAGAAGAGCCCAGATCTGCAGTCTCTACGCTATGCCCTGTCTCTGTACACACAGACTACTGACACTCTC
ATCAAGACCTTTGTGCGCTCGCAGACCACCAAGGGTCTGGTGTGGACGATCCTGTGGGAGAAGTCTCTATTAG
GTGGACTTGTTTACACACCCTGGTACTGGGGAGCACAAAGTCCAGTGAAAGTGGTGGCTGCCAATGACCTCAAG
TGGCAGACAGCGGTATGTTCCGGCCTTTCGTGGAGGTGACTATGGTTGGCCACACCAAAGTGATAAGAAGAGG
AAGTTCACAACCAATCCAAAAGCAACAACCTGGGCCCCAAGTACAATGAGACATTCCACTTCCTCTGGGAAAT
GAGGAGGGGGCCGAGTCTATGAGTTGCAGATATGCGTGAAGGATTACTGCTTTGCCCGGGAAGATCGCGTGCTA
GGGCTGGCTGTGATGCCTCTGAGGGATGTCACAGCCAAGGGCAGCTGTGCCTGCTGGTGGCCCTTGGGCCGGAAG
ATCCATATGGATGAGACAGGCCTGACCATTTCTCCGATTTTATCTCAGAGGAGCAATGACGAGGTGGCCCGAGAA
TTTGTGAACTCAAATCAGAGTCTCGTTCCACGGAGGAGGGGAGCTGAACACCTTCGACTCCTGTGCCAATCAGG
CAGCAGCAATTTCAAAATCAGGGCCAGTGGGAGTTAGCTGTGTAACCGGCTTAGGGTCTTTGCAGTCAAGAGGC
TGACCCCTTCAGTTAAAGATATTTAAGGAAAAATTTGGGGTGGTGATAATATGGCTTTTCACAGAAAGGGTCATG
AAGCCCTGGCCCAACAGGACTGTGGTACTAGGGGCTGGGATGTGGGGTTACCACATGGAGAGATTTTCCATTAG
AGAGAAGGACAAACATTTCTGAGAGTGTGAGCCATTCTGGTAGACACCTCTCCACTCCTCATCCCACCTCTACC
CATCTCCATGCCACACCTTATCCAGTTAGACACATACATACCAATCATTAGAAGAACAAGTTTAGAAGGTGTGGA
ACTTGTGCTGGCTGGCTGGGTAGTCAGCTGAGCCTGTTGCTGAGCCCGGTGGTCTGGATTGGAGTATGGCCAGG
GCAGGAGTACACAGAATAGAATTTAGACTGTCCCTTGAGTAGAATCCACTGATTTTCTGTGGCTCCAGTGAGAAC
AAGGCTTTGAAACTGAACAAGATAACTTCTAGAAATGAACTGTACTAATCCCTTTCCCCAGATTGTATCATGAGT
AGAATCAGGTTTACGTGGTGCTTCAAAGCCCTGAGAAGAATATTTGTTTGGACCCAGGCACTAGGGGCCACCTG
CCTGGGAGTCTCCCTGCCTCACTCCTCTAGGCAGGGGAGTGATGCTTCAGGACGTGACAGGCTGTTCTAACATGT
GTCTACCTGAGGGCTAGTTGAAGGATCCAGGAGTATTTCTTCTTGGGTGGGCCCTGAACAAAGCCAAAAATTGT
AGAAACCAGTCTAGAAAAAGTCTGCTCATCTGTGGCCACTGCCTTCTAGCCGTCCTCCACCTTGACAGAAAGAAT
CTAGCCTTTGGTCTCTCTCTCTCATCGGGTCAATTTGCTATTCCCTCTGATATTCAACCCTATAGAAGGAGC
CTGGACTCTGATCCCTCTGTACAGGCTGGATGGAAGGGGCCCTCCACACTTCCTGGGAGGTGAGAGACAACTGT
TTCAGAGAGTCAGATGGACTTCCCAAGACTTGTTGAGAGATGTGACATGGTTCTTGGATTTCTCTGTAGCAGCC
TCCTGGACTTCCTGAGGACTCGACATTGTCCACAGATGTACTGGCCATTACATGAAACAAGAAACCAAGCATCTT
TGCTGTTGTTAATTATTATATGTGCCATTGTTACAGGAGATTATAGGCTAGTCTGTAATAAATTATCTTATAGC

4916/5332
FIGURE 4272

ACAGCTTCAAGTGAAGTTAATCTGAGGTGAAGCAAACAGAAAATTGTGGAGGTTTTGTTGGTGTGCAATGGAGGA
ACATGGCTCAAGAACTAATCACAGCCAAGTACCTATGCTTTGTTCCACTGGCTGCGGATTTTATGGAAACCCCTC
GTACAAATGGCACGTGTTTCAGTATGCTATAAAGAACATCTTCAAAGACTGAATAGTAGTAATGGTAGAATAAGCC
AACCTGCAACCTCTGAATCTTTACCAGTTCAATGCACAGATGGCAGTGTCCAGAAGCCCAGTCAACATTAGACT
CTACATCTTCATCTATGCAGCCAAGCCCTGTATCAAATCAGTCACCTTTATCAGAATCTGTAGCATCTTCTCAAT
TGGACAGTACATCTGTGGACAAGCAGTACCTGAAACAGAAGATCTGCAGGCTTCAGTATCAGACATGGCACAGCA
GCCATCTGAAGAGCAAAGCAAGTCTCTTGAAAAACCAAAACAAAAAAGAATCTCTGTTTCATGTGCAGGAAGAA
AGTGGGACTTACTAGGTTTGAATGCGGTGTAGAAATGTTTACTGTGGTGTACACTGTTACTCAGATCTACACAAT
TGCTCTTAAAAATTACAAAGCTGATGCCGCTGAGAAAATCAGAAAAGAAAATCCAGTAGTTGTTGGCGAGAAGATC
CAAAAGATTTGAACTCCTGCTGGAATACAAAATTCCTTGATCATCTGCAAACTAAAAATTGACTTGAGGTTTTTTTT
TTCCCTAGTCATTGGGAAAGTAGAGCAGTGTATCTTGCAATGTCATCGGATGAATAGATTTTTGTTTTGATTTTGT
TTTGAATGACTCTGAACATTTATTTCCATTGCAATTTCTGTGGCTGAGAAGACTTAACTTTACAAGTATTAT
CCTTATAAGATCATTTTAATTTTAGTTGAGTGCAGAGGGCTTTTATAACAAACGTGCAGAAATTTTGGTGGACTG
TGATTTTCCAGTATTAAATATGCATGCATTAATCTTGCAATTTATTTTCTCATTGTGTACATATATATTGCTTT
TCTTGCAGCACGATTTCTCTTTTGATAATGCCCTTTGGGGCACAACCTAGTTATCGGTAACCTGAATGTATCTTAA
TCATTATGGCTGCTTCTGTTTTTTCATTACAAAGGTTATTCATATGTTAGCATATAGTTTCTTGCACCCACTA
TTTATGCTGAATCATTTGTACGAGAGTGTGTGCTGATGAGATTCTAAGTTTGTGTGTTTAACTTTTTTTTGA
GCGAGGGAAGAAAAAGCTGTATGCATTTTCATTGCTGTCTACAGGTTTCTTTCAGATTATGTTTCATGGGTTTGTGT
GTATACGATATGAAGAATGATCTGAAGTAATTGTGCTGTATTTATGTTTATTCACCAGTCTTTGATTAAATAAAA
AGGAAAACCAAG

4917/5332
FIGURE 4273A

TCCCGTGGAAACAGTGTCTCAGCTGGAACGTGTCGCGGTAGAGCTTGGTTCGGAGTGCAAAAGGGACAGACGCATCAG
GGGTCCAGCTCAAGGCTCCTGACAGAGGTGCCAAGCTCTCCTGATGAAATGTGTTCTGCCCCACTGGGCTCCAGG
GACAGTGTCTGGTGTCTGTTGAAGCCCTTATTCGAACCTTCCAGAATCGATAGTCCCCCAAAGCTGACTGGAGAGA
CCCTCATCGTTCATCACATCCCCCTGGTGCAGTCCCAAGTCCAGACAGGCAGTGCTGTGGAGGGGCAGGTGGAG
GTGGTGGGAGCACAAGACCTAATCCCTTCTGCCCACCTGAGCTGGGCATCACCAGCCCCGATCAAGACCTAGGAC
AAGCTGACTCCCTGCTATTTCAGCAGCCTGCAGTCTACTCCAGGAGGAAGTGCACGGTCTATAGACAGCACCAAGA
GTAGGAGTCGGGATGGAAGAGGCCCTGGAGCCCCAAACGACACAACCCCTTCTTGCTGCAGGAGGGTGTGGGTG
AGCCAGGACTTGGTGACCTGTATGATGACAGCATTGGTGACAGTGCCACCCAGCAGTCCCTCCACCTGCATGGCA
CTGGCCAGCCCCAAGTTTTCATCTATCCTCTTCCAGCTGCCACCATCTGGCCCCAGAGTGGGCAGGCCATGGGGGA
CAACACGCAGTCGGGCTGGAGTGGTGGAAAGGGCAGGAACAGGAGCCAGTGATGACCTTGGATACTCAGCAGTGCG
GCACCAGCCACTGCTGCCGGCCAGAGCTGGAAGCAGAGACTATGGAGCTGGATGAGTGTGGGGGACCTGGTGGGA
GTGGCAGTGGGGGTGGAGCCAGCGATACCTCTGGCTTTTTCCTTTGACCAGGAATGGAAGCTCAGTTCAGATGAAT
CCCCAAGGAACCTGGATGCTCCGGCTCAGGGGACCAGCACTGCCGCTGCAGTAGCACATCCAGTCAGTCCGAGG
CAGCTGACCAGTCCATGGGCTATGTGAGCGACTCCTCCTGCAACAGTTCAGATGGTGTGCTGGTCACCTTCAGCA
CCCTCTACAACAAGATGCATGGCACCCTCGTGCCAATCTCAACTCTGCCCCACAGTCTTCAGCGACTCTTCCT
TCTGCAGCCACTCAGACCCTGGCGCCTTCTATCTGGATCTGCAGCCCTCCCCATTTGAGTCTAAGATGTCTTATG
AGTCCCATCACCTGAAAGTGGAGGAAGGGAAGGGGGCTATGGTTGCCCTCATGCCTCTTCTCCTGAGCTTGATG
CCAACTGCAACTCCTACCGCCCACTGTGAGCCGTGCCAGCAGTGGCTGACCTCACAGCCTGCTTCCAAAGCC
AGGCCCCGTCTTGTGTGGCCACACAAAATTACTATAAACTTGTACCTGTGACCTATCTTCCCAATCATCCCCAA
GCCCTGCTGGCTCTTCCATCACTAGCTGCTCTGAGGAACACACCAAGATAAGTCCCCACCAGGCCCTGGCCAG
ACCCAGGCCCCAGCCAGCCCTCTGAGTATTACCTATTCCAGAAGCCAGAAGTCCAGCCAGAGGAACAAGAAGCAG
TGAGTTCCTCCACCAAGCAGCAGCTGCTGTGGGCCCCACTGTGCTTGAGGGACAAGTATACACGAATACTTCAC
CCCCAACCTCAGCAGCTGGAGCTCAGCGCTCCCGCAGCTATGATCGCAGCCTGCAGCGCAGCCCTCCTGTCCGCC
TGGGCTCGCTGGAACGTATGTTGAGTTGCCAGTGGCCAGTGGCTTGGTGGGGCCCTGCAGCCATGGCCGGGCTGGCT
CCCCACCAGGAGGGTACCTCCTTTGCCGAGCTGGCCAAGGGCCGGAAGAAACTGGAGGCTCTGGCTCGCCCC
CACTTCGTGTGAGTGTGGGGACTCCTCCCAGGAGTTCTCACCCATCCAAGAAGCCAGCAAGATCGGGGGGCC
CACTGGATGAGGGCACTTGTGTAGCCATAGCCTGCCACCCATGCCCTTTGGGGCCAGGCATGGACCTGGGCC
CAGACCCAAGTCCACCCTGGTCCACCCAGGTCTGTGAGGGACCCCACTCCAGTGAGATGCCTCCTGTGCGCTCA
GAGCTACTGGGCAAGGCCCTTGGCTCAGCTGATGGATCCAGGGCCTGCTCTCCCAGGGAGCCAGCCAACAGCC
ATACCCAGAGGGATGCAAGAGCTAGAGCTGACGGGGGTGGCACCAGAGCCGACCAAGTCTTCGCTACAGCAAGG
AACAGAGGCCAACCACACTGCCCATCCAGCCCTTCGTGTTCCAGCACCCTTCCCCAAGCAGCTGGCCAGGCCC
GGGCCCTCCACAGCCTTTCCCAGCTCTACAGCCTCTCAGGCTGCAGCCGTACACAGCAGCCTGCCCCACTGGCTG
CCCCTGCTGCTCAAGTCTCAGTCCAGCTCCCTCAGGGGAACCGCAGGCATCCACTCCCCGAGCCACTGGCAGAG
GTGCCAGGAAGCTGGGTCTGAGCCAGAGACCTCTCGGCCATCGCCCTGGGCAGCTACTCCCCATCCGGAGTG
TTGGCCCCCTTTGGGCCCAGCACTGACTCTTCTGCCTCCACTTCGTGCTCCCTCCCCAGAGCAGCCACAGCCA
CAGAAAGCCTGCCCCATGGAGCCACTCCTGTCTTCTGTGTCCGGCCTGCCACCTCCAGCAGCCGAGGAAGG
AGGATCAGAAGATACTGACCTTGACTGAGTACCGGCTCCATGGAACAGGAAGCTTGCCGCTCTGGGCTCCTGGC
GATCTGGCCTCAGCCGAGCAGAGAGCCTGGCCCGGGAGGTGGTGAGGGCAGCATGGCCACCAGGCCAGTAATG
CCAACCACCTATCCCTCAAGCCCTCAAGTGGCGGGAATACAGGAGGAAGAACCCTAGGGCCACCTGGTTTGT
CAGGGAGCCTAGACCGAAGATCACAAGAAGCTCGGCTGGCCGAAGAAACCTATCTTTGAGTTCCCTGGCTCCC
TCAGTGCTGCCAGCCATCTGAAGTCCCGGCTGAATGGCCAAGCAGTGAAGCCGTTACCACTGACCTGCCCTGACT
TCCAGGACCCCTTTTCTTGACGGAGAAGCCTCCAGCTGAGTTTGTCTGTCCCCAGATGGCAGCTCAGAGGCCA
TTTCCATTGACCTGCTTCAGAAAAAGGGCTGGTAAAGCTGTTAACATCGCTGTGGACCTCATTGTGGCTCATT
TTGGCACAAGCCGGGATCCCGGGGTGAAGGCAAAGCTGGGAACAGTTCTGTGAGCCCCAATGTGGGCCACCTGG
TTCTGAAGTACTTGTGCCCTGCCGTCCGCGCCGTGCTGGAGGATGGGCTCAAGGCCTTTGTACTGGACGTCATCA
TCGGGCAGCGTAAGAACATGCCATGGAGTGTGGTTGAGGCTTCCACACAGCTAGGCCCATCCACCAAGGTCTGTC
ATGGCCTCTACAACAAAGTCAGCCAATTCCAGAGCTCACCAGTCATACCATGCGCTTCAACGCCTTCATCCTCG
GCCTGCTCAACATCCGGTCCCTGGAGTTCTGGTTAATCACCTCTATAACCACGAAGACATCATCCAGACCCACT

4918/5332
FIGURE 4273B

ACCAGCCCTGGGGCTTCCTGAGTGCAGCTCATAACCGTGTGTCCCGGCCTCTTTGAAGAGCTGCTGCTGCTGCTAC
AGCCCCCTGGCCCTGCTGCCCTTCAGCCTCGACTTGCTGTTCCAGCACCGGCTGCTGCAAAGTGGGCAGCAGCAGC
GGCAGCACAAGGAAGTCTGCGGGTGTCCAGGACCTGCTGCTGTCTGCCACTCCACGCTGCAGCTGGCCCGGG
CCCGGGGCCAGGAGGGCCCTGGAGACGTGGACAGGGCAGCCCAAGGGGAGCGGGTGAAGGGTGTGGGTGCCTCAG
AAGGTGGAGAAGAGGAAGAGGAAGAAGAGGAGACAGAAGAGGTGGCAGAGGCAGCCGGGGGGCTCAGGGCGTGCCA
GGTGGGCCCCGAGGTGGGCAGGCCGGCTGGTGGTACCAGCTCATGCAGAGCTCCCAGGTCTACATCGATGGCTCCA
TTGAGGGTTCCAGGTTCCCTCGTGGTAGCAGCAACAGCAGCAGCGAGAAAAAGAAAGGGGCAGGAGGTGGGGGAC
CTCCCCAGGCTCCACCACCCCGAGAGGGAGTAGTGGAGGGGGCTGAGGCCCTGCCCTGCCTCTGAGGAGGCCCTGG
GCCGGGAAAGGGGGCTGGCCCTTCTGGATGGGGAGCCCCCTGACTCTGTGCTGGCCGAGCTGAGGCGCAGTCGGG
AGAGGGAAGGGCCCGCTGCCTCGCCAGCAGAAAAATGAGGAAGGGGCCTCAGAGCCTTCACCTGGAGGCATCAAGT
GGGGACACCTCTTTGGCTCCCCGAAAAGCCCAGCGGGAGGCCCGGCCCAAAATAGGCTCCCCCTCGGACTGGCTGA
GCCTGGACAAGTCCATGTTCCAACTAGTGGCGCAGACAGTGGGTTCCCGCGGGAGCCAGAGCCCAAGGAGAGCC
TGCAGGAGCCACACTCCCCAGCCCTGCCCTCCAGTCCTCCGTGTGAGGTGCAGGCACTGTGCCACCACCTGGCCA
CCGGCCCTGGACAGCTGAGCTTCCACAAAGGAGACATCCTACGAGTGCTGGGGCGAGCTGGAGGAGACTGGCTGC
GCTGCAGCCGTGGCCCCGACTCTGGCCTGGTGGCCCTGGCCTACGTGACATTGACCCCAACTCCAAGTCCAACCC
CTGGAAGCAGCCAAAACTGAGGCCCTGTGCATGCTGGTGGCCTCAGGGACCCTCATAACCCCCAGACTCAGAGCC
CGAGAGCCCTTCCCAAGCCATTGGCTTGGCTGCAGAGTAGACTGAGAGCTGGGGCCACGTATCCCTGTGCTGGCA
CCTGCTCCCTGTGCTCAGTATTAATTACGCCCCCTTAAGTGTCCAGTGACCTTGTCCAGACCTCCACCCAGGAG
AGGGATGGGACACAGCACTGGGCTGCCAGGATTCCCCTGGCCCGTCTGGGCCAACCCCTCCATGGGTGAAGACAA
GCAAGTCCCCCTGGAGGCGGGTGGCCAGAAAGCCATCTACAGGGTTCCTAGGCCAGGTGGAGATGAGGATGGG
TAACAGTATTGGGGCCAGATCCCTAAGCCCCCAGCTGTAAATAGGCTGTGGCCAGTGCCTGGTCATCAGAAGAG
GGAGGAGGAGCCCAGGCGTCTGTTATGTATTTATTTATTTATTTATTATACCTATTAATAAAAAAGGTGCTCAG
CCTCC

4919/5332
FIGURE 4274

GGGCGGCCGGCCAATGCCGGACCGCTTCGGCACCGCCCGCCCGATCCCTCCACCCTGGGGCCGGCAATGGCGGGC
GCAGTTTCGCTCTTGGGTGTGGTGGGGCTGCTGCTTGTGTCTGCGCTGTCCGGGGTCCTAGGAGACCGCGCCAAT
CCCGACCTCCGGGCACACCCAGGGAACGCAGCCCACCCCGGCTCTGGAGCCACGGAACCCCGGCGGCGACACCG
CTCAAGGATCAACGCGAGCGGACCCGGGCCGGGTCGCTGCCTCTGGGGGCGCTGTACACCGCGGCCGTCGCGGCT
TTTGTGCTGTACAAGTGTTCAGGGGAAAGATGAACTGCGGTTCTCCACGAGGAGGCAAGCAAGCAGCAGCCA
CTGCAGTCAGGTGGGTTTAGCAGAAGTCTGTGCTGGGTGCGGGGAGTTTAGGGGACAGCAGAAGATACATAACCA
CTTCTGCCCCCTTTTTCCCTTATCCCCAGAGCAACAGCTGGCCAGTTGACACAACAGCTGGCCCAGACAGAGC
AGCACCTGAACAACCTGATGGCCAGCTGGACCCCTTTTTGAGCGGTGAGGAGAGCAATGATTCTGTGAATTTT
TGGGGAATTTGTGGCAGGAGGGAGGAATGGGGACATAGGTTGGGAGCCACTGAGTGGACATTTCTTCAGTGTGAC
TACTCTGGCTGGAGCCCAGCAGGAGCTTCTGAACATGAAGCTATGGACCATCCACGAGCTGCTGCAAGATAGCAA
GCCGGAACAAGGATATGGAGGCTTCAGAACAGGTGAAGGCTCGGGAGGCGAGTCTGCTGGAGGTGGAGACAAAGT
CTCTGAAACTGGAACATTCCTGATCTCTCCCCACACAGAGGCCAGCAGACCTCTCCTGAGGACTTCTGTTTTAA
GGAGGACGAGGAGGAGATTGGTGACAGTCAGGCCTGGGAGGAGGCCACAACTGGAGCACAGAGACATGGAACCT
AGCTACTTCCTGGGAGGTGGGGCGGGGACTACGGAGAAGGTGCAGCCAGGCTGTGGCAAAGGGCCCCAGTCACAG
CCTTGGCTGGGAAGGAGGGACGACAGCTGAAGGTCGACTAAAACAAAGTCTGTTTTCATG

4920/5332

FIGURE 4275

AGTGTGATCCCTCAGCCAGGGCATGGAGCTCTCTGCCCCGGTTTCGCGGTGCCCGGTGCAAGAGCAGCGTGCCC
GCTGGGAGCGGAAACGCGCCTGCACCGCCCGGGAGCTGCTAGAGACCGAGCGGCGCTACCAAGAACAGCTGGGGC
TGGTGGCCACGTACTTTTTGGGGATCCTGAAAGCCAAGGGGACCCTGCGACCACCTGAGCGCCAGGCCCTGTTG
GCTCCTGGGAGCTCATCTACGGCGCCAGCCAGGAGCTGCTTCCCTACCTGGAAGGAGGATGCTGGGGCCAAGGGC
TGGAGGGCTTCTGCCGCCACTTGGAGCTCTATAACCAATTTGCTGCCAACTCAGAGAGGTCCCAGACCACCCTGC
AGGAGCAGCTAAAGAAAAATAAAGGTTTCCGGAGGTTTGTACGGCTTCAGGAAGGCCGCCCTGAGTTTGGGGGCC
TTCAGCTCCAGGACCTGCTCCCTCTGCCTCTGCAACGGCTCCAGCAGTATGAGAATCTCGTCGTAGCTTTGGCTG
AAAACACAGGTCCCAACAGCCCTGACCATCAACAGCTCACACCTGTCTTCCCTCATGAGAAGCTACTGCTTATG
TCCACAGACCAGGAGGAGCTGTACGCTGGTACCACAGTCTGACTTGGGCTATCAGCAGCCAGAAAACTAGAGG
AATCTTATAGATTCCAGAACTCAGGATACCTCAGGGATAGGTCACAGCCAAGAGTACAAAGGAATCTTCAGTACT
GAACAAAACAGAACCCCTTCATGATTTGACAAAGGTCACTTTCTGTTTGCTGGACCAAGCTACTCCAGATCATCT
GACCAACTCTTAAAAATCACGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAAGCAGAGGTGG
CAGGATCATTCCAGCCCAGGAGTTCAAGACCAGCCTGGGCAACACAGTGAGTGAGACCCTGTCTCTATTTAAGAA
AAAATAATTAAGAAATTTTATTAAAAAAGAAGATCAGGAAACCAAGTCCAACCCAACTAAACCTCAAATGAACC
AGCCCCTAACACAGATGAGGGGATTTGGGACTGATAAGCTCTGTGCTGTGTCCATGGCCCCGTATTTATCAAGGC
TGCAGCTTTGTAAATGTGGCTATTTTTATGTTGTGTATAGTTTCTATCATTTATTTTTCCACTGGATTTGAGTAA
AGTTTTTTTTCTTTTTTTGGGAAAGACCCTTCTGTCTCAGTTTTGCTATGAGAAAAGGGATTTTGGGGCCCTGA
ACGCGGGCATGCTGGTGGCCTCAGGAATACGAGGAAAAGAGCTGGAGCTCCCTCTATCTTCTGTCTGTCACT
GGAAGGCAGCCTCTTTTTGTCTTAATAAGGACAGCTCTCAAGAAGGCCAGTTGTCTTAGGCACCTAGTATGG
GTGTGTACAACCAACTAGGATCGAAAAACACACAGGAGCACTCCATCATGAAAACAGACTTTGTTTTAGTCGAC
CTTCAGCTGTGCTCCCTCCTTCCAGCCAAGGCTGTGACTGGGGCCCTTTGCCACAGCCTGGCTGCACCTTCTCC
GTAGTCCCCGCCCCACCTCCCAGGAAGTAGCTAGGTTCCATGTCTCTGTGCTCCAGTTTGTGGGCTCCTCCCAGG
CCTGATGTACCAATCTCCTCCTCGTCTCCTTTAAACAGAAGTCTCAGGAAGAGGTCTGCTGGCCTCTGTGT
GGGGAGAGATCAGGAATGTTCCAGTTTCAGAGACTTTGTCTCCACCTCCAGCAGACTCGCCTCCCGAGCCTTCAC
CTGGTTCTGAAGCCTCCATATCCTTGTCCGGCTTGCTATCTTGACAGCAGCTCGTGGATGGTCCATAGCTTCATGT
TCAGAAGCTCCTGCTGGGCTCCAGCCAGAGTAGTCACACTGAAGAAATGTCCACTCAGTGGCTCCCAACCTATGT
CCCCATTCTCCTCCTGCCACAAATTCCTCAAAAATTACAGAAATCATTGCTCTCCTCACCCTCAAAAAGGGG
GTCCAGCTGGGCCATCAGGTTGTTTCCAGGTGCTGCTCTGTCTGGGCCAGCTGTTGTGTCAACTGGGCCAGCTGTTG
CTCTGGGGATAAGGGAAAAAAGGGGGCAGAAGTGGTTATGTATCTTCTGCTGTCCCCTAAACTCCCCGACCCAG
CACAGACTTCTGCTAAACCCACCTGACTGCAGTGGCTGCTGCTTGTCTTGCCTCCTCGTGGAGAACCGCAGTTTCA
TCTTCCCCCTGTTGTGGAAGAAGGAAAGGGCAGTACTGAAGCAACAAGTTCTGCTCCATCACCTCAGTCTCCAG
AGCCAGCCAAGAGAGAGTGCAATTTGAGATGGAGACAGTGATTGGGTTTTTACCTCAGAGAATCACAATCCTAGT
CTATCTAGCTCCTCACCCAGCATATGAAGCGACGTCCTATGTCCACACATGGTCAGTTTGTGAAACACCTCCA
GGAATGAGCAACTCCCTCCGGTTTGAAAAAGCTCTGGTGGCTGAGTGCTGTGGCTCACACCTGTAATCCCAGCA
CTTCGGGAAGCCAAGGGCCTCCTCCAAGGAGAATGAGACCACCTTCATATCTGGAACCTAGAAAACACTGGCT
GCAGCAATCAACCTCCTGTGCCAAGGCTGGCCCCACTCTGTAGCATGGACACTGCTAGCTGGGTTCAAATCCCA
GCTCCAGCAGTTGCCAGCGCTGGGTGACCTCGAGCAAGTGACTACTCCTCACTGGATTGTAGGAGAACTAAATGT
GATAGTCATTATTTACAGTTTACCACACGCTCTTACATCCGTTACCTCCCTGGATCCTCAAAATAACCTCATAA
TATTGGAAGGCC

4921/5332
FIGURE 4276

GCCCGTACACACCGTGTGCTGGGACACCCACAGTCAGCCGCATGGCTCCCCTGTGCCCCAGCCCCTGGCTCCCT
CTGTTGATCCCGGCCCTGCTCCAGGCCTCACTGTGCAACTGCTGCTGTCACTGCTGCTTCTGGTGCCTGTCCAT
CCCCAGAGGTTGCCCCGGATGCAGGAGGATTCCCCCTTGGGAGGAGGCTCTTCTGGGGAAGATGACCCACTGGGC
GAGGAGGATCTGCCAGTGAAGAGGATTACCCAGAGAGGAGGATCCACCCGGAGAGGAGGATCTACCTGGAGAG
GAGGATCTACCTGGAGAGGAGGATCTACCTGAAGTTAAGCCTAAATCAGAAGAAGAGGGCTCCCTGAAGTTAGAG
GATCTACCTACTGTTGAGGCTCCTGGAGATCCTCAAGAACCCAGAATAATGCCCACAGGGACAAAGAAGGGGAT
GACCAGAGTCATTGGCGCTATGGAGGCGACCCGCCCTGGCCCCGGGTGTCCCAGCCTGCGCGGGCCGCTTCCAG
TCCCCGGTGGATATCCGCCCCAGCTCGCCGCCTTCTGCCCGGCCCTGCGCCCCCTGGAACCTCCTGGGCTTCCAG
CTCCCCGCCGCTCCAGAACTGCGCCTGCGCAACAATGGCCACAGTGTGCAACTGACCCTGCCTCCTGGGCTAGAG
ATGGCTCTGGGTCCCGGGCGGGAGTACCGGGCTCTGCAGCTGCATCTGCACTGGGGGGCTGCAGGTGCTCCGGGC
TCGGAGCACACTGTGGAAGGCCACCGTTTCCCTGCCGAGATCCACGTGGTTCACCTCAGCACCGCCTTTGCCAGA
GTTGACGAGGCCTTGGGGCGCCCGGGAGGCCTGGCCGTGTTGGCCGCCTTCTGGAGGAGGGCCCGGAAGAAAAC
AGTGCCTATGAGCAGTTGCTGTCTCGCTTGGAAGAAATCGCTGAGGAAGGCTCAGAGACTCAGGTCCCAGGACTG
GACATATCTGCACTCCTGCCCTCTGACTTCAGCCGCTACTTCCAATATGAGGGGTCTCTGACTACACCGCCCTGT
GCCAGGGTGTCTGACTGTGTTAACCAGACAGTGATGCTGAGTGCTAAGCAGCTCCACACCCTCTCTGAC
ACCCTGTGGGGACCTGGTGA CTCTCGGCTACAGCTGAACTTCCGAGCGACGCAGCCTTTGAATGGGCGAGTGATT
GAGGCCTCCTTCCCTGCTGGAGTGGACAGCAGTCCTCGGGCTGCTGAGCCAGTCCAGCTGAATTCCTGCCTGGCT
GCTGGTGACATCCTAGCCCTGGTTTTTGGCCTCCTTTTTGCTGTCAACAGCGTCGCGTTCCTTGTGCAGATGAGA
AGGCAGCACAGAAGGGGAACCAAAGGGGGTGTGAGCTACCGCCCAGCAGAGGTAGCCGAGACTGGAGCCTAGAGG
CTGGATCTTGGAGAATGTGAGAAGCCAGCCAGAGGCATCTGAGGGGGAGCCGGTAACTGTCCTGTCCTGCTCATT
ATGCCACTTCCTTTTAACTGCCAAGAAATTTTTTAAATAAATATTTATAAT

4922/5332
FIGURE 4277

TCCCGCTCCGTCCTCCTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGTCGGTCTCACCG
CCTGCCGGCCGGCCACCCCCACCGCAGCCATGAGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTGGACAA
GGAGAACGCCATCGACCGCGCCGAGCAGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTGCAAGCAGCTGGA
GGAGGAGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAA
GGAGGCCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGCCTCCCTGAACCG
CCGCATTGAGCTGGTTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCCTGGCTACAGCCCTGCAGAAGCTGGAGGA
GGCCGAGAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGGTCATCGAAAACCGGGCCATGAAGGATGAGGAGAA
GATGGAAGCTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTGAGACCGCAAATATGAAGAGGT
GGCCAGGAAGCTGGTGATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGTGGCCGAGAGCCGAGC
CAGACAGCTGGAGGAGGAACCTTCGAACCATGGACCAGGCCCTCAAGTCCCTGATGGCCTCAGAGGAGGAGTATTC
CACCAAAGAAGATAAATATGAAGAGGAGATCAAACTGTTGGAGGAGAAGCTGAAGGAGGCTGAGACCCGAGCAGA
GTTTGCCGAGAGGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGAAGAGACCTTGGCCAGTGCCAAGGA
GGAGAACGTCGAGATTACCCAGACCTTGGACCAGACCCTGCTGGAAGTCAACAACCTGTGAGGGCCAGCCCCACC
CCCAGCCAGGCTATGGTTGCCACCCCAACCAATAAACTGATGTTACTAGCCTCTC

4923/5332
FIGURE 4278A

AACTCGGGCGTCGTCCTGGCGTCTCTCCGGATTGCGCCGCACCCTCGCTTCTGCCAGGGAGGGGCTGCCGGGC
TTTGGCGGCTCCCGAGCATCGAGAACGGGGCCAGAGCAGCTTCTGCCTGCCCCCGCACCATAGAGCGCGGGC
CCAGGGCGCCGCCCCGCGGTGGGGACGTTCCAGGACGGAAGTGCCGAGAGAGTGTCTGAAGGGAGGGCGAGGC
CGGAGCCCGAGGGCGACCCGAGAAGCGGCGGGGCGGGCGGGCGGGCGGGGCGCAGAGCCAGGCAGCGCAGGT
ATAGCCAGGCTGGAGAAAAGAAGCTGCCACCATGTTGCACTTTCACTGAAGATCAGCATTGGGAATGTGGTGAA
GACGATGCAGTTTGGCCGTCTACCATGGTGTACGACGCCTGCCGCATCATTCTGTAGCGGATCCCAGAGGCCCC
AGCTGGTCTCTCCAGCGACTTTGGGCTCTTTCTGTCTAGATGATGACCCAAAAAGGTATATGGCTGGAGGCTGG
GAAAGCTTTGGACTACTACATGCTCCGAAATGGGGACACTATGGAGTACAGGAAGAAACAGAGACCCCTGAAGAT
CCGTATGCTGGATGGAAGTGTGAAGACGATCATGGTGGATGACTCTAAGACTGTCACTGACATGCTCATGACCAT
CTGTGCCCCGATTGGCATCACCAATCATGATGAATATTCTTGGTTCGAGAGCTGATGGAAGAGAAAAAGGAGGA
AATAACAGGGACCTTAAGAAAGGACAAGACATTGCTGCGAGATGAAAAGAAGATGGAGAACTAAAGCAGAAATT
GCACACAGATGATGAGTTGAAGTGGCTGGACCATGGTGGGACACTGAGGGAGCAGGGTGTAGAGGAGCAGAGAC
GCTGCTGCTGCGGAGGAAGTTCTTTTACTCAGACCAGAATGTGGATTCCCGGGACCCTGTACAGCTGAACCTCCT
GTATGTGCAGGCACGAGATGACATCCTGAATGGCTCCCACCCTGTCTCCTTTGACAAGGCCTGTGAGTTTGTCTGG
CTTCCAATGCCAGATCCAGTTTGGGCCCCACAATGAGCAGAAGCACAAGGCTGGCTTCTTTGACCTGAAGGACTT
CCTGCCCAAGGAGTATGTGAAGCAGAAGGGAGAGCGTAAGATCTTCCAGGCACACAAGAATTGTGGGCAGATGAG
TGAGATTGAGGCCAAGGTCCGCTACGTGAAGCTAGCCCGTTCTCTCAAGACTTACGGTGTCTCCTTCTTCTGGT
GAAGGAAAAAATGAAAGGGAAGAACAAGCTAGTGCCAGGCTTCTGGGCATCACCAAGGAGTGTGTGATGCGAGT
GGATGAGAAGACCAAGGAAGTGATCCAGGAGTGAACCTCACCAACATCAAACGCTGGGCTGCGTCTCCCCAAAAG
CTTACCCTGGATTTTGGAGATTACCAAGATGGCTATTACTCAGTACAGACAAGTGAAGGGAGCAGATTGCACA
GCTCATTGCCGGCTACATCGATATCATCCTGAAGAAGAAAAAAGCAAGGATCACTTTGGGCTGGAAGGAGATGA
GGAGTCTACTATGCTGGAGGACTCAGTGTCCCCAAAAAGTCAACAGTCTGTCAGCAGCAATACAACCGGTGGG
GAAAGTGGAGCATGGCTCTGTGGCCCTGCCTGCCATCATGCGCTCTGGAGCCTCTGGTCTGAGAAATTCCAGGT
GGGCAGCATGCCCCCTGCCAGCAGCAGATTACCAGCGGCCAGATGCACCGAGGACACATGCCTCCTCTGACTTC
AGCCCAGCAGGCACTCACTGGAACCATTAACTCCAGCATGCAGGCCGTGCAGGCTGCCAGGCCACCCTGGATGA
CTTTGACACTCTGCCGCTCTTGGCCAGGATGCTGCCCTAAGGCCTGGCGTAAAAACAAGATGGATGAATCAAA
GCATGAGATCCACTCTCAGGTAGATGCCATCACAGCTGGTACTGCGTCTGTGGTGAACCTGACAGCAGGGGACCC
TGTGAGACAGACTATACCGCAGTGGCTGTGTCAGTACCACAAATCTCCTCCAACCTGACGGAGATGTCCCGTGG
GGTGAAGCTGTGGCTGCCTTGTGGAGGACGAAGGCGGAGTGGTGGCCCCCTGTTGCAGGCAGCAAAAGGCCCT
TGCGGGAGCAGTGTGAGAGTCTGCGCAGTGCCCAAGCCAGTGTGAGCCCCGTGAGAACCTGCTGCAAGC
AGCTGGGAACGTGGGCCAGGCCAGTGGGAGCTGTTGCAACAAATGGGGAAAGTGATACTGACCCCCACTTCCA
GGATGCGCTAATGCAGCTCGCCAAAGCTGTGGCAAGTGCTGCAGCTGCCCTGGTCTCAAGGCCAAGAGTGTGGC
CCAGCGGACAGAGGACTCGGGACTTCAGACCCAAGTTATTGCTGCAGCAACACAGTGTGCCCTATCCACTTCCCA
ACTAGTGGCCTGTACTAAGGTGGTGGCACCTACAATCAGCTCACCTGTCTGCCAAGAGCAACTGGTGGAGGCTGG
ACGACTGGTAGCCAAAGCCGTGGAGGGCTGTGTGTCTGCCTCCAGGCAGCTACAGAGGATGGGCAACTGTTGCG
AGGGGTAGGAGCAGCAGCCACAGCTGTACCCAGGCCCTAAATGAGCTGCTGCAGCATGTGAAAGCCCATGCCAC
AGGGGCTGGGCTGCTGGCCGTATGACCAGGCTACTGACCCATCCTAACCGTCACTGAGAACATCTTTAGCTC
CATGGGTGATGTGGGGAGATGGTGCACAGGCCCGCATCTGGCCCAAGCCACATCTGACCTGGTCAATGCCAT
CAAGGCTGATGTGAGGGGGAAAGTGATCTGGAGAACTCCCGCAAGCTCTTAAGTGCTGCCAAGATCCTAGCTGA
TGCCACAGCCAAGATGGTAGAGGCTGCCAAGGGAGCAGCTGCCACCCTGACAGTGAGGAGCAGCAGCAGCGGCT
GCGGGAGGCAGCTGAGGGGCTGCGCATGGCCACCAATGCAGCTGCGCAGAATGCCATCAAGAAAAAGCTGGTGCA
GCGCTGGAGCATGCAGCCAAGCAGGCTGCAGCCTCAGCCACACAGACCATCGCTGCAGCTCAGCACGCAGCCTC
TACCCCCAAGGCCTCTGCCGCCCCCAGCCCCCTGCTGGTGCAGAGCTGCAAGGCAGTGGCAGAGCAGATTCCACT
GCTGGTGCAGGGCGTCCGAGGAAGCCAAGCCCAGCCTGACAGCCCCAGCGCTCAGCTTGCCCTCATTGCTGCCAG
CCAGAGCTTCTGCAGCCAGGTGGGAAGATGGTGGCAGCTGCAAAGGCCCTCAGTGCCAACGATTACAGACCAGGC
TTCAGCCATGCAGTGAGTCACTGTGCCAAGAACCTGGGCACCGCGTGGCTGAACTCCGGACGGCTGCCAGAA
GGCTCAGGAAGCATGTGACCTTTGGAGATGGATTCTGCACTGAGTGTGGTACAGAATCTAGAGAAAGATCTACA
GGAAGTGAAGGCAGCAGCTCGAGATGGCAAGCTTAAACCCTTACCTGGGGAGACAATGGAGAAGTGTACCCAGGA

4924/5332
FIGURE 4278B

CCTGGGCAACAGCACCAAAGCCGTGAGCTCAGCCATCGCCCAGCTACTGGGAGAGGTTGCCAGGGCAATGAGAA
TTATGCAGGTATTGCAGCTCGGGATGTGGCAGGTGGGCTGCGGTCACTGGCCCAGGCCGCTAGGGGAGTCGCTGC
ACTGACGTCAGATCCTGCAGTGCAGGCCATTGTACTTGATACGGCCAGTGATGTGCTGGACAAGGCCAGCAGCCT
CATTGAGGAGGCGAAAAAGGCAGCTGGCCATCCAGGGGACCCTGAGAGCCAGCAGCGGCTTGCCCAGGTGGCTAA
AGCAGTGACCCAGGCTCTGAACCGCTGTGTGCTGAGCTGCCTACCTGGCCAGCGGATGTGGATAATGCCCTGAGGGC
AGTTGGAGATGCCAGCAAGCGACTCCTGAGTGACTCGCTTCCTCCTAGCACTGGGACATTCAAGAAGCTCAGAG
CCGTTGAATGAAGCTGCTGCTGGGCTGAATCAGGCAGCCACAGAAGTGGTGCAGGCCTCTCGGGGAACCCCTCA
GGACCTGGCTCGAGCCTCAGGCCGATTGGACAGGACTTCAGCACCTTCCTGGAAGCTGGTGTGGAGATGGCAGG
CCAGGCTCCGAGCCAGGAGGACCGAGCCCAAGTTGTGTCCAACCTTGAAGGGCATCTCCATGTCTTCAAGCAAACCT
TCTTCTGGCTGCCAAGGCCCTGTCCACGGACCCCTGCTGCCCCCTAACCTCAAGAGTCAGCTGGCTGCAGCTGCCAG
GGCAGTAACCTGACAGCATCAATCAGCTCATCACTATGTGCACCCAGCAGGCACCCGGCCAGAAGGAGTGTGATAA
CGCCCTGCGGGAATTGGAGACGGTCCGGGAACCTCCTGGAGAACCCAGTCCAGCCCATCAATGACATGTCTACTT
TGGTTGCCCTGGACAGTGTAATGGAGAACTCAAAGGTGCTGGGCGAGGCCATGACTGGCATCTCCCAAATGCCAA
GAACGGAAACCTGCCAGAGTTTGGAGATGCCATTTCACAGCCTCAAAGGCACCTTGTGGCTTCACCGAGGCAGC
TGCACAGGCTGCATATCTGGTTGGTGTCTCTGACCCCAATAGCCAAGCTGGACAGCAAGGGCTAGTGGAGCCAC
ACAGTTTGGCCGTGCAAACAGGCAATTCAGATGGCCTGCCAGAGTTTGGGAGAGCCTGGCTGTACCCAGGCCCA
GGTGCTCTCTGCAGCCACCATTGTGGCTAAACACACCTCTGCACTGTGTAAACAGCTGTGCGCTGGCTTCTGCCCG
TACCACCAATCCTACTGCCAAGCGCCAGTTTGTACAGTCAGCCAAGGAGGTGGCCAACAGCACAGCTAATCTTGT
CAAGACCATCAAGGCGGTAGATGGGGCCTTCACAGAGGAGAACCGTGCCAGTGCCGAGCAGCAACAGCCCCCTCT
GCTGGAGGCTGTGGACAATCTGAGTGCCTTTGCGTCCAACCCCTGAGTTCTCCAGCATTCTGCCAGATCAGCCC
TGAGGGTCCGGCTGCCATGGAGCCCATTTGTATCTCTGCCAAGACAATGTTAGAGAGTGCCGGGGGACTCATCCA
GACAGCCCCGGGCCCTCGCAGTCAATCCCCGGGACCCCGAGCTGGTCCGGTGCTGGCCGGCCACTCCCGTACTGT
CTCAGACTCCATCAAGAAGCTAATTACAAGCATGAGGGACAAGGCTCCAGGGCAGCTGGAGTGTGAAACGGCCAT
TGAGGCTCTGAACAGTTGTCTACGGGACCTAGACAGGCTTCCTCTGCTGCAGTCAGCCAGCAGCTTGCTCCCCG
TGAGGGAACTCTCTCAAGAGGCCTTGACACTCAGATGCTCACTGCAGTCCAAGAGATCTCCCATCTCATTGAGCC
GCTGGCCAATCTCTGCCCCGGGCTGAAGCCTCCAGCTGGGACACAAGGTGTCCAGATGGCGCAGTACTTTGAGCC
GCTCACCCCTGGCTGCAGTGGGTGCTGCCTCCAAGACCCTGAGCCACCCGCAGCAGATGGCACTCCTGGACCAGAC
TAAAACATTGGCAGAGTCTGCCCTGCAGTTGCTATACACTGCCAAGGAGGCTGGTGGTAACCCAAAGCAAGCAGC
TCACACCCAGGAAGCCCTGGAGGAGGCTGTGCAGATGATGACCGAGGCCGTAGAGGACCTGACAACAACCCCTCAA
CGAGGCAGCCAGTGCTGCTGGGGTCTGTTGGTGGCATGGTGGACTCCATCACCCAGGCCATCAACCAGCTAGATGA
AGGACCAATGGGTGAACCAGAAGGTTCTTCTGTTGATTACCAAAACAATATGGTGGGACAGCCAAGGCCATTGC
AGTGACCGTTTACAGGAGATGGTTACCAAGTCAAACACCAGCCCAGAGGAGCTGGGCCCTCTTGCTAACAGCTGAC
CAGTGACTATGGCCGTCTGGCCTCGGAGGCCAAGCCTGCAGCGGTGGCTGCTGAAAATGAAGAGATAGGTTCCTCA
TATCAAACACCGGGTACAGGAGCTGGGCCATGGCTGTGCCGCTCTGGTCAACCAAGGCAGGCGCCCTGCAGTGCAG
CCCCAGTGATGCCTACACCAAGAAGGAGCTCATAGAGTGTGCCCGGAGAGTCTCTGAGAAGGTCTCCACGTCTCT
GGCTGCGCTCCAGGCTGGGAATCGTGGCACCCAGGCCTGCATCACAGCAGCCAGCGCTGTGTCTGGTATCATTGC
TGACCTCGACACCACCATCATGTTGCCACTGCTGGCACGCTCAATCGTGAGGGTACTGAACTTTTCTGCTGACCA
CCGGGAGGGCATCTGAAGACTGCGAAGGTGCTGGTGGAGGACACCAAGGTCTGGTGAAAACGCAGCTGGGAG
CCAGGAGAAGTTGGCGCAGGCTGCCAGTCTCCGTGGCGACCATACCCGCTCGCTGATGTGGTCAAGCTGGG
TGCAGCCAGCCTGGGAGCTGAGGACCCTGAGACCCAGGTGGTACTAATCAACGCAGTGAAAGATGTAGCCAAAGC
CCTGGGAGACCTCATCAGTGCAACGAAGGCTGCAGCTGGCAAAGTTGGAGATGACCCTGCTGTGTGGCAGCTAAA
GAACTCTGCCAAGGTGATGGTGACCAATGTGACATCATTGCTTAAGACAGTAAAGCCGTGGAAGATGAGGCCAC
CAAAGGCACCTCGGGCCCTGGAGGCAACACAGAACACATACGGCAGGAGCTGGCGGTTTTCTGTTCCCCAGAGCC
ACCTGCCAAGACCTTACCCAGAAAGACTTCATCCGAATGACCAAGGGTATCACCATGGCAACCGCCAAGGCCGT
TGCTGCTGGCAATTCTGTGTCGCCAGGAAGATGTGATTGCCACAGCCAATCTGAGCCGCGCTGCTATTGCAGATAT
GCTTCGGGCTTGCAAGGAAGCAGCTTACCACCCAGAAGTGGCCCCCTGATGTGCGGCTTCGAGCCCTGCACTATGG
CCGGGAGTGTGCCAATGGCTACCTGGAAGTGTGGACCATGTACTGCTGACCCTGCAGAAGCCAAGCCCAAGCACT
GAAGCAGCAGTTGACAGGACATTCAAAGCGTGTGGCTGGTTCCGTCACTGAGCTCATCCAGGCTGTGAAGCCAT

4925/5332
FIGURE 4278C

GAAGGGAACAGAATGGGTAGACCCAGAGGACCCACAGTCATTGCTGAGAATGAGCTCCTGGGAGCTGCAGCCGC
CATTGAGGCTGCAGCCAAAAAGCTAGAGCAGCTGAAGCCCCGGGCCAAACCCAAGGAGGCAGATGAGTCCTTGAA
CTTTGAGGAGCAGATACTAGAAGCTGCCAAGTCCATTGCAGCAGCCACCAGTGCCTGGTAAAGGCTGCGTCGGC
TGCCCAGAGAGAACTAGTGGCCCAAGGGAAGGTGGGTGCCATTCCAGCCAATGCACTGGACGATGGGCAGTGGTC
CCAGGGCCTCATTCTGCTGCCCGGATGGTGGCTGCGGCCACCAACAATCTGTGTGAGGCAGCCAATGCAGCTGT
ACAAGGCCATGCCAGCCAGGAGAAGCTCATCTCATCAGCCAAGCAGGTAGCTGCCTCCACAGCCCAGCTCCTTGT
GGCCTGCAAGGTCAAGGCTGACCAGGACTCGGAGGCAATGAAACGACTTCAGGCTGCTGGCAACGCAGTGAAGCG
AGCCTCAGATAATCTGGTGAAGCAGCACAGAAGGCTGCAGCCTTTGAAGAGCAGGAGAATGAGACAGTGGTGGT
GAAAGAGAAGATGGTTGGCGGCATTGCCCAGATCATCGCAGCACAGGAAGAAATGCTTCGGAAGGAACGAGAGCT
GGAAGAGGCGCGGAAGAACTGGCCCAGATCCGGCAGCAGCAGTACAAGTTTCTGCCTTCAGAGCTTCGAGATGA
GCACTAAAGAAGCCTCTTCTATTTAATGCAGACCCGGCCCAGAGACTGTGCGTGCCACTACCAAAGCCTTCTGGG
CTGTGCGGGGCCAACCTGCCCAACCCAGCACTCCCCAAAGTGCCTGCCAAACCCAGGGCCTGGCCCCGCCAG
TCCCGCAGTACATCCCCTGTCCCCTCCCCAACCCCAAGTGCCTTCATGCCCTAGGGCCCCCAAGTGCCTGCCCC
TCCCCAGAGTATTAACGCTCCAAGAGTATTATTAACGCTGCTGTACCTCGATCTGAATCTGCCGGGGCCCCAGCC
CACTCCACCCTGCCAGCAGCTTCCGGCCAGTCCCCACAGCCTCATCAGCTCTCTTCACCGTTTTTTGATACTATC
TTCCCCACCCCCAGCTACCCATAGGGGCTGCAGAGTTATAAGCCCCAAACAGGTCATGCTCCAATAAAAATGAT
TCTACCTAC

4926/5332
FIGURE 4279

ATGGAGCTGGAATTGGATGCTGGTGACCAAGACCTGCTGGCCTTCCTGCTAGAGGAAAGTGGAGATTTGGGGACG
GCACCCGATGAGGCCGTGAGGGCCCCACTGGACTGGGCGCTGCCGCTTTCTGAGGTACCGAGCGACTGGGAAGTA
GATGATTTGCTGTGCTCCCTGCTGAGTCCCCCAGCGTCGTTGAACATTCTCAGCTCCTCCAACCCCTGCCTTGTC
CACCATGACCACACCTACTCCCTCCCACGGGAAACTGTCTCTATGGATCTAGAGAGTGAGAGCTGTAGAAAAGAG
GGGACCCAGATGACTCCACAGCATATGGAGGAGCTGGCAGAGCAGGAGATTGCTAGGCTAGTACTGACAGATGAG
GAGAAGAGTCTATTGGAGAAGGAGGGGCTTATTCTGCCTGAGACACTTCCTCTCACTAAGACAGAGGAACAAATT
CTGAAACGTGTGCGGAGGAAGATTGAAAATAAAAGATCTGCTCAAGAGAGCCGCAGGAAAAAGAAGGTGTATGTT
GGGGGTTTAGAGAGCAGGGTCTTGAATACACAGCCCAGAATATGGAGCTTCAGAACAAAGTACAGCTTCTGGAG
GAACAGAATTTGTCCCTTCTAGATCAACTGAGGAAACTCCAGGCCATGGTGATTGAGATATCAAACAAAACCAGC
AGCAGCAGCACCTGCATCTTGGTCCTACTAGTCTCCTTCTGCCTCCTCCTTGTACCTGCTATGTACTCCTCTGAC
ACAAGGGGGAGCCTGCCAGCTGAGCATGGAGCCAGCTTCGTGCCCTCCCCAGTGAGGACCCTTACCAGCTGGAGC
TGCTTGCCCTGCAGTCAGAAGTGCCGAAAGACAGCACACACCAGTGGTTGGACGGCTCAGACTGTGTACTCCAGG
CCCCTGGCAACACTTCCTGCCTGCTGCATTACATGCCTCAGGCTCCCAGTGCAGAGCCTCCCCTGGAGTGGCCAT
TCCCTGACCTCTTCTCAGAGCCTCTCTGCCGAGGTCCCATCCTCCCCCTGCAGGCAAATCTCACAAGGAAGGGAG
GATGGCTTCCTACTGGTAGCCCCCTCTGTCATTTGTCAGGACAGATACTCAGGCTAG

4927/5332
FIGURE 4280

AGACCGGAAAGGGCTCGGGTCATCCCGGCGCCAGGGTCACCTTCCCACGGGCTGGCACCTGGGCGCGGGCGCTG
CCCCGGAGCCGGCCGGCGGGACCTGGCGCCCAATCCTGGGGGACCCGGTGCCGTGGCCAGGGGCCGGGCGGAGG
TCCCGGGGGCGGTGCCTTGGCGGGCCGTCCCGGGGCGGTGCCTGGTGGGCTGGCCCCGCGGCTCCTCCCCTCTCT
GCGGGCCAGTCGCCCTTGGCGGGCGAGCTAATCGTCGGCTCAATGACGACGAGGCCGACCCTTCCCGTCCA
GGACCTACAGAGACAACCGAAGGAGAGCCCAAGGCGGCTTCTTTGCTGTGCGCGCCCCACTGAAGCAAGAGCTC
CCCGGCTCCACTGAAACACCAGCTCATTAAAGCTTTCCCCAACGCCCGGCCCTCCGGGACGATACCTAACAACGA
CCGGCGCCCGCATCTGGAATAGGCTGGCGAGATACTAGTATCCGAGGGCTCGGGACTTGGCGCCATCGAGGTCA
TGGGGACCCAGGATCCAGGGAACATGGGAACCGGCGTCCCAGCCTCGGAGCAGATAAGCTGTGCCAAAGAGGATC
CACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGATGTGCAGGTTACAGACTGTAAGAGTCCCGAAGACA
GCCGACCCCAAAAGAGACGGACTGCTGCAATCCGAGGACTCTGGGCAGCTGATGGTTTCCTATGAGGGTAAAG
CTATGGGCTACCAGGTGCCTCCCTTTGGCTGGCGCATCTGTCTGGCTCATGAGTTTACAGAGAAGAGGAAACCCT
TTCAAGCTAACAACGTCTCCCTAAGCAACATGATAAAGCATATAGGCATGGGCTTGAGGTACCTGCAGTGGTGGT
ACCGGAAGACCCATGTGGAAAAGAAGACACCTTTCATCGACATGATCAATTCTGTACCCCTAAGACAGATTTATG
GTTGTCCCTTGGGTGGCATCGGGGGAGGCACTATTACCCGTGGCTGGAGAGGCCAGTTCTGTGCTTGGCAGCTTA
ACCTTGGAATGTATCAGCACCGGACAGTCACTCGCTGACCAAGACAGCAGCCTGCCTGTAGGAGTCTTTGTGTGGG
ATGTGGAATAAGAGGGGACGAAGCTCTAGAATGTGTCCATCATGTTCTCCATGCGGAATGGACTGGGTGGTGGAG
ACGATGCCCCAGGGGTTTGTGGAATGAGCCCTTCTGTCTGGAGCGTAGCGGGGAACTGTCCGGGGGCTGCTCCT
GCATCATCCAACCCCTTCCAAACCCCTACACGATGGCTGTGGCTGCACGAGTCACGGCAGCTACCACGGTAACCCA
CATCAGACCTTTGACCCTGACAGCACGGGGCAGCAGGTGTGGCAGGATCTACTTCAGGATGGACAGCTGGACTC
TCCCACTGGCCAAAGCACCCCTACGCAGAAAGGAGTAGGCATTGCTGGAGCTGTGTGTGTTCCAGCAAGTTGCG
ACCTCGAGGGCAGTGCCGCCTGGAGTTTCACTGGCTTGGGACATGCCCAGGATCATGTTTGGAGCTAAAGGCCA
AGTCCACTACAGGCGGTATACAAGGTTCTTTGGCCAGGATGGAGATGCAGCACCTGCCCTCAGCCACTATGCACT
GTGCCGATACGCAGAGTGGGAAGAGAGGATCTCAGCTTGGCAGAGCCCGGTATTGGATGACAGATCACTGCCTGC
CTGGTACAAATCTGCGCTGTTCAATGAACTATACTTCTGGCTGATGGAGGCACAGTGTGGCTGGAAGTTCTTGA
GGACTCCCTACCAGAGGAGCTGGGCAGAAACATGTGTACCTCCGCCCCACCCTACGGGACTACGGTCGATTGCG
CTACCTTGAGGGCCAGGAGTACCGCATGTACAACACATATGATGTCCACTTTTATGCTTCTTTGCCCTCATCAT
GCTCTGGCCCAAACCTTGAGCTCAGCCTACAGTATGACATGGCTCTGGCCACTCTCAGGGAGGACCTGACACGGCG
ACGGTACCTGATGAGTGGGGTGTGGCACCTGTGAAAAGGAGGAACGTATCCCCATGATATTGGGGACCCAGA
TGATGAACCATGGCTCCGCGTCAATGCATATTTAATCCATGATACTGCTGATTGGAAGGACCTGAACCTGAAGTT
TGTGCTGCAGGTTTATCGGGACTATTACCTCACGGGTGATCAAACTTCTGAAAGGACATGTGGCCTGTGTGTCT
AGCTGTGATGGAATCTGAAATGAAGTTTGACAAGGACCATGATGGACTCATTGAAAATGGAGGCTATGCAGACCA
GACCTATGATGGATGGGTGACCACAGGCCCCAGTGCTTACTGTGGAGGGCTGTGGCTGGCAGCTGTGGCTGTGAT
GGTCCAGATGGCTGCTCTGTGTGGGGCACAGGACATCCAGGATAAGTTTTCTTCTATCCTCAGCCGGGGCCAAGA
AGCCTATGAGAGACTGCTGTGGAATGGCCGCTATTACAACATATGACAGCAGCTCTCGGCCTCAGTCTCGTAGTGT
TATGTCTGACCAAGTGTGCTGGACAGTGGTTCTGAAGGCCTGTGGCCTAGGAGAAGGAGACACTGAGGTGTTTCC
TACCCAACATGTGGTCCGTGCTCTCCAACTATCTTTGAGCTGAACGTCCAGGCCTTTGCAGGAGGGGCCATGGG
GGCTGTGAATGGGATGCAGCCCCATGGTGTCCCTGATAAATCCAGTGTGCAGTCTGATGAAGTCTGGGTGGGTGT
GGTCTACGGGCTGGCAGCTACCATGATCCAAGAGGGCCTGACTTGGGAGGGCTTCCAGACAGCTGAAGGCTGCTA
CCGTACCGTGTGGGAGCGCCTGGGTCTGGCCTTCCAGACCCAGAGGCATACTGCCAGCAGCGAGTGTTCGCTC
ACTGGCCTACATGCGGCCACTGAGCATATGGGCCATGCAGCTAGCCCTGCAACAGCAGCAGCACAAAAGGCCCTC
CTGGCCAAAAGTCAAACAGGGCACAGGACTAAGGACAGGGCCTATGTTTGGACCAAAGGAAGCCATGGCAAACCT
GAGCCAGAGTGAAGCGTCTGAACTGTGGGAGGGAAGTGCTAACAGCCAGCCTCCAGCCTGGCCTTTCTCTCTT
CCCCTCTGAACCTCCTGCAACCCTGAGCCATCAGGACAATCATACCCCTTCCCTTCTCTCCACCCAATTGTGCCA
GTAAATGGGGGTTGAGGGTGACCTAGGCAGCATTAGAATCACTTATTTATTTCTTCTCCTCACCTGTTCCCTGACT
CGGTGAAATGTTACGGGAGGTGAGTTGATTTCCCCAGGTACATTATGGTGTGACAGACACATGGGTACAAATAA
AAGACCCAGAAAGCC

4928/5332
FIGURE 4281A

GCCAGGTCCTGAGGGGCGGGCAGATGAGGCCTAGGGGTGCCGATCCCTAGTGTGCGACTATGCGAGATCTGATT
CGGAGCTGCCATGATTGAAGTGGTAGCAGAGCTCAGCCGGGGTCTGTATTTTGGCTGGGGAGGCGCTGGAGTG
TGTAAGTACCGTCACCAACCCCTTCCGCCCACGGCCACTTCTGCATCCAGTGAGGCCCTGGCCTGGGCCAGTGC
CCAAATCCACTGCCAGTTCCATGCCAGTGAGAGTCGAGTAGCACTGCCTCCTCCTGACTCTAGTCAGCCAGATGT
CCAGCCCAGACAGCCAGACTGTCTTTCTGCCACACCGAGAGGTGAGAGGGGCCAGTGTATCCTTTCTACTCCACCG
AAAATTCTATTCTGTGACCTGAGGCTTGATCCTGGAGAGTCCAAATCATACTCCTACAGTGAAGTGCTGCCATA
GAGGGACCACCTCCTTTCCGGGTCAGTCAGTCAAGTACGTCTACAACTGACCATTGGCTGCCAGCGTGTCAAC
TCCCTATCACTTTACTCAGAGTCCCTCTGAGGGTCTTGTGCTGACTGGCCTTCAGGATGTCCGGTTTCCCCAG
GATGAGGCTGTAGCCCCATCCAGTCCATTCTTGGAGGAGGATGAAGGTGGGAAGAAAGATTGCTGCTAGCTGAG
CTGGCTGGGGAACGCCTAATGGCTGCCACATCCTGCCGAGCCTCCATCTATAAATATCAGTGATGGCCGAGGG
AAAGTTGGGACGTTTGGCATCTTCAAATCTGTGTACAGACTTGGCGAGGACGTGGTGGGGACCTTAAACTTAGGG
GAAGGAACCGTAGCTTGTTCAGTTCAGTTCAGCTTACAGACCGAGGAGCGTGTACAGCCTGAGTACCAGCGG
CGACGTGGGGCAGGGGGTGTCCCTCTGTGTACATGTGACTACGCCCCGCCACAGGAATCCTGCCTACATACA
ACTAGAACCAGCTTCTCCCTCCCAATCCCTCTCAGCTCCACCCAGGCTTCTGTACAGCCATTGTGTCTTGAAG
TGGAGATTGCATTTTGAATTTGTAACGTCCCGAGAACCAGGATTGGTACTCCTACCCCTGTGGAACAGCCGAA
CCTACCACCTGGACAGGACCTGAGCAAGTACCTGTAGACACCTTCAGCTGGGACCTGCCCATCAAGGTGCTGCCT
ACTAGCCCCACCTGGCCTCATATGCTGCCCCAGGCCCCAGCACCAGCACCATAACCATCTGAACCTGGCCCCACC
CTGGTGCTAGTTTCTTCCGATACTGAGAACTCAGCACCTGGACTCTAATGGGACCCACTTTTTCCACCTGGGGT
CCAATGTCGTGGACAGTGAGAGTCGGGCTTTCAGCTATAGCATTAAATTTATTTGTTTCAAGATACATTGGCAGCTG
CTAGTGGTTTCCCTGGAAGTGGCAGCAGCAGTGAGCAGTCAGCAGATGGATGATCAGTTGAGTTTAGCTGGAGTG
GGGAGCAGGAGCCCCAGGAACAGGGGTGTTGGCTGAGCCCCATTCTGGGTGAGGCCCTCCCCCTTTCAGGGGCG
CCGAGGGTCAGATTTTGCACCAAGGAGAACTGGCAGGTTCTGCCTCCTGACGTACCTCACACCCAGCCGGGAA
GTCGATGGGATGCTGGGACCTGGGGAACCAAGGATAGGGGAAGGAGTCAGCACAGTGAAGGCTGCCTTTATCCC
TGCCACATGTTCCCTCTCTCAGATTTTCCCCCACAGAGCCCCCTTCAGTGGCCCCCTTGGTCTCTCTAACTAA
GCTGTACCTACCATATGTGGGCCTTTTTGTTTTATAACAGGAGTATTTCTCTCCAGGTCCACCCCAACCTCCC
CTGATTTATAGCCTGAAGCCTTATCTTTCACACTAGTGTGGTCCCTCAGGTTTGGCCCATCTTGTATTGCTCT
TCTGTTCACTTACATCACAGCAATCTAGTCACTCCCTGGTCACTCCCTCAGTCACTCATATCAGATCATTTCTC
TCTGGCCATCTTTGGTCACTCAGGTGTACAGAGCCCAACAGGATGCAGACAGGTGCAATGGAAACAGT
CCTTGGGAGGCCAAGACTACCCAGGGTAAATATTTCCCTCATAGTGACAGGGGGCTAGGGAAGAACGGGAAA
TGTTAGTAGGTGTAGGAGTGCTGATGAGAGGCAGAGGCTCTTCTGGTCTGGGGTGGAGACAGTAAGTACGCACTA
TCCCCGATTTTAGTTTGTCTTCTCTGTTTACAGCTGGAGGAAGCCTGGGTATTTTGACACGGGATCATCTGTAA
GGCCCCATCCTCCCTGTGCCCTCTCTGCTGCTCCTCCATTCTTAACGCTTCACCCCACTTTACCTTGAGCTTGA
AGTAGCACTTGCTGTAGACTCCTGGGTGCTGGAGGAGTAGAGACATACCAAGCAGATGATCCCCAGCCTCCTA
GGATCCCCCTGGCCTGTCCAGCCAGAGCATCCTTAGGGCCATTGCTGCTGCACAGCCCTCTCAGACCCTTCTTG
GCCTCTGCTCAGCTACTCTGGTCTTGACTCCTTGACTTTGCTTTGCGTTGCTCCTTGAGTCTTAGTTTCTGTCTT
TCTCCCTGGGCTCCTGTCTCACACTATCTCCCTGCCCTCTGCTCTCACAGGCTGGGGATGTTTATAAAGTGAGG
ACCCTGGCCCCCTGCTGAGTAGAGCTGGAAAAGTTGTAACCTCTGTTTCTGAGGTGAGGGCATGAAAACAAGAGG
TCTAGCTTTAACAAGCTGTGAGAGCTGATTGATGCCCCGGCACAGCTAGAGGGAGGGAGGTGGCCATGGAGGGGG
CACTGGACTGGGCACTTCCCCAGCAAGGAGGCAGGAGGGGGCAGGGCCCCCAGGTGGTCCCAGATCTCTCCCT
GACCTGGAGAGAAGGAAGCATTCCACCTTCCCCCTTTCTCCCCACTGCCACCACCAGGGGTGTGTATGCTGGGA
TCCCTGCCTGGACCGGAGGGAGGCATTTCTGGGGATGGTTAATCCTGTGCCCCAGCCAAACCCAGGAGCTGCAA
TAGGGTGGCAGCGCCAGAAGCTCCAGGAGAGTGAGCAGGCACCTGGAGTGGAGACTGTGTTTCCCTCAGATCCTA
GGGCAGGGTTTCCCTAATGTATCCAAGAAATAGGGCTGCCCTCAGAGATGGTGGGGAGGGTCTCTTTTCTCAG
GCATTCCAGAGGTGAAGTGTCCATTGCTTATCACCTTCAAACATACAGCAGATGTGGGATCACCACATCTGGG
GATGGTTCTTTCCCTTTCAAAGAGGAGCATCTCTAAGTGCCTGTAGGGATGAATCACTCCAGGTTACAGAGG
TGTCCTCTCTTTCCCTCCCATATATAATGGAGTGAGGTTTTTAGGAATTTATCATTTGGCATCCTCTGAGTTTCCC
ACAGGTTCTGGAGGAGCCAGGATGGATTATTGAGAGCATGGGCTGTAGAGACAGTCTTCTTGGATTGAGATCCT
GACTCCACTTAGCTATGTAACTGGTCAGATTACTTCACCTCTCTGAGCCTGTTTCTCTCATCTATAAATTGGGGA

4929/5332
FIGURE 4281B

TAGTAATGCCAACTCATTGGGCTGTTATGAGGATTACTGAGATAATGCGTGCAGTGCTCTTATCACCATCTCTGG
TGCGTAAGCGTCAGGAAATAGCAGTTGCTGTGATTGGGGCTAAAGCTCTGAGGCAAAATGGGCGACATTATTTTC
TTTGAATGACATTAAAGCAGTTTGTGCATAGCTGAGGGCTTCTATTGGGGATGGCTGTCTCCTGGCATAGACCTCT
GCACCTTTCACACTCATACTCCTTGTGTCAGCAGTCCCCAACCTTTTTTGGTACCAGGGACCGGTTTTGTGGAAAACA
ATTTTTCCACCAGTGGATGGAGGGGGATAGCAGCGGGGAGATGATTTTTGGGATGAACTGTTTCATCTCAGATCA
TCAGGCATTAGATTCTCATAAGGAGTGTGCAATCTAGATCCCTTGCATGCGGAGTTCACAGTGGGGTTTTGCACTC
CTGTGAGAATCTAATGCCCTCTGCTGATCTGCCAGGAGGAGGAGCTCAGGCGGTAATGCTCACTCGCCTGCCGCC
ACCTCCTGCTTTGTGCTCCCGCTTCCTAACAGGCCACAGACTGGTACTGGCCTGTGGCCTGGGGGATGGAGACCC
CTAATCCATGTACCTTTCCACCTCTTTCAAAAAACAGGTACCTCCAGGAACATTTTGGTTTTGGCCCTTGTATT
GACTTCTGAATGTCTAGTTTGAGAACTGTTCCCAATAAGCCTTCTTCCCCCAGATCTGCACCCCTCGCCTCTACC
CTAGGACAAGATGTCCTTTTCTCATCATCTGCCAGGCTAACTTTAAGTCTCCTGCTTTTTCTCACTTGGATTTG
GATCCATTTCTTCTATTTCCGCTCATGTGAACTCTCCAGTTCTCCTTTCTCACCCTCTCCTGCTAGCCATCTC
TTTGGCACTAAAGGCCCTGGTCAAATTGGATTTCTTTTCACTTTTCCACACTTCAAAGACCCATGTTCTAGGTATT
CTCCATAGGGATAGTCTCTTTGGCATTATTTGGTTTTTCTACGTTTTTCACTCCCATTACTCCAAGACTCACTC
CCTGCCACCTAGTGCATCAGATACAGCTACTTCTGGCTGACTTTTCAAGGGGGACCACCCTACCTGTCTCTCTT
CACTGTTTCAGAAATGACTGTGTGTCAGTGACCTCAAACCTCCCTTGTCTGCTTTTCCAAGGAGACAGCTAAGGTGG
ATGGAGATGCAGAAATGGACCTCACGTTCCGCTTAGTCAGGACTGATACCCTTTCCGTTTCAGAGGATTGCCAAGA
AAAACTCACAGTTGAGGCAGGGTGTCTGAGGTGCGCTGCGGTGTGGGAGGCACGGCCTGGGCCCTGCTCTCTGG
GCTGGAGCAGGTGGATTGCAAGGCCTGTCTAGCACGAGGGGCCAAAGGTCTTGTAGTGGCCAGTAGCTCTGCCG
CCTTTCCCAGAGAGGGGGTCCAGGGGACATCCTGGAAGCTGGGGCCTGGGCCACCTTCTGCTCTTGAAGCTAG
AGCCAGCCCCAATAGGGGGCGGATGTGAGTGGGGAGCTGGGGCGCATGAAGGTGGGGGTGATGCCGAAGGAAGG
GATCGCCAGTGGGGATTGGTGCCTGTGCGGAAACGGGGACAGAAGTGAAGGTTTCATCGCCTATAACGAAGATGAG
GTAGGCATATAGGGGCTTCTGGAAGCTAGAGGCTGGGCTGAGCCAGGAGTCTCTCCCAGAAGTTGGGGGGCGG
TGCAGAGGTGTGGGTGAGCCCGCATGCGTGCCCTGCTGGGGAGGGGGTGTAGTGGTGAAGGACCAGGCCCGCTGGGT
CCTGGGGGCGCGGTGGCTGGCGCGCAGGTCCCGGAGGGGGCGGCTGGCGCGCACTACACGCTTGGGAACAAGGAA
AACATCCGCCGGAGGCCCGGCCGGCGCTCCAGCCTCGGGGCGAGGTGCGCGGAGAGGAAGTGAGAGCATTCC
GGCCCCCCCCACCCCAACCCCGGCCGCTGGCCCTCTGGTGAGTACAGCCGACCCCCCGCCCGGAGGGAGAGGGG
AGCTGCGGGCCAGAGCCCCGAGGGTCTGGAGGAGCCAGGAGGGTTTCTGGGAGCAGAGGGTCACTTAGTGGGCT
TCTGTGCTGGTGTGCTACGGGCGCGAAACGGACACTGAACACAGTCTGACTGTATGGAGGCAGGTGGGGAGGGA
TCCCCTGGGAGAACTTGGCGGGCCGAGAGCAGACCCAGGGCAAGGAGGGGCCCCGAGGGGAAACCGGGAGTC
GGGCAGGTGGCGTAACCCAGAAAGGAAGGAGAGCCGGATTGATTGGGGTGAAGAGGAAGGAAGCACGCCAAGT
TAGGCCTGGGAGAACTGAGGGACCTGAGGAGGGAGGAGGGAGACCAACACAGGGTGGGAAGGCGGAAATGGCCAA
ACCCAGGCATCAGGTCTGTCCAGAGGCTGACGTAGACAGTGAAGGGTGAAGGGTAGGTTTTAGGAGTAGGGGGA
GTTATGATTATTTGGTTACATTTTGGGATTATTTGGTCTCACAGGTAGAAGGGAGCCTGCTGGTCTCTGTGTAA
GGATGGCTTAAAGCAAGGTTGTCTGCGTCTTGGATTACTGTCTGCCATTACGCTTTGCCAAAAAATTGGCAC
TGATCTGCACATTTTTATAGTCATTTAAATTTGTATGACTCTGTCAAATGATTTAAGTAATTTTGGTGGATTTT
AAAAATAAAAAAT

4930/5332
FIGURE 4282

ATGGCGCTGCCATCACTTCTGCTGTTGGTGGCAGCCCTGGCAGGTGGGGTGCCTCCTCCCGGGGCGCGGAACCTG
ACGCTGGCGGTGGTGTGCCAGAACACAACCTGAGCTATGCCTGGGCCTGGCCACGGGTGGGACCCGCTGTGGCA
CTAGCTGTGGAGGCTCTGGGCCGGGCACTGCCCCGTTGGACCTGCGGTTTGTGAGCTCCGAAGTGAAGGCGCCTGC
TCTGAGTACCTGGCACCCTGAGCGCTGTGGACCTCAAGCTGTACCATGACCCCGACCTGCTGTTAGGTCCCGGT
TGCGTGTACCCTGCTGCCTCTGTGGCCCGCTTTGCCTCCCACTGGCGCCTTCCCCTGCTGACTGCGGGTGTGTG
GCCTCTGGTTTTTTCGGCTAAGAAATGACCATTATCGTACCCTGGTTTCGCACTGGCCCCCTCTGCTCCCAAGCTGGGT
GAGTTTGTGGTGACACTACACGGGCACTTCAATTGGACTGCCCCGTGCTGCCTTGTGTACCTGGATGCTCGCACA
GATGACCGGCCTCACTACTTCACCATCGAGGGCGTCTTTGAGGCCCTGCAGGGCAGCAACCTCAGTGTGCAGCAC
CAGGTGTATGCCCGAGAGCCAGGGGGCCCCGAGCAGGCCACCCACTTCATCCGGGCCAACGGGCGCATTGTGTAT
ATCTGCGGCCCTCTGGAGATGTGTCATGAGATCCTGCTTCAGGCCAGAGGGAGAATCTGACCAATGGGGATTAT
GTCTTCTTTTACCTGGATGTCTTTGGGGAGAGTCTCCGTGCAGGCCCCACACGTGCTACAGGCCGGCCCTGGCAG
GACAATCGCACCCGGGAACAGGCCAGGCCCTCAGAGAGGCCCTTTCAGACTGTATTGGTGATCACGTACCGAGAA
CCCCCAAATCCTGAGTATCAGGAATTCAGAATCGTCTGCTGATAAGAGCCCGGAAGACTTTGGTGTGGAGCTG
GGCCCTTCCCTGATGAACCTCATCGCTGGCTGCTTCTATGATGGGATCCTGCTATATGCTGAAGTCTGAATGAG
ACAATACAGGAAGGAGGCACCCGGGAGGATGGACTTCGAATTGTGGAAAAGATGCAGGGACGAAGATATCACGGT
GTAAGTGGGCTGGTTGTCTGAGACAAGAACAATGACCGAGAGACTGACTTTGTCTCTGGGCCATGGGAGACCTG
GATTCTGGGGACTTTCAGCCTGCAGCCCACTACTCGGGAGCTGAGAAGCAGATTGGTGGACGGGACGGCCTATT
CCCTGGGTGAAGGGGGCTCCTCCCTCGGACAATCCCCCTGTGCCCTTGACTTGGACGACCCATCCTGTGATAAA
ACTCCACTTTCAACCTGGCAATTGTGGCTCTGGGCACAGGAATCACCTTCATCATGTTTGGTGTTCAGCTTC
CTAATTTTCCGAAAGCTGATGTGAGAGAAGGAGCTGGCTAGCATGTTGTGGCGTATTGCTGGGAAGAAGCTGCAG
TTTGGCAACTCAGAGCGTTATCACAAGGTGCAGGCAGTCGCCTCACACTGTGCTGCGGGGATCGAGTTACGGC
TCGCTCATGACAGCCCATGGGAAATACCAGATCTTTGCCAACACCGGTCACTTCAAGGGAAATGTTGTGCCATC
AAACATGTGAATAAGAAGCGCATGAGCTGACCCGGCAGGTTCTGTTTGAAGTCAAAATATGAGAGATGTTTCAG
TTCAACCATCTCACTCGCTTCATTGGCGCCTGCATAGACCCTCCCAACATTGCAATTGTCACTGAATACTGTCT
CGTGGGAGTTTTACAGGATATTCTAGAAAATGACAGCATCAACTTGGACTGGATGTTTCGTTATTCACTCATTAA
GACCTTGTTAAGGGCATGGCCTTTCTCCACAACAGCATTATTTTCATCGCATGGGAGTCTCAAGTCTTCAACTGT
GTGGTGGATAGTCGTTTTGTGCTCAAAATCACAGACTATGGCCTGGCCAGCTTCCGATCAACTGCTGAACCTGAT
GACAGCCATGCCCTCTATGCCAAGAAGCTGTGGACTGCCCCAGAAGTGTCACTGGGAACCCCTTGCCAACCCACA
GGCATGCAGAAGGCTGACGTCTATAGCTTTGGGATCATCTGCAGGAGATAGCACTTCGAGTGGTCTTTCTAC
TTGGAGGGCCTGGACCTCAGCCCCAAAGAGATTGTCCAGAAGGTACGAAATGGTCAAGCGCCATATTTCCGGCCA
AGCATTGACCGGACCCAAGTGAAGAGCTAGTTTTGCTGATGGAGCGATGTTGGGCTCAGGACCCAGCTGAG
CGGCCAGACTTTGGACAGATTAAGGGCTTCATTGGCGCTTTAACAAGGAGGGTGGCACCAGCATATTGGACAAC
CTCCTGCTGCGCATGGAACAGTATGCCAATAACTTGGAGAAGCTGGTGGAGGAACGCACACAGGCCTATCTGGAG
GAAAAACGCAAGGCTGAAGCTCTGCTCTACCAAACTCTACCCATTTCAGTGGCAGAGCAGTTAAAACGGGGAGAG
ACTGTACAGGCTGAGGCCTTTGACAGTGTACCATCTACTTCAGTGACATTGTTGGCTTCACAGCATTGTGAGCA
GAGAGCACCCCATGCAGGTAGTGACACTTCTTAATGACCTGTATACCTGCTTTGATGCCATAATTGACAACCTT
GATGTCTACAAGGTGGAGACGATTGGGGATGCTTACATGGTGGTATCTGGCCTCCAGGCCGAAATGGTCAACGC
CATGCACCAGAAATTGCTCGTATGGCCCTAGCATTACTAGATGCAGTTTCTTCCTTTGCAATCCGCCACCGACCC
CATGACCAGCTGAGGCTACGCATAGGGTCCATACTGGTAAGGCTGACTCTCACTCCAGCCCTAGTCTCCACCTT
TCCAGACTCTCCCAACCTGTTTCTTCTCAAAGGGCCAGTCTGTGCTGGGGTTGTTGGCTGCAAGATGCCCGTT
ATTGTCTTTTTTGGAGACACAGTGAACACTGCTTCTCGAATGGAGTCTAATGGTCAAGCGCTGAAGATCCATGTCT
CCTCTACCACCAAGGATGCCCTAGATGAGCTAGGATGCTTCCAGCTAGAGCTTCGGGGGGATGTGGAAATGAAGG
GAAAAGGAAAGATGCGAACATACTGGCTCTTAGGAGAGCGGAAAGGACCTCCTGGACTCCTGTAAACCCCCATT
TTCCAAGTCAGATAGTCTTCTGCTGCTGGTACCTGGGTGGGCAATGGCCACCATGTCTGCACACACCAGAAATG
GACATTTTTCATATGCAATGGAAAACAGCCACAAAAAACCTACCTTATATGGAAGTTGTAGCCCTCTGCAGCTCA
GCCCTGTACATATACCTGTCCCTCTCTGGCTTGGTCCCCTTCTCCTACTTTCTGTAAATATCTGTATCTAAAC
CAGAATATTTTGGTCAAATATAAAACAATAAT

4931/5332
FIGURE 4283

GTCTGAAGATGGAGACCAACGAGTCTACGGAGGGATCGCGGTGCGGTGCGGATCTTTAGACATACAGCCCAGCT
CCGAAGGACTGGGGCCCACTTCGGAACCGTTTCCTTCTTCAGATGACAGTCCCAGGTGCGCCCTGGCAGCTGCAA
CCGCAGCAGCTGCAGCGGTGCATCAGCTGCTGCAGCTACTGCAGCCTTCACTGCCAAAGCAGCTGCATTAT
CTACAAAGACCCCAGCGCCCTGTTCTGAGTTCATGGAGCCGTCTCTGACCCAGCCTTCTTGGGGAGCCCTGTG
CGGGACCCGGCTTTACCCACAATATAGCCCATGGGAGTCTTGGCTTTGAGCCCGTCTATGTTTCTGTATTGCTC
AGGACACTTGCCTACAAGTACCATAAGTTCTAATCCTGGCCCTGTTCCAGGCTCTAGCTCTGGGCCTGTTCTTG
GTTCCAGCTCAGGTGCTGGCCATGGCTCTGGCTCTGGCTCTGGTCTGGCTGTGGCTCTGTCCCTGGCTCTGGCT
CTGGTCTGGTCTGGCTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTG
GGCCTGGTCCAGACACTGGCCCTGACTCTGAGCTCAGCCCTGTATTCTCCAGGGTTTCAAGAACTGGTGGCAG
ATCGGGTCCCTAATATACCTCCTGGAGTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TGCAAGTCTTAGAACCGGGTGGCCGAGGACTATGGAAACCCCGAGACATTAAAGGGAAGCTTATGGTTTGCTATG
AAACTTTGCCGCGGGGCCAGTGCTCTCTACAAGTGGGAGGAAGAGAGAGCCACCAACCACCTGGATCAAGTCC
CAAGCATGCAGGATGGCTCTGAGAGTTTTTCTTCCGACACGGACACCGGGGACTGCTGACTATGCAACTAAAGT
CACCCATGCCCTCCAGCACCACCCAGAAAGACTCGTACCAGCCACCAGGAAACGTCTATTGGCCACTTCGAGGGA
AGCGTGAAGCCATGCTGGAGATGCTCCTGCAGCATCAGATCTGTAAAGAGGTGCAGGCAGAACAGGAACCCACAA
GGAAGCTCTTCGAGGTGAGTCTGTGACACACCATGACTACCGAATGGAGCTGGCACAAGCAGGGACTCCTGCCC
CAACAAAGCCTCAGACTACCGCCAGGAGCAACCTGAGACCTTCTGGATACAGAGGGCACACAGCTGCCGACAT
GGTGGCCATTGCCCACCCAGGTACCAGCAGCAGAAGACTATCTGACTTGGAAAGAATGGGGGTTTACAGGAGTCC
AGGAGGTCTTTCCGCTCTCCTAAGAGCCACACCTGGTGAATACTCAGTAAACATTTCGCGGAATGAATGAACACC
CTGTCTGCAGCAGGACATGGACAAATAGGCTCTGCCATCAGGAAATGGGAAGCAAGAAAACGGTAACTCAAGAGG
ACAGAGGCTGGTGAAGAGGTAAAGCAGGCCCAGTGAAATGGACCTGACAGCCCAACTGTCTCAGAGAGGAGGAAAG
CAGGCATTGTATTTGGTAATTGTGCCAAAGCTATGTAAGAGAATAAATGCCATTGTTTTAAGGA

4932/5332
FIGURE 4284

CGGGTGAGAGGTTCCCGCGGCTCAGGGAAGATGCGCGCAGCCGTGGTGCTGGCTGCTGGGTTGCGCGCGGCGCGC
AGAGCCGTGGCGGCCACGGGGGTGCGCGGGGGGCAGGTCCGAGGAGCTGCAGGTGTGACTGATGGGAATGAAGTG
GCCAAGGCCCAGCAGGCAACTCCTGGGGGAGCAGCCCCAACCATCTTCTCCCGGATCCTGGACAAGAGCCTCCCA
GCTGACATTCTCTATGAGGACCAGCAGTGTCTTGTGTTCCGTGATGTGGCCCCCTCAGGCTCCTGTGCACTTCCTG
GTCATTCCCTAAGAAGCCCATTCCTCGGATTAGCCAGGCTGAAGAAGAAGACCAGCAGCTTCTAGGACACCTACTC
CTTGTGGCCAAGCAGACAGCAAAGGCTGAGGGCCTGGGAGATGGATACCGACTTGTGATCAACGATGGGAAGCTG
GGTGACAATCTGTGTATCATCTGCACATTCATGTACTTGGGGGCCCGCAGCTCCAGTGGCCTCCAGGTTGAACC
TGCCAACCTGATTAAAGGACACCAGACTCTGGATGCTTGGATGGAAAGGGAAAAATGGACCCTGTGATGCTAATAA
AACTGTTCTCCCTT

4933/5332
FIGURE 4285

AAAAAGAAATCAAGAATGCAATTTTATTTACAATAGTCACGCCAAAAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAAGACCTCTACAAGGAGAGTTCAATCGGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCGCCGCCCTAGTTACCATCACACCCCGGGAGAAGCCGCAGCTGCCGCAGCCGGCCCCAGTCACCAT
CACCGCAACTATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCCGCCGCTCCCCACGCCGCCGCCGCCCTCAGCG
CCGCCGACACCCACCCAGCACTGCAGGCAGCGGCGCAGGAAGCGGTGGCCCGGGCGGCCTCACATCGGCGGCGC
CTGCCGGCGGGGACAAGAAGGTCATCGCAACGAAGGTTTTGGGAACAGTAAAATGGTTTCAGTGTAAGGAACGGAT
ATGGTTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCAGAAAGAAGAATAACCCCA
GGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGGTGCGGAGG
CAGCAAATGTTACAGGGCCTGGTGGTGTTCAGTTCAAGGCAGTACATATGCAGCAGACCGTAACCATTATAGAC
GCTATCCACGTCGTAGGGTCTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGA
GGGATCGGAGAGTGCTCCCGCAGGCCAAGCCCAACAACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTA
CATGCGGAGACCCTATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGA
CAACCAGGGTGCAGGAGAACAAGGTAGACCAAGTGAGGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAG
GGGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCA
AGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCCTAAACC
ACAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCACTCCTGAGGCTGAGCGGGGCAG
GACTGAGTAAATGCCAGCTTACCATCTCTACCATCATCCGTTTAGTCATCCAACAGGAAGAAATATGAAATTCC
AGCTATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTGGCCGTTGACCAGATAAATA
GAACTATCTGCATTATCTATGCAGCATGGGATTTTTATTATTTTTACCTAAAGACGTCTCTTTTTTGSTAATAACA
AACGTGTTTTTTAAAAAGCCTGGTTTTTTTCAATACGCCTTTAAAGG

4934/5332
FIGURE 4286A

GCGGCGGCGGTAGCGGCGGCAGCGGCTGCGGCCAAGCTGGGTCCGAGCATCCCGGGCTCTGGAGCCGCCCGGCC
CGGACATGCGGACCGTCCGGGCTCTCTGCGAGGTGCGTGCTCCTTCTGCTGGCCGTGGCGGGGGTTCGCGGAGG
TGGCAGGGGGCTGGCTCCGGGCAGTGGGGTGCATTGTGTTGTAATCATTCAAAGGATAACCAAATGTGCCGTG
ATGTATGTGAACAGATTTTCTCCTCAAAAAGTGAATCCCGACTAAAACATCTGTTGCAGCGAGCCCCAGATTATT
GCCCAGAGACAATGGTTGAAATTTGGAATTGTATGAATTCATCTTTGCCAGGTGTGTTTAAGAAGTCTGATGGCT
GGGTTGGCTTAGGCTGCTGTGAACCTGGCTATTGCCTTGGAGTGTGACAGGCATGCAAGCAGGCATCTTCAAAGA
ATGATATTTCCAAAGTTTGCAGAAAAGAATATGAGAATGCTCTTTTCAGTTGCATTAGCAGAAATGAAATGGGCT
CGGTTTGTGTCAGTTATGCAGGTATCACACAACTGCCGAGAATACTGTCAAGCCATTTTTCGAACAGACTCTT
CTCCTGGTCCATCTCAGATAAAAGCAGTGGAAAATTATTGCGCCTCTATTAGTCCACAATTAATACATTGTGTGA
ACAATTATACTCAATCTTATCCAATGAGGAACCCAACGGATAGTTTATATTGCTGTGACAGAGCTGAAGACCATG
CTTGCCAAAATGCCTGCAAGAGAATCCTGATGTCCAAGAAAACGGAAATGGAGATTGTTGATGGTCTCATCGAGG
GTTGTAAGACCCAGCCCTTGCCCTCAAGATCCTCTTTGGCAATGTTTTCTTGAAAGCTCACAATCTGTTACCCCTG
GAGTCACTGTACACCCTCCTCCTCTACAGGCCTCGATGGGGCTAAATTGCATTGTTGTTCTAAAGCAAACACTT
CAACATGTAGGGAACCTCTGCACTAAACTTTACAGCATGAGCTGGGGCAATACACAGAGTTGGCAAGAGTTTGATC
GCTTTTGTGAATATAATCCAGTGGAAAGTGTCCATGTTGACCTGTTTAGCGGATGTCCGGGAACCTTGCCAGTTGG
GCTGTAGAAACCTTACTTACTGTACTAATTTTAAACAACAGGCCAACAGAACTTTTCAGGAGTTGTAATGCACAGT
CAGATCAAGGAGCCATGAATGACATGAAGTTGTGGGAGAAAGGAAGCATAAAGATGCCATTTATCAATATACCTG
TTCTTGATATTAAAAAGTGCCAGCCAGAGATGTGGAAAGCAATAGCTTGTTCACTGCAGATTAAACCTTGTCATA
GTAAATCTCGGGGAAGTATTATTTGCAAATCAGATTGTGTGGAGATTCTTAAAAAATGTGGAGACCAGAACAAAT
TCCCTGAAGACCACACAGCTGAAAGTATTTGTGAGCTTCTGTACCTACAGATGATCTGAAGAATTGTATACCTT
TGGATACATACCTCAGGCCAAGTACTTTAGGTAACATTGTAGAAGAAGTGACTCATCCCTGTAACCCAAATCCTT
GCCCTGCCAATGAGCTCTGTGAAGTAAACCGAAAAGGATGTCCATCTGGAGATCCCTGTCTTCCATACTTTTGTG
TTCAAGGTTGCAAACCTGGGAGAAGCTTCTGATTTTCATTGTCCGTCAAGGGACACTAATCCAGGTGCCATCATCTG
CAGGGGAAGTTGGTTGTTATAAAATCTGTTTCATGTGGACAAAGTGGACTCTTAGAAAACCTGTATGGAAATGCACT
GTATAGACCTCCAGAAGTCTTGATTGTTGGAGGAAAAAGAAAAAGTCATGGAACATCCTTTAGTATTGACTGCA
ATGCTCTGTTCTTGTGTTTGTGTCGCAATTTGGTGTGCTCTACCCGCTTTGCCTCAGTGAGCACAGTTCAGAAGATG
ACCGTCGTACCTTCACAGGTCTGCCCTGTACTGTGGGCTTCCAAGACCATCAGTTTGAGTTTGGATCATGCTGCAA
CTTACCCAGTTCAGCATGCTCGCTGTGTGGGCTTCCAAGACCATCAGTTTGAGTTTGGATCATGCTGCAA
AGGATCCATGTAATCCTAATCCCTGCCAAAAAAACCAAAGGTGCATACCCAAACCACAGGTCTGCCTGACGACTT
TTGATAAATTTGGATGTAGCCAGTATGAGTGTGTACCAAGACAGCTCGCGTGTGACCAGGTCCAAGATCCTGTTT
GTGACACAGACCACATGGAGCACAACAATCTCTGCACTTTATACCAAAGAGGAAAAAGCCTCTCTTACAAAGGTC
CCTGCCAGCCCTTTTGCAGAGCAACCGAGCCCGTATGTGGGCACAATGGTGAGACCTACAGCAGTGTGTGTGCTG
CCTACTCGGATCGCGTGGCAGTCGATTACTATGGGGACTGCCAGGCCGTGCGAGTCCTCTCAGAGCACAGCTCCG
TCGCCGAGTGTGCTTCTGTCAAGTGTCTTCTGCTCTTGGCAGCTGGATGCAAACCCATCATCCACCGGGTGCTT
GTTGCCCATTTATGTGCTGGGATGTTAAGAGTTTATTTGACAAAGAAAAACTGGATACTATTGCTAAGGTAACAA
ATAAAAAGCCAATAACAGTTCTGGAAATACTTCAGAAAATCCGCATGCACGTGTCTGTCCCACAGTGTGATGTGT
TTGGATACTTCAGCATTGAATCAGAAATTGTGATCCTGATCATTTCCCGTCGATCACTATCCAAAAGCTCTGCAGA
TTGAAGCCTGCAATAAAGAAGCAGAGAAGATTGAGTCCCTTATCAACTCTGACAGCCCGACTTTGGCGTCCCATG
TCCCTCTCTCTGCCCTCATCTTTCCAGGTACAGGTCTCCAGCAGTGTGCCATCGGCCGGTGTGAGGCCAGGC
CTTCTTGCCACTCCCTCCTCCTTCCCTCAGCTTGGGCCTTGCCCTGCACTTGCTCTGGACATATAACTGACTGC
CCACGGAAAGTGCAGAATGCTCTCCACCTCACTCTCCTGCCTTGAAAAAGACATTACAGGACTGCTGGTTTGTAG
TTGAATATTGGCCAAGGAAAGGCATGTACCTCTATTGCCACACAGTATTTTTTTTTTAAATCCGCCAATAT
TAGTAGGATTTTTGTTTTGTTTTTACAAATGTTAAAATGTGTTGTTCCAAATACTAATGAAAACAGAATGTCTCT
TCCTGGTAGACCACTGCCATATGATTTACATTTCCCTACCATAAGGGTCCCCACTCTAAAGCAAATTTATCGCT
GGGAAATGAGATGACCATTTTTAGAAAGATAATTCAGTGTACTATCAGGTTTCAAACTTCATTTACAGAGTTCT
TTTTGAAGTATTTAAGGTTCCCGTTGCATTTGTTTTGTTTACAGATAATTACCTACTCTGGCTAGAAGCTAGGGG
TCCAGTGAAGAGCCACTGCCATTAAAGAATATGAAACATAGATAAAACATCTTTGAAATTATGTAAATTATGTA
AATTATCAGGCAAATTTGCATTAAATTACAGAAATTTAATTCAGAACCCCACTACTGTGTTATGCAAAGCAAG

4935/5332
FIGURE 4286B

CTGATTAAATGACACTCATATAATTATATGTTGTAAGCAACAGGCTCACTGGTCACGGATTGTGTCTGTGACTT
TTGTGAAAGGGAGAAGTGACATTGCATCAAAGCATCTTGCATTATGCAATTTTTATATTAACCAGATATATATTC
ATCGGTATTCATCCAAGTTAAATGTAGAGTTTTTAAACATCAATCTTTAAACCAATTGCTGCTACTTATATAATT
GCCAAAAAGTGAAATAATGTGTAGTTCATGTAAATAATACATTATATTTCTATTTTATTATGAAGAAGGTGAATA
GCCATATTTGTAAATGACAATCATGTGTGTTAACCCAGTGCTTTCATTTCGTGAAAACACATTTGCTTTTTGTG
ATATGCACAATGTAGATAAGTGTCTGTCTGACTTTCTTTTTTGATATAGAAGTATAAAGAATTGTGGTTTATAT
ATTTAAAAGTGTCAAGCTGAGTATTTAAATGTATGCATGTTGTCTAAGAAATTGAATACTTTGAATGTGTTTCAC
AGTTTGAAATAAGCTATTTGATGTAATACTTCTTGTGTGTATGCACATGAACCTTAGATTTTACATGAAGTATTTT
TTCAGTATTATATGTACCCTCTGAAATACATAGGGATATGCGTATTATACCAAAATGTTGCTGAAAAATGGGCAC
TTAAAGCTTTCAGAATATGTCAGTGCTGATGTAGCATGCTTGTGCAATTGCCTTTTTTCTGTATAAATGTCTTT
AATGCAATATACTGGAAAGCTTTTCTATTTTAATAAAAATAATTTTTATATG

4936/5332
FIGURE 4287

GTGGTGTCTGGTGGGTCGGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTTGCCCCGCCATGGCTGAGC
TGGATCCGTTTCGGCGCCCCTGCCGGCGCCCCCTGGCGGTCCCGCGCTGGGGAACGGAGTGGCCGGCGCCGGCGAAG
AAGACCCGGCTGCGGCCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAACGACGAGGCCTTCGCCA
TCCTGGACGGCGGGCGCCCCGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGGTCCGGATGCTGTTGATGGAGTAA
TGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTGGATCGATTGC
AGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGCCCTTGATGCCAATTCTC
GGAAGCAAGAAGCAGAGTGGAAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGCAAGACAGGACGAGCAGC
TACAGAAAACAAAAGCAAACAACAGGGTGGCAGATGAAGCTTTCTACAAACAACCCTTCGCTGACGTGATTGGTT
ATGTCACAAACATAAACCATCCTTGCTACAGCCTAGAACAGGCAGCAGAAGAAGCCTTTGTAAATGACATTGACG
AGTCGTCCCAGGCACTGAGTGGGAACGGGTGGCCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCAAGCAGGCCA
AAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCCGCTGGTGCACTGAAGAGCCACCCTGT
GGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATTATGTTGAGT
TCTTTTGGACCAAACCTTTTGTCTTTAGAGTTGTTCAATTGTTTGTGATTGCATGTTTCCTTCCTTCAACTGTGT
TCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAGCCTCAACCT
GTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACGT

4937/5332
FIGURE 4288A

GGAACCTCTATTTTAAGAACCTCTCAAAACGAAACAAGCAAATCATGAGAGAAGATGGAAATAACCGAAAGCTGCG
GGTTTGTTGTTGCTACTTGTAAACCGTGCAGATTATTCTAAACTTGCCCCGATCATGTTTGGCATTAAACCGAACC
TGAGTTCTTTGAACTTGATGTTGTGGTACTTGGCTCTCACCTGATAGATGACTATGGAAATACATATCGAATGAT
TGAACAAGATGACTTTGACATTAAACACCAGGCTACACACAATTGTGAGGGGAGAAGATGAGGCAGCCATGGTGGA
GTCAGTAGGCCTGGCCCTAGTGAAGCTGCCAGATGTCCTTAATCGCCTGAAGCCTGATATCATGATTGTTTCATGG
AGACAGGTTTGATGCCCTGGCTCTGGCCACATCTGCTGCCTTGATGAACATCCGAATCCTTCACATTGAAGGTGG
GGAAGTCAGTGGGACCATTGATGACTCTATCAGACATGCCATAACAAAACCTGGCTCATTATCATGTGTGCTGCAC
CCGCAGTGCAGAGCAGCACCTGATATCCATGTGTGAGGACCATGATCGCATCCTTTTGGCAGGCTGCCCTTCCTA
TGACAAACTTCTCTCAGCCAAGAACAAGACTACATGAGCATCATTCGCATGTGGCTAGGTGATGATGTAATAAC
TAAAGATTACATTGTTGCACTACAGCACCTGTGACCACTGACATTAAGCATTCCATAAAAAATGTTTGAATTAAC
ATTGGATGCATTATCTCATTTAACAAGCGGACCCTAGTCTGTTTCCAAATATTGACGCAGGGAGCAAAGAGAT
GGTTCGAGTGATGCGGAAGAAGGGCATTGAGCATCATCCCAACTTTTCGTGCAGTTAAACACGTCCCATTGACCA
GTTTATACAGTTGGTTGCCCATGCTGGCTGTATGATTGGGAACAGCAGCTGTGGGGTTCGAGAAGTTGGAGCTTT
TGGAACACCTGTGATCAACCTGGGAACACGTGAGATTGGAAGAGAAACAGGGGAGAATGTTCTTCATGTCCGGGA
TGCTGACACCCAAGACAAAATATTGCAAGCACTGCACCTTCAGTTTGGTAAACAGTACCCCTGTTCAAAGATATA
TGGGGATGGAAATGCTGTTCCAAGGATTTTGAAGTTTCTCAAATCTATCGATCTTCAAGAGCCACTGCAAAAGAA
ATTCTGCTTTCCTCCTGTGAAGGAGAATATCTCTCAAGATATTGACCATATTCTTGAAACTCTAAGTGCCTTGGC
CGTTGATCTTGGCGGGACGAACCTCCGAGTTGCAATAGTCAGCATGAAGGGTGAATAGTTAAGAAGTATACTCA
GTTCAATCCTAAAACCTATGAAGAGAGGATTAATTTAATCCTACAGATGTGTGTGGAAGCTGCAGCAGAAGCTGT
AAAACCTGAACTGCAGAATTTTGGGAGTAGGCATTTCCACAGGTGGCCGTGTAAATCCTCGGGAAGGAATTGTGCT
GCATTCAACCAAACCTGATCCAAGAGTGAACCTGTGGACCTTAGGACCCCCCTTTCTGACACTTTGCATCTCCC
TGTGTGGGTAGACAATGATGGCAACTGTGCTGCCCTGGCGGAAAGGAAATTTGGCCAAGGAAAGGGACTGGAAAA
CTTTGTTACACTTATCACAGGCACAGGAATCGGTGGTGAATTATCCATCAGCATGAATTGATCCACGGAAGCTC
CTTCTGTGCTGCAGAACTGGGCCACCTTGTGTGTCTCTGGATGGGCCTGATTGTTCTGTGGAAGCCATGGGTG
CATTGAAGCATACGCCTCTGGAATGGCCTTGAGAGGGAGGCAAAAAGCTCCATGATGAGGACCTGCTCTTGGT
GGAAGGGGATGTCAGTGCCAAAAGATGAGGCTGTGGGTGCGCTCCATCTCAAGCTGCGAAACTTGGCAATGC
GAAGGCCAGAGCATCTCAAGAACAGCTGGAACAGCTTTGGGTCTTGGGGTTGTGAACATCTCCATACCATGAA
TCCCTCCCTTGTGATCCTCTCCGGAGTCTGGCAGTCTACTATATCCACATTGTCAAAGACGTCAATTCGCCAGCA
GGCCTTGTCTCCGTGCGAGGACGTGGATGTGGTGGTTTCGGATTGGTTGACCCCGCCCTGCTGGGTGCTGCCAG
CATGGTTCTGGACTACACAACACGCAGGATCTACTAGACCTCCAGGAACAGACATGGACCTTCTCTCCAGAGCTC
CTGAGTGGAAATCAAGTTCTTGTCTTTAGGATGACCGTTTCTTAACAATCAAATCTGGTATTGAACTGCAGGTGAC
TTTGGCAGAGAAATGTTTTCACTTTTGGTCTCCTCTTCCAGAGTCACCTTTCCCACTCCTATTTTTGTAGATGC
TATTCTTTCTGATGCTTCTTACTAGGGGTCAATTTAGCTCAAACCTGTAAAGTTACAGTCACAATTTTCTGTGC
CAAAGCAGCTACAATAATAGAGAGGAAGCCTTCTTAGAAGCTCTGCTTACTAATGTATTAATACCACTGAGACCTT
CAGGCCTTGCCCTGGGATATCACTTCATCCTGAAGTTTGCAATTAATAATCCTTCCAGGCCGGGCACAGTGGCTCAC
GCCTGTAATCCAGCACTTTGGGAGGCCGAGGCCGGCGGATCACGAGGTGAGGAGATCGAGACCGCCCTGGCTAA
CATGGTGAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGGCGGGTCCCAGC
TACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCCAGGCTGGAGTGCAGTGGCTCAATGCAACCTCTGCCCC
CCAAGTTCAAGTGATTCTCTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCACATGCACCACGCCCGCTGA
TTTTTTTTTGTATTTTAGTAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCAGGTGA
TCCGCCCGCCTCTGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCATCACACCTGGCCCTAGTGACAGGTTTT
TATGGGTACTTTTAGATGATCTAAGAAATCATGTGCATATATCTTTCAGATTTCTATTTTGGGAAAATGAAGTT
TCTACAACATATTGTTTCAGTGTTCAAATAAACTGAAGGACTCAACATTACATTTGAACATATCTTCTCCTAGTG
GGTTAGTGTGAAAAAGAGTTTGGCTGATTCTTAAACTCTGCCAGCCCTGCAGTAATCTCCAGGGCCTGGTTATT
GTTTCAGACATTCCATGGTGATTCTTGGGAAGGAAGCTTGGCTGCTCAGTTTCTGAGTCTGGGGTGGAGATAATGTT
CTGGGAAGGGACATCTGTTCTTTGGTGTAAATCTCTCATGGTGAAATCTGCTCTGTACATCAGACAATTGCATTGC
TACCAAGTTTCATACCAAATATTTGAAAGGATGGTATTGAATCTAAAACCAAATATTAGTTTTTATTAAACTCAT
GGGAAGGCTAATATATTCCAACGTAAATTATTACATATGGTTAAGTAATTGCATGTAAATTTATTTTAAATGTAA

4938/5332
FIGURE 4288B

TATTTTGTACTGTTCTGAGCCAAATTCTAAAGAAAAATAAATACATTTCCTTGTTG

4939/5332
FIGURE 4289A

AAGCCAACATCACTTCTCAGGGGAACGATGCAACACACCTGCACGCAACAGAAGAAGTCCTCCTGTCAGGCGCCA
GAGAGGAAGAAGGGATCGTCTGTCTCGACATAATTCATTAGTCAAGATGAAAACATCACCATCTCCCTTACGC
ACAGCAGCAAGCAATAGAGGAGCCTCGAGCCTTCCACCCTCCGAATGTATCTCCCGTCTGCTACATCCTGCTGC
TCATCCACCCCAGCAGAATGCAGTCATGGTTGACATACATGATCAGCTCCATCAAGGAACAGTCCCTGTTTCTTA
CACAGTAACAACAGTGGCACCACATGGGATTCCACTCTGCACAGGCCAGCACATCCCTGCTTGTTAGTACACAGCA
GGTCCCAGGATGCTCTGTGGTTTTTCAGTGGACAGCACCTCCCTGTCTGTAGTGTGCCCTCCTCCAATGCTTCAGGC
ATGTTTCAGTTCAGCACTTACCAGTACCATATGCTGCATTCCCACCCCTTATTTCTAGTGATCCATTTCTTATACA
TCCTCCTCACCTTTCTCCCCATCATCTCCTCATTTTGCCACCACCAGGCCAGTTTGTCCCTTTCCAAACACAGCA
ATCACGATCGCCTCTGCAAAGGATAGAAAATGAAGTGGAACTCTTAGGAGAACATCTTCCAGTAGGAGGTTTTAC
TTACCCTCCATCAGCCCACCCCCAACATTACCTCCATCAGCTCCCTTGACAGTTCTTAACACATGATCCTTTGCA
TCAGGAGGTGTCTTTGGAGTACCTTATCCTCCATTTATGCCTCGGAGGCTTACAGGACGTAGTAGATACCGATC
CCAGCAGCCAATACCACCTCCCCCTTATCATCCCAGCTTACTGCCATATGTGTATCAATGCTTCCAGTGCCACC
TGCAGTGGGCCCCAACTTTAGCTTTGAATTAGATGTAGAAGATGGAGAAGTAGAAAATTACGAGGCCCTGTTAAA
CCTGGCAGAGCGACTGGGAGAGGCAAAGCCTCGTGGACTGACTAAAGCAGATATTGAACAACCTTCCTTCTTATCG
GTTCAATCCTAACAACCACCAGTCAGAACAGACTTTGTGTGTAGTATGCATGTGTGATTTTGAGTCAAGGCAGCT
ACTTAGAGTCTTACCCTGTAACCACGAGTTCCATGCCAAGTGTGTGACAAATGGCTTAAGGCAAATCGTACTTG
CCCAATTTGCCGAGCTGATGCTTCAGAAGTGCATCGGGATTGAGAAATGACCAACCTAAGAAGCACAAATTTAGTT
TGGGTGTTCCCTCATCACATGTATATACGGACTATCCATTGAACCTTAATCTGTGTGGCTTCCAGCCCTCCCTTTAC
CAAAAGGGTCAATGGACCTTTCTTTGCACTGTGTGACTTAATCAACTATAAAAGCTTACAATTAGTCTTCACAGT
TATGGGATTGTTATACTAACCCTGTGATTGGAACCTCAAAGACTTTTTCTTTAGCTTAATTTTGTGTGTGCACTA
ACATTCCTCGTGTGTTTGTGTGATCATTCCGAGTGTGTGCTGCAAGATTACAGTGGACGTGATCTTTTAGCATGTGC
TTTTATAAAAAGTGGTAGCTACAGATGATATAGCAATCTACCTTATATAGAGCCTTCAGAACTGTGAGTGGA
TGAATGCCGAGCGTATGACTGTTGGTGATAAGTGTATCTGTGTGAGTGTGTGCAACTACTTGTGTGAGGGCATGG
TAGCTAACGTGTGTATGAGATCCTATATACCAGCATGTACCAAGAATGTGTGTGTAGTTTTAATTATGCTGCAAT
GTATAATCTGGTGTGTTATTTAAACAGCACTAGTACTGTACACTGGTTTTTTTTCCCTTGTGTTTGTGTTGCACA
CTGATTGCTGAGGGTGCATCAATTACAAGCATTGAATACTCCATCCCTTCCCTCCCAGTGAATGGAATGAGAAA
AGCCTTCTTCTTTGCTTCAGGCAGCTGTCACCTTCTCTTTATTGGTGGTCCTAAGTGGGTCACTTAAGAAAAA
AAGTGTAACAAATTCTCGCTCCATGAACCTGGTTTTTTTTTATTCTGTTGTGGAAATTTTTAAATCTCCAATTG
CTGTTTCCAAAAAAGAGGTGCAATATCATATATCATCAGTTAGCAATATTAGCATTTCATCAGTGATTTGAATG
TTGATACTTTTTTTTCTTTTACATTTCCAGTAAGTTCTTACAGAAAGTACCTGTGATTTTTTTTAAATGTTTGA
TTTGTAGTCTAGTCTATTCTGAAGATATTTGATTAATATATTTCTAAGAAGACCACTAGTCCCATGAAGTCTCAC
CTTGTGACTTCCACCAGAACAAAACCTGTTAATTCAGCTTGACTTCTCATATGTGTTCTGTGTTCAAGCTCCTG
TGGGCAACTCAATTGTTTTAAGAAAACCTTATTTCTGTTCATATTAATTCATTGCCAGACTCCAATTCTGAAAG
TTGTCTAGTTCTTCTTCATCACACGTGCTTCTCATCGAAACCTGGTTTCAGGATGGATCAAGTGCTGTTACAG
CTCATGTTCTTAGACCTGATTTGTTTTGATATTTACTGCCTTTCCTTTTAATTTTGTGTTGAATGAGAAAAGT
TTAATACAACAGGTGTCCAGAATACTTGCAAGTATAAATGAAGATTTGGTTTTTGTATAAAAAAATAATGCTGTTA
AACAGGAGTTGACCTTCATTTAGTTGATGTAATACATAGCTGTATGGGGTTTTTTTTTAGTAAGTCTTTGAGCAT
AATTCATTTAAAGTCATTTTTCCAGCAATGTTTAAATTACTTTCTCATTTCTTTTAGTGTATCAACATTGTCTG
CCTCTTCTGCAGTTGATGTAATTGCTTTGTTTGCAATAGCACAAAGCTGCATTATTCCAGTCAGGACTGTGATAA
CTTGCTGCCAGCCCCACTCAACTTTAGTTGGCTCTGTGTGAGTTTTCCATTCAAGTGTAACTACTTGTACTGC
CATGCTGCTTGCCCTCCCTTGAAGTGTCTATAAGCTCATCACAGCCTAGAGTTAAGTAAAGTCAATTCACAGAAG
CACAAATTTGCCCTTTGCGAGACATTGTTGCCTCTATCTAGTCTTACAAGTAGGGTTTTGCATACTGTGTTGCC
CCTAGGGTTGTGAGTGCATCAGAAATACCTTAAATAGTGGTAAATGCACATGGTTAATGCACATGTTACTTT
TAAATCATTAGGATATCCCTCACCTGTTCTGATGAATAAAAAGTGTGTTAAAGACCAAAATCTTGGCATAATA
ATCAGCTACATACAAATCACATATAGTTTAACTTTTTTAAATGAAAAAATCATGTTTAAATGGCAAAAGCCC
ATCTTATACACTTTTATATAGCTGCAAAAAAATCTTAACTCAGCTGTGGGTTTTTTGTGGGTTCTGTGTTGTTT
TTGGCATGAATTGTCATCTTTGGTGTTTTTTAAACCCCGAGCCCTCAAAAAAATAAGGCCCTCCAGGTATCAAGA
TCTCATATTAGGATTTTCTGTCTTAATTTTTTGTAGCAAAATCTGGAATGTGAAAGCATATTTAGATTTTATA

4940/5332
FIGURE 4289B

TACTATCTGAAATGTGATTTGTTAAGATTCTTAAATTTGGGCCTCTTAGAATAATTTTGAATGAGATCTACCGAC
TCACTTGTGAGAATATTTTTTACAGATTATCTTTGGGCCTTTTCATTAGAAAGCTGTTTGTGTTGTCCCCCTGTTG
GTACATTTGGTTACCTCATTGTTGCCGTTTCAGATTGTGAAAGCTCACAGGGGTGTTTTTTGGAATCATTGCTGA
GTCATTTTCTCAAATCATATTCATTGTATCAGTTAACATATAGTTTTAAATGTATGTATTATAAATATCTGTAA
CCAAATCATTGGAAGGCTTGATAAATTTTAAACAAAGTTTGTACATTTTATGAAAGTTACTAGTAATGCTTTA
CTAAGTAGTGCAATGAATTTTTATTTTAAATCCCTGTGCCCAATTTTGGAGTTGAGAGGGTTGTTGGTAATAAAT
GTATGATGTACACTT

4941/5332
FIGURE 4290

GGTGACTGGCCCAGCCGCACCGCTCTCCGCGCTTCTCCGAGCCCCGAGGCCCCGGGGCCCTGTCATTCCCAGC
GCTGCCCTGTCTTGCGTTCCAGTGTTCCAGCTTCTGCGAGATGACCCCTCAAGGCGAGCGAGGGCGAGAGTGGGGG
CAGCATGCACACGGCGCTCTCCGACCTCTACCTGGAGCATTGCTGCAGAAGCGTAGTCGGCCAGAGGCTGTATC
GCATCCATTGAATACTGTGACCGAGGACATGTACACCAACGGGTCTCCTGCCCCAGGTAGCCCTGCCCAGGTCAA
GGGACAGGAGGTGCGGAAAGTGCGACTCATACAGTTTGAGAAGGTACAGAAGAGCCCATGGGAATCACGCTGAA
GCTGAATGAAAAACAGTCCTGTACGGTGGCCAGAATTCTTCATGGTGGCATGATCCATAGACAAGGCTCCCTTCA
CGTGGGGGATGAGATCCTAGAAATCAATGGCACAAATGTGACAAATCATTAGTGGATCAGCTGCAGAAGGCGAT
GAAAGAAACCAAAGGAATGATCTCATTAAAAGTAATTCCCAACCAGCAAAGCCGTCTTCCTGCACTACAGATGTT
CATGAGAGCGCAGTTTGACTATGATCCCAAAAAGGACAATCTGATCCCTTGCAAGGAGGCGGGACTGAAGTTGC
TACTGGGGACATTATCCAGATTATCAACAAGGATGACAGCAATTGGTGGCAGGGACGGGTGGAAGGCTCCTCCAA
GGAGTCAGCAGGATTGATCCCTTCCCCTGAGCTGCAGGAATGGCGAGTGGCAAGTATGGCTCAGTCAGCTCCTAG
CGAAGCCCCGAGCTGCAGTCCCTTTGGGAAGAAGAAGTACAAAGACAAATATCTGGCCAAGCACAGCTCGAT
TTTTGATCAGTTGGATGTTGTTTCTACGAGGAAGTCGTTCCGCTCCCTGCATTCAAGAGGAAGACCCCTGGTGCT
GATCGGAGCCAGTGGGGTGGGTGCGAGCCACATTAAGAATGCCCTGCTCAGCCAGAATCCGGAGAAGTTTGTGTA
CCCTGTCCCATATACAACACGGCCGCCAAGGAAGAGTGAGGAAGATGGGAAGGAGTACCACTTTATCTCAACGGA
GGAGATGACGAGGAACATCTCTGCCAATGAGTTCTTGGAGTTTGGCAGCTACCAAGGCAACATGTTTGGCACCAA
ATTTGAAACAGTGCACCAGATCCATAAGCAGAACAAGATTGCCATCCTTGACATTGAGCCCCAGACCCTGAAAAT
TGTTCCGACAGCAGAACTTTCGCCTTTCATTGTGTTTATTGCACCTACTGACCAGGGCACTCAGACAGAAGCCCT
GCAGCAGCTGCAGAAGGACTCTGAGGCCATCCGCAGCCAGTACGCTCACTACTTTGACCTCTCACTGGTCAATAA
TGGTGTGATGAAACCCCTTAAGAAATTACAAGAAGCCTTCGACCAAGCGTGAGTTCTCCACAGTGGGTGCCTGT
CTCCTGGGTTTACTAAGCTTGTAGAATGGGGGAACCCACTGTATGCCCTCTCCAGCATTTGGAATTCCACCCGC
CTTGCTTTAAGACAAACAGGGCTGCTCCAAGTATTTTGTGTCAGCTTCCAGCTCTCTGCAGCTATCCTAATTCA
GCCAGTAAGGTTTCACTCTTCTGCTCAGGCTCCTGAAGGGTTGATTCTCCTGATAGATGGGGCCCCACTGATCTG
GATTTGAAAAGGATTTCTAGAAATTGGGGGTAAAGAAGTACTACCAAAATGTAAGTCTAATCAAGGGTGATGCAC
AGCAAAAGCAATGGACCCCATCCCTCTAAAGCCTGCCCTCCTTTGCCTTCAACTGTATATGCTGGGTATTTTATT
TGTCTTTTTATTTTGGAGAAAGCGTTTTTAACTGCAACTTTCTATAATGCCAAAATGACACATCTGTGCAATAGA
ATGATGCTGCTCTAGGGAAACCTTCAAAGCAATAAAATGCTGTGTTG

4942/5332
FIGURE 4291

AGCAGCGCGGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACCGGGCGGCACGCA
CGCGGTGCAGGGTAACATGCGCGGATGCGGAAGTAATTATTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGAA
GTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTGC
TAAGTTGGACACGTCCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATAC
ACCTCTTGTCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTGA
CAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGCGATACTTCGGGTGGAGAAGACAGGGCA
CAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGTC
ACAACAGAGTGCAGGCAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTTC
TAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCG
AGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAAGAAGATTAGGAATCTTTTGGGTGAGTTG
TGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGGA
GCTTCGGAGGGTTCTGTTCTGGAGTCATGAGTGAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTCA
GTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACATC
TCATAACCGGCTGGTTATGAAAGACAGTGCAGGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCCTCTTGTCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCATTTTTAAATCCCTCTGTTTAAAAGGTTTGTAACAAAAACAAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTGGCCTAGA
GGTCAGTCCCTTTGCACCTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTAAAAAATGAAATTGTTTATTGCTGGGAGAAGAATGTTGTAATTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTATGTATTCTGTTGGGTTTTCTGTTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTG

4943/5332
FIGURE 4292

CATGGCCCTTGTGATCCAGGTGGGGAACTAAGGCCAGAGAAGTGAGGACCCCGCAGACTATCAATCCCAGTCT
CTTCCCTCACTCCCTGTGAAGCTCTCCAGCATCATCGAGGTCCCATCAGCCCTTGCCCTGTTGGATGAATAGGC
ACCTCTGGAAGAGCCAACTGTGTGAGATGGTGCAGCCCAGTGGTGGCCCGGCAGCAGATCAGGACGTACTGGGCG
AAGAGTCTCCTCTGGGGAAGCCAGCCATGCTGCACCTGCCTTCAGAACAGGGCGCTCCTGAGACCCTCCAGCGCT
GCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAGATTCTGCGGGAGCGCTGCGAGGAGC
TTCTGCATTTCCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCCTCATGTGCAAGTTCAGGAGGCCAGGAACTGG
TGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGGCAGAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGA
AGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCCTCTGTGAAAGCCCAGGTGACGTCTTGTCTCGGGGAGCTGC
AGGAGAGCCAGAGTGCCTTGGAGGCTGCCACTAAGGAATGCCAGGCTCTGGAGGGTCTGGGCCCCGGGCGGCCAGCG
AGCAGGCGCGGCAGCTGGAGAGTGAGCGCGAGGCGCTGCAGCAGCAGCACAGCGTGCAGGTGGACCAGCTGCGCA
TGCAGGGCCAGAGCGTGGAGGGCCGCGCTCCGCATGGAGCGCCAGGCGCGCTCGGAGGAGAAGAGGAAGCTGGCCC
AGTTGCAGGTGGCCTATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCAGTGAGC
GGAAGCGAGGAATGCAGCTGGAAGATCTCAACAGCAGCTCCAGCAGGCCGAGGAGGCCCTGGTGGCCAAACAGG
AGGTGATCGATAAGCTGAAGGAGGAGGCCGAGCAGCACAAAGATTGTGATGGAGACCGTTCGGGTGCTGAAGGCC
AGGCGGATATCTACAAGGCGGACTTCCAGGCTGAGAGGCAGGCCCGGAGAAGCTGGCCGAGAAGAAGGAGCTCC
TGCAGGAGCAGCTGGAGCAGCTGCAGAGGGAGTACAGCAAACTGAAGGCCAGCTGTCAGGAGTCGGCCAGGATCG
AGGACATGAGGAAGCGGCATGTCGAGGTCTCCAGGCCCCCTTGCCCCCGCCCCCTGCCTACCTCTCCTCTCCCC
TGGCCCTGCCCAGCCAGAGGAGGAGCCCCCCCCGAGGAGCCACCTGACTTCTGCTGTCCCAAGTGCCAGTATCAGG
CCCCTGATATGGACACCCTGCAGATACATGTATGGAGTGCATTGAGTAGGGCCGGCCAGTGCAAGGCCACTGCC
TGCCGAGGACGTGCCCCGGGACCGTGCAGTCTGCGCTTTCCTCTCCCGCTGCCCTAGCCCAGGATGAAGGGCTGGG
TGGCCACAACCTGGGATGCCACCTGGAGCCCCACCCAGGAGCTGGCCGCGGCACCTTACGCTTCAGCTGTTGATCC
GCTGGTCCCCCTCTTTTGGGGTAGATGCGGCCCCGATCAGGCCTGACTCGCTGCTCTTTTGTTCCTTCTGTCTG
CTCGAACCACCTTGCTCGGGCTAATCCCTCCCTCTTCTCCACCCGGCACTGGGGAAGTCAAGAATGGGGCCTGG
GGCTCTCAGGGAGAACTGCTTCCCTTGGCAGAGCTGGGTGGCAGCTCTTCTCCACCCGGACACCGACCCGCCCG
CTGCTGTGCCCTGGGAGTGCTGCCCTCTTACCATGCACACGGGTGCTCTCCTTTTGGGCTGCATGCTATTCCATT
TTGCAGCCAGACCGATGTGTATTTAACCAGTCACTATTGATGGACATTTGGGTGTTTCCCATCTTTTGTGTACC
ATAAATAATGGCATAGT

4944/5332
FIGURE 4293

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGAGCCCTCCGCGAGCGCGCGAGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGGCCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGCCGGCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCGCCCGCACGAGGG
GTGGTGGCCGAGGCCCGCCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCGCCCGG
GCCGATTAAATGGGCCGGCGGGGCTCAGCCCCCGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGCGGATGCCTTCCATCAGTCGGATACACACATATTTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCGAAAACACCTTCATC
ATGGGCTATGCCGTTCCCGCTCACAGTGGCTGACATCCGCAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTACAGGCCAACCGCCTCTTCTACCTGGCCTTG
CCCCGACCGTCTACGAGGCCGTACCAAGAACATTACGAGTCTTCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGTGAGATTGCCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTGGC
ACTGAGGGTCGCGGGGGCTATTTGATGAATTGGGATCATCCGGGACGTGATGCAGAACCACCTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAAATGTGGTCTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAGGGTACCTGGACGACCCACGGTGCCCGCGGGTCCACCACCGCCACTTTTGCAGCCGTCTGCTCCTC
TATGTGGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGAGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACCTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAACAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCTCCTTCCCGCCGCCCGACCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTGGCCCCGGGCTCTGGCCACCTGGCCCCGCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCTTGTACCAGCAAC
ATCTCGAGCCCCCTGGATGTCCCTGTCCCACCAACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

4945/5332
FIGURE 4294

AACCACATCTTCGTCCCAGCCCCGGAGGCTCCTGTGGGCAAGATCGTGAGCCAACGGGTTCTTGAGGCCCTCCT
GGCCAGGCAGGGTTTCCCCGCGCGTTTCCGAGGAGCCCTGCCTGGCCGGGCGGCTGGACAAACAGGTCGTAGCAC
CGATCGCGCCCCGCCCCAGCAGGGGTCCCGCACAGGCTTGCCCTGACCCCCACCCAAACCTGTCCTTCCGCTTT
GCCCCAAACAGTGCACTTGCCGGCGGTCCCAACCCAGCAGGAGAAGTGGACATGAGGTTGGCAGGCCCTCTCCG
CATTGTGGTCTTAGTCGTCACTGTGGGTGTACATGGATCGTGGTCAGCATCCTCCTGGGTGGGCCTGGCAGTGG
CTTTCCTCGCATCCAGCAACTCTTACCAGTCCAGAGAGCTCGGTGACTGCAGCGCCACGGGCCAGGAAGTACAA
GTGTGGCCTGCCCCAGCCGTGTCTGAGGAGCACCTGGCCTTCCGCGTGGTCAGCGGGGCCCAACGTCATTGG
GCCCCAAGATCTGCCTCGAGGACAAGATGCTGATGAGCAGCGTCAAGGACAACGTGGGGCCGCGGGCTGAACATCGC
CCTGGTGAACGGGGTCAGCGGCGAGCTCATCGAGGCCCGGGCCTTTGACATGTGGGCCGGAGATGTCAACGACCT
GTTGAAGTTTATTTCGGCCACTGCACGAAGGCACCCTGGTGTTCGTGGCATCCTACGACGACCCAGCCACCAAGAT
GAATGAAGAGACCAGAAAGCTCTTCAGTGAGCTGGGCAGCAGGAACGCCAAGGAGCTGGCCTTCCGGGACAGCTG
GGTGTTCGTGGGGCCAAGGGTGTGCAGAACAAAGAGCCCCCTTTGAGCAGCACGTGAAGAACAGTAAGCACAGCAA
CAAGTACGAAGGCTGCCCCGAGGCGCTGGAGATGGAAGGCTGTATCCCGCGGAGAAGCACGGCCAGCTAGCACGG
CCAGTGCCAGGACCGGGCCGAGGGAGGCCAGACCAAGGGAGGCACGCGCGCTGCCGGGCGGACAGAGGCTGAGGC
TCACACCCACACCCGGGCAGGAGCGCTCCCTGGCCCCAACACATCGGGGCTCCGAGGCAGTGACCAGAACGTGG
TCTCAAGGTGGTGGGGGCTATGGGGGCTGCAGGGGGTAGCCCTGCCGCACTTTGTACGGGAGCCCAGGGTACCC
GCCTCCTTTTCGTAACACTGTTCCCCCGGTCAGCCCATCTAGCCCTGTCTCCATTCTCACGCCATCTCCATC
CCCATCTTGAGTCCTGGAACGGCCCTGGGTGCCTGCCCCCTCACTGTGCATCTCTGGGAGCAGCCCGCAGGTTGG
GGCGTCTTCCAGAACCTCTCCCTTCTGGAGCCACTCTGCACTGCGGGCTAAACATGTTTCCAGTGTGATTCTTC
CAGTGAGCCAAACCCGGTGGCTGCTTCATGAGCCTGACTGCCTCTCGCCTGCTCTCAGCAGGAAGGGACCCCTGG
AGCAGGCTGGCCCGGGGTGGTGAAGTAGCTGGAGCCCCGATCACAGTCCCGCGGTTTGTACAGGGGGCCACCTTCT
AGATGACCCCTTAATAAAGTGATGGCCCCAC

4946/5332
FIGURE 4295

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGGCCTGGCAGGGA
AGGGCCGCCCGCCGCCGCCGCGCTTTGCGAGGCCTGGCGGGGGCCGCGGGGCCAGGAATGGCGTAAGGGGCCCC
CCAGACTCCGAGACGGCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGCGTGCCCTTCCTTTCTCCCTCCCAGGT
TCGCGCCCGAGCTCTGCTAGCCACCCGTCCGACAACCTCCGGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCTTCTCAGGACAACCAACAGCACCCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCTCCAGGAAGAGCCATCGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGGCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTACACCGTGCCACCGACT
GGGGGCCGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGAGTTTCTTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAAGCTGAGTGCTATAACCTGGGGAGGCGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCTGCCACCCTCAGCGCCGACCTGGCCCCAC
TTCTCGGAAAACCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTTCGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCAGCCOATGCTGCTGGGCCCTCTGGGCCAGTTTCTGGTC
ATGCCCTTGACGCTTTCCTCATGGCCAAGGTCTTCATGCTGCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCTGGCGGCGGGGGAGCTACCTCTTCAGCCTCCTTCTTGAGGGGACGTACCCCTGGCCATCTCC
ATGACTTTCCTCTCTACGGTGGCTGCCACTGGCTTCTTGCCCTCTGTCTTCGGCCATCTACAGCCGCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCTGCTGTTTATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTTCTCCAGCTGCTGCTGCAGGTCTGCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGCCCTGGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGCCATGCTGCAGCTATCC
CTCCGCCGCTTCAAGCTGACTATGCCTCCCAGGCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCATTGGCCACTTCATCTACAGCAGCCTGTTCCAGTTCCCTGAGGCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTTACTG
ATTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAAATATA
TTTCAATAAAAGAGAGAAGCAAGC

4947/5332
FIGURE 4296

ATGCAGCTGACGGTGAAGGCGCTGCAGGGCCGCGAGTGCAGCCTGCAGGTGCCAGAGGACGAGCTGGTGTCCACG
CTGAAGCAGCTGGTCTCCGAGAAGCTGAACGTCCCAGTGCGCCAGCAGCGGCTGCTGTTCAAGGGCAAGGCCCTG
GCAGATGGGAAACGACTCTCGGATTATAGCATCGGGCCCAACTCCAAGCTCAACCTAGTGGTCAAACCCCTGGAG
AAGGTGCTACTAGAAGAAGGCGAGGCCAGAGGCTGGCCGACTCCCCACCCCGCAGGTCTGGCAGCTGATCTCC
AAAGTCTTGCCCCGCCACTTCAGTGCGGCAGATGCCAGCAGGGTCTTGGAACAGCTACAGAGGGATTACGAGAGG
TCCCTGAGTCGCCTGACGCTGGACGACATCGAACGGTTGGCCAGCCGCTTCCTGCACCCTGAAGTGACTGAGACA
ATGGAGAAGGGCTTCTCCAAATAG

4948/5332
FIGURE 4297

CGGGACGCGGATGCAGACGCAGGCGGAGGCGCTGACGGCGGGGATGGCCGGGGTGGCCACAGCTGCCGCGGGGGC
GTGGACACAGCCGCAGCTCCGGCCGGTGGAGCTCCCCAGCGCACGCGCCAGGTCCGGGCAGAGACGCCGCGTCT
GCGCCAGGGGGTCACGAATGCGGCCGCACATATTCACCCTCAGCGTGCCTTTCCCGACCCCTTGGAGGCGGAAA
TCGCCCATGGGTCCCTGGCACCAGATGCCGAGCCCCACCAAAGGGTGGTTGGGAAGGATCTCACAGTGAGTGGCA
GGATCCTGGTCGTCCGCTGGAAAGCTGAAGACTGTGCGCTGCTCCGAATTTCCGTCATCAACTTTCTTGACCAGC
TTTCCTGGTGGTGGGACCATGCAGCGCTTTGGGCCCCCGTTTCCCGCTAAGCCTGGCCTGGGCAAATGGAGC
GAGGTCCCACTTTGCGTCTCCTTGTAGGCAGTGCGTCCATCCTTCCCTAGGGCAGGAATTTCCACAGTTGCTACT
TTCTGGGAGGGCCTCATGTTTTATCTGGTTCTTAAATGTTTGTTACTACAGAAAATAAACTG

4949/5332
FIGURE 4298A

AGTGTGTGGGCGGCGGCGGCGGCGGCTGCGCGCTTGGGGCCCCGGGGCGGGGCGAGGCCGTGGGGACGTGCGAG
CGGGGCGCGGTGGGGCTCGGGGGCGCGTCCACGTGGCCAGAGGGCGGCCACCCGGAGCCAGCGGAGGGACAGGC
CTGTCCCCAGGCGCGGCTGCCGGCCATGCCCTCTGTCTGCCTCCTCCTGCTGCTCTTCCTTGCCGTGGGGGGGGC
CCTGGGCAACAGGCCCTTCCGTGCCCTTCGTGGTGACAGACACCACGCTTACCCACCTGGCTGTGCACCGGGTGAC
TGGGGAGGTGTTTCGTGGGCGCAGTGAACCGAGTCTTTAAGCTGGCCCCCAACCTGACTGAGCTGCGGGCCCATGT
CACGGGGCCCGTCGAGGACAACGCTCGCTGCTACCCGCCCCCAGCATGCGCGTGTGTGCCCCACCGCCTGGCCCC
CGTGGACAACATCAACAAGCTGTGCTCATAGACTATGCGGCCCCCGCGCTGGTGGCCTGCGGCAGCATCTGGCA
GGGCATCTGCCAGTTCTGCGTCTGGACGACCTCTTCAAGCTGGGTGAGCCGCACCACCGCAAGGAGCACTACCT
GTCGGGGGCCCCAGGAGCCCCGACTCCATGGCTGGTGTCAATTGTGGAGCAGGGCCAGGGGCCCCAGCAAGCTGTTTGT
GGGCACTGCTGTGCGACGGCAAGTCGGAGTACTTCCCCACCTTGAGCTCCCGCAAGCTCATCAGTGATGAAGACAG
CGCGGACATGTTTCAGTCTCGTGTACCAGGATGAGTTTGTGTCTCCAGATCAAGATCCCCCTCAGACACGCTGTC
CTTGTAACCTGCGCTTTGACATCTACTACATCTACGGCTTCGTGACGCGCTCCTTCGTGTACTTCTGACGCTGCA
GCTGGACACCCAGCAGACGCTGTTGGACACAGCGGGCGAGAAATTTTTCAGTCCAAGATCGTGCGCATGTGCGC
GGGAGACTCAGAGTTCTACTCATACGTGGAATTTCCCATCGGCTGCTCCTGGCGCGGCGTGGAGTACCGCTTGGT
GCAGAGCGCCACCTGGCCAAGCTGGCCTGCTGCTGGCCAGGCCCTGGGCGTGCCGGCTGATGAGGACGTCTCT
CTTCAACATCTTCTCTCAGGGCCAGAAGAACC GGCCAGCCCCACCCGGCAGACCATCCTCTGCCTCTTACCCT
CAGCAACATCAATGCCCACATCCGGCGCCGCATCCAGTCTCTGCTATCGTGGGAGGGCACTCTGGCTCTGCCCTG
GCTGCTGAACAAGGAGCTGCCCTGCATCAACACCCCCATGCAGATCAACGGCAACTTCTGTGGGCTGGTGTGA
CCAGCCTCTGGGAGGCTGCATGTGATCGAGGGGCTGCCCCCTGCTGGCCGACAGCACCAGCGCATGGCCAGCGT
GGCCGCTACACCTACCGCCAGACTCTGTGGTCTTCATTGGCACGCGCAGCGGCAGCTTGAAGAAGGTGCGGT
CGATGGCTTCCAGGATGCCCCACCTGTATGAGACAGTCCCCGTGGTGGATGGCAGCCCCATCCTCCGAGACCTGCT
CTTCAGCCCGGACCACCGCACATCTATCTCTGAGTGAGAAGCAGGTGAGCCAGCTCCCGGTGGAGACCTGTGA
GGCAGCCCGGACCGCAGCCTGCCCTGGGCTCCGGGGACCCGCACTGTGGTGGTGTGTGCTGCGACACAGGTG
CTGCCGGAAGGGGCTGTCTGGGCGCCTCTGCCCCACACGGCTTTGCTGAGGAGCTGAGCAAGTGTGTCCAGGT
GCGGGTCCGGCCCCAACAATGTGTGCTAGTGACGTACCTGGGGTGCAGCTGACCGTCACCTGCACAACGTGCCAGA
CCTCAGTGCGGGCGTGAGCTGCGCCTTCGAGGCGGGCGGAGAAACAGGCGGTCTGCTGCCCTCCGGTGAACCT
GCTCTGCCCCCTCACCTCCCTCCAGGAGCTCCGAGCTCTTACCAGGGGGCATGGGGCCACCCGCACTGTGCGGCT
GCAGCTTCTCTCAAGGAGACAGGCGTGAGGTTTGCCGGTGCTGACTTTGTCTTCTACAACCTGCAGCGTCTCCA
GTCGTGCATGTCTGTGTTGGCAGCCCTTACCCTTGCCACTGGTGTAAGTACCGCCACACGTGTACCAGCCGCCC
CCACGAGTGCTCCTTCCAGGAGGGCAGGGTCCACAGCCCTGAGGGCTGCCCTGAGATCCTGCCAGTGGGGACCT
CCTGATCCCCGTTGGGGTCATGCAGCCTCTTACCTTGCGGGCTAAGAACCTACCTCAGCCGCACTCGGGCCAGAA
GAACTATGAGTGCGTGGTGCAGGGTGCAGGGGCGGCAGCAGCGGTGCCTGCCGTGCGCTTCAACAGCAGCAGTGT
GCAGTGCCAGAACGCTCGTACTCTATGAAGGTGATGAGCATGGTGACACCGAGCTGGACTTCTCCGTGGTCTG
GGATGGAGACTTCCCCATAGACAAGCCTCCAGCTTCCGAGCCCTCCTGTACAAGTGTGGGCGCAGCGGCCAG
CTGTGGCCTCTGCCTCAAGGCTGATCCCCGCTTCAACTGTGGCTGGTGCATCTCAGAGCACAGGTGCCAGCTGCG
GACCCACTGCCCGGCCCCGAAGACCAACTGGATGCACCTGAGCCAGAAGGGCACCCGGTGCAGCCACCCCGCAT
CACGCAGATCCACCTCTCGTGGGGCCCAAGGAAGGAGGCACCCGGGTACCATCGTGGGTGACAACCTGGGCCT
CTTGTCCCAGAGGTGGGCCTGCGGGTGGCTGGCGTGCGTTGCAACTCCATTCCGGCCGAGTACATCAGTGCTGA
GAGGATCGTGTGTGAGATGGAGGAGTGCCTGGTGCCAGCCCGCCGCGGGGGCCCGTGGAGCTGTGTGTGGGTGA
CTGTTACAGCCGACTTCCGCACGCAGTCGGAGCAGGTCTACAGCTTTGTGACCCCAACGTTTGACCAAGTGAGTCC
CAGCCGTGGCCCGCGCTCCGGGGGCACACGGCTTACCATCTCAGGCAGCTCTCTGGATGCTGGCAGCAGGGTCAC
AGTGACTGTGAGGGACAGCGAGTGCCAGTTTGTAAAGGAGAGATGCCAAGGCGATCGTGTGCATCTCACCTCTCTC
CACCTGGGGCCCCAGCCAGGCCCCCATCACACTTGCCATTGACCGGGCTAACATCTCCAGCCCCGGGCTCATCTA
CACCTACACTCAGGACCCCCACCGTCACCCGCCTTGAGCCCACCTGGAGCATCATCAATGGAAGCACTGCCATCAC
TGTGAGTGGGACCCACCTGCTGACGGTCCAGGAGCCCCGGGTCCGTGCCAAGTACCGCGGCATTGAGACCACCAA
TACATGCCAAGTGATCAACGACACTGCCATGCTGTGTAAGGCCCCCGGCATCTTTCTTGGGCGGGCCCCAGCCTCG
GGCGCAAGGCGAGCACCCCTGATGAGTTTGGCTTCTGCTGGACCAGCTGCAAACGGCCCGTCCCTCAACCGCTC
CTCCTTTACCTACTACCCTGATCCCAGCTTTGAGCCGCTGGGGCCCTCTGGCGTGTGGACGTCAAACCGGGCTC

4950/5332
FIGURE 4298B

CCACGTGGTGCTGAAGGGCAAGAACCTGATTCCCGCGGCAGCCGGCAGCTCCCGCCTCAACTACACTGTGCTGAT
AGGAGGCCAGCCGTGTTTCGCTCACTGTCTCGGACACACAACCTCTGTGCGACTCACCCAGCCAGACTGGCCGGCA
GCCTGTATGGTGCTGGTGGGTGGCCTGGAGTTCTGGCTGGGCACCCCTGCACATCTCGGCAGAGCGGGCGCTGAC
CCTACCGGCCATGATGGGGCTGGCGGGCGGGGGTGGGCTCCTGCTGCTGGCCATCACAGCCGTGCTGGTGGCGTA
CAAGCGCAAGACTCAGGACGCGGACCGTACCCTCAAGCGTCTGCAGCTGCAGATGGACAACCTGGAGTCCCGTGT
GGCCCTGGAGTGCAAGGAAGCTTTTGAGAGCTGCAGACGGACATCAATGAGCTGACTAACCACATGGACGAGGT
GCAGATCCCCCTTCTGGACTACCGGACTTACGCCGTGCGCGTGCTCTTCCCGGGCATCGAGGCCACCCGGTGCT
CAAGGAGCTGGATACGCCACCCAACGTGGAGAAGGCCCTGCGCCTCTTCGGGCAGCTGCTGCACAGCCGCGCGTT
CGTGCTTACCTTCATCCACACGCTGGAGGGCCAGAGCAGCTTCTCCATGCGCGACCGCGGCACCGTGGCCTCGCT
CACCATGGTGGCCCTGCAGAGCCGGCTCGACTATGCCACGGGGCTGCTCAAGCAACTGCTGGCCGACCTCATCGA
GAAGAACCCTCGAGAGCAAGAACCACCCCAAGCTGCTGCTACGCAGGACAGAGTCAGTGGCTGAGAAGATGCTTAC
CAACTGGTTACGTTCTGCTGCATAAGTTTCTGAAGGAGTGTGCTGGGGAGCCTCTCTTCTGCTTTACTGTGC
CATCAAGCAGCAGATGGAGAAGGGCCCCATTGATGCCATCACGGGCGAGGCACGATACTCCCTGAGCGAGGACAA
GCTCATCCGTGAGCAGATCGACTACAAGACACTGACCCTTCACTGCGTGTGTCCGGAGAACGAGGGCAGGCCCA
GGTCCCAGTAAGGTTCTCAACTGTGACAGCATCACCCAGGCCAAAGATAAGCTGCTGGACACTGTGTACAAGGG
CATTCCGTACTCCCAGCGTCCCCAAAGCTGAGGACATGGACCTGGAGTGGCGCCAGGGCCGCATGACTCGCATCAT
CCTCCAGGATGAGGATGTCACCACCAAGATCGAGTGTGACTGGAAGAGGCTCAACTCACTGGCCCACTACCAGGT
GACAGACGGTTCCCTTGGTGGCATTGGTGCCAAACAAGTGTCTGCCTATAACATGGCCAACCTCCTTACCTTCAC
CCGCTCCCTCAGCCGCTACGAGAGCTTGCTCCGCACGGCCAGCAGCCCTGATAGCCTCCGCTCACGGGCACCCAT
GATTACGCCTGACCAGGAGACAGGCACCAAATTGTGGCACCTGGTGAAAAACCACGACCATGCCGACCATCGCGA
GGGGGACCGTGGCAGCAAGATGGTCTCCGAGATCTACCTGACACGGCTGCTGGCCACCAAGGGCACACTGCAGAA
GTTCGTGGATGACCTCTTTGAGACAGTGTTAGACACAGCCACCGGGGCTCGGCCCTGCCCTGGCCATCAAGTA
CATGTTGCACTTCTGGATGAGCAGGCGGACCAGCGCCAGATCAGCGACCCCGATGTGCGCCACACCTGGAAGAG
CAACTGCCCTGCCGCTGCGCTTCTGGGTGAATGTGATCAAGAACCCGCAGTTCGTGTTGACATCCACAAGAACAG
CATCACGGATGCCTGCCTGTGCGTGGTAGCCAGACCTTCATGGACTCCTGCTCTACATCCGAGCACCGCCTGGG
GAAGGACTCGCCCTCCAACAACTGCTCTACGCCAAGGACATCCCCAACTACAAGAGCTGGGTGGAGAGGTATTA
TCGAGACATTGCAAAGATGGCATCCATCAGCGACCAGGACATGGATGCCTACCTGGTGGAGCAGTCCCGCCTCCA
CGCCAGCGACTTCAGCGTCCCTGAGTGCCTCAACGAGCTGTATTTCTATGTCACCAAGTACCGCCAGGAGATTCT
CACGGCTCTGGACCGAGATGCCTCTTGTGCGAAGCATAAGTTGCGGCAGAACTGGAACAGATCATCAGCCTCGT
GTCCAGCGACAGCTAAGGTGGTGGAAATCGGTGAGGAGGGGGCTTCTCAGTCCTGTGCCGTCTCCCATCCAGGGG
AGTGGCTGGCTCAAGCCTGGGTCCCCGGGCTGAGCCCTGGATTGGGTATCGTGGGGCAGGTACCCCTGGCCACGA
TGCCCCCGGCACACCAGGCCCCCTTCATTAGTGCCTTGCTTTGGGCCCTGCAGGGGGAGGGGTGACAGGGCGAG
CCCCACCCAGCAGCAGCAATACCCC

4951/5332
FIGURE 4299

4952/5332
FIGURE 4300

CGGCGGCGGCGGTGGCGGCGGCGACTGCTGCGGTGAAGGAGGAGGAGCCGAGCGGGCGCTGGCACCGAGGCC
TGACCATGGACGAGGAATACGATGTGATCGTGCTGGGGACCGGTCTCACCGAATGCATCCTGTGGGCATCATGT
CTGTGAACGGGAAGAAGGTGCTGCACATGGACCGGAACCCCTACTACGGGGCGAGAGCTCCTCCATCACACCCC
TGGAGGAGCTGTATAAGCGTTTTTCAGTTGCTGGAGGGGGCCCCCTGAGTCGATGGGCCGAGGCCGAGACTGGAATG
TTGACCTGATTCCCAAATTCCTCATGGCTAACGGGCAGCTGGTAAAGATGCTACTGTATACAGAGGTGACTCGCT
ACCTGGACTTCAAGGTGGTGGAGGGCAGCTTTGTCTACAAGGGGGGCAAGATCTACAAAGTGCCGTCCACTGAGA
CTGAGGCCTTGGCTTCCAATCTGATGGGCATGTTTGAGAAACGGCGCTTCCGCAAGTTTCTGGTGTGTTGTGGCAA
ACTTCGATGAGAATGACCCCAAGACCTTTGAGGGCGTTGACCCCCAGACTACCAGCATGCGTGACGTCTACCGGA
AGTTTGATCTGGGCCAGGATGTATCGATTTCACTGGCCATGCCCTGGCGCTCTACCGCACTGATGACTACCTGG
ACCAGCCCTGCCTTGAGACCGTCAACCGCATCAAGTTGTACAGTGAGTCCCTGGCCCCGATGGCAAGAGCCCAT
ATTTATACCCGCTCTACGGCTTGGGCGAGCTGCCCCAGGGTTTTGCAAGATTGAGTGCCATCTATGGGGGACAT
ATATGCTGAACAACTGTGGATGACATCATATGGAGAACGGCAAGGTGGTGGGCGTGAAGTCTGAGGGAGAGG
TGGCCCGCTGCAAGCAGCTGATCTGTGACCCCAGCTACATCCCGACCGTGTGCGGAAGGCTGGCCAGGTTATCC
GCATCATCTGTATCCTTAGCCACCCCATCAAGAACACCAACGACGCCAACTCCTGCCAAATAATCATCCCCAGA
ACCAGGTCAACAGGAAGTCAGACATCTACGTGTGCATGATCTCCTATGCACACAACGTGGCGGCCAGGGCAAGT
ACATAGCTATTGCCAGCACTACTGTGGAGACCACGGACCCTGAAAAGGAGGTGGAGCCGGCTCTGGAGCTGTTGG
AGCCCATTGACCAGAAGTTTGTGGCTATCAGTGACTTGTATGAGCCCATGATGATGGTTGTGAGAGCCAGGTGT
TCTGTTCTGCTCCTACGATGCCACCACACACTTTGAGACAACCTGCAACGACATCAAAGACATCTACAAACGCA
TGGCTGGCACGGCCTTTGACTTTGAGAACATGAAGCGCAAACAGAACGACGTCTTTGGAGAAGCTGAGCAGTGAT
TGTGGCCGCCCCCAGCCCCTGCTGCCCCAGCCTGTGTCTGTTCTCCTCGAGGGCTCCAGCATCCTCTGCTTCCCC
CACCACGTTCCCATCACCCACCTCATTGATCCACTGACCAAATCCTTAACCCTAGCGATGGCTTGGGAGATGGGG
GGTTGGATAGCATCCTCTTTCTTGGCCCTTCTTATCCTAGGAAAAGAGGGTTCTCTCCTTGTGTGTGTCTCTT
CCCCCACCCTAATTCTTCTGCTCTGTTTGGGAAGACGTGGAGGAAAAGGTGACTTCTGCCCCACCCTCTTA
CCCCACTGTAGTGGCCTTTGGAGATGCCCCACCTCCCCCCCACCAACTCTCGCGTGTGGAGAGAAGGGGCCC
TCCCAGCACAAAGTTGCATTCTCCCCCTAATTTATTCTAATTTATTAACCTTTGACCCACCCTTTCTGAGCCTG
CAGCCTTCCCGTGTGGCCTGAGGGCTGTGAGTGAGCTGCCCCAGCCCCCTCCAGCCCTTGCCAGCCTGGGGGA
GTGGGGAAGGCTTGGGCATGGCCCCGTTGGAGGTTGATTTGCTGTTTTGTTTCTTGTCTTTGTGTTCTGTGGTAC
TTGCTGAGAGAAAAGAAAAGTGAGCCAAGCAGAAGGAGGTGGGAAAACGGACCCAAACCCCAAGTGTGCCCTGCC
CATGCCTTTCTTTAGTGGTGGGAAACCCTTATCTTGCAAAGTGAATGTGTCCCTTCCCCACCCTCTAGTGTAT
TTCACAGAAAACAAAACCTCCCAATAAAACGGTTGAAACCTG

4953/5332
FIGURE 4301

GGCAGTGGAGGCTGAGGCTATGATATGGCGCCCATGGCGACGGCTCGAGTGCGGATGGGGCCGCCATGGCCCCAGGC
GCTCTGGCGCATGCCGTGGCTGCGCGTGTTTTTGTGCTTGGCGCGCGCGCGCGGCAGCGGCGGAGCAGCA
GGTCCCGCTGGTGCTGTGGTTCGAGTGACCGGGACTTGTGGGCTCCTGCGGCCGACACTCATGAAGGCCACATCAC
CAGCGACTTGCAGCTCTCTACCTACTTAGATCCCGCCCTGGAGCTGGGTCCAGGAATGTGCTGCTGTTCTCTGCA
GGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGGACAGCGCCTTTTCTAA
CCTAGAGAATGCCCTGGACCTGGCCCCCTCCTCACTGGTGCTTCTCGCCGTCGACTGGTATGCAGTCAGCACTCT
GACCACTTACCTGCAGGAGAAGCTCGGGGCCAGCCCCTTGCATGTGGACCTGGCCACCCTGCGGGAGCTGAAGCT
CAATGCCAGCCTCCCTGCTCTGCTGCTCATTGCGCTGCCCTACACAGCCAGCTCTGGTCTGATGGCACCCAGGGA
AGTCTTCACAGGCAACGATGAGGTTCATCGGGCAGGTCTGAGCACACTCAAGTCCGAAGATGTCCCATACACAGC
GGCCCTCACAGCGGTCCGCCCTTCCAGGGTGGCCCGTGATGTAGCCGTGGTGCCGGAGGGCTAGGTTCGCCAGCT
GCTACAAAAACAGCCAGTATCACCTGTGATCCATCCTCCTGTGAGTTACAATGACACCGCTCCCCGGATCCTGTT
CTGGGCCCCAAACTTCTCTGTGGCGTACAAGGACCAGTGGGAGGACCTGACTCCCCCTCACCTTTGGGGTGCAGGA
ACTCAACCTGACTGGCTCCTTCTGGAATGACTCCTTTGCCAGGCTCTCACTGACCTATGAACGACTCTTTGGTAC
CACAGTGACATTCAAGTTCATTCTGGCCAACCGCCTCTACCCAGTGTCTGCCCCGGCACTGGTTTACCATGGAGCG
CCTCGAAGTCCACAGCAATGGCTCCGTGCGCTACTTCAATGCTTCCCAGGTTCACAGGGCCCAGCATCTACTCCTT
CCACTGCGAGTATGTGACGAGCCTGAGCAAGAAGGGTAGTCTCCTCGTGGCCCGCACGCAGCCCTCTCCCTGGCA
GATGATGCTTCAGGACTTCCAGATCCAGGCTTTCAACGTAATGGGGGAGCAGTTCTCCTACGCCAGCGACTGTGC
CAGCTTCTTCTCCCCCGGCATCTGGATGGGGCTGCTCACCTCCCTGTTTCATGCTCTTCATCTTCACTATGGCCT
GCACATGATCCTCAGCCTCAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTTGACCCAGAT
TGTGTGACCCCTGTGCCAGTGGGGGGGTTGAGGGTGGGACGGTGTCCGTGTTGTTGCTTTCCACCCCTGCAGCGCA
CTGGACTGAAGAGCTTCCCTCTTCTACTGCAGCATGAAGTGAAGCTCCCTCAGCCCATCTTGCTCCCTCTTCT
AGCCCCGTGAGGAGCTTTCTTGGGCTGCCCCCATCTCTCCCAACAAGGTGTACATATTTCTGCGTAGATGCTAGAC
CAACCAGCTTCCAGGGTTTCGTGCTGTGAGGCGTAAGGGACATGAATTCAGGGTCTCCTTTCTCCTTATTAT
TCTTGTGGCTACATCATCCCTGGCTGTGAGTATGCTTTTGTGTAGCAAAATGCTCCCTCCTTAAGGTTATAGGGC
TCCCTGAGTTTGGGAGTAGTGAAGTACTACTTAAGTGTCTGTCTGCTTGGCTGTGCTTATCGTTTTCTGGTGT
GTTGTGCTAAACAAGAAGTACAGCGGTTTATTTCTGTGGCCTGAGAAGGAAGGGACCTCCACGACAGGTGGGC
TGGGTGCGATCGCCGCTGTTTGGCATGTTCCACCGGGAGTGCCGGGCAGGAGCATGGGGTGCTTGGTTGTTTCT
CTTCTTAATAAAATAAACCGGGGTCGCCATG

4954/5332
FIGURE 4302

CCGGGCCGGGGTGCCAGCGCCCGCTTTCCCGTTTCTCCCGTTCCGCAGCGCGCCACGGCCTGTGACTTCGGAG
ACCGCTCCCCAGTGACGAGAGAGCGGGGCCGGCGCTGCTCCGGCCTGACCTGCGAAGGGACCTCGGTCCAGTAC
CCTGTTGCGCCGCGCCCCCGTCCGTCCGTGCGCGGGCCAGTCAGGGGCCAGTGTGTGAGGCGGTAGAGGTCGCA
GCCTAGAGGCGTTCCACAGGTCGGCCCGGGGCGCTGGGAGCCCGGCCGGCGGTGCGGTGGGGTGGCCTCTGCACG
TGAAAGTGGCCGTTCCCGCGGTGCCGCCGCTCACCTGGACCCTGGCCAGCAGCGTCGTTCATGGGCTTGGTGGGC
ACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCGTGCACACAGGGAGGTGCTGTACGAGCTCATC
GAGAAGCGAGGCGCGGCCACGCCCTCATCACCGTGTCCAATCACCAGTCCTGCATGGACGACCCTCATCTCTGG
GGGATCCTGAAACTCCGCCACATCTGGAACCTGAAGTTGATGCGTTGGACCCCTGCAGCTGCAAGACATCTGCTT
CACCAAGGAGCTACACTCCCACTTCTTCAGCTTGGGCAAGTGIGTGCTGTGTGCCGAGGAGCAGAATTTTTCCA
AGCAGAGAATGAGGGGAAAGGTGTTCTAGACACAGGCAGGCACATGCCAGGTGCTGGAAAAAGAAGAGAGAAAGG
AGATGGCGTCTACCAGAAGGGGATGGACTTCATTTTGGAGAAGCTCAACCATGGGGACTGGGTGCATATCTTCCC
AGAAGGGAAAGTGAACATGAGTTCCGAATTCCTGCGTTTCAAGTGGGGAATCGGGCGCCTGATTGCTGAGTGTCA
TCTCAACCCCATCATCTGCCCCGTGTGGCATGTGCGGAATGAATGACGTCCTTCCTAACAGTCCGCCCTACTTCCC
CCGCTTTGGACAGAAAATCACTGTGCTGATCGGGAAGCCCTTCAGTGCCTGCCTGTACTCGAGCGGCTCCGGGC
GGAGAACAAAGTCGGCTGTGGAGATGCGGAAAGCCCTGACGGACTTCATTCAAGAGGAATTCCAGCATCTGAAGAC
TCAGGCAGAGCAGCTCCACAACCACCTCCAGCCTGGGAGATAGGCCCTTGCTTGCTGCCTTCTGGATTCTTGGCCC
GCACAGAGCTGGGGCTGAGGGATGGACTGATGCTTTTAGCTCAAACGTGGCTTTTAGACAGATTGTTCATAGAC
CCTCTCAAGTGCCCTCTCCGAGCTGGTAGGCATTCCAGCTCCTCCGTGCTTCCTCAGTTACACAAAGGACCTCAG
CTGCTTCTCCCACTTGGCCAAGCAGGGAGGAAGAAGCTTAGGCAGGGCTCTCTTTCCTTCTTGCCTTCAGATGTT
CTCTCCCAGGGGCTGGCTTCAGGAGGGAGCATAGAAGGCAGGTGAGCAACCAGTTGGCTAGGGGAGCAGGGGGCC
CACCAGAGCTGTGGAGAGGGGACCCTAAGACTCCTCGGCCTGGCTCCTACCCACCGCCCTTGCCGAACCAGGAGC
TGCTCACTACCTCCTCAGGGATGGCCGTTGGCCACGTCTTCTTCTGCTGAGCTTCCCCCCCACCACAGGCCCT
TTCCTCAGGCAAGGTCTGGCCTCAGGTGGGCCGAGGCCGGAAGCAGCCCTTGGCCAGAAGTCAAGCCCAGCC
ACGTGGAGCCTAGAGTGAGGGCCTGAGGTCTGGCTGCTTGGCCCCATGCTGGCGCCAACAACCTCTCCATCCTTT
CTGCCCTCTAACATCACTTGAATCCTAGGGCCTGGGTTTTTCATGTTTTTGAAACAGAACCATAAAGCATATGTGT
TGGCTTGTT

4955/5332
FIGURE 4303

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAATTTGTCCAGCCTTCTATTACCACGTGGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTACAGCCCCACCTCCTGCTCACAGACCCTGTCCGAGCACCTCATTTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGCCAT
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGCCCGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTACAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCCTCCAGAGCCAGAACTGAGCCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTTGGGGTGTCCCCGGCAGCCACACACAGCCATGCACTACCCAACTGCACTCCTCTTCTCTCA
TCTTGGCCAATGGGGCCCAGGCCTTTTCGCATCTGCGCCTTCAATGCCAGCGGCTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGCTGCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTGATGGCTCTGGGCCCTACAGCACCCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAAACAGGTTC
TGAGTTCTTACGTGTACAACGATGAGGATGACGTCTTTGCCGGGAGCCATTTGTGGCCAGTTCTCTTTGCCCA
GCAATGTCCTTCCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAGAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGGGGCCAGCACCCACTGCACCTATGCCCGCGTCTGCTGCTGCACGGGGAGCGCT
GCCGGAGTCTGTGCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCGAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCCTCAGCTGTGCCCTGCTGCCCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCTTTTGGGACTTAAACCCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTGTTGATTGGCTCTTGTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTTGGGGTAGGGGAAGGGAGGGTTAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAAAAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAAACACCGGGAAACATTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAAATCTGCACCAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTGAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGTTTGAACCATCACCCCAAGGTAAAAAATAAAAGGTATTCACAGGTATGTTTGCCAA
AATAAAATAAAGGTAATTAAAAACCT

4956/5332
FIGURE 4304

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCGCATGGGCGCGCCCGCCCGCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCCT
CTGAAGCCCTGGAGGCTGCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTTCATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCCTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGGCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAATTCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTTGACGGGGAAGGAACCTTCTCTGGGAACCTTTGGGTCAATTGCCCTTTCCTTCCAG
AACAGGTTGACAACTCAGCCCTGCTCATGAGGCAGCAAACCTGCAAAGGGCTGGGACTGGTGGCCTTATGTGAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTTCTCACCCATCTGGTTTGGCCATTCTCTCTGGTGGGAATCATCCAGGTAAGTGTGAGGTCACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTTCACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTTGTAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCTGGGGATCTTAGATGTCTGACCTGAACATATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGGCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCTTCTAGCGTCCCAGC
CAGIGTTTTTCTGACCTCTCTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCTGACAGCCCTTTCCGGGACACCTGGGTTTACACAGCTTTTGTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACCTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTA
CAGCACCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTACCGGATTATAAT
GAGCCAAAATGTTTCCCGGTGTTTGTGTTTTCAGGGAAGGAGTTTGATATAGCAGATTAAACCACCTCCTTGTA
GCTATTGGGGCTTAATGGTTTCTGGTGATTCTTACCAATCCACAATAAACATGGCCCATTTGGCATATCTGC

4957/5332
FIGURE 4305

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGCGGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCTCCTCCACCTCTTTTATGTCTCTCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCTGGTCTTTGTGATCGTCTCTTCTTCAATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGCTTGGGGGGCGCTGGGCCTAGCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCACCAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTGTCAATTTTGTGACATGC
ATTCTCCTTTTGTATCTTGTGGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTGTGGACACAC
AATAAAGCCCCGTTTATTTGT

4958/5332
FIGURE 4306A

GCGATCCGGGCGCCACCCCGGGTCATCGGTCACCGGTCGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCTCCCGCGCGCCTAGGTGCCTGCGACTTTAATTAAAGGGCCGTCCTCGCCGAGGCTGCAGCACCGCCC
CCCCGGCTTCTCGCGCTCAAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGAGCGCGGCTCCGGG
CGGCGGCGTCGACACGCGGGACGCCGAGATGCCGGCCACCAGAAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTACGCGCTGGTGCAACGAGCACCTGAAGTGGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCTGGACCGCGAGAG
CATCAAACCTGGTGTCCATCGACAGCAAGGCCATCGTGGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCAATGCCCATGTGGGACGAGGAGGAGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGACGCTGCCCATCACCAACTTCAGCCGGGACTGGCA
GAGCGGCCGGGCGCTGGGCGCCCTGGTGGACAGCTGTGCCCGGGGCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCAGCAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTATGACCTACCTGTCCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGCGGGCCAACTGAACCCGAAGAAAGCCCGTGCTACGGGCGAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCCGGACACCAGGAGGAGGCAAAAGTGACCGCCAATAACGACAAGAACCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCCTTCGAGGTGTACGTGGATAAGTACAGGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTGAGGT
TGTGATCCAGGACCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCACCATGGAGGGCGTCCACACCGTGACGTACGTTTGCCGGCGTGCCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAACCCGAGTGCTGCCGGGCGGTGGCCGGGGCCTCCAGCCCA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAGGGCGCTGGCAGTGGGGAGTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGCTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCAGCTAGGGGTGGTCAAGACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTTACGTGCTGTGCAACAGCGAAGACATCCGCTCAGCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTTGGGAGGCGTCAGCATCCCCAACAGCCCTTCAGGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGTCAAAGTATACGGCCCCGGAGTAGCCAAGACAGGGCTCAAGGCCACGAGCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGGACGTACGATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTCACGGTCAAGTACAGCCCCGGGGGGC
TGGCAGCTACACCATTATGGTCTCTTTGCTGACCAGGCCACGCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTCACCAGGGGGA
TGCAGTGGGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGTGCTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCTGGGGGCTGACAACAGTGTGGTGCCTTCTGCCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCCTGGCAGCCCTTTCTCTGGAAGCTGTGGCCCCCACCAGCCTAG
CAAGGTGAAGGCGTTTGGGCGGGGGCTGCAGGGAGGAGTGGCGGCTCCCCCGCCGCTTCACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCTGACGGTGGAGGGCCCCCTGTGAGGCGCAGCTCGAGTGCTTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCAGCCCCGGGGACTACAACATCAACATCCTCTTCGTGACAC

4959/5332
FIGURE 4306B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCGGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCCTACACCGTCACCATCAAGTACGGCGGGCAGCCCGTGCCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAAGTGTGGACCCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTTCAGGACCGTGCGCATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCGTGCCCCAGCAG
CCCCCTCCAGGTGCGCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCGTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCACTGTGGAGACCAGGGGAGCTGGCACGGGCGGGCCTGGGCCCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCTGCATGGATAACAAGGACGGCAGCTGCTCGGTTCGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCCCTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGTCTTGGGCCGGCCTGAGCCCAGGCATGGTTCGTGCCAACCTCCC
TCAGTCCCTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCATTGCAGGTCAAAGTGCAAGGGCCCAAGGCCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGAGCCCCCTTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGGAGGGCCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCCTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTGACGAGATCCCCCTTCCCGGTACCGCGTGCCTGCCGTGCCACCGGGACGCCAG
CAAGTGCCTGTACAGGTGCTGGCATCGGCCCCACCATTCAAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAGTGACGTGACCGTGTGCACGCCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAAAATACGTATCTGTGTGCGCTT
TGGTGGCGAGCACGTGCCCCAACACCCCTTCCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCC
TCTACGGTCTCAGCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTTCATCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCCACCATCACTGACAACAAGACGG
CACCCTGACCGTGCGGTATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGCACTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCGTCAACACCAAGGATGCAGGAGAGGGGGGCGCTGTCTCTGGC
CATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACCAGGATGGGACATGCAGCGTGTCTTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCAGGCAGCCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCCACCTAAAGTTCGGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGCTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTCAATTCGTGCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGAATTGGGGATGCCAGTCGTGTTTCG
GGTCTCTGGTCAGGGCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGCCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATACCCGCGAGGCGTCCGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACACAGTCAGCGTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTTACCGTGGGGCCCCCTAGGGGAAGGGGGAGCCCAAGGTCCGAGCTGGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTTCAGTATCTGGACCCGGGAAGCTGGTGTGGAGGCTGGCCATTGCTGTGCGA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGAAGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCGCCGACAGCCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCGCCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACCAGCCAGC

4960/5332
FIGURE 4306C

CTCTTTTGCAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTACAGGGAACCCAGCTGAGTTTCGT
CGTGAAACACGAGCAATGCGGGAGCTGGTGCCCTGTCGGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATAACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGCCCTTACCACATTGGGGGCAGCCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTTCATGGCCCAAGGACCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCCAGGCAGCCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCCTCAACCCCGGCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCTGCCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACTTGGGCAGAGGGAGCCATTTGGTGGCGCTGCTTGTCTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGGTCTGTACACAACCAACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATTC

4961/5332
FIGURE 4307A

4962/5332
FIGURE 4307B

GGGATCCCATCTTTTTAACCTCTGTTTCAGGAAGTCCTTATCTAGCTGCATATCTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTCTTATATCTAAATCTGTCCAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAAGTGTCAAGTGTGT
GTTGTCTTGTGTAATTTTCAGTTATTGTCCCTGGCTTCCTTACTATGGTGTAAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTGCCCCGTTCTGTTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCTTATGCTGTAAAAGCAAGTCCTGCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTCAGAAGAGAGGGTGAGTCCCTCCAGAAGTCTTCCCTCCAAGGACAGAAGGCTCCTGCCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAAGTTGGGTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGCTGCTTCCCCGTCACCTGGGCGTCATCTGGTCTGGTAAGAGGAGTGGCTGGCCCCACCAGGCCCCCC
TGTCACCCATGACAGTTCAATCAGGGCCGATGGGGCAGTCTGGTGGGAACACAGCATTTCAAGCGTCACTTTA
TTTCATTGCGGGCCCCACCTGCAGCTCCCTCAAAGAGGCAGTTGCCAGCCCTCTTTCCCTTCCAGTTTATTCCAGA
GCTGCCAGTGGGGCCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCCCCTTTCTTCTCATTCCCTCGTCTTTCC
CAAAGGCATCACGAGTCAGTCGCCCTTTCAGCAGGCAGCCTTGGCGGTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCCGTCCTTGGGGTCAGGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCAGTTTGGGGTGTGACCTCAATTTCAATTTTGTCTGTACTTGAACATTATGAAGATG
GGGGCCTCTTTTCAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCCACCCTTGTTCCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGCTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTGTGCATAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAAGCCACATCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCGGGTGCAGACAATCTTCTG
TTGGGTGGCATCATTCAGGCCGAAGCATGAACATGACAGTATGGCGAAGAGGTAATAACAGACACAAACTGCCAAGTTG
TTCTCTGCCAGCTTTTTCATTGCTGTGACAGTATGGCGAAGAGGTAATAACAGACACAAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCCCTGCGCGGGACCATCTGGAATTGGTTTAGCCCAAGTGGAGCCTGACA
GCCAGAATCTGTGTCCCCGCTCTAACACAGCTCCTTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTTCAGCTGTGTATTGCC
CCAAATGGATTCTGTGTTCAAGTTACACCTGCAGATTCTAGGACCTGTGTCTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTCTTACCATGGAGTGGGTCTGGAGGACCTGCCGGTGGGGGGGCAGAGCCCTGCTCCCTCCGGGTC
TTCTACTCTTCTCTCTGCTCTGACGGGATTGTTGATTCTCTCCATTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAATCGTTAGGATACTGCCTCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTGGCA
GAAAATTACATTTTCATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTACCAGTGACCTGGAAGGCCAGCACCACCCTCCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCCAGCGCTGACGTGTGAGGAAAACACCCAGGGAAGTAGGAAGGCAC
TTCTGCCTGAGGGGCAGCCTGCCTGCCCCACTCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCCTCCCCAAGGCCCTGCTGCCCCGTGTCAGGAGGCAGAAAGGAGGAGGTGTGAGGGCAGTGCAAG
GAGGGAGCACAACCCCGAGTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCAGACCCTGGAGGAAATC
CTACCTTTGAATTCAAGAACATTTGGGGAATTTGGAAATCTCTTTGCCCCCAAACCCCAATTCTGTCTACCTTT
AATCAGGTCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTGGCTCCTGCCCACTGATAGCC
CCTCTCCCCGAGTGTTTTGTGTGTCAAGTGGCAAAGCTGTCTTCTGGTGACCCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTTGTCTCCTCTATCCTGGGCTTTTGTGTTGCTTTTTAGTTTTGCTTTTAGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTTATATATATATCTGTATATTG
CACAATTATAAACTCATTTTGTCTGTGGCTCCACACACACAAAAAAGACCTGTTAAATTATACCTGTTGCTTA

ATTACAATATTTCTGATAACCATAGCATAGGACAAGGGAAAAATAAAAAAGAAAAAAGAAAAAAGAAAAAAGCAAA
ATCTGTCTGCTGGTCACCTTCTTCTGTCCAAGCAGATTTCGTGGTCTTTTTCTCGCTTCTTTCAAGGGCTTTCTGT
GCCAGTGTGAAGGAGGCTCCAGGCAGCACCCAGGTTTTGCACTCTTGTTTTCTCCCGTGCTTGTGAAAAGAGGTCCCA
AGGTTCGGGTGCAGGAGCGCTCCCTTGACCTGCTGAAGTCCGGAACGTAGTCGGCACAGCCTGGTCGCTTCCA
CCTCTGGGAGCTGGAGTCCACTGGGGTGGCCTGACTCCCCCAGTCCCCTTCCCGTGACCTGGTCAGGGTGAGCCC
ATGTGGAGTCAGCCTCGCAGGCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCCTCTGTGAGCCT
GGGGGTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCAGGTAGAACGCCAGGGACC
CCAGAATCATGTGCGTCAGTCCAAGGGGTCCCCTCCAGGAGTAGTGAAGACTCCAGAAATGTCCCTTCTTCTCC
CCCATCCTACGAGTAATTGCATTTGCTTTTGTAATTCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACA
GTTCTTTTTGATCATCTTTTTTTAATAATTAGAAAACACCAAAAAAATCCAGAACTTGTTCTTCCAAAGCAGAGA
GCATTATAATCACCAGGGCCAAAAGCTTCCCTCCCTGCTGTCAATTGCTTCTTCTGAGGCCTGAATCCAAAAGAAA
AACAGCCATAGGCCCTTTTCAGTGGCCGGGCTACCCGTGAGCCCTTCGGAGGACCAGGGCTGGGGCAGCCTCTGGG
CCCACATCCGGGGCCAGCTCCGGCGTGTGTTTCAGTGTTAGCAGTGGGTTCATGATGCTCTTTCCACCCAGCCTGG
GATAGGGGCAGAGGAGGCGAGGAGGCCGTTGCCGCTGATGTTTGGCCGTGAACAGGTGGGTGTCTGCGTGCGTCC
ACGTGCGTGTCTTCTGACTGACATGAAATCGACGCCCGAGTTAGCCTCACCCGGTGACCTCTAGCCCTGCCGGA
TGGAGCGGGGCCACCCGGTTTCAGTGTCTTCTGGGGAGCTGGACAGTGGAGTGCAAAAGGCTTGACAGAACTGAAG
CCTGCTCCTTCCCTTGCTACCACGGCCTCCTTTCCGTTTGATTGTCTACTGCTTCAATCAATAACAGCCGCTCCA
GAGTCAGTAGTCAATGAATATATGACCAAAATATCACCAGGACTGTTACTCAATGTGTGCCGAGCCCTTGCCCATG
CTGGGCTCCCCTGTATCTGGACACTGTAACGTGTGCTGTGTTTGTCTCCCCTTCCCCTTCTTCTTGCCCTTTAC
TTGCTCTTCTGGGTTTCTTCTGTTTGGGTTTGGTTTGGTTTTATTCTCTCTTTTGTGTTTCAAACATGAGGTTT
TCTCTACTGTTCTCTTAACTGTGGTGTGAGGCTTATATTGTGTAATTTTGGTGGGTGAAAGGAATTTTGCT
AAGTAAATCTCTTCTGTGTTTGAAGTGAAGTCTGTATTGTAACATATGTTTAAAGTAATTGTTCCAGAGACAAATA
TTTCTAGACACTTTTTCTTTACAAACAAAAGCATTTCGGAGGGAGGGGGATGGTGACTGAGATGAGAGGGGAGAGC
TGAACAGATGACCCCTGCCCAGATCAGCCAGAAGCCACCCAAAGCAGTGGAGCCCAGGAGTCCCCTCCAAGCCA
GCAAGCCGAATAGCTGATGTGTTGCCACTTTCCAAGTCACTGCAAAACCAGGTTTTGTTCCGCCCAGTGGATTCT
TGTTTTGCTTCCCCCCCCGAGATTATTACCACCATCCCGTGTCTTTAAGGAAAGGCAAGATTGATGTTTCCT
TGAGGGGAGCCAGGAGGGGATGTGTGTGTGCAGAGCTGAAGAGCTGGGGAGAATGGGGCTGGGGCCACCCAAGCA
GGAGGCTGGGACGCTCTGCTGTGGGCACAGGTGAGGCTAATGTTGGCAGATGCAGCTCTTCCCTGGACAGGCCAGG
TGGTGGGCATTCTCTCTCAAGGTGTGCCCCGTGGGCATTACTGTTTAAAGACACTTCCGTACATCCCACCCCAT
CCTCCAGGGCTCAACACTGTGACATCTCTATTCCCCACCCCTCCCCTTCCAGGGCAATAAAATGACCATGGAGGG
GGCTTGCCTCTCTTGGCTGTACCCCGATCGCCAGCAAACTTAGATGTGAGAAAACCCCTTCCCATTCCATGGC
GAAAACATCTCCTTAGAAAAGCCATTACCCTCATTAGGCATGGTTTTGGGCTCCCAAAACACCTGACAGCCCCCT
CCTCCTCTGAGAGGCGGAGAGTGCTGACTGTAGTGACCATTGCATGCCGGGTGCAGCATCTGGAAGAGCTAGGCA
GGGTGTCTGCCCCCTCCTGAGTTGAAGTCATGCTCCCCTGTGCCAGCCAGAGGCCGAGAGCTATGGACAGCATT
GCCAGTAACACAGGCCACCTGTGCAGAAGGGAGCTGGCTCCAGCTGGAACCTGTCTGAGGTTGGGAGAGGTG
CACTTGGGGCACAGGGAGAGGCCGGGACACACTTAGCTGGAGATGTCTCTAAAGCCCTGTATCGTATTACCTT
CAGTTTTTGTGTTTTGGGACAACTTCTTAGAAAATAAGTAGGTCGTTTTTAAAAACAAAAATTATTGATTGCTTT
TTTGTAGTTGTTAGAAAAAAGTTACTTTGTGTATAGCCAAATGACTGAAAGCACTGATATATTAAAAACAAAAG
GCAATTTATTATAGGAAATTTGTACCAATTTAGTAAACCTGTCTGAATGTACCTGTATACGTTTCAAAAACACCC
CCCCCACTGAATCCCTGTAACCTATTTATTATATAAAGAGTTTGCCTTATAAATTT

4964/5332
FIGURE 4308

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCGGCGGGCC
AGCCATGCGCCGGGGGGCCGGGGCCGGGGGAGCCCGAGCCCCGGCGCCAGCACTTCTTGACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCCGCGACTGGTGCCAGTTCGCCGCCCTGAT
CGTGCGCGACACAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTAGGGCCTGAGCTCGGCTGGTCCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTCCTGCAGGGAGCCCGCCCCCTTTCCGTTTTG
CTGGCCCCCTGTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTCAACCAACAATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTTCAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTTACGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCCGACACAGACAGTGGCGGGCACCTGGCCTACCTGCCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCCTGCACCGCCCGGGCCAAAAGGAGGCCCTCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGGCATTTCGGAGGCCGCCAGCTGCATCCCCCTTCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGCCACGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACAGCCCGTGGAGAGTACGAGAGCCTAGGCGGCCCTCTCTGCGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGGCCGGCTGTCTCAGGGGGA
CACCTGAGGAGAATCGAGCTGGGGAGTGGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCTGTCAGAGCCACCGCAGATTATCATCAACCCTGCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGATGGGGCCCTGGACAGCCTGCAGCTGCTGCTGCTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTTCAGAGCTGATGTGTTTACCTGGGCAGATCCCCCAAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGCGAGTGGGGGTGGGGG
CCCATGCCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTGAGGCTGCAGTGAATCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTTCACTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTCAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCAGGCAGTATTGTGGCAGAGGGGCCACTACCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAACATTTTCAGGGAAGACAT
GTATCACATGTCTCAGAAGCAAGTCAGGTTTATGTAACCGAGTGTCTCTTGGCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTTCAAGCCGTGAGTACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGTAGTAATAAAAACGTATGTT

4965/5332
FIGURE 4309

GAATTTCCCCCAGCGAGGCGAGTGAGGCGAAATACCCGTATGGTGATAGCTGGCCTTTTCGCGCCAATACTGAAA
AAGGCAGAACGTTCCCTCCGCTGGCGCCAGCCAATCAGCAGGACTCCTGCCTTCCTTCGGGGCAAGGTCGCAGCAT
CTGCCTCGGAAATCACGAAATCACGGGGCTTCTTTCTGCTGGCTCAGCCGGGAGGCCCAGAGTGTTCTGCAGAGG
CTGCGTATTGAAGGCTGCTCTCTGAAGCTCCCTGCCCCAGGTCACGCCGCCGGTTCCAGATGAATCCAGAGTGGG
GGCAGGCCTTCGTGCACGTGGCCGTGGCCGGTGGCCTCTGTGCCGTGGCTGTGTTACAGGGCATTTCGACAGTG
TTTCCGTGCAAGTGGGCTATGAGCACTACGCCGAGGCGCCCGTGGCCGGCCTCCCTGCCTTCCTGGCCATGCCGT
TCAACTCACTCGTGAACATGGCCTACACGCTGCTGGGGCTGTCTGCGTGGCTGCACAGGGGCGGCGCGATGGGGCTGG
GTCCCCGCTACCTGAAGGACGTGTTTCGCAGCCATGGCCCTGCTCTATGGCCCCGTGCAGTGGCTGCGCCTGTGGA
CGCAGTGGCGCCGTGCCGCGGTGCTGGACCAGTGGCTCACACTGCCCATCTTTGCATGGCCCGTGGCCTGGTGCC
TCTACCTAGACCGCGGTGGCGGCCCTGGCTGTTCTCTCTCTTGAGTGGCTCTCCCTGGCCAGTTATGGCCTCG
CTCTGCTGCATCCCCAGGGCTTCGAGGTCGCACTGGGTGCTCACGTGGTGGCCGCTGTGGGGCAGGCGCTGCGCA
CCCACAGGCACTATGGCAGCACCACCTCGGCTACCTACTTAGCTTTGGGGGTGCTCTCTTGCCCTGGGCTTTGTGG
TCCTCAAGCTGTGTGACCATCAGCTCGCACGGTGGCGTCTCTTCCAGTGCCCTCACAGGCCACTTCTGGTCCAAGG
TCTGTGACGTGCTCCAGTTCCACTTTGCGTTTTTGTCTTGACGCATTTC AACACTCACCCAAGATTCCATCCCT
CTGGCGGGAAGACGCGTTGAACCCAGGGAAGAACCTGCTGAAAACCGATGACCCCCAGCATTGAAATGGACTCTG
AGATGGCAGCGTGGTGCCAGTGTGAGACATCCTGTGTGTGATGATATGCACTGATCACACAAGACTGCCCTTCC
TGAGAAGCTGCGGGCTTCGGTGTGGAGGGGTGGAGTGCTGTGATCTCGACAACCTACTTTCAAAGACATAAAGCA
CAGATCTCCGCACAGGGGATGTGTGTTCCTGATGTAATTTGCATAACTTTTCTGTAGTTTGAAATGTTTCCAA
ATAAATATTGGCAAGGGGAGTGGAATGACACCAAGAAGCCCCCTCATGCTCATGGTTGGAC

4966/5332
FIGURE 4310A

AGGGAGGAGGCATGAGCGCCCTGCCGTTACCGCTTCTTCTGCCGTACAGTTGCCGCTTCGGGGCCTAACTCTAGC
TCTTTGAAGCGGCTCCTGTGGGAAGGAGTCATAAGGCGGGAAGTGAGGATCGGACACCGCCTTGAGTTGGTGTG
CAGTGGAAGAACTGACCTAGGAGGAAGAGAATAGGGGGGAACGGGGAGCTAGTCTCAAGATGGCGGCTCCACGG
CGGCAGGCGCAGCCTGAGCAGCAGAGGCGGACTAAGGGGAGAGGCGGAGACTTCACAAGCCGTACGGCGCGAGC
CCCCAAACGGCCCTCGAGAGCTCGAGCTGGTTCCACCGGCTCCGGCCCCGCTCCATTCTGTTAGGTGTGTGAGG
CTGTTTCGGGAGCGGCGGCTGCACTAAGGCGCTGGGCGGGGAAGCGGGACGGTCTCAAGATGGCGGCTCCACAA
TTGTGGTCTGAGCGCCGCGGGGCTGCGACGACCGCGGCGCTTGTGGCTCCTTTCCACCCGCCCCGGAAGCCGGC
CAGTGCTGGGACTTGGGGGTGTGGGAACCGGGCCGGGGCTCCGCCATTTCCGGCGGGGGAGGGCTACGACTGAG
GAAGGGAGGAGAGAGAGGCGGCTCAAGATGGCGGCTCCAGGGCTCCCGCCCCGAGCTTGTAAGCGGGAGCGCCC
GGACAAGTAGTCGGGGCGACGGGACTCAGCGGCTCCAGCTTCTTGAGCCTAGGCGCTCGACAGTTTCGGGCGGC
TCTTGCGGAGACGGGGTGAGCGAGAAGAAAGGGAAGAGCCAAAGGGAAGGAGGGCAGTTAAGATGGCGGCTCCA
TGGAGTCGTCTACCGCTGTGTGAGAAACCGCTTCTCCGTGAGAGCTGCCTTAGACGAAAGGGGGTGTGTGAAAGG
AATTGAGGGGCTCCCTTCCCGCTTGTTGACTTCTCCCCACCGCACCTTTCCCGGAACTATGGCTTCGGCCGTGT
CGCCCCGCAACTTGCCAGCGGTGCTTCTGCAGCCCCGCTGGAAGCGAGTGGTGGGCTGGTTCGGGTCCGGTGCCAC
GGCCCCGCCACGGCCACCGCGCCGTGGCCATCAAGGAGCTCATCGTGGTGTGTTGGCGGCGGCAACGAGGGAATAG
TGGACGAAGTGCACGTGTACAACACGGCAACCAACAGTGTTTCATCCCAGCCGTGAGGGGGGACATTCCCCCTG
GGTGTGCAGCCTATGGCTTCGTGTGTGACGGGACTCGCCTCCTGGTGTGTTGGTGGGATGGTGGAGTATGGGAAAT
ACAGCAATGACCTCTACGAACTCCAGGCGAGCCGGTGGGAGTGGAAGAGACTCAAAGCAAAGACGCCCCAAAACG
GGCCCCCTCCGTGTCTCGACTCGGGCACAGCTTCTCCCTTGTTGGGCAACAAATGCTACCTGTTTGGGGGTCTGG
CCAATGATAGCGAGGACCCAAAGAACAACATTCCAAGGTACCTGAATGACTTATATATCCTGGAATTACGGCCAG
GCTCTGGAGTGGTAGCCTGGGACATTCCCATCACTTACGGGGTCTACCACCACCCCGGGAGTCACATACTGCCG
TGGTCTACACCGAAAAAGACAATAAGAAGTCCAAGCTGGTGATCTACGGCGGGATGAGTGGCTGCAGGCTGGGGG
ACCTGTGGACCTAGATATTGACACCTGACGTGGAATAAGCCAGTCTCAGCGGGGTGGCGCCTCTCTCTCGCA
GTCTCCACTCGGCAACCACCATCGGAAATAAAATGTACGTGTTGGTGGCTGGGTGCCTCTCGTCATGGATGACG
TCAAAGTGGCCACACAGAGAAGGAGTGGAAGTGTAACACACGCTGGCTTGTCTCAACCTGGATACCATGGCCT
GGGAGACCATCTGATGGATACACTGGAGGACAACATCCCCGTGCTCGGGCTGGCCACTGCGCAGTCGCCATCA
ACACCCGCTGTACATTGGAGTGGGCGTGACGGCTACCGBAAGGCCCTGGAACAACCAGGTCTGCTGCAAGGACC
TCTGTTACCTAGAGACAGAAAAGCCACCACCCCGAGCTACAACTGGTACGCGCCAACACCAACTCCCTGG
AGGTGAGCTGGGGGCGAGTGGAACAGCCGACGCTACCTTCTCCAGTCCAGAAATATGACATTCTGCCCAGG
CTGCTACTGCCACCTCCCTACACCCAATCCGGTCCCATCTGTGCCTGCCAACCCCTCCCAAGAGCGTCCCCAG
CAGCAGCCGCACCTGCTGTGACGCGCTGACCCAAGTAGGCATCACGCTCCTGCCCGAGGCTGCCCGCGACCCC
CGACCACCACCACCATCCAGGTCTTGCCAACGGTGCCTGGCAGCTCCATTTCTGTGCCACCCGACGACGAGGACT
AAGGTGTCCCTGCTGTCTCAAAGTGACCGGTCTCAGGCTACAACAGGAACTCCATTGGTACCATGCGACCTG
CCAGCCAGGCTGGGAAAGCCCCCTGTACCGTGACCTCCCTTCCCGCCGGAGTGCGGATGGTTGTGCCAACACAGA
GTGCCAGGGAACGGTGATTGGCAGTAGCCACAGATGAGTGGGATGGCCGCACTGGCCGCTGCGGCCGCTGCCA
CCCAGAAGATCCCCCTTCTCGGCACCCACGGTGTGAGTGTCCAGCGGGTACCACCATCGTGAAGACCATGG
CTGTGACACCTGGCACTACCACCTCCAGCCACTGTGAAGGTGGCCTCCTCGCCAGTCATGGTGAGCAACCCTG
CCACTCGCATGCTGAAGACTGCAGCCGCCAGGTGGGGACATCGGTTTCTCGCCACCAACACGTCTACCCGCC
CTATCATCACAGTGCACAAGTCAGGCACTGTGACAGTGGCCAGCAAGCCAGGTGGTGACCACAGTTGTGGGCG
GGGTACCAAGACCATCACCTGGTGAAGAGCCCCATCTCTGTCCAGGAGGCAGTGCTCTGATTTCCAATCTGG
GCAAAGTGATGTGGTGGTCCAGACCAAAACAGTTTCACTTACAGAGTCACAGGCCAGGCGTCCACGGGTCTG
TGACTCAGATCATCCAGACCAAGGGCCCCCTGCCAGCGGGAACAATCCTGAAGCTGGTGACCTCAGCAGATGGCA
AGCCCACCACCATCATCACTACCACGCGAGGCCAGTGGGGCGGGGACCAAGCCCACCATCCTGGGCATCAGCAGC
TCTCCCCAGTACCACCAAGCCCCGCGACGACCACCATCATCAAACCATCCCCATGTGCGCCATCATACCCAGG
CGGGCGCCACGGGTGTGACCAGCAGTCTGGCATCAAGTCCCCCATCACCATCATCACCACCAAGGTGATGACTT
CAGGAAGTGGAGACCTGCGAAAATCATCACTGCTGTCCCCAAATTGCCACTGGCCACGGGCAGCAGGGAGTGA
CCCAGGTGGTGTCTAAGGGGGCCCCGGGACAGCCAGGACCATCTCCGCACTGTGCCATGGGGGGTGTTCGCC
TGGTCACACCCGTACCGTCTCCGCCGTCAAGCCAGCCGTACACAGTGGTTGTGAAAGGCACCACAGGTGTCA

4967/5332
FIGURE 4310B

CGACCCTAGGCACAGTGACAGGCACCGTCTCCACCAGCCTTGCCGGGGCGGGGGGCCACAGCACTAGTGCTTCCC
TGGCCACGCCCATCACCACCTTGGGCACCATTTGCCACCCTCTCAAGCCAGGTGATCAACCCCACTGCCATCACTG
TGTCGGCCGCACAGACCACGCTGACAGCGGCAGGCGGGCTCACAACCCCAACCATCACCATGCAGCCCGTGTCCC
AGCCCAACCCAGGTAACCTCTGATCACGGCACCTAGTGGGGTGGAGGCCAGCCTGTGCATGACCTCCCTGTGTCCA
TTCTGGCCTCCCCGACTACAGAACAGCCACCGCCACAGTTACCATCGCCGACTCAGGCCAGGGTGATGTGCAGC
CTGGCACTGTACCTTGGTGTGTCTCAACCCACCCTGTGAGACCCACGAGACTGGCACCACCAACACGGCCACCA
CTACTGTTGTGGCTAACCTTGGGGGACACCCCAAGCCACCAAGTGCAGTTCGTCTGTGACAGACAGGAGGCAG
CTGCTTCTCTTGTGACCTCGACTGTGGGCCAGCAGAATGGTAGCGTGGTCCGAGTCTGTTTGAACCCGCCCTGCG
AGACCCACGAGACGGGCACCACCAACACCGCCACCACCGCCACCTCCAACATGGCCGGGCAGCATGGCTGCTCAA
ACCCACCCTGCGAGACCCACGAGACGGGCACCACCAACACTGCCACTACAGCCATGTGAGCGTGGCGGCCAACCC
ACCAGCGAGATGCCCCTGCGGCCCTGTGCAGCTGGCACCCTGCCGTGATCCGGATCAGTGTGGCCACTGGGGCGC
TGGAGGCAGCCAGGGCTCTAAGTCCAGTGCCAAACCCGCCAGACCAGCGGACCAGCACCACCATGACTGTGA
TGGCCACCGGGGCCCCGTGCTCGGCCGGCCCACTCTTGGGCCGAGCATGGCACGGGAGCCCGGGGGCCGACGCC
CTGCTTTTGTGACGTTGGCCCCCTTGAGCAGCAAAGTCAGGCTGAGCAGCCCAAGCATTAAAGACCTTCTGCGG
GGCGCCACAGCCATGCGGTGACACCGCTGCCATGACCCGTTCCAGCGTGGGTGCTGGGGAGCCCCGATGGCAC
CTGTGTGCGAGAGCCTCCAGGGTGGCTCGCCAGCACCACAGTGACTGTGACAGCCCTGGAGGCACTGCTGTGCC
CCTCGGCCACCGTGACCCAAGTCTGCTCCAACCCACCATGTGAGACCCACGAGACAGGCACCACCAACACCGCCA
CTACCTCGAATGCAGGCAGCGCCAGAGGGTGTGCTCCAACCCGCCATGCGAGACCCACGAGACGGGCACCACCC
ACACGGCCACCACCGCTACTTCAAACGGGGGCACGGGCCAGCCCGAGGGTGGGCAGCAGCCCCCTGCTGGTGC
CCTGTGAGACACACCAGACCACTTCCACTGGCACCACCATGTGCGTCAGCGTGGGTGCCCTGCTTCCCGACGCCA
CTTCTTCCACAGGACCGTGGAGTCTGGCCTAGAGGTGGCGGCGGCCACCCAGCGTCACCCCCCAGGCTGGCACCG
CGCTGCTGGCTCCTTTCCCAACACAGAGGGTGTGCTCCAACCCCCCTGTGAGACCCACGAGACGGGCACCACCTC
ACACGGCCACCACCTGTCACTTCCAACATGAGTTCAAACCAAGACCCCCACCTGCTGCCAGCGATCAGGGAGAGG
TGGAGAGCACCCAGGGCGACAGCGTGAACATCACCAGCTCCAGTGCCATCACGACAACCGTGTCTCCACACTGA
CGCGGGCTGTGACCACCGTGACGAGTCCACACCGGTCCCGGGGCCCTCTGTGCCGCCCCCAGAGGAACTCCAGG
TGTCGCCAGGTCTCGCCAGCAGCTGCCGCCACGGCAGCTTCTGAGTCGGCTTCCACAGCCCTGATGGGGGAGT
CCGCGGAGGTCTGTGAGCTCCAGACCCCTGAGCTCCCGCCGCGCCGTGGATCTGAGCAGCACAGGGGAGCCAT
CTTCGGGGCAGGAGTCTGCCGGCTCTGCGGTGGTGGCCACTGTGGTGGTCCAGCCACCCCAACACAGCTCCG
AAGTAGACCAGTTATCACTTCCCCAAGAGCTAATGGCCGAGGCCAAGCTGGCACCAACACCCCTCATGTTAACGG
GGCTCACCCCCGAGGAGCTGGCAGTGACGGCTGCTGCAGAAGCAGCTGCCAGGCCGAGCCACGGAGGAAGCCC
AGGCCCTGGCCATCCAGGCGGTGCTCCAGGCCGCGCAGCAGGCCGTCTATGGGCACCGGCGAGCCCATGGACACCT
CCGAGGCAGCAGCAACCGTGACTCAGGCGGAGCTGGGGCACCTGTGCGCCGAGGGTCAAGAGGGCCAGGCCACCA
CCATACCCATTGTGCTGACACAGCAGGAGCTGGCTGCCCTGGTGCAGCAGCAGCAGCTGCAGGAGGCCAGGCC
AGCAGCAGCATCACCACCTCCCCACTGAGGCCCTGGCCCCTGCCGACAGTCTCAACGACCCAGCCATTGAGAGCA
ATTGCCTCAATGAGCTGGCCGGCACGGTCCCCAGCACTGTGGCGTGTGCCCCCAACGGCCACTGAGAGCCTGG
CTCCATCCAACACATTTGTGGCCCCCAGCCGGTTGTGGTGGCCAGCCAGCCAAGCTGCAGGCTGCAGCTACCC
TGACCGAAGTGGCCAATGGCATCGAGTCCCTGGGTGTGAAGCCAGACCTGCCGCCCCACCCAGCAAAGCCCCCA
TGAAGAAGGAAAACAGTGGTTTGATGTGGGAGTCATTAAGGGCACCAATGTAATGGTGACACACTATTTCTGCTGC
CACCAGATGATGCTGTCCCACAGACGATGATTTGGGCACCGTCCCTGACTATAACCAGCTGAAGAAGCAGGAGC
TGCAGCCAGGCACAGCCTATAAGTTTCGTGTTGCCGGAATCAATGCCTGTGGCCGGGGGCCCTTCAGCGAAATCT
CAGCCTTTAAGACGTGCCTGCCTGGTTTCCAGGGGGCCCTTGTGCCATTAAAATCAGCAAAGTCCGGATGGTG
CTCACCTCACCTGGGAGCCACCCTCTGTGACCTCCGGCAAGATTATCGAGTACTCCGTGTACCTGGCCATCCAGA
GCTCACAGGCTGGGGGCGAGCTCAAGAGCTCCACCCCGGCCAGCTGGCCTTCATGCGGGTGTACTGCGGGCCCA
GCCCCCTCCTGCCTGGTGCAGTCTCCAGCCTTTCCAACGCCACATCGACTACACCACCAAGCCCGCCATCATCT
TCCGCATCGCCGCCCGCAATGAGAAGGGCTATGGCCCGGCCACACAAGTGAGGTGGCTGCAGGAAACCAGTAAAG
ACAGCTCTGGCACCAAGCCAGCCAACAAGCGGGCCCATGTCTCTCCAGAAATGAAATCTGCTCCAAAGAAATCTA
AGGCCGATGGTCAGTGAAGGAGCTGACTAGCCCTGGATTCTTCTCCAGACCCCCCTGCTTCAGGAACACCCG
CCAGGGCCCCACCCCTCCACCCCGTCCCAGCATTCGCACTTACCCTCGCGAGCCGCTGTTCACTCTCTCCCT

4968/5332
FIGURE 4310C

TTCTCTTTCTCTCTGTTTTTAAAAATAATCTAAAGAAAGCACATTTTACCATTGCTGTTGGGAGGAAGCAGAGGGCA
GATGGGAAAGCAGAGAGAGGAGCGCGCTTCCTTTTCTCCCCGCTGCCGCCACCCTGGGGAGAGACTTTTGC GGG
GAGGGAAGGCGGAGCTGAGGACAGCCAGCTCCGCCCTCCCAAGGCTGTGCGTTCCTGAGGGCCAGGTCGGGGGCA
GGCATGGAGGGGAGGAAAGGCGTCCCTCTTGGCCCTCCCAGAGTGGCTTTCCTGGCACCCCTGGCCTGGGTGTCT
GGTTCTGTTTTCTTTTCTTCCCCTTGTTTCCAGTCACCTAACTTCCCTTCCTCAGGCTCCCCCGGGCCACCCT
GCTCAGTGACCCACAGGAAGCTTACACATTTTCTCAGAGGCCTTTGTGCTCCACCTCTTCTACCCTCCCCCTC
TTCTTTCCATTTTAAAAAAGAAAAGAAGGAAAAAGAAAAAGGGGCAAGGAGCCCCGCGGCGGCCTGGGCAGCG
CCTGTGCAGACCTCCCTGCAGGCCGCACTGCCAACTGCTGCATTTGTTGTGTTTTTTAGGTTGCAATTGGTGAAG
TTCACACTTTCATTGTAATTTTAGCGTGTGGGGTTTTGTCCCTTTTTTGTGTTGTTAGCTGTGTACAGAATGTG
TAATCTTTTTTCTTTTCTCTTTTTTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTTACTTTTTTCTTCTTGGCTA
ATTCTTGGCAGGGATCTTTCCTGGAGGAAAAGCTGGGGCCAGCCAGGGCAGGAGAGGTGTGAAATCTGCCACGAGG
GGCCTGCTGTTTGCCACCCAGCCCAACTTCCTGTTGCTGGCCCTTGCCCTCTGCCCTTTTGCCTGTCTCAGGCC
GCTGGAACAAAGGAAGGACAGCTCATTCTCATGGGCGATCACTCCGCATCTATAGGGTCGAGCCTAGGGGAGCT
TGAGGGAGGGCTGGGGCCTCCTTGTCCTGGATTTCCAGCTCTCCCATGCCCCCTCCCTGAGCACCACCGGCACC
GCCTCCCAAACAGGGCTGCTGGTTTCCGCAGCCACTGCTCCACCTCCCCCAAATCGTCATGGAAAGGGTGGAGAA
TGGAGGGGAACCAGGCGTCCCTTGAGGCAGCTTGGGAGGGTGACTGTGTAGTGTACCCACAAGGGAGGCTAGGG
CAATGGAGCAGGCCACCAGCAGCAGCTGTGCAGCATGGAACCTCAGGCCAGGCTCCGAGGCTGGGGGATCTGCTTG
GAGTTTTCTGCCCCCACCCTAACTTCTGTGAGGAGCAAGGCTTGCCAGCAAGTCAGAAGGATTTGAACCGAG
CAGCCAATCTTTCAGCCCTCCCTTACCGACCTCTGCCTGGAGACGCAGCAGCCTGTGTCTCCAGGGCCTCTGG
TTTGTGTATTATAGTATATTTGCTGTGGAATGTACGTTTAGTCACCTTGGAGCCCACTCACCTGGTCCTG
TTGTTTTACCCATCCCTTCTCTCGCGCGCCTATTGATTTGTTTCTGAGGAGAGTACACCGTTCATATTGTAGA
GTAACCCCTGTGACTCAATATTACCATAGTGCGATGTCGTTTTGTGCTATTTTGAACAATTTAAAGACTTTTTTT
GAAATAA

4969/5332
FIGURE 4311

CGGTCCCAGCCCCGGCCGTCCCGGCGTCGCTTCGGAGCGCGGCGGCAGCTGACTGCGCCTTCACGATCCGCTGGG
ACCCGCGAGCCCCGCGCCGTTATGAACATCCGCAATGCGAGGCCAGAGGACCTAATGAACATGCAGCACTGCAA
CCTCCTCTGCCTGCCCAGAACTACCAGATGAAATACTACTTCTACCATGGCCTTTCCTGGCCCCAGCTCTCTTA
CATTGCTGAGGACGAGAATGGGAAGATTGTGGGGTATGTCCTGGCCAAAATGGAAGAGGACCCAGATGATGTGCC
CCATGGACATATCACCTCATTGGCTGTGAAGCGTTCACCGGCGCCTCGGTCTGGCTCAGAACTGATGGACCA
GGCCTCTCGAGCCATGATAGAGAACTTCAATGCCAAATATGTCTCCCTGCATGTCAGGAAGAGTAACCGGGCCGC
CCTGCACCTCTATTCCAACACCCTCAACTTTCAGATCAGTGAAGTGGAGCCCCAAATACTATGCAGATGGGGAGGA
CGCCTATGCCATGAAGCGGGACCTCACTCAGATGGCCGACGAGCTGAGGCGGCACCTGGAGCTGAAAGAGAAGGG
CAGGCACGTGGTGCTGGGTGCCATCGAGACAAGGTGGAGAGCAAAGGCAATTCACCTCCGAGCTCAGGAGAGGC
CTGTCGCGAGGAGAAGGGCCTGGCTGCCGAGGATAGTGGTGGGGACAGCAAGGACCTCAGCGAGGTGAGCGAGAC
CACAGAGAGCACAGATGTCAAGGACAGCTCAGAGGCCTCCGACTCAGCCTCCTAGAGCCTGCCCCATCCCTCCT
CACCCACGAGCTTTCACAATAAATTCGCTCCGTGGCACTG

4970/5332
FIGURE 4312

CGTGGGAGCAGTGGGGTTTCGACGGCGCGGCCGCGAGGCCGCCATGGCCGCTCACGGGAAGCTGCGGCGGGAGCGG
GGGCTGCAGGCTGAGTATGAGACGCAAGTCAAAGAGATGCGCTGGCAGCTGAGCGAGCAGCTGCGCTGCCTGGAG
CTGCAGGGCGAGCTGCGGCGGGAGTTGCTGCAGGAGCTGGCAGAGTTTCATGCGGCGCCGCGCTGAGGTGGAGCTG
GAATACTCCCGGGGCTGGAAAAGCTGGCCGAGCGCTTCTCCAGCCGTGGAGGCCGCTGGGGAGCAGCCGGGAG
CACCAAAGCTTCCGGAAGGAGCCGTCCCTCCTGTCGCCCTTGCACTGCTGGGCGGTGCTGCTGCAGCACACGCGG
CAGCAGAGCCGGGAGAGCGCGGCCCTGAGTGAGGTGCTGGCCGGGCCCCCTGGCCAGCGCCTGAGTCACATTGCA
GAGGACGTGGGGCGCCTGGTCAAGAAGAGCAGGGATCTGGAGCAGCAGCTGCAGGATGAGTCTCTGGAGGTGGTC
TCAGAGCTCCAGACGGCCAAGAAGACGTACCAGGCATATCACATGGAGAGCGTGAATGCCGAGGCCAAGCTCCGG
GAGGCCGAGCGGCAGGAGGAGAAGCGGGCAGGCCGAGTGTCCCCACCACCACCGCTGGTGCCACTGAGGCAGGG
CCCCTCCGCAAGAGCTCCCTCAAGAAGGGAGGGAGGCTGGTGGAGAAGCGGCAGGCCAAGTTCATGGAGCACAAA
CTCAAGTGCACAAAGGCGCGCAACGAGTACCTGCTTAGCCTGGCTAGTGTCAACGCTGCTGTCACTAACTACTAC
CTGCATGACGTCTTGGACCTCATGGACTGCTGTGACACAGGGTTCCACCTGGCCCTGGGGCAGGTGCTCCGGAGC
TACACGGCCGCTGAGAGCCGCACCCAAGCTCCCAAGTGCAGGGCCTGGGCAGCCTGGAAGAAGCTGTGGAGGCC
CTGGATCCTCCAGGGGACAAAGCCAAGTTCTCGAGGTGCATGCTACCGTCTTCTGTCCCCCGCTGCGCTTTGAC
TACCACCCCATGATGGGGATGAGGTGGCTGAGATCTGCGTTGAAATGGAGCTGCGGGACGAGATTCTGCCCAGA
GCCCAGAACATCCAGAGCCGCTGGACCGACAGACCATTGAGACAGAGGAGGTGAACAAGACTCTGAAGGCGACA
CTGCAGGCCCTGCTGGAGGTGGTGGCCTCGGATGACGGGGATGTGCTTGATTCTTCCAGACCAGCCCCCTCCACC
GAGTCCCTCAAGTCCACCAGCTCAGACCCAGGCAGCCGGCAGGCGGGCCGGAGGCGCGGCCAGCAGCAGGAGACC
GAAACCTTCTACCTCACGAAGCTCCAGGAGTATCTGAGTGGACGGAGCATCCTCGCCAAGCTGCAGGCCAAGCAC
GAGAAGCTGCAGGAGGCCCTTCAGCGAGGTGACAAGGAGGAGCAGGAGGTGTCTTGGACCCAGTACACACAGAGA
AAATTCCAGAAGAGCCGCGCAGCCCCGCCCCAGCTCCCAAGTATAACCAGAGACTCTTTGGGGGAGACATGGAGAAG
TTTATCCAGAGCTCAGGCCAGCCTGTGCCCCCTGGTGGTGGAGAGCTGCATTGCTTCATCAACCTCAATGGCCTG
CAGCATGAAGGCATCTTCCGGGTATCGGGTGGCCAGCTCCGGGTCTCAGAGATCCGTGATGCCTTCGAGAGAGGG
GAGGACCCACTGGTGGAGGGTGCCTGACCTGACCTGGAGTGGTGGCCGGGGTGCTGAAGCTCTACTTCCGG
AGCCTGGAGCCCCACTCTTCCCCCAGACCTGTTCGGCGAGCTGCTGGCTTCTTCGGAGCTGGAGGCCACAGCG
GAGAGGGTGGAGCACGTGAGCCGCTGCTGTGGCGGCTGCCCGCGCGGTGCTGGTGGTTCTGCGCTACCTCTTC
ACCTTCTCAACCACCTGGCCAGTACAGCGATGAGAACATGATGGACCCCTACAACCTGGCCGTGTGCTTCGGG
CCCACGCTGCTACCGGTGCCCGCTGGGCAGGACCCGGTGGCGCTGCAGGGCCGGGTGAACCAGCTGGTGCAGACG
CTCATAGTGCAGCCGATCGGGTCTTCCCGCCCCTGACCTCGCTGCCTGGCCCCGTCTACGAGAAGTGCATGGCA
CCGCTTCCGCCAGCTGCCTGGGGGACGCCCAGCTGGAGAGCCTGGGGGCGGACAATGAGCCGGAGCTGGAAGCC
GAGATGCCCGCACAGGAGGATGACCTGGAGGGGGTCTGAGGAGCTGTGGCCTGCTTTGCCTACACGGGCCGACA
GCCCAGGAGCTGAGCTTCCGGCGGGGGGACGTACTGCGGCTGCACGAGAGGGCCTCGAGCGACTGGTGGCGGGG
GAGCACAAACGGCATGCGGGGCTCA'CCCCACAAGTATATCACGCTGCCCGCCGGGACGGAGAAGCAGGTGGTG
GGCGCAGGGCTGCAGACTGCAGGGGAGTCTGGGAGCAGTCCCAGGGCCTCCTGGCATCGGAGCTGGTCCACCGG
CCAGAGCCATGCACCTCACCTGAGGCCATGGGACCTCTGGACACAGACGACGCTGCTTGGTCCCAGCCTCCCCA
GAGCAACACGTGGAGGTGGATAAGGCTGTGGCACAGAACATGGACTCTGTGTTAAGGAGCTCTTGGGAAAGACC
TCTGTCCGCCAGGGCCTTGGGCCAGCATCTACCACCTCTCCAGTCTTGGGCCCGAAGCCCAAAGGCCCGCCC
AGCAGCCGCTGGGCAGGAACAAAGGCTTCTCCCGGGGCCCTGGGGCCCCAGCCTCACCTCAGCTTCCACCCC
CAGGGCCTAGACACGACCCCCAAGCCACACTGAGGTGCCGCTGCTGGAGATGCGTGCCCCCGCGGCTACCCGCT
GGACCGGCCACTCTCCCAGCCCCCTTGCTTCTCTCCAGCCCTGTCCAGCAAGTCAGGGTGCCTGCACTTCACC
CTGTGCAGAGAGGTGGGATGGGGCCGTGCACACAGGGATGCCGCTCCACATCTGCCTGCCCCCTCAGCCCTGGC
CCAGGCCCCCTTTTGGAGGCAGCTGAGGAAGGATGCTGGGGAAGCCCTTCTGTCAGCTTTGTGGAAGGCTGATC
AGTGGCTGCTGGGTGGCGGTACCCCTTGCTCAGATGCCTGGCAGGGCTGGGTGGCGATTATAAAGACCTCGTGT
TGATTCCCCG

4971/5332
FIGURE 4313

GATCCTGGGTTCTGTGCATCCGTCTGTCTGACCATCCCTCTCAATCTTCCCTGCCCAGGACTGGCCATACTGCCA
CCGACACGTGCACACACGCCAACAGGCATCTGCCATGCTGGCATCTCTATAAGGGCTCCAGTCCAGAGACCTGG
GCCATTGAACTTGCTCCTCAGGCAGAGGCTGAGTCCGCACATCACCTCCAGGCCCTCAGAACACCTGCCCCAGCC
CCACCATGCTCATGGCGTCCACCATTCCGCTGTGCCTGGGCATCCCTCTCTGCCCAGCCTGCCCAGCAACAGCA
GCCAGGAGAGGCCACTGGACACCCGGGACCCGCTGCTAGCCCGGGCGGAGCTGGCGCTGCTCTCCATAGTCTTTG
TGGCTGTGGCCCTGAGCAATGGCCTGGTGTGGCGGCCCTAGCTCGGCCGGGGCCGGCGGGGCCACTGGGCACCCA
TACACGTCTTCATTGGCCACTTGTGCCTGGCCGACCTGGCCGTGGCTCTGTTCCAAGTGCTGCCCCAGCTGGCCT
GGAAGGCCACCGACCGCTTCCGTGGGCCAGATGCCCTGTGTGGGCCGTGAAGTATCTGCAGATGGTGGGCATGT
ATGCCTCCTCCTACATGATCCTGGCCATGACGCTGGACCGCCACCGTGCCATCTGCCGTCCCATGCTGGCGTACC
GCCATGGAAGTGGGGCTCACTGGAACCGGCCGGTGTAGTGGCTTGGGCCCTTCTCGCTCCTTCTCAGCCTGCCCC
AGCTCTTCATCTTCGCCCAGCGCAACGTGGAAGGTGGCAGCGGGGTCACTGACTGCTGGGCCTGCTTTGCGGAGC
CCTGGGGCCGTCGCACCTATGTACCTGGATTGCCCTGATGGTGTTCGTGGCACCTACCCTGGGTATCGCCGCCT
GCCAGGTGCTCATCTTCCGGGAGATTGATGCCAGTCTGGTGCCAGGGCCATCAGAGAGGCCTGGGGGGCGCCGCA
GGGGACGCCGGACAGGCAGCCCCGGTGAGGGAGCCCACGTGTCAGCAGCTGTGGCCAAGACTGTGAGGATGACGC
TAGTGATTGTGGTCTGTCTATGTGCTGTGCTGGGCACCCCTTCTTCCCTGGTGCAGCTGTGGGCCGCGTGGGACCCGG
AGGCACCTCTGGAAGGGGGCGCCCTTTGTGCTACTCATGTTGCTGGCCAGCCTCAACAGCTGCACCAACCCCTGGA
TCTATGCATCTTTCAGCAGCAGCGTGTCTCAGAGCTGCGAAGCTTGCTCTGCTGTGCCCCGGGGACGCACCCAC
CCAGCCTGGGTCCCCAAGATGAGTCCTGCACCACCGCCAGCTCCTCCCTGGCCAAGGACACTTCATCGTAGAGGAG
CTGTGGGTGTCTTGCTCTAGAGGCTTTGAGAAGCTCAGCTGCCTTCTTGGGGCTGGTCTGGGAGCCACTGGG
AGGGGGACCCGTGGAGAATTGGCCAGAGCCTGTGGCCCCGAGGCTGGGACACTGTGTGGCCCTGGACAAGCCACA
GCCCCTGCCTGGGTCTCCACATCCCCAGCTGTATGAGGAGAGCTTCAGGCCCCAGGACTGTGGGGGCCCTCAGG
TCAGCTCACTGAGCTGGGTGTAGGAGGGGCTGCAGCAGAGGCCTGAGGAGTGGCAGGAAAGAGGGAGCAGGTGCC
CCCAGGTGAGACAGCGGTCCCAGGGGCTGAAAAGGAAGGACCAGGCTGGGGCCAGGGGACCTTCTGTCTCCGC
CTTTCTAATCCCTCCCTCCTCATTCTCTCCCTAATAAAAAATTGGAGCTCATTTTCCACATGGCAAGGGGTCTCCT
TGGA

4972/5332
FIGURE 4314A

GCGCGGTGCCGCCGGGAAAGATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTGCCCCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCATGAGATCCGGCTCATGGCCGAGGGTGGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGACAGGGGCAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TCCCACGCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAAGTCACTGG
GCAGTGGCCCGCATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCGCCTGGACTGCCAAGTCCAGGGCAGGCCCAACCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCAATGTGAGGCCCCGAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCAGTGGCAGGCCTCCTTTG
ACCCCTCCTTGACGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGGCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGAAGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGCAGAAGACCACAATGCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTT
CAGGGAACCCAGACTCTACACCTCAAGCTGTGCCCCATGTGCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGCCCCCGGGGAGCCCGCGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCTGCACTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACCAAGTGTATCCTCAGTGGCTTGGCGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTACCTTCAGCACCCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAAACCTACAGTGTGCTCTCCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTTCATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTCGTCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGGCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

4973/5332
FIGURE 4314B

CGCTCAACGGGGACATCAAGCCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCCCT
GGCCTTGGGATCCAGGCCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCTTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTGGCCAGCCATTGTTGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCCTGCCCCACTGGCCGGC

4974/5332
FIGURE 4315

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCTCTAGGCAGAGAAGAGGCGATGGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCCTTCTGACGCTGTCATTTCCACTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAAAACAATTCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGA

4975/5332
FIGURE 4316

GGTCGCGGTCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTGCGACCGC
GCGCGTGCGCAGTACCGGGTCCGCGCCTGTCCCCGAACTTCGACCCCGTCGAACTCTCGCGAGAGCGGTATCT
GCGTGTCGGGACGTGCGGAGGCTCTCACTTTCCGTCATGGCGCTGAAGGTAGCGACCGTCGCCGGCAGCGCCGCG
AAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCTCGAGGAAC
ATCTTTTCAGAACAAACAATTCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCAGGGGAT
GGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCTCAGGCACGCATGTGTACCAAGTGGACTTTGAAGAG
GTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTGCAATGCCATCATGGCCATCCGCCGGAACCGCGTGGCC
CTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGCACCAGC
CTGGACCTCTATGCCAACGTCACTCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATAGACATC
CTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTGGAGAGC
CTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCCTTCAAGCTGGCGCAGGAGAGCGGGCGC
AAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCTCCAGTGCTGCAGGGAG
GTGGCAGCCCGCTACCCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTGTCCCGG
CCCCAGCAGTTTGATGTCTATGGTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGACTGGTC
GGGGGCCCAGGCCTTGTTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGGAACACC
GGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTGGACCAC
CTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTGGCATCCATGGACAATGAGAATATGCACACT
CCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTATCCGCCACATCCGCGTCATCAACGGC
CGGGCCGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGTTTGCTCCTTGGATTCCCCTTCCCACTCCAGCACC
CCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAG

4976/5332
FIGURE 4317A

GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGAGGAGGAGGAGGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAAG
TTCTTCCACTTGGGCTGCCCGAAGAGGCCGCGACCCTGGAGGGCCCTGAGCCCACCGCACCAGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCCGGTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAAACAGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCAAAAGTCTACCCCTTGGTGCGCCAGTGCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCCGCGGGGAGCCACGCAGGAGGCCCTCCGGGGTTCGCGGGGCCAAAGCTGGCATGAACCGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCGGGTCTGTGCCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCTGTGCGGTGTATGTGGCCCGCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAACTGGCCCTGTCTGTTCCGACGCCGTCTGGTGGCCACGCCTACC
GCCTCTACTTCTCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCACTCTC
TGACGGAGGACGTGGTGGCCTTTCGCGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCCTACACCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGGGGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACCTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGCTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTTACGCGCTGTCACTTCAAGAGGCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTACAGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCACAGGCCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCACGTACGGTGGTGTGCTCTACAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACAGGTGATCTACCCGACTCAGTGAGGACATGCAAGGAAGGGCTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTTGGGAGG
CTATGTGTGACTGGAAGGACGTCTCTGCGGTGGCGAGAGAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCCAAGTACGCCCTCTTGATGAATGCAACGACGCGCGTGAGCATCGACGTGGAAGGCAAGATCTTCAGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAATAACACACACTTGTCTAC
AGTTCGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCCTGAGCCTGACGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCCCTGCATGCCCTGGCCCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCCCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGAAGTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGTGGAGGAAGCTGGGGTACAAGGGGCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCCTCCTCGTCACTCTCTCAAAGACCCCATGGTCCATCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCCGC
CCCCCTCGGCCCTCACCACTCTTCTACAGCCTAATTTATTGGATTCCCTATTCTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCCACCGGTGCCAA
CCCAGCCCCGTGCGGCCGTACCCCGCCAGCCTACACTGCCAGCGCCACCGGGGCACACGGGCCTCTGCTTGCCA
GCCAGGAGTGCGGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCCTGCCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCCCGGGCCCTCAGCCCTCGGGCCGGGCACCA

4977/5332
FIGURE 4317B

CAGTCCCCCAGTAAA

4978/5332
FIGURE 4318

TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTCTGTTGCTGCGGCGGGGCCTGCACGT
TGA CTGTGGGAAACTCGGAAACAAGCTCACATCTTCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTATCCTTGTGCTGTTGGTCATCGATGCCGTGCGGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTCTTGTGCTGCTGCTTCTGCTTAGACGCCTGGTGA CTCTCATTTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTAGAGAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCCCTCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCTGAGAGCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTAGAATGCGTTTGCTGTATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAGCCCCTTTTTGTGTTTGGCCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAGCAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTGTCATGGTG

4979/5332
FIGURE 4319A

TAGTCTGGAGCGAGGTGGCGAGTCTGCTGAGCCCGCCGCGGCCCGGAGAGCGGCTGCAGCCGCCGCCGCCGGAAGG
 AGAGGGCGAGGCGCGCCCGAGCCGCCGCCGCCGCCGCCACCGCCGCCGCCGCCACCACCGCCACCGGAGTCGCGG
 GCCAGCCGGGCAGCCTCCGCGGGCCCCCGGCCGGGGCGGGGGCGCGGGCCACAGGCCCTGCTCGGCCGCCGCT
 TGCAGACCGCGGGCGCCGATGTGCCCCGCGCCCCGCTAGGCTGAGCCTCGGGTCGGGCGAGGAGCCGCCGCAGCC
 GCCGCCGCCCGAGCCGCGGGCAGGAGCCTCGGGAGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC
 CGCCCCGCGCGCCCCCGGGCCCCCGACACACATGAGATTCTTCAGGCTCACTTTCAAGTGCTTCGTGGACTGCTTC
 TGACTGCGCCGCCCGCCCCGACCCCGCCGCCGCCGCCGCCGCCGCCCTCCCCGGCCCGGGCGCCCCCGGCC
 CCGGCCGGCCCCGCGCCTTCGGGGCCCTCCCGGTGCCGCCGGTGCCCCCGCCTGACCGCCGCCGCCCGCTGAGGC
 GCCGCGACCCCGGCCCGGCCGTGCGGCCCGCCGAGGCCATGGCGAAGAAGAGCGCCGAGAACGGCATCTATAGCC
 TGTCGGCGACGAGAAGAAGGGCCCCCTCATCGCGCCCGGGGCCGACGGGGCCCCGGCCAAGGGCGACGGCCCCG
 TGGGCTTGGGGACACCCGGCGGGCCGCTGGCCGTGCCGCCGCGCGAGACCTGGACGCGCCAGATGGACTTCATCA
 TGTCTGTGCTGGGCTTCGCCGTGGGCTTGGGCAACGTGTGGCGCTTCCCCCTACCTGTGCTACAAGAACGGCGGAG
 GTGTGTTCTTATTCCCTACGTCCTGATCGCCCTGGTTGGAGGAATCCCCATTTTCTTCTTAGAGATCTCGCTGG
 GCCAGTTCATGAAGGCCGGCAGCATCAATGTCTGGAACATCTGTCCCTGTTCAAAGGCCTGGGCTACGCCTCCA
 TGGTGATCGTCTTCTACTGCAACACCTACTACATCATGGTGCTGGCCTGGGGCTTCTATTACCTGGTCAAGTCCT
 TTACCACCACGCTGCCCTGGGCCACATGTGGCCACACCTGGAACACTCCGACTGCGTGAGATCTTCCGCCATG
 AAGACTGTGCCAATGCCAGCTGGCCAACTCACCTGTGACCAGCTTGCTGACCGCCGGTCCCCTGTATCGAGT
 TCTGGGAGAACAAAGTCTTGAGGCTGTCTGGGGACTGGAGTGCCAGGGGGCCCTCAACTGGGAGGTGACCCTTT
 GTCTGTGGCTGCTGGGTGCTGGTCTACTTCTGTGTCTGGAAGGGGTCAAATCCACGGGAAAGATCGTGTACT
 TCACTGCTACATTCCCCCTACGTGGTCTGGTCTGTGCTGTGTTGCTGGAGTCTGCTGCTGCGCCCTGGATG
 GCATCATTTACTATCTCAAGCCTGACTGGTCAAAGCTGGGGTCCCCTCAGGTGTGGATAGATGGCGGGACCCAGA
 TTTTCTTTTCTTACGCCATTGGCCTGGGGGCCCTCACAGCCCTGGGCAGCTACAACCGCTTCAACAACAACATGCT
 ACAAGGACGCCATCATCTGGCTCTCATCAACAGTGGGACCAGCTTCTTTGCTGGCTTCGTGGTCTTCTCCATCC
 TGGGCTTCATGGCTGCAGAGCAGGGCGTGCACATCTCCAAGGTGGCAGAGTCAGGGCCGGGCCCTGGCCTTCATCG
 CCTACCCGCGGGCTGTACGCTGATGCCAGTGGCCCCACTCTGGGCTGCCCTGTTCTTCTTCAIGCTGTTGCTGC
 TTGGTCTCGACAGCCAGGTTTGTAGGTGTGGAGGGCTTCATCACCGGCCTCCTCGACCTCCTCCCGGCCCTCTAC
 TACTTCCGTTTCCAAGGGAGATCTCTGTGGCCCTCTGTTGTGCCCTCTGCTTTGTATCGATCTCTCCATGGTG
 ACTGATGGCGGGATGTACGTCTTCCAGCTGTTTGACTACTACTCGGCCAGCGGCACCACCCTGCTCTGGCAGGCC
 TTTTGGGAGTGCGTGGTGGTGGCCTGGGTGTACGGAGCTGACCCTCATGGACGACATTGCCTGTATGATCGGG
 TACCGACCTTGCCCTGGATGAAATGGTGTCTGGTCTTCTTACCCCCGCTGGTCTGCATGGGCATCTTCATCTTC
 AACGTTGTGTACTACGAGCCGCTGGTCTACAACAACACCTACGTGTACCCGTGGTGGGGTGAGGCCATGGGCTGG
 GCCTTCGCCCTGTCTCCATGCTGTGCGTGCCGCTGCACCTCTGGGCTGCCTCCTCAGGGCCAAGGGCACCATG
 GTGAGCGCTGGCAGCACCTGACCCAGCCCATCTGGGGCCTCCACCCTTGGAGTACCGAGCTCAGGACGCAGAT
 GTCAGGGGCCCTGACCACCCTGACCCAGTGTCCGAGAGCAGCAAGGTGCTGCTGGTGGAGAGTGTCTGTGACAA
 CTCAGCTCACATCACAGCTCACCTCTGGTAGCCATAGCAGCCCCCTGCTTCAGCCCCACCGCACCCTCCAGGGG
 GCCTGCCTTTCCCTGACACTTTTGGGGTCTGCCTGGGGGAGGAGGGGAGAAAGCACCATGAGTGCTCACTAAAC
 AACTTTTTCCATTTTAAATAAACGCCAAAAATATCACAAACCCACCAAAATAGATGCCTCTCCCCCTCCAGCCC
 TAGCCGAGCTGGTCCTAGGCCCGCCTAGTGCCCCACCCCCACCCACAGTGCTGCACTCCTCCTGCCCTGCCAC
 GCCACCCCTGCCACCTCTCCAGGCTCTGCTCTGCAGCACACCCGTGGGTGACCCCTCACCCAGAAAGCAGCA
 GTGGCAGCTTGGGAAATGTGAGGAAGGGAAGGAGGGAGAGACGGGAGGGAGGAGAGAGAGGAGAAGGGAGGCAGG
 GGAGGGGACGACGAACCAAGGCAAAATATTTAGCTGGGCTATACCCCTCTCCCCATCCCTGTTATAGAAGCTTAG
 AGAGCCAGCCAGCAATGGAACCTTCTGGTATCTTGCGCCAATCGCCACCAGTATCAATTGTGTGAGCTTGGGTGCG
 AGTGCCACGCGTGCGTGAGTACGGAGAGTATATATAGATCTCTATCTCTTAGCAAAGATGAATGCCAGATGTAAT
 GGCGCCTCTGGGCAAAGGAGGCTTGATTTTGCACATTTTATAAAAACTTGAGAGAATGAGATTTCTGCTGTAT
 ATTTCTAAAAAGAGGAAGGAGGCCAAACCATCTCTTACCATCCCCTGCTGAGCCCTACCTTACCTT
 CTGCCCCCTAGCCAAGGAGTGTGAATTTATAGATCTAACTTTCATAGGCAAAAACAAAGCTTCGAGCTGTTGCGTG
 TGTGAGTCTGTTGTGTGGATGTGCGTGTGTGGTCCCCAGCCCCAGACTGGATTGGAAGAGTGCATGGTGGGGGCC
 TCGGGGCTGTCCCCACGCTGTCCCTTTGCCACAAGTCTGTGGGGCAAGAGGCTGCAATATTCCGCTCCTGGGTGTC

4980/5332
FIGURE 4319B

TGGGCTGCTAACCTGGCCTGCTCAGGCTTCCACCTGTGCGGGGCACACCCCAGGAAGGGACCCTGGACACGG
CTCCACGTCCAGGCTTAAGGTGGATGCACTTCCCGCACCTCCAGTCTTCTGTGTAGCAGCTTTAACCCACGTTT
GTCTGTCACGTCCAGTCCCGAGACGGCTGAGTGACCCCAAGAAAGGCTTCCCGACACCCAGACAGAGGCTGCAG
GGCTGGGGCTGGGTGAGGGTGGCGGGCCTGCGGGGACATTCTACTGTGCTAAAAAGCCACTGCAGACATAGCAAT
AAAAACATGTCATTTTC

4981/5332
FIGURE 4320

GCTTCTGCGCGCCGGGGCCGCCTCTCCTTCCGCGGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCCGGAGGGCAGCCGGCGCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTTGCACCATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCTATGACCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACTCCGGGACAGCATCGTGCAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCCGCC
GAGGTGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGAATAACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC

4983/5332
FIGURE 4322

ATGGGCGGGGCGGGCTCGGAGCGCGAAACATGGCGGGGACAGGACGCTGGCTGCGGCCGTGGCGGGCGACGACTAC
TCAGAGGACGAAGGCGACAGCAGCGTGTCCAGGGCGGGCTGTGGAGGTGTTGCGGAAGCTGAAGGACCTAACTGC
CCCTTCCTCGAGGGTCTGTATATCACAGAGCCAAAGACAATTCAGGAAGTGTGTGAGCCCCCTCAGAGTACCGC
TTGGAGATCCTAGAGTGGATGTGTACCCGGGTCTGGCCCTCACTGCAGGACAGGTCAGCTCACTGAAAGGGGTC
CCAACAGAGGTGAAGATCCAAGAAATGACGAAGCTGGGCCACGAGCTGATGCTGTGTGCGCCAGATGACCAGGAG
CTCCTCAAGGGCTGTGCCTGCGCCCAGAAGCAGCTACACTTCATGGACCAGTTGCTCGATAACCATCCGGAGCCTG
ACCATTGGGTGCTCCAGTTGCTCGAGCCTGATGGAGCACTTCAGGAGACACCAGGGAGAAGAACGAGGCCTTGCTG
GGGAGCTCTTCTCTAGCCCCACCTGCAGATGCTCCTGAATCCAGAGTGCGACCCGTGGCCCCCTGGACATGCAG
CCCCCTCCTCAACAAGCAGAGTGATGACTGGCAGTGGGCCAGTGCCTCTGCCAAGTCCGAGGAGGAGGAGAAGCTG
GCGGAGCTTGCCAGGCAGCTGCAGGAGAGTGCTGCCAAGTTGCACGCGCTTAGAACGGAGTACTTTGCACAGCAT
GAGCAAGGGGCTGCTGCGGGCGCAGCCGACATCAGCACCCCTAGACCAGAAGCTGCGTCTGGTCACTTCCGACTTC
CACCAGCTAATCTTGGCTTTTCTCCAAGTCTACGACGACGAGCTGGGCGAGTGCTGCCAGCGCCCAGGCCCTGAC
CTCCACCCGTGCGGCCCCATCATCCAGGCCACGCACCAGAATCTGACTTCTACAGCCAAATCCCCAGAGGCCAA
CCTAAAAAGCCGGCTTTAGTTACGATGACTACAGTTCACAGTGCAGCAACTCTGCCCTTGGCTCAAGGATTCGGT
GATGTTTATTTTGGTTTTCTAAGCGAGAGGCTCCGAGCCTTCCAACCTCTGACTGGCTGGTCTGTGAGACCCCT
CGATCAGGGATGCTGCTGCAAGTGGTCAATGGCAGTTGCTGACACCTCTGCGAAGGCCGTGGAGACCGTGAAGAAG
CAGCAAGGCGAGCAGATCTGCTGGGGTGGCAGCAGCTCCGTGATGAGTCTAGCTACCAAGATGAATGAACTAATG
GAGAAATAGAAAGTCTTCAGTGATGGCTACGCCAAAGCACAGGATGGGGCGGGCAGGAAGCCCTCTCCCAAGAT
CGAGTTGGCCGAGGATGGATGATTGTGGCAGCAGAAGCCGTTGCAGCCCCACGTTGTGCTCTAGGCAGCTGGGGG
CGGGCTGCGGCCGCTGATTAAAGGCCGCTAGAGCAGCCTGTGTGGCGACAGGTGCCCAGAAGCCAGGAAGCCG
GTCAGTGCCCGCCCCAGTTTGAGGACTTGCTATCCCCGTGGGAACATCACCATGTCCGAGGCACCCCGGGCCGAG
ACCTTTGTCTTCTTGGACCTGGAAGCCACTGGGCTCCCCAGTGTGGAGCCCGAGATTGCCGAGCTGTCCCTCTTT
GCTGTCCACCGCTCCTCCCTGGAGAACCCGGAGCAGCAGAGTCTGGTGGCCCTAGTATTGCCCCGGGTCTTGAC
AAGCTCACGCTGTGCATGTGCCCCGAGCGCCCCCTTCACTGCCAAGGCCAGCGAGATCACCGCCCTGAGCAGTGAG
GGCCTGGCGCGATGCCGGAAGGCTGGCTTTGATGGCGCCGTGGTGGGACGCTGCAGGCCTTCTGAGCCGCCAG
GCAGGGCCCCATCTGCCTTGTGGCCACAATGGCTTTGATTATGATTTCCTCCCTGCTGTGTGCCGAGCTGCGGCGC
CTGGGTGCCCCGCTGCCCGGGGACACTGTCTGCCTGGACACGCTGCCGGCCCTGCGGGGCTGGACCGCGCCCCAC
AGCCACGGCACCCGGGCCCGGGGCCGCCAGGGTTACAGCCTCGGCAGCCTCTTCCACCGCTACTTCCGGGCAGAG
CCAAGCGCAGCCCACTCAGCCGAGGGCGACGTGCACACCCTGCTCCTGATCTTCTGACCGCGCCGAGAGCTG
CTCGCCTGGGCGGATGAGCAGGCCCGTGGGTGGGGCCACATCGAGCCCATGTACTTGCCGCTGATGACCCAGC
CTGGAGGCCTGA

4984/5332
FIGURE 4323

CCGAGCGGGCTGGGGGAGGGGAGCGTGGGGCCGACAGTTTTGGGGGTGAAAAGGCAAAAGGCGGGTGAAAGGCTG
CCTCCCGAGACTCTCCTTGCTTGAATTCTGCCACTCTGCGGAGTTAGCAGTCA~~CG~~ACCTCCAGCACAGGATGT
GGTACCACAGATTGTCCACCTACACAGCAGGCTTCAGGACTTGCTGAAGGGAGGAGTCATATATCCGGCCCTTC
CACAGCCCAACTTCAAAAGCTTACTTCCTTTAGCTGTCCATTGGCACCATAACGCCTCCAAGTCTCTGACTTGTG
CTTGGCAGCAACATGAAGATCATTTTGAGCTGAAATATGCTAATACCGTGATGCGCTTTGATTACGTCTGGCTTC
GAGACCACTGCCGCTCAGCATCGTGCTACAACCTAAGACTCACCAGCGCAGCCTGGATACTGCCAGTGTGGATT
TATGTATCAAGCCAAAGACCATTTCGTCTGGATGAGACCACACTCTTTTCACTTGCCAGATGGTCATGTGACTA
AATATGATTTGAATTGGCTGGTGAAAAACAGCTATGAAGGGCAGAAACAAAAAGTCATCCAGCCTAGAATACTAT
GGAATGCTGAAATCTACCAGCAAGCCCAAGTTCCATCGGTAGATTGCCAGAGCTTCTTAGAAACCAACGAGGGAC
TGAAGAAGTTTCTGCAAAACTTCTGCTCTATGGAATTGCATTTCGTAGAAAATGTCCCTCCCACTCAAGAGCACA
CAGAGAAGTTGGCAGAAAGGATCAGCTTAATCAGAGAAACCATTATGGGAGGATGTGGTATTTCACTTCAGACT
TCTCCAGAGGTGACACTGCGTACACCAAGCTAGCTCTGGATCGGCACACTGACACTACCTATTTTCAAGAGCCCT
GTGGCATTCAAGTGTTCATTGTCTTAAACATGAAGGAACTGGTGGCAGGACACTGCTAGTAGATGGATTCTATG
CAGCAGAACAGGTACTTCAAAAGGCACCTGAGGAATTTGAACCTCCTCAGTAAAGTGCCATTGAAGCATGAATATA
TTGAAGATGTTGGAGAATGTCACAACCACATGATTGGGATTGGGCCAGTCTTAAATATCTACCCATGGAATAAAG
AGCTGTATTTGATCAGGTACAACAACATGACCGGGCTGTCTATCAATACCGTTCCTTATGATGTGCTCCATCGCT
GGTATACAGCACACCGGACTCTAACGATAGAGTTGAGGAGACCTGAGAATGAGTTTTGGGTCAAATAAGCCCTG
GCAGGGTCTTATTTATAGACAACCTGGCGTGTCTACATGGCAGGGAATGCTTCACTGGCTACCGCCAACCTGTGTG
GCTGCTATTTAACAAGAGATGATGTATTAAACACTGCTCGCCTCTTGGGGCTTCAGGCTTAA~~AA~~ATTGACAGCATC
TGGATTATGAATACACCTGGCACCCCTGGCTACCAGAATTTTCATATGGGCAGAAATAATATTGTGTCAAACCTCTACT
TCAGATTGTCTCCTTATCCCATCCCAACAGAAATCTGTCCGTTTCTCTAGTAAGGGAGACTTGTGGAGAGG
CGGGACTCTGAGTTATCTAATGTCAGACATCTAGTGGGGCAGCTCTCTTCTCATGTTATAACATGGATCCACTT
GTTTTATTTAAACCTTTTAAATATAATTTTGGTCAGTCTCCTTCAGAAATATAATCTCCATATTGATAGGAAAGCA
ATAATTGCCATGAGGTAACGATTTTTTCCCAAGTAGATCAGTTAGAAAGAAATGCATTCTAGAAATAACAAAA
TCCTGATAAAGCAACAATTTGCAAAATGTTTGGTCTTAGGACACCTTAACACTCTTAAAAGTTATTGAAGGCCCC
AAGGAGTTCTTGGGTGTGGGTCTATCTATTGATACTAATTATTTTAGGTATTAAGACTGAGAAATATTTAAAGC
TCAAGAAGAACACAGAAGCACACATCCCTCAGCTATGAGAGAGATGACATAACCATATGTCATGTAGCCTCTGGA
AAAGTCCTCTGTATCCTCATGAGATAACGAGAGGGGGAAAAAAGCTACTACTGCCTTTGTAACCTCCACTTAGC
CTACTACAGGGCTATGCACATCTTAGTTTCCAAAAGCTGTCTTAATTTCAAAAGAAAAATGCCTAATTGAATGTA
ACTCATCTTGGTGTTATTATACAAAATAATTTTAACTGCGAGACCCACGAAAAGGGTCTCAGGGACTCCTCCAG
GGGTCTTCAGACCATACTTTGAGAACCCATGGGCTAGCGACTACCTTGAGACAGTCCCTTTACCTAGGCCTGTGGA
TTAAAGGGTTTAGCTGAAACCCTAGATTCTTCTCTGTAGTCTAATAGAACTCCAAACATTGTAAGAATTGCTTGG
TAGCATAAGCTCAGGGATAAGGTGGGAATTGAGTTCAAATATAGTGTTCCTTCCACACAAATCATCTCTATA
GGAGTTAAATTAGGAAGTCACAACAGCGCTGTTGAACAACTCATCAGTGTGGTAATCCTATGAGGGATAATTG
CAGAAAGGTTTTAGAGACTTGTGAGGTTCCATATGATAATTCTTTACACCTCCCCCCCCAAGAGAAAGTACACA
GGGCTATTCTGTAATATTGTTTCAAGGAAATCAGCATGATAGATGCTGTGCCTCCAGAGAGTTCTCTGGAGATTAC
TACCCAAATGTGTATTTTGGCAATTTGGTGGTATTTAGGATGTAATATGTTTTCTCCATTTCTGCTAATTTTCT
CTCTCTCTCTCATAACATACTATACATGCTAATTGCCAAGATTTGAATGAGTCAAATTT

4985/5332
FIGURE 4324

AAAACGATTTCAAGAGCTGCACTTAAGCATCTAGAATTTTCTGCGTCACACCTCTTGAGAGAAGAGACTGGCTCC
AGGTCTGACTCAGTCCACTACAAGCTAGACGGTCTTCTTAAAGCACCAACATTACTTGAGTCTTTGGATAAAATT
GAGAAAAGAGTCTACAAGTATTGTGGACTCTACAGGAGGCAGGAGGCTGACAACCTGGCAGTAAAGACAAAGATGT
CAGGCTGCGGCCCGGCACTCAAGTGGACCCTGAGATTGAGCTTTTTGTAAAGGCTGGAAGTGATGGAGAGAGTA
TTGGAAACTGTCCCTTTTGCCAACGCCTTTTCATGATCCTCTGGCTTAAAGGAGTTAAATTTAATGTGACAACTG
TTGACATGACCAGAAAGCCTGAAGAACTAAAGGACTTAGCCCCAGGTACCAATCCTCCGTTCTTGGTGATATAACA
AGGAGTTGAAAACAGACTTCATTAAAAATTGAGGAGTTTTTAGAACAAACCCTGGCTCCTCCAAGGTACCCTCACC
TGAGTCCCAAGTACAAGGAGTCTTTTGATGTGGGCTGTAACCTCTTTGCCAAGTTTTCTGCATACATTAAGAATA
CACAAAAGGAGGCAAATAAGAATTTTAAAAATCTCTGCTCAAAGAATTCAAGCGTCTGGATGACTACTTAAACA
CCCCACTTCTGGATGAAATTGATCCAGACAGTGCTGAGGAACCCCAAGTTTCCAGAAGACTATTCTTGGATGGGG
ACCAGCTAACACTGGCTGATTGTAGCTTGTACCCAAGCTGAACATTATTAAAGTTGCTGCCAAGAAATATCGTG
ACTTTGACATTCCAGCAGAAATCTCAGGAGTCTGGCGTTATCTCCACAATGCCTATGCCCGTGAAGAATTTACCC
ACACGTGTCCTGAAGACAAAGAAATTGAAAATACTTACGCAAATGTGGCTAAACAGAAGAGTTAGGAGAGCTCTT
ACAGGAGAAAAGGCTATATTTGTGATCAGATTTTACTTATTGACATATTAGAAAAGGTTTTTTGCAAATAAGAATAT
GAAAAATACTGTTTCTTCTATCCAACCTCTCTTATGAAAAGGAACCTCTGTATTTTCTATTAGCCATAAATAATCTG
TCCACTGTATTTTACAGGCTTTCATACTTTTACTTAATTTTCTTTATCTGTATGGCAAACCACTGCAATCCTGAA
TGACATGGAAAGCATCACAATCTTTTGCCCTTTGCTTGAATTCCTGGAATGCATACATATAAGCTAAACAGATGT
CTGCAGTTATAAATGTCATAAGTAGAGGTACAATCTCACCCCTGCTCCTTAGAAACATTTCCATATAAATCGCTAA
AATAATTTTACATTTTGTAGTTTAATATATACATGAGTTTATTTCTGATATAAATAAATAACAGAGAGTGA
GCATATCAGAGAGGCAAATTCTTAAAGAATGATTTTTTAAATCAGCTCTAGGAAGAGCTCAAGATCAATTGGTCA
TAGAACAGCATTTGACGCCTAGAACTATGACCACCTCATGGTCAGAGATGAGAATGTAGCCTTTGTGACCAGATT
ATATTATTTTAAATGAAGAAGCACTCATTAAATAAAACATAATTTTAAAAACAATATAAGAAACAAAGTCAAC
TGAATCTTTTATTCATAGAAATGAAAAGGAAAATAAAAACTGTGGCTGACC

4986/5332
FIGURE 4325

CTCTTACAGATAGTGCGGCGGCCCCAGGCGTCGCGTCTACGCGGGGGATTACAGTAACCCGGTTGTCAGTGATGAG
TCAGAGTGCCTGGTGCTGATGCTGCTGCCATTTTCATCACCTTTGCGAGCGCAGCATCCATCCCTCCGCTCTCCCG
GCGCCTGGGCTTACCCAGCTTCGGGCTCCAGGCCAGCGATGCGCTCGCGGCTGAGCTAGATCCTGCCGAGCCGC
GCTCTCTGAGGCGTCGGCGGGGCGCCCCCTCCGCGCTCCCGGTCGGGGCCAAGGAGACCTGCAGAGCCGCGGC
CATGGAGGCCATCTGGCTGTACCAGTTCCGGCTCATTGTCATCGGGGATTCCACAGTGGGCAAGTCCTGCCTGAT
CCGCGCTTCACCGAGGGTCGCTTTGCCAGGTTTCTGACCCACCGTGGGGGTGGATTTTTCTCCCGCTTGGT
GGAGATCGAGCCAGGAAAACGCATCAAGCTCCAGATCTGGGATACCGCGGGTCAAGAGAGGTTTCAGATCCATCAC
TCGCGCCTACTACAGGAACTCAGTAGGTGGTCTTCTCTTATTTGACATTACCAACCGCAGGTCCTTCCAGAATGT
CCATGAGTGGTTAGAAGAGACCAAAGTACACGTTTCAGCCCTACCAAATTGTATTTGTTCTGGTGGGTACAAGTG
TGACCTGGATACACAGAGGCAAGTGAAGTTCGCCACGAGGCCGAGAACTGGCTGCTGCATACGGCATGAAGTACAT
TGAAACGTCAGCCGAGATGCCATTAATGTGGAGAAAGCCTTCACAGACCTGACAAGAGACATATATGAGCTGGT
TAAAAGGGGGGAGATTACAATCCAGGAGGGCTGGGAAGGGGTGAAGAGTGGATTTGTACCAAATGTGGTTCACTC
TTCAGAAGAGGTTGTCAAATCAGAGAGGAGATGTTTGTGCTTAGTCAGTTCTTTTATTTCCAAAACATGCTCTCCT
ACTTGAAGTGAAGTAAGAGAAATAAATAGAATCTTTGTGT

4987/5332
FIGURE 4326

ACGCTTGTCACCTTACCTGAGCGCAGCCAATCAGCACCTAGAGGTTGGGCTACTTTTCGGCCAAAGGAGAACGGGGA
CTTGTGGGGGACGCTCCCTGCGCACCAATGAATGTGCATGGAGATGGAGAGGCGGGCCTGCAAGTGCGAACAAGC
CAATCACGGAATCCCGGCGGCCGGCGGCCCGGGAGGCAGTCGCGCGCTCGCATCCCCAAGATGGCGGCCGTTAAG
GACAGTTGTGGCAAAGGAGAAATGGCCACAGGGAATGGGCGGCGGCTCCACCTGGGGATTCTTGAGGCCGTGTTT
GTGGAAGATGTAGATTCCCTTCATGAAACAGCCTGGGAATGAGACTGCAGATACAGTATTAAAGAAGCTGGATGAA
CAGTACCAGAAGTATAAGTTTATGGAACCTCAACCTTGCTCAAAAAGAAAAGAAGGCTAAAAGGTGAGATTCTTGAA
ATTAAACAGACTTTGGAAATTCTAAAATACATGCAGAAGAAAAAGAGTCCACCAACTCAATGGAGACCAGATTCT
TTGCTGGCAGATAACCTGTATTGCAAAGCTTCAGTTCCTCCTACCGATAAAATGTGTCTGTGGTTGGGGGCTAAT
GTAATGCTTGAATATGATATTGATGAAGCTCAGGCATTGTTGGAAAAGAATTTATCGACTGCCACAAAGAATCTT
GATTCCCTGGAGGAAGACCTTGACTTTCTTCGAGATCAATTTACTACCACAGAAGTCAATATGGCCAGGGTTTAT
AATTGGGATGTAAAAAGAAGAAACAAGGATGACTCTACCAAGAACAAGCATTAATGCTGGCAATTAATAATGTGG
TTTAGTTTTTCCAAACATGTTATCTTAAATACCCCTTTATCCTTACAGGTTGACATAACTTTGAATGTTTTAACAG
CAAGAATTTTAAGAAAAGATAAAACACCATTTTATTTATTTATAAAAAACAAATTAGTTTCAAAATTTTTTGACAT
TGTGATTTTTTTTTCCACATTTCTCAGCAAAGCTAATGGTATTTTAATCATTATTTTGCCTGTCATAAGAAAAC
TCTTAGCTGAAATGGCCGAAAACGTGAGACATGCTATGGAAGCTGAATGCCGGACGCTAGCACAGTTTACTTTT
TCCCTTTCTAATCGGCTGATGTTACTCTCACTTGATGTGGTTAAACCATTTTAGAGGTAGAGAAGACAGACAGTT
TGAATATTTGTAACTTGTTTTCTTTGGTATATTTAGGACTTAGTGGTCCTCTGTGCTATTGTCTTCTATAAG
TGGAGTTTCATGACTTACTGCTTAACGAATAACTACTATGATATTCTGGACATTTTAGGAAATGGTAATTT
GCCTTGCTACACATTAAGAGGGCTATTAAGACTACATTTTTCTAACCTCAGATAAGTGCAGTGTCTTTGCAATG
CCAACATAAGGGAGATCTTGGCCAACGTGAAATAAAATTACTCATTCAAACTCTGCCTAAGGTGATTTTGTAGT
TCTTAACAGTTCTCCAGAGCATCTTGAACAGGAATATTAAGATAAATGTGAATCTGCAATGGCTGAAAAGAGTTG
TGAGCTTTTTTATTTCATGATAAAACCTTATAGGAATAGTATAAAAAATCCCTGTGGAAAGCTACTAGTACATTGA
CCAGCGCTGGGTGATACAGATTCTGATAAAAAACATAAATGTATTAGTTCATCTCCATGTAGTAAAAAGTATACTT
ATACAATGTTTTGTACTTGTATTTTCATGAAATTAAACAGTGATGCTAAAC

4988/5332
FIGURE 4327

GACATCATGGGCTATTTTTAGGGGTTGACTGGTAGCAGATAAGTGTGAGCTCGGGCTGGATAAGGGCTCAGAGT
TGCACTGAGTGTGGCTGAAGCAGCGAGGCGGGAGTGGAGGTGCGCGGAGTCAGGCAGACAGACAGACAGCCAG
CCAGCCAGGTGCGCAGTATAGTCCGAACTGCAAACTTTATTTTTCTTTTACCTTCTCTCTAACTGCCCAGAGCTA
GCGCCTGTGGCTCCCGGGCTGGTGTTCGGGAGTGTCCAGAGAGCCTGGTCTCCAGCCGCCCCCGGGAGGAGAGC
CCTGTGCCCAGGCGCTGTTGACAGCGGCGGAAAGCAGCGGTACCCACGCGCCCGCCGGGGGAAGTCGGCGAGCG
GCTGCAGCAGCAAAGAACTTTCCCGGCTGGGAGGACCGGAGACAAGTGGCAGAGTCCCGGAGCCAACCTTTTGCAA
GCCTTTCTGCGTCTTAGGCTTCTCCACGGCGGTAAAGACCAGAAGGCGGCGGAGAGCCACGCAAGAGAAGAAGG
ACGTGCGCTCAGCTTCGCTCGCACCGGTTGTTGAACCTTGGGCGAGCGCGAGCCGCGGCTGCCGGGCGCCCCCTCC
CCCTAGCAGCGGAGGAGGGGACAAGTCGTGCGAGTCCGGGCGGCCAAGACCCGCGCCCGGCGGCCACTGCAGGG
TCCGCACTGATCCGCTCCGCGGGGAGAGCCGCTGCTCTGGGAAGTGAGTTCGCCTGCGGACTCCGAGGAACCGCT
GCGCAGAAAGAGCGCTCAGTGAGTGACCGGACTTTTCAAAGCCGGGTAGCGCGCGGAGTCGACAAGTAAGAGT
GCGGGAGGCATCTTAATTAACCTGCGCTCCCTGGAGCGAGCTGGTGAGGAGGGCGCAGCGGGGACGACAGCCAG
CGGGTGCGTGCGCTCTTAGAGAACTTTCCCTGTCAAAGGCTCCGGGGGCGCGGGGTGTCCCCGCTTGCCACAG
CCCTGTTGCGGCCCCGAACTTGTGCGCGCAGCCCAACTAACCTCACGTGAAGTGACGGACTGTTCTATGACTG
CAAAGATGGAAACGACCTTCTATGACGATGCCCTCAACGCCTCGTTCCTCCCGTCCGAGAGCGGACCTTATGGCT
ACAGTAACCCCAAGATCCTGAAACAGAGCATGACCCTGAACCTGGCCGACCCAGTGGGGAGCCTGAAGCCGCACC
TCCGCGCCAAGAACTCGGACCTCCTCACCTCGCCCGACGTGGGGTGTCTCAAGCTGGCGTCGCCCGAGCTGGAGC
GCCTGATAATCCAGTCCAGCAACGGGCACATCACCACCACGCCGACCCCAACCCAGTTCTGTGCCCAAGAACG
TGACAGATGAGCAGGAGGGCTTCGCCGAGGGCTTCGTGCGCGCCCTGGCCGAACCTGCACAGCCAGAACACGCTGC
CCAGCGTCACGTGCGCGGCGCAGCCGGTCAACGGGGCAGGCATGGTGGCTCCCGCGGTAGCCTCGGTGGCAGGGG
GCAGCGGCAGCGGCGGCTTCAGCGCCAGCCTGCACAGCGAGCCGCGGCTTACGCAAACTCAGCAACTTCAACC
CAGGCGCGCTGAGCAGCGGCGGGCGGGGCGCCCTCCTACGGCGCGGCCGCGCTGGCCTTTCCGCGCAACCCAGC
AGCAGCAGCAGCCGCCGACCACTGCCCCAGCAGATGCCCGTGCAGCACCCGCGGCTGCAGGCCCTGAAGGAGG
AGCCTCAGACAGTGCCCGAGATGCCCGGCGAGACACCGCCCTGTCCCCATCGACATGGAGTCCAGGAGCGGA
TCAAGGCGGAGAGGAAGCGCATGAGGAACCGCATCGCTGCCTCCAAGTGCCGAAAAAGGAAGCTGGAGAGAATCG
CCCGGCTGGAGGAAAAAGTGAAACCTTGAAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGG
AACAGGTGGCACAGCTTAAACAGAAAGTCATGAACCACGTTAACAGTGGGTGCCAACTCATGCTAACGCAGCAGT
TGCAAACATTTTGAAGAGAGACCGTCGGGGGCTGAGGGGCAACGAAGAAAAAATAACACAGAGAGACAGACTT
GAGAACTTGACAAGTTGCGACGGAGAGAAAAAAGAAGTGTCCGAGAACTAAAGCCAAGGGTATCCAAGTTGGACT
GGGTGCGTCTGACGGCGCCCCAGTGTGCACGAGTGGGAAGGACTTGGCGCGCCCTCCCTTGGCGTGAGCCA
GGGAGCGGCCCGCTGCGGGCTGCCCGCTTTGCGGACGGGCTGTCCCGCGCGAACGGAACGTTGGACTTTTCGT
TAACATTGACCAAGAAGTGCATGGACCTAACATTGATCTCATTGAGTATTAAAGGGGGAGGGGGAGGGGGTGA
CAAACCTGCAATAGAGACTGTAGATTGCTTCTGTAGTACTCCTTAAGAACACAAAGCGGGGGAGGGTTGGGGAGG
GGCGGCAGGAGGGAGGTTTGTGAGAGCGAGGCTGAGCCTACAGATGAACCTTTCTGCGCTGCCTTCGTTAACTG
TGTATGTACATATATATATTTTTTAATTTGATGAAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAG
TTATTTCTTGTGTTGTTGTTTGGGTATCCTGCCAGTGTTGTTTGTAAATAAGAGATTTGGAGCACTCTGAGTTT
ACCATTTGTAATAAAGTATATAATTTTTTTATGTTTTGTTTCTGAAAATTCCAGAAAGGATATTTAAGAAAATAC
AATAAACTATTGGAAGTACTCCCCTAACCTCTTTTCTGCATCATCTGTAGATACTAGCTATCTAGGTGGAGTTG
AAAGAGTTAAGAATGTCGATTAAAATCACTCTCAGTGCTTCTTACTATTAAGCAGTAAAACTGTTCTCTATTAG
ACTTTAGAAATAAATGTACCTGATGTACCTGATGCTATGGTCAGGTTATACTCCTCCTCCCCAGCTATCTATAT
GGAATTGCTTACCAAAGGATAGTGCGATGTTTCAGGAGGCTGGAGGAAGGGGGGTTGCAGTGAGAGGGGACAGCC
CACTGAGAAGTCAAACATTTCAAAGTTTGGATTGTATCAAGTGGCATGTGCTGTGACCATTTATAATGTTAGTAG
AAATTTTACAATAGGTGCTTATTCTCAAAGCAGGAATTGGTGGCAGATTTTACAAAAGATGTATCCTTCCAATTT
GGAATCTTCTTTTACAAATCCTAGATAAAAAGATGGCCTTTGCTTATGAATATTTATAACAGCATTCTTGTC
CAATAAATGTATTCAAATACC

[illegible]

4990/5332
FIGURE 4328B

CCATTGTTAACTCACAGGCCTCATAAAACATAGGCTGTTGGCTATTATTCTCCAACCCTTGATCTAGAGAATTTT
AAACATTAGAATTTTGTGTTTACATTTGTTAAGCTTTACGTCATCTTCAAATGACACCAAAACTCAGAATTATGAT
CTGCATTTAAGCCAATTTTAAAAATAAAATAAGCAGTCAATGCTGCCTCATTATTGAAATTCAGTAGATTTTAGT
TTATTTCTTAGTAGTCAGAGAATTGATTTATAGCTATTACCAAACATTCTTACTAACGTTTCCTTATATCTAAA
TCAGATTGATTCTATATTTTGTCTTGTGTAATCAATAGCCAATGAAGAATAAGGAGTATTGGAAGAAGCAGTG
AGTCAGCTTTAGGTGACCTGGTTCTGTCTCAACTTTGTGATTGGGGAGATACAGTTTACTTTCCCTGAGCCTT
AATTCTTGTGTAAGTGAAGTCTAACTTAACCTTCTTAATGTCCTTCCAGAACTAAAATTTTATTGTTTATTCTAAT
CGTTGGACTACTCTTGTGAAGTTATATTTTGTAGTTAATACAGTTTCCAAATTAACATACATTTAAAAAAAAG
GGTAGTATTTTTCCATTTCTCTGTGTGCACCTTAGGATAAACAGTGAAGTATAGCTTATAAAACAATTAGTTTGAG
GGCTGAGAGTGTAAGAGGAACATATACCAAAAGTCAGGAAACCTGAGCTCTTACCCTAACTCTGTTACCAACTTG
CTGTGTGACCTTAATCAAAACACATAACCTGGACCCCATGCTCCTCACCAGTAAATCAAGGGCCTGAATTTATG
GCTTAGTATTTCCCTTCCAAGCTCCGAAGTTGCGTGATTCTGTGAAAGGCAGTGATTGATTCCCTTTGTACTCATCT
TCCTTTTGACCTGTTTCCCTCATGATATATTGGGGAACAAATACTAAAAAGTGTTTTATACTAGCTTTCTTGATTG
ACATTTCCCTATAATACTGATGAATTTGGGTGATGGAAAGTAATGGAAATTGTTAAAAGTTCTGCTCTCAAACTC
GAGTCTCCTTGCCCTGTGTGCCAATGTTAACCATATTTGCTAATCTAAGCCATATTGCGAGGATCTCAAGGATG
ATACTTGTCAAGAGTTTGGGGCCTTGAGAGCACAGTTTTCAAAATAATACTTAGTATTTTCTGACTATAGAGTAC
ATTTGTCTTGTAAGTATATTTTAAAAATACAGAGAAGTGTGAAGTACAAATATCTCAGTGCTACTATTTAAAAAA
ACACAATTAGTATATAAATCCTTCCCCATTTTTTTGACAGTATAATTTTAGTATGTTAACTTGGTTACTTCTTT
CTCTCTTCCCTCCATCATTTTCCCTGCTTCTTTTTCTTTTGTGCATATTCTTAAACAATTTTGCAACCACAGGTA
CCCACATTGCTGGCACTACCAGCCTTGGGCTACTACCGAGGATAATGGAGCCAGGGCCTTGTAGAAGCACAGAGG
AAGTCTAGAAGTGAAGGGGCTATGATACAGGAAGTTCAAGAGGCAGAGTCTCAAAGGAACACCTGCCTTAATA
ATGTTTACAGAAGTGGAGAAAGGACTAAAGGACTTAAAGACATGCAGGTGTCTTCATCCTGATTCTGTCTTTGTT
ATTGCACAATGACTATAAAATAATGACCTAATTTTTTTTTTTTTCTGGCTTGGCTAATGGAAATCGACACTAGCG
CTTCCCCAGTATTAGACTTAATCTAATTCCAAAGTAACTCAAGAAAAGAAAACCAGTGGAACAGGATCAGTA
AGCTCAGACTCTCCATCTCCATTAATTTAGCCTTGACCATTCTTCTCTAATCCTTTTAAATTATCTTCAGTTTCC
AGTTCAAGTTTACATTGCTTACAGTTTGTGTTGACCCTGTATTGAGAGCTGCATTATGATTCTTGTGGGCCC
TAGATAGTTTTGCCATCTTAGACCCCTTCTTCCATACAAAATTAAAAGTGATATTTTACAATTGTATCTGTATGA
AATGAATGTATTAATATTTTAGATTAAAACATTTTGTGTTAGAAGTTTCAAGTTTTTCTTATGAGGCTAAAAAAAT
TAAACATTTTTTGTGGGCTTCTAAAAAACTGTGGGCTTAGGTACTGTGCCTAATGGATAAGTTGGCATTGCCCTG
TATTCTGAAGGGCATCATTGGAAAAATAGCAGTCATTATTCTGTCCCCTTCTCCCACCACCACAGTCCTTGGAGA
AGCCTTTGCCACTCCATCCAGGAGCACTGCAGTTTCCACGGTTATAGATCTATAGACTTGAACCTTACTTCCCTCC
CAACCTAACGAAAACCTCACAGGATTACTTGGGACCATTATCCTCAAAAAAGATAGGAGGCAGTGGTTTGTGTTT
AGTCTTCAGATATTTTTGTTTTGGTCACTCCCTAATCTGTAGTTTGAAGTCTGTCACACTTGAAGGGGAAAC
ATCCTACTACCTTTCTTCTCTCCATTTCCACAAACCTTTCTTCTCATCATCACTCCCTGCATTCTTACTTCT
CAGCATATAAATACAAGACCCTTCTTCTATTATTTGTTGAAAGCTAGGCCTGTAAAATAGAGATGGACAGACCA
TGCATGTTTTCCATGAAGCTATTTAATGCTGCTCCAGTCTTCTGTCCATACCATTCCTTCCCTGCCCTAGGAGT
GGGTTTGAGGTCTGTGACATGCAGACTGTAAGCACAGTCAGAACCTCTGCAGCTCTCAACCCAACAGAGGAGACT
GTGGCTTCAACATGCCAACCTGAGCAGGTCTCCTCTGCATTACCTTCCCTCCATTTCTCTTCTGGGTCTGATG
AGGTGAGCTGGAGGAACCAATAGTCAGGATGCCCTGGAATTGATGTTGCTCTGTTTTGTGCTCACAAAACAGCCA
TGTAACACATGAGCACCTGAGTTGAAGCCATCCAGTCGCAAGTCAGCAGACAGCAGTTGATGGAATTCTCAGTAG
AAATTCAGTAAGGGTGCCCAAATTTATTTTTTTTTTACCTATACTCTACCAATATATGGTATTTAGGAAAAC
TCTTTTATCCAAGCACAAAGAAAAGCACACACATTTTTATAATCATCTGCTTCATCAGGGTAAATAAATAATTTA
ACAAATTTGATCAGCATCTCTAGTTTACCAGTACTTTAATATTAGTTTTCTTACAAATTAATGTATTTTGCAATA
TTTCCAGAAAATCACTGTGGGAGAATAATGTAATATACTTTAGGATATATTTCTTGACCTTTTCTTAAATGGCTT
CATGTGCTATTCCCCCAAATCTGCTTTCTCTATTTTCTTTTTTATTTAACCTATAATTATACTTTCTAGTATAT
TCTGAGTCTATCTTCTAAGCCACCTTACATTTTTCTGGAACAAGGGAGGGAATAAATAGTTGCCCTCCACTAAAT
CAGGAAAAAATAAATAATATCCAGGGGAGCTGTGATTATGCCAAGAGCTCTAAACAGAAGTTTGAGAAGGTAAAA
ATTAAGTTGTAGTATCTGAGTTGTTTTATTTTCTTCTTTGGTGTATGAAGGTATTCATAAGAACCTTAATT

4991/5332
FIGURE 4328C

TCAGGGGAAAAAATGCCTGATTGCTATTTTGACATTTCTCGTCTCTTAAGAAGTCAGTTAAATATGTTTTC
ATAGTTTATATTCCTGTTTCATAGATTACTGTGAAACATGTATTTAAACCTATGAATTATAAAATAGTATTTAGA
TTCTAGCGTGAGTTAAATAGATTAGTCATATATCTTTTAGATTTGTGGATTGACATGTAAATTATGTGTTGTGT
ATAAGTAAGTTAGTTACTAAACATATGGCATGGTTATTGATAAACTTGTTGCTATTTTTTCCAAATGCTATCAG
TGTTTGTGGACTTTTAAAAATTAGTTTGAATTTTGGAAATGTTCTGTGATAAAATGTAATTTCAACTATTTTGTAC
ATTTAAATATGCCATGTTGTATATGTCTGTATTTAAAAATGTTGTAAATACCTGCATTTTAAGAATTATGAAAGA
TTTTCCTCAAAAATGACAGAACTCTCCATACTTAATTGTGACACATTATAAGATATCTGATTTTAAGCTTTTGGA
TTTTGTTCTAAAAATTAAGTTTAAACATGCTGAAAATTCATAAAAATAAAATTTTGAAAATAAA

4992/5332
FIGURE 4329

GAAGTGGTGGCAGTGAGAGACTTCGGCGGACATGGCTCCCAGCGTGCCAGCGGCAGAACCCGAGTGTCTAAAGG
CTGTGCTGCTGGGGCCTCCCAGGGCCGGTAAAGGCACCCAGGCACCCAGATTGGCTGAAAACCTCTGTGTCTGCC
ATTTAGCTACTGGGGACATGCTGAGGGCCATGGTGGCTTCTGGCTCAGAGCTAGGAAAAAGCTGAAGGCAACTA
TGGATGCTGGGAACTGGTGAGTGATGAAATGGTAGTGGAGCTCATTGAGAAGAATTTGGAGACCCCTTGTGCA
AAAATGGTTTTCTTCTGGATGGCTTCCTCGGACTGTGAGGCAGGCAGAAATGCTCGATGACCTCATGGAGAAGA
GGAAAGAGAAGCTTGATTCTGTGATTGAATTCAGCATCCCAGACTCTCTGCTGATCCGAAGAATCACAGGAAGGC
TGATCACCCCAAGAGTGGCCGTTCCCTACCACGAGGAGTTCAACCCTCCAAAAGAGCCCATGAAAGATGACATCAC
CGGGGAACCCCTTGATCCGTTGATCAGATGATAATGAAAAGGCCTTGAAAATCTGCCGGCAAGCCTACCACACTCA
AACCACCCCACTCATAGAGTACTACAGGAAACGGGGGATCCACTCTGCCATCAATGCATCCCAGACCCCTGATGT
CGTGTTCGCAAGCATCCTAGCAGCCTTCTCCAAAGCCACATCCTAGTATCAGAAGGCCAGGCGAAACTGCAACAC
TGCTCATCACCCGGTGGCGTGATCCCTGCTCTTAGGTGCTGGGCAGAGGGAAAGGGTGGTCAGGGTGAGGATGGT
GAGGGAGGGCTGGTGAGGGGCTGAGAGGAATACTTGAAACAACAGCAGTGTTATTGTAATGTGGCAGTTTATTTT
ATACATAGGTGAGAGTTTTTAAAGTGTAAGGGAAAAATTAATTTTTTAAAAAACACCATGCTTGGAGGGTGGGGG
TAGAAATAGAGAGACACAATATTATTTCTAAGGAATCGGGTTTTCTTTACTCTGGACTGGTGAAAATATTTTTT
AAAGCCAGTGCTCTAAGACCTCAGCTTTTATCTCAGAACCCCATGGGTTCCAGACCAAGAGTACAGGAAATCAAA
TTGTTGTCCTGTCTGTCTATAGCTTGGAACAGGGAGGCTTTGATTACTGACCCCGGTTCCACACACTGTAAGATC
AAAAAACCATTTCCACATCTGAAAGAGATGTAAGGTGTATTCTAGGGATGGTGGCTCAACAAATCAACAAACT
GGAATCAAGGGGAGGGAGAAGGGAATGAAATGGAAGGGAGGCTGATTCCCTTCCCCTGACTTACCACTAATTTA
CTAGGCTACGTAATCTCATGAGTAACCTCTCACAGCTACCCAGCACATGCCACAATCCTATGCTCTTGCCCTTCTT
TTATCTGCAATGTGTGAAGGGACTCTTTTAAATAAATGAGCAAGTGTCCTAAGCTATGTCATCCAAAGATTGTCC
TTTCCATTCTCAAATCCTGTGACTGGGATCACTCAACAGCACTGTGATGTATTATTTTCAATGAGGTGCCTTTCT
TAAGTACCAAATGCTGCCTTGTTGGCCCTTAAATCAATAAAATATGTAAAAATTTG

4993/5332
FIGURE 4330

CGGGTCTGATAGTCCCTACCTGTCAGGACTGGTGTTAGGATGAGATAATGTTTGTGAACTGTAACTATATAAAC
GTGTGCTACTGTGAGAACTGGACAAAGAAGAGAGGGAGTGAGAGAAATTAAGGGAGGGCTGGGGCTGGGAAAGAA
CGAAAAGGGAGTCGCGTATAGAGGAGAGCGCGACAGTTCGCGAGCCACACTTTGCAATGAAACTCTTTAGACTTTC
TGCCGGGAGAGCGGCCAGACGCGCCAGGTCTGTAGCAGGAGGCGCGCCGAGGGCGGGTCCCCAGAAGCCTACA
GGTGAGTATCGGTTCTCCCTTCCCGGCTTTCCGTCCGGAGGAGGCGGGAGCAGCTTCCCTGTTCTGATCCTATC
GCGGGCGGCGCAGGGCCGGCTTGGCCTTCCGTGGGACGGGGAGGGGGCGGGATGTGTCACCCAAATACCACTGG
GGACGGTCGGTGGTGAACAGCCGGGCGAGTTCGGGTAGAGTATAAGAGCCGAGGGAGCGGCCGGGCGGCAGAC
GCCTGCAGACCATCCAGACGCGGAGCCCGAGCCCGCGAGTCCCGCGCCTCATCCGCCCGCGTCCGGTCCG
CGTTCCTCCGCCCCACAATGGCTCGGGGCCCGGCTCGCGCCGCCACCGCTGCGGCTGCCGCTGCTGCTGCTGG
TGCTGGCGGCGGTGACCGGCCACACGGCCGCGCAGGACAACCTGCACGTGTCCACCAACAAGATGACCGTGTGCA
GCCCCGACGGCCCCGGCGGCGCTGCCAGTGC CGCGCGCTGGGCTCGGGCATGGCGGTGACTGCTCCACGCTGA
CCTCCAAGTGTCTGCTGCTCAAGGCGCGCATGAGCGCCCCAAGAACGCCCCGACGCTGGTGCGGCGCGAGTGAGC
ACGCGCTCGTGGACAACGATGGCCTCTACGACCCCGACTGCGACCCCGAGGGCCGCTTCAAGGCGCGCCAGTGCA
ACCAGACGTGGTGTGCTGGTGCCTGAACCTCGGTGGGCGTGCGCCGACGGACAAGGGCGACCTGAGCCTACGCT
GCGATGAGCTGGTGCACCCACCACATCCTCATTGACCTGCGCCACCGCCCCACCGCCGGCGCCTTCAACCACT
CAGACCTGGACGCCGAGCTGAGGCGGCTCTTCCGCGAGCGCTATCGGCTGCACCCCAAGTTCGTGGCGGCGCTGC
ACTACGAGCAGCCACCATCCAGATCGAGCTGCGGCAGAACACGTCTCAGAAGGCCGCGCGGTGAAGTGGATATCG
GCGATGCCGCCCTACTACTTCGAGAGGGACATCAAGGGCGAGTCTCTATTCCAGGGCCGCGCGGCCTGGACTTGC
GCGTGCGCGGAGAACCCCTGCAGGTGGAGCGCACGCTCATCTATTACCTGGACGAGATTCCCCCGAAGTTCTCCA
TGAAGCGCCTCACCGCCGGCCTCATCGCCGTATCGTGGTGGTGGTGGGCCCTCGTCGCGCGCATGGCCGTCC
TGGTGATACCAACCGGAGAAAGTCGGGGAAGTACAAGAAGGTGGAGATCAAGGAACGGGGGAGTTGAGAAAGG
AACCAGGCTGTAGCTACCCGGCGGGGCGAGGGATGGGGTGGGGTACCGGATTTCGGTATCGTCCAGACCCAAG
TGAGTCACGCTTCCTGATTCTCGGCGCAAAGGAGACGTTATCCTTTCAAATTCCTGCCTTCCCCCTCCCTTTT
GCGCACACACCAGGTTTAATAGATCCTGGCCTCAGGGTCTCCTTTCTTTCTCACTTCTGTCTTGAAGGAAGCATT
TCTAAAATGTATCCCCTTTCCGGTCCAACAACAGGAACCTGACTGGGGCAGTGAAGGAAGGGATGGCACAGCGTT
ATGTGTAAAAACAAGTATCTGTATGACAACCCGGGATCGTTTGCAAGTAACTGAATCCATTGCGACATTGTGAA
GGCTTAAATGAGTTTAGATGGGAAATAGCGTTGTTATCGCCTTGGGTTTAAATTATTTGATGAGTTCCTACTTGA
TCATGGCCTACCCGAGGAGAAGAGGAGTTTGTTAACTGGGCCTATGTAGTAGCCTCATTACCATCGTTTGTATT
ACTGACCACATATGCTTGTCACTGGGAAAGAAGCCTGTTTCAGCTGCCTGAACGCAGTTTGGAATGCTTTGAGGA
CAGACATTGCCCGGAAACTCAGTCTATTTATTCTTCAGCTTGCCCTTACTACCACTGATATTGGTAATGTTCTTT
TTTGTAATAATGTTGTACATATGTTGTCTTTGATAATGTTGCTGTAATTTTTTAAATAAAACACGAATTTAATA
AAATATGGGAAAGGCACAAACCAGAAGTCGGCATTGTTGTAAGTCCCTCCAGATTTCTATCACATTGGTCTCTA
ATTTCCCAAGACTTGATTTTTTTTTTTTATTTCAAATTATAACACTTTTTTTTTCCCCAGAAGTGGGTGTTTCATG
TTGCTACTCTGGTGTGCTCCTAAGATATCCTAACTGGCCAGTGTAATGCTATTCTTTCTAAATAAGATTATTTGG
AACTTCCTTCAAACCTGCAGGAGGGTGAGCTTGAGGGAGGAAGCTAAACTAGCTGCTTTTATGAAAAAGAGTGCC
AGTCTTTGGTCTCTCTAAACAAGGCTTATACCAATGGAGACAGAAAACTCTAGTTCAAGAGCTGTACCTCCTT
TGAATCCCAGCCCTACTTTGAAATAGGTGGTACTATTTCCATTAGCCTTTGAGCAAATCACTTAATCTCAAAGC
GTTGTGGCTCTAAGATTAAACGACTTT

4994/5332
FIGURE 4331

GTATGGCGGGCAGGAAGTGC GGGTGCGGCCTGCGCATAGGTCGGGTCTGCGGTGTCACCGCTTTTCGCTTCTGCT
TGAGTAGTCAAGTGAAAAATGAGCTTCATCTGTGGATTGCAGTCTGCTGCTAGAAACCATGTTTTCTTCCGATT
TAATTCAGTGTCTAACTGGAGAAAATGTAACACATTAGCATCCACCTCACGGGGCTGTCATCAAGTACAAGTTAA
CCATATAGTAAATAAGTATCAGGGACTGGGAGTAAATCAGTGTGACAGGTGGAGTTTTCTGCCTGGAAACTTTCA
TTTTTATAGTACTTTTAAACAACAAAAGAACAGGAGGCCTCTCAAGTACCAAAGTAAGGAAATTTGGAGGATTAC
CAGCAAATGTACTGTATGGAATGATGCTTTTTCAAGACAGCTGCTAATAAAAGAAGTTACAGCAGTCCCTAGTCT
GTCAGTATTGCATCCTCTAAGCCCTGCTTCCATAAGAGCTATTAGGAATTTCCATACTTCTCCACGGTTTCAAGC
TGCTCCGGTTTCTCTCTTGTGATGATTCTTAAACCAGTACAGAAAGTTATTTGCAATCATTGTAGGCAGGGGCAT
AAGGAAATGGTGGCAGGCACCTCCTCCTAACAAGAAGGAAGTAGTTAAAGAAAATATAAGGAAGAATAAATGGAA
GCTATTCCTTGGTTTTGAGTAGTTTTGGATTGCTCTTTGTGGTGTTTATTTTACTCACCTGGAAGTAAGTCCAAT
CACAGGAAGGAGCAAGCTACTATTATTGGGGAAAGAACAGTTCAGACTTTTATCGGAAGTGAATATGAAGCATG
GATGGAAGAATTTAAAAATGATATGCTAACTGAGAAAGATGCCCGATACCTGGCTGTTAAAGAAGTGCTTTGTCA
TCTAATTGAATGCAATAAAGATGTTCCAGGGATCTCTCAGATCAATGGGTTATTCATGTGGTTGATTCCCCAAT
TATTAATGCCTTCGTGCTTCCAAATGGACAAATGTTTGTCTTCACTGGATTTTTAAATAGTGTAACCGATATTCA
TCAACTTTCTTTCTTCTGGGCCATGAAATAGCACATGCAGTACTTGGGCATGCTGCAGAAAAGGCTGGCATGGT
TCATTTGTTGGATTTCTAGGTATGATTTTCTCACAATGATTGGGCCATTTGTCTCGAGATAGCTTGGCACT
TTTGTGCCAGTGGATACAGTCTAAATTGCAGGAGTATATGTTTAATAGACCATACAGCAGAAAATTGGAGGCCGA
AGCTGACAAAATTGGACTACTGCTTGCTGCAAAGGCTTGTGCAGACATAAGAGCCAGTTCAGTGTTTTGGCAGCA
AATGGAGTTCGTTGATAGCCTGCATGGCCAACCAAGATGCCAGAATGGTTATCTACACACCCTTCTCATGGCAA
TCGAGTTGAGTACTTGGATAGACTTATACCTCAGGCTCTCAAAATTAGAGAGATGTGTAATTGTCCACCACTGTC
TAATCCAGACCCTCGATTACTATTCAAACCTCAGCACGAAGCATTTTCTTGAAGAATCAGAGAAAGAAGACCTAAA
TATCAGGAAGAAACAGAAAATGGATACTCTTCCTATTCAAAAACAGGAGCAAATACCATTAAACATACATAGTTGA
GAAAAGAACGGGCAGTTGAATTTAAATTTATGAGACACAAGATATATGAAGAATGTTGCAGTCCTTATCATTTTA
TGTTACTTTTTAAAAAATGATGTTTGAAGTGAAAAAAGGATATTACAGGTCAAATCATGTACATTACAGAT
ATTATCTAAATTCTTCTAGAATTTATTTTTCATGAAATATTGATGTATTTAATCTATGTTAAAAATATCTTCAAT
GAGGAAAATGTCACAGAATAAATTTATATTACACATTTT

4995/5332
FIGURE 4332

AGCCTGAACCTCTAGGACTTTTAAATTGATACCAGTGGTCTCCGCTCTGAAACAGTCCACCAGAATGAGGGTACCA
AACTGACCTCAGAGGTTTCCAGGTTTGTGAACTTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTA
CCCAGAAATCAATTAAAGTGGCTCAGAATCTGGAGAGCCTGTCTTGTGTTGCCGGACAGATACCCCTCTTCCAGC
AGATCTCTGCACAGAATTATTTTCAGACCACAGCAAGAAGGGTCAGAGCTGAGAATGGACCACCTGAGGATCTGC
TGTGGGATGGAGCAGGAACCTGCTTAGGTGGTACCAATCTTGACTTCCAGATGGAACAGTACATCTCTATAAGGA
AAAGTGATGGCATCCACATCGTAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCCATTGTTG
CCATTGAAAACCTGCTGATGTCAGTGTTATATCCTCCAGGAATATTGGCCAAAGGGCTGTGCTGAAGTTTGCTG
CTGCCACTGGAGCCACTCCAATTGTTGGCCTTCACTCCTGGAACCTTCACTAACCACATCCAGGCAGCCTTCC
AAGAGCCACGGCTTCTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTACGTTAACC
TATCTACCGTTGCTTTGTGTAACACAGATTCTCCTCTGCACTTGTGGACATTGCCATTCTATGCAACAATAAGG
GAGCTCACTCAATGGGTTTGATGTGGTGGATGCCAGCCCGGAAGGTTTGCGCGCGTGTGGCACCATTCCCATG
AACCCCATGGGAATTCATGCCTGATCTCTACAGAGATCCTAAAGAGACTGAAAAAGCAGAGCAGCCTGCTGCTG
AAAAGGCTGTGACCAAGGAGGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTAACTGCTACTCAGCCTG
AGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGCGCCTATTTCATCAGTTCCCTACTGAAGACTGGAGTG
CTGAGCCTGCCACGGAAGGCTGGTCCACAGCTCCCAATGCTCAGGCCATTGAATGGTGGATGATTCAACAGCCAC
ACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAAGAGAAAAGCTGCTGAAG
CCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACTTGTGCTGCATGCATCACTGGTGACA
ACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACT
GGATGTTGGTAGAAAAAGCAAGAGTTTGTTATATAGCAGGTGTGATAAAGCATATTACTAGAAAAGCATCAATCG
GTCTTTCAGGTACAATACCAGAGGAACCATCACAGTTTATTTACCTTTCAGAAGCTTTAAAAATAAGTTACATG
ATGCCTCTGCTCTCCAGATTCTAATCAAACCTGGAACAAAAGAGCCAAGCACATTCTATCTGA

4996/5332
FIGURE 4333A

GGTTGAGAATGCTTGACCAAGCTTGTCAGGCAGCTCAGATCCTTCAGTCAGACCCTTACTCAGTGCCTGCTCG
AGATTATCTAATTGATGGGTCAAGGGGCATCCTCTCTGGAACATCAGACCTGCTCCTTACCTTCGATGAGGCTGA
GGTCCGTAATAATTATTAGAGTTTGCAAAGGAATTTTGGAAATATCTTACAGTGGCAGAGGTGGTGGAGACTATGGA
AGATTTGGTCACTTACACAAAGAATCTTGGGCCAGGAATGACTAAGATGGCCAAGATGATTGACGAGAGACAGCA
GGAGCTCACTCAACCAGGAGCACCAGTGATGTTGGTGAACCTCGATGAACACCGTGAAAGAGTTGCTGCCAGTTCT
CATTTTCAGCTATGAAGATTTTTGTAACTAACTCAAAAACTCAAAAACTAAGGCATAGAGGAAGCTTTAAAAAATCG
CAATTTTACTGTAGAAAAATGAGTGTGAAATTAATGAGATAATTCGTGTGTTACAACCTCACCTCTTGGGATGA
AGATGCCTGGGCCAGCAAGGACACTGAAGCCATGAAGAGAGCATTGGCCTCCATAGACTCCAACTGAACCAGGC
CAAAGGTTGGCTCCGTGACCCTAGTGCTCCTCCAGGGGATGCTGGTGAGCAGGCCATCAGACAGATCTTAGATGA
AGCTGGAAAAGTTGGTGAACCTCTGTGCAGGCAAGAACGCAGGGAGATTCTGGGAACTTGCAAAATGCTAGGGCA
GATGACTGATCAAGTGGCTGACCTCCGTGCCAGAGGACAAGGATCCTCACCGGTGGCCATGCAGAAAGCTCAGCA
GGTATCTCAGGGTCTGGATGTGCTCACAGCAAAAGTGGAAAATGCAGCTCGCAAGCTGGAAGCCATGACCAACTC
AAAGCAGAGCATTGCAAGAAGATCGATGCTGCTCAGAACTGGCTTGAGATCCAAATGGTGGACCGGAAGGAGA
AGAGCAGATTGAGGTGCTTTGGCTGAAGCTCGGAAAATAGCAGAATTATGTGATGATCCTAAAGAAAGAGATGA
CATTCTACGTTCCCTTGGGGAAATATCTGCTCTGACTTCTAAATTAGCAGATCTACGAAGACAGGGGAAAGGAGA
TTCTCCAGAGGCTCGAGCCTTGGCCAAACAGGTGGCCACGGCCCTGCAGAACCTGCAGACCAAAACCAACCGGGC
TGTGGCCAAACAGCAGACCGGCCAAAGCAGCTGTACACCTTGAGGGCAAGATTGAGCAAGCACAGCGGTGGATTGA
TAATCCCACAGTGGATGACCGTGGAGTCGGTCAGGCTGCCATCCGGGGGCTTGTGGCCGAAGGGCATCGTCTGGC
TAATGTTATGATGGGGCTTATCGGCAAGATCTTCTCGCCAAGTGTGACCGAGTGGACCAGCTGACAGCCCAGCT
GGCTGACCTGGCTGCCAGAGGGGAAGGGGAGAGTCTCAGGCACGAGCACTTGCACTCAGCTCCAAGACTCCTT
AAAGGATCTAAAAGCTCGGATGCAGGAGGCCATGACTCAGGAAGTGTGAGATGTTTTAGCGATACCACTCC
CATCAAGCTGTTGGCAGTGGCAGCCACGGCGCCTCCTGATGCGCCTAACAGGGAAGAGGTATTTGATGAGAGGGC
AGCTAACTTTGAAAACCATTCAGGAAAGCTTGGTGTACGGCCGAGAAGGGCGCTGCGGTTGGTACTGCTAATAA
ATCAACAGTGGAAAGGCATTACAGGCCTCAGTGAAGACGGCCCGAGAAGTCAACACCCAGGTGGTCTCGGCTGCTCG
TATCTTACTTAGGAACCTTGAAATCAAGCTGCTTATGAACATTTGAGACCATGAAGAACCAGTGGATCGATAA
TGTTGAAAAATGACAGGGCTGGTGGACGAAGCCATTGATACCAATCTCTGTTGGATGCTTCAGAAGAAGCAAT
TAAAAAGACCTGGACAAGTGCAAGGTAGCTATGGCCAACTTCAGCCTCAGATGCTGGTTGCTGGGGCAACCAAG
TATTGCTCGTCGGGCCAACCGGATCCTGCTGGTGGCTAAGAGGGAGGTGGAGAATTCCGAGGATCCCAAGTTCCG
TGAGGCTGTGAAAGCTGCCTCTGATGAATTGAGCAAAACATCTCCCCGATGGTGTGATGGATGCAAAAGCTGTGGC
TGGAACATTTCCGACCCTGGACTGCAAAAGAGCTTCTGGACTCAGGATATCGGATCCTGGGAGCTGTGGCCAA
GGTCAGAGAAGCCTTCCAAACCTCAGGAGCCTGACTTCCCGCCGCTCCACCAGACCTTGAACAACCTCCGACTAAC
AGATGAGCTTGCTCCTCCCAACACCTCTGCCTGAAGGTGAGGTCCCTCCACCTAGGCCTCCACCACCAGAGGA
AAAGGATGAAGAGTTCCCTGAGCAGAAGGCCGGGGAGGTGATTAACAGCCAATGATGATGGCTGCCAGACAGCT
CCATGATGAAGCTCGCAAAATGGTCCAGCAAGCCGGGCATCCAGCCGCTGAGGTGGGTATAGGTGTTGTAGCTGA
GGCAGATGCGGCCGATGCTGCTGGCTTCCCTGTCCCCCTGACATGGAAGACGATTACGAACCTGAGCTGCTGTT
AATGCCATCCAATCAGCCGGTCAACCAGCCATTCTGGCCGCGGCTCAGTCCTTGATCGGGAAGCTACCAAGTG
GTCTAGTAAGGGCAATGACATCATTGCAGCAGCCAAGCGCATGGCTCTGCTGATGGCTGAGATGTCTCGGCTGGT
AAGAGGGGGCAGTGGTACCAAGCGGGCACTCATTGAGTGTGCCAAGGACATCGCCAAGGCCTCAGATGAGGTGAC
TCGGTTGGCCAAGGAGGTTGCCAAGCAGTGACAGATAAACGGATTAGAACCAACCTCTTACAGGTATGTGAGCG
AATCCCAACCATAAGCACCCAGCTCAAAATCCTGTCCACAGTGAAGGCCACCATGCTGGGCCGGACCAACATCAG
TGATGAGGAGTCTGAGCAGGCCACAGAGATGCTGGTTTACAATGCCAGAACCTCATGCAGTCTGTGAAGGAGAC
TGTGCGGGAAGCTGAAGCTGCTTCAATCAAAATTCGAACAGATGCTGGATTTACACTGCGCTGGGTTAGAAAGAC
TCCCTGGTACCAGTAGGCACCTGGCTGAGCCTGGCTGGCACAGAACTCTACTAAAAAGAAGGAAAATGATCTG
AGTCCAGGAGCTGCCAGAGTTGCTGGGAGCTGAAAAATCACATCCTGGCCTGGCACATCAGAAAGGAATGGGG
GCCTCTTCAAATTAGAAGACATTTATACTCTTTTTTTCATGGACACTTTGAAATGTGTTTCTGTATAAAGCCTGTA
TTCTCAAACACAGTTACACTTGTGCACCCTCTATCCCAATAGGCAGACTGGGTTTCTAGCCCATGGAATTCACAT
AAGCTCAGAATCCAAGTGAACACTAGCCAGACACTCTGCTCTGCCCTTGTTCCTAGGGGACACTTCCCTCTGTT
TCTCTTTCCTTGGCTCCCATTCCTCTTCCAGAATCCCAAGACCCAGGGCCAGGCAATCAGTTACTAAGAAGA

4997/5332
FIGURE 4333B

AAATTGCTGTGCTCCCAAAATTGTTTTGAGCTTTCCATGTTGCTGCCAACCATACTTCCTTCCCTGGGCTGTG
CTACCTGGGTCCTTTTTCAGAAGTGAGCTTTGCTGCTACAGGGGAAGGTGGCCTCTGTGGAGCCCCAGCATATGGG
GGCCTGGATTCAATTCCTGCCCTTCTCAGTTTAATCCTTCTAGTTTCCACAATATAAACTGTACTTCACTGT
CAGGAAGAAATCACAGAATCATATGATTCTGCTTTTACCATGCCCTGAGCAATGTCTGTGCTAGGGAACTTCC
CGTCCCATATCCTGCCTCAGCCCGCCAAGGTAGCCATCCCATGAACACACTGTGTCTGGTGTCTCTGCCACTG
GAAGGGCAGAGTAGCCAGGGTGTGGCCCTGCCATCTTCCCAGCAGGGCCACTCCCGGCACTCCATGCTTAGTCAC
TGCCTGCAGAGGTCTGTGCTGAGGCCTTATCATTCACTTCTAGCTCTTAATTGTTCAATTTGAGCTGAAATGCTG
CATTTTAATTTTAACCAAAACATGTCTCCTATCCTGGTTTTTGTAGCCTTCCCTCCACATCCTTTCTAAACAAGAT
TTTAAAGACATGTAGGTGTTTGTTCATCTGTAACCTTAAAAGATCCTTTTAAATTCAGTCCTAAGAAAGAGGAG
TGCTTGTCCCTAAGAGTGTTAATGGCAAGGCAGCCCTGTCTGAAGGACACTTCTGCCTAAGGGAGAGTGGA
TTTGCAGACTAGAATTCTAGTGCTGCTGAAGATGAATCAATGGGAAATACTACTCCTGTAATTCCTACCTCCCTG
CAACCAACTACAACCAAGCTCTCTGCATCTACTCCCAAGTATGGGGTTCAAGAGAGTAATGGGTTTCAATTTCT
TATCACCACAGTAAGTTCCTACTAGGCAAAATGAGAGGGCAGTGTTCCTTTTTTGGTACTTATTACTGCTAAGTA
TTTCCCAGCACATGAAACCTTATTTTTTCCCAAAGCCAGAACCAGATGAGTAAAGGAGTAAGAACCTTGCCTGAA
CATCCTTCCTTCCCACCCATCGCTGTGTGTTAGTTCCCAACATCGAATGTGTACAACCTTAAGTTGGTCCTTTACA
CTCAGGCTTTCACTATTTCCCTTTATAATGAGGATGATTATTTTCAAGGCCCTCAGCATATTTGTATAGTTGCTTG
CCTGATATAAATGCAATATTAATGCCTTTAAAGTATGAATCTATGCCAAAGATCACTTGTTGTTTTACTAAAGAA
AGATTACTTAGAGGAAATAAGAAAAATCATGTTTGCTCTCCCGGTTCTTCCAGTGTTTGAGACACTGGTTTACA
CTTTATGCCGGATGTGCTTTTCTCCAATATCAGTGCTCGAGACACAGTGAAGCAAATTAAAAAAA

4998/5332
FIGURE 4334

TCAGGATCTACAGTCTTTGCAGAAATTCAGGGGGTCATTGATGCTTGCAATTAACTATCTGGAATGCCTGATCTC
TCCCTTTCTTTTCATGAACCCCTAGGCTTCTGGATGATGTCAGCTTTACCCCTGCATCCGGTTCAAGCGTTGGGAA
TCTGAAAGAGTTTTGTCAATTTATTCCTCCAGATGGAAATTTCCGACTCATATCATACCGTGTACAGCTCACAAAT
CTAGTGGCAATACCAGTGTATGTGAAACATAGTATCAGCTTTAAGGAGAACAGTTCTTGCGGCAGATTTGATATA
ACAATTGGACCAAAGCAGAATATGGGGAAAACATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTG
CTGAACATGAACCTGACACCCACACAAGGCAGCTATACATTTGATCCAGTCACCAAGGTACTAACATGGGATGTG
GGAAAAATTACTCCACAAAAGCTCCCAAGTCTTAAAGGACTGGTAAATTTACAGTCTGGAGCCCCCAAACCAGAA
GAGAATCCGAGCCTCAACATACAGTTTAAAGATCCAGCAGCTTGCTATTTTCAGGCTTAAAAGTAAACCGTTTGGAC
ATGTATGGGGAGAAATATAAGCCATTTAAAGGAGTCAAATACGTACGAAAGCTGGAAAGTTCCAAGTGAGGACA
TGAGAAGAGGCCAAAATTCCTCAGGACCAGTTTGTTCCTCAAGTGTCATTACGATGTATCACTATTAGGTACCAA
GTGAGTGGGAATACATATTCTAGTTAAAGCATTGTGTCTAGCTACACACCGCTAACAAAGTTACTTAGTTATCA
ATGTAGGATTCTTAAGGAGCTTTAAGCTAAGGAAACCTTTTAGTGACTTAGCTTATTTTGTATCTTTCACTTAG
GAAGATTTTGGAGGTGATTTTTTCCATAGGAGGATACCATCTGGCGGCTGCACATTGTAACAGTAAAGGCAGAA
AGCTGTAGTGATAACCTCTCTCTCTAAAGAGTTAACTGGTCTCATCCAGCAGAAGCTATCTTAAATCTGTGATGT
GTCAGGTGCAGCCAAATATCACACCTTCTGATCTTAGCCATCCCAAACAGTATCTGTCCCGAGAGGAAAATCCC
CCCACCCCCAGAAGTTTACAGAAAACCTGCCTCTTCAAGTGTTCGCTTATTCAGCTTTTCACTTGTGCCATTAAG
CAAGCACTGTAGCAAAAGCCACTTCCACATGGCCCTGGCAGGGAGCACTGCTGCTCCATGCTCCATTCTCACTGT
ACTTGGTATTGTATTTTTTATAAATAAGATTTTTATGTAAAGCTTAGAATTTGATTTACAGGGACCTTGCTGCAG
TAAATACCATCTCAATTTTGTGCCACTGGTTTCAGCTGTTAGCACAGTAAAAAATCATTGTATCAAAAGGGGCAA
ATGCTTTATTAAGGTAGTAAAGGGGAACATTACTTCTGCTTTTAGGAAGTTACTGCAAGCACAGCATTGTGTCT
TTTAAGCAAATTAAGTAGTAAAGGAAAACTTAAGTGAACCTTTGCCATCTTCATGTTTTATAATATAAAGCT
TACCCAACACCAGTTAAGCCATGGTTAACCTAAATGCCCTCATGCCCCAGTTCAGCAAAAGGAGGAAAATGTGCCT
GCCTCACAGTCATCAGTCTTTTTAAATCTTTTTTGTGTGTTCTTAAGGGTTTGAATTTGTCTGCATTCCTTGT
CTTTAGGGGAAATCCCTTTTCATATTGTGTGCTTCCCAAAGCTATAGTCATAGATTTCTTCCAGAACTATTGT
CATAATTGTCAGTGGAGTGCTTAAATATACGTACTATACTGACAAAATACATGGAAGTGAGTTATAATGAGGCAG
AAACAAAATCCTCGGTAACATTGATGATACTCTACCGATCACCGTGGTTTTGGAAAGTCAGTCAACAGTTGTATT
ATTGCACTCAATTCATTGTGACATTTTATTTAACTTCTTCATCTTGGTGGTCTTGCCAGTTATTTTGCCTCA
TTAGACATCAAGAAATGGAGAAAGACTGAAAGTTAATATCTTAAGTGCTTGTCTTCATGTTTCCCTTCTGTTAT
TTATGCTATTCTCTTTGTGGCTCCATTCTTCTTCAATCTTCTCAGCTTATAACCGTCTTCCCTTAATGCTAAGG
ATAGCCCTTACACTCATCCATCTATGCTGTCAAGGGCTGCTGGTTGGTGCTGGTACAAGGAGCCCACTCAGCAG
TTTTCTTACCTTTGCCTGCCCTGCCTTTTCATGGAATAAGAAAGGCAACGTTTTGCAGCTTCCAAATTTCTGAAGA
AACTAATCTCAGATTGGCAGTTAAAGTCAAAATGTTGCCAAATATTTATTCCTTTTGCCTAAGTTTGGCTACCCG
GTTCAATTGCTTTTTATTTTAAATGTCTTGACTCTTCAGAGTTCGTACCTCAAAAGAACAATGAGAACATTTGCT
TTGCTTTCTGCTGAATCCCTAATCTCAACAATCTATACCTGGACTGTCCAGTTCTCCTCCTGTGCTATCTTCTCT
TCTATCCAAGTAGAATGTACGCCAGGAGCTCCTTCCCTCTAGCAATTTCTACTAAAATGTCCAAGTAGAATGTTT
CCTTTTACAATCAAATTACTGTATTTATTAATTTGCTAGAATCCAGTAAATCATTTTGGTAGCTCTGGCTGTGCT
ATCAATAAAAAGATGAAAGC

4999/5332

FIGURE 4335

ATGCTGCCCCGTGCAAAGCATCGGAGGGGTCIGGGTCCCTGGTAGAGGGTCCTCAAAGGTGGCGCGGTCAGCCAGC
TCGGTCCCCCTGCGGGCCACGACTGGCGAAGGGCTGCTGGAGCCGGAGCTGCACCAGACAGGCGGGGACTCAGCC
AAACGGAGAGAACGTCTGGCAAGGGCGCCGTCACCCCTCCTCCCCAAGTCCGGCAGCGCTCACCTCAGCGCTTGCG
GCGCCTCCACCTTCAGCTTTTTGGGCTTCGGCTCCTCCTCAGCAGCTGCCATCTTCGCGCTCCACCCCACTTTG
GCTCTACAGCCCACCTCTGCCATCCACTCTCTGGTCCCGCCCCCTCTTCGCATCACCGCTTCTCTTCTCCAAAT
CCCGCCCCCTCCAGACTCCGCCATTCTGTGCCGCTGTCATCCACAATCATTGGCTCTATCCGTCGGCACCAACAG
CGAATGCCCCGCCCATTCCTGACCCCGCCTCCCCTACCATTGA

5000/5332
FIGURE 4336

ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTGTGAGC
CAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACCTGTCATTCA
ACACCTCACCCTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCATACAGACCGAAGTGCCA
CCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGACTACTTTGGTGAGTGTTGAGAGGCT
GCAATTAAGGATAATGTGGTCATAGTATATGAACTCTTAGAAGAAATGTTAGACAATGGATTTCCACTGGCTACC
GAATCTAACATTTTGAAAGAATTGATTAAACCACCAACAATTCTACGCTCTGTTGTCAACTCTATTACAGGCAGT
AGTAATGTTGGGGACACACTCCCCACCGGGCAGCTGTCCAACATACCATGGCGTCGGGCAGGGGTAAAGTACACA
AACAAATGAAGCCTATTTTGATGTTGTTGAAGAAATAGACGCAATTATAGATAAATCAGGCCTTTCTGGGACACTT
CTGGTTCTCAGTACCTTTGAGCAAAGCAACTGCAATAGCCTGCAGGTGTCTCAAGAAGGTTGCAACTGCAAGCTG
TTAGGAGAGAAGCATGCAAGCGCTGGGGCAGGGATGCATGGAGCTCATAAAGGACATCCAAGAGGATCTGAGGGC
ATCACGGCAGAGAAGTGGCAGCTTTCCTCTGCAGATCCTCAGAACACATGTTGTCAATTTAATTAA

5001/5332
FIGURE 4337

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAAGTTCAT
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCTAAGAC
AGAAATTCGGGAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTGAGAACTCA
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGTGAGCTGGAGATTGGATCACAGC
CGAAGGAGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAA
AACTTCATGTGT

5002/5332
FIGURE 4338A

ATGGTGAAGGAGCAGTTCCGGGAGACGGATGTGGCCAAGAAAATAAGCCACATCTGTTTTGGAATGAAGTCACCT
GAGGAGATGCGCCAGCAGGCGCACATCCAAGTTGTGAGTAAGAACCTGTACAGCCAGGACAACCAACATGCCCCC
TTGCTATATGGGGTGCTCGACCATAGGATGGGTACGAGTGAGAAGGATCGTCCATGTGAAACCTGTGGGAAAAAC
TTGGCTGACTGTCTAGGCCAQTATGGGTATATCGACCTGGAGTTGCCGTGTTTTCATGTAGGGTACTTCAGAGCA
GTCATAGGCATCTTACAGATGATCTGCAAAACCTGCTGCCACATCATGCTGTCCCAAGAGGAGAAGAAGCAGTTT
CTGGACTATCTAAAGAGGCCCCGGCCTGACCTACCTTCAGAAGCGAGGACTGAAAAAGAAAATCTCTGACAAGTGC
CGGAAGAAAAACATCTGCCATCACTGTGGCGCTTTTAATGGTACCGTAAAGAAGTGTGGACTGCTGAAAATAATT
CATGAGAAATACAAGACCAACAAAAAGTGGTGGATCCCAATTGTATCAAATTCCTTCAGTCTTTTGAAACAGCC
ATTGAACATAATAAGAAGTGGAGCCTCTGCTGGGAAGGGCACAGGAAAACCTGAATCCCTTAGTAGTTCTGAAT
TTATTTAAACGAATCCCAGCTGAAGATGTTCTCTACTTCTGATGAACCCAGAAGCCGGAAAGCCGTCTGATTTG
ATTCTCACACGACTTTTGGTGCCTCCTTTGTGTATCAGACCCTCCGTTGTGAGTGATTTGAAGTCTGGCACCAAT
GAAGATGATCTGACAATGAACTGACAGAAATCATTTTCTTAAACGATGTTATTAAGAGCATCGGATCTCAGGA
GCCAAGACCCAGATGATCATGGAGGACTGGGATTTCTGTCAGCTGCAGTGTGCCCTCTACATTAACAGTGAGCTC
TCGGGCATTCCCCCTCAACATGGCACCCAGAAGTGGACCAGAGGCTTCGTCCAACGCCTGAAGGGAAAAACAGGGT
CGATTTAGAGGAAATCTCTCAGGAAAGAGAGTGGATTTTTCTGGCAGAACAGTCATCTCGCCCCGACCCCAACCTC
CGGATTGATGAGGTAGCTGTGCCAGTTCATGTGGCCAAAATTCTAATTTTTCTGAGAAGGTAAACAAAGCAAAC
ATCAATTTCTTGAGGAACTGGTTCAAAACGGCCCTGAGGTTACCCAGGAGCAAACCTTCATTTCAGCAGAGACAT
ACGCAGATGAAAAGGTTTTTGAATACGGAAATCGAGAAAAGATGGCTCAAGAGCTCAAGTATGGTGACATCGTA
GAGAGACACCTCATCGATGGAGATGTGGTGCTGTTCAATCGGCAGCCCTCGCTGCACAAATTGAGCATTATGGCT
CATCTGGCCAGGGTCAAGCCCCACCGGACCTTCAGATTTAATGAGTGTGTCTGTACACCCTATAATGCTGACTTT
GATGGTGATGAAATGAACCTTCATCTTCTCAACAGAAGAAGCTAAAGCAGAGGCCCTTGTTCTGATGGGGACT
AAAGCAAATCTTGTAACCCCGAGGAATGGGGAACCGCTGATTGCTGCTATTTCAGGATTTCTAACAGGTGCCTAT
CTCCTCACTCTCAAGGACACTTTCTTTGATCGAGCCAAGGCTTGCCAAATCATTGCTTCAATACTGGTTGGCAAG
GATGAGAAAATTAAAGTTTCGCTCTCCACCGCTACAATCCCTAAAGCCTGTACCCCTGTGGACGGGAAGCAGATC
TTCAGTGTATCCTCAGGCCTAGCGATGACAATCCAGTGAGGGCCAACCTGCGAACCAAGGGCAAGCAGTACTGT
GGCAAAGGGGAAGATCTCTGTGCCAATGATTCCATGTTACAATCCAGAACAGTGAGTTGATGAGTGGCAGCATG
GACAAAGGAACCTTAGGGTCAGGATCCAAGAACAAATATTTTTTACATTTTGCTGCGAGACTGGGGACAGAATGAA
GCTGCAGATGCCATGTACGGCTCGCCAGGCTGGCTCCTGTCTACCTGTCTAACCGTGGTTTCTCAATTGGGATC
GGTGATGTACACCTGGCCAAGGACTGCTGAAGGCCAAGCTGCAGCAGCAGCCTGGCTGCACTGCTGAGGAGACCTGGAGGCA
GAGTACATCGAAGCCCTGAACACGGGCAAGCTGCAGCAGCAGCCTGGCTGCACTGCTGAGGAGACCTGGAGGCA
CTGATCCTGAAGGAGCTGTCTGTGATCCGTGACCACGCTGGCAGTGCTGCTCCTCCGGGAGCTGGACAAGAGCAAC
AGCCCCCTCACCATGGCTCTGTGCGGCTCCAAAGGTTCCCTTCATTAACATATCACAGATGATTGCCTGTGTGGGA
CAGCAGGCCATCAGTGGCTCTCGAGTGCCAGACGGCTTTGAAAACAGGTCCTTGCTCATTGTTTTGAAAAACACTCA
AAGCTCCCAGCTGCCAAAGGCTTTGTGGCTAATAGCTTTTATTCCGGTTTGACACCAACTGAGTTTTTCTTCCAC
ACAATGGCCGGCCGGGAAGGTCTAGTCGACACGGCTGTAAAGACAGCTGAAACGGGATACATGCAGCGAAGGCTT
GTCAAATCTCTTGAAGATCTTTGCTCCAGTATGATCTGACAGTCCGAAGCTCTACTGGCGATATTATCCAGTTC
ATTTATGGAGGAGATGGCTTAGATCCTGCAGCTATGGAGGGAAAAAGATGAACCTTTGGAGTTTAAAAGGGTTCTG
GACAACATCAAAGCAGTCTTCCCGTGTCCAGTGAGCCTGCTCTCAGCAAAAACGAGCTGATCCTGACCACAGAG
TCCATCATGAAGAAGAGTGAGTTCTCTGTGCTGCCAGGACAGCTTCTGCAGGAAATAAAAAAATTCATTAAGGGG
GTCTCTGAGAAGATCAAGAAAACAGAGATAAATATGGCATCAATGATAACGGCACAAACAGAGCCCCGTGTGCTG
TACCAGCTGGACCGCATACCCCCACCAAGTAGAAAAGTTTCTGGAGACCTGTAGGGACAAGTACATGAGGGCA
CAGATGGAGCCAGGTTCTGCAGTGGGTGCTCTGTGTGCCAGAGCATTGGTGAGCCAGGCACCCAGATGACCTG
AAGACTTTCCACTTTGCAGGTGTGGCCTCCATGAACATCACCTGGGCGTGCCCCGGATTAAAGAGATCATCAAC
GCTTCCAAGGCCATCAGCACTCCAATTATCACAGCACAGCTAGACAAGGATGACGACGCGGATTATGCTCGCCTC
GTGAAAGGGAGAATTGAGAAAACCTCTTGGGAGAGATTTCCGAGTATATTGAAGAAGTGTCTTCTCTGATGAC
TGCTTTATTCTCGTCAAGCTCTCCTTGGAAACGGATTAGGCTTCTGAGACTGGAAGTGAACGCTGAGACAGTGAGA
TATTCCATCTGCACATCCAAGCTCCGTGTGAAGCCGGTGATGTGGCTGTTTCATGGTGAGGCTGTGGTGTGTGTC
ACCCCCAGAGAGAACAGCAAGAGCTCCATGTACTACGTGCTGCAGTTCCTGAAAGAGGATCTCCCAAGGTGGTG

5003/5332
FIGURE 4338B

GTGCAGGGCATTCCAGAGGTGTCCAGAGCTGTCATCCACATTGACGAGCAGAGTGGAAAGGAGAAGTACAAGCTT
CTGGTGAAGGTGATAACCTGCGGGCAGTCATGGCCACACACGGTGTGAAGGGCACCCGAACCACTCCAATAAC
ACCTATGAGGTGGAGAAAACTCTGGGCATCGAGGCCGCCCGGACAACGATCATCAATGAAATCCAGTACACCATG
GTGAACCACGGCATGAGCATCGACAGGAGGCACGTGATGCTGCTCTCCGACCTCATGACCTACAAGGGTGAAGTC
CTGGGCATCACTAGGTTTGGCCTGGCCAAGATGAAGGAGAGTGTGCTGATGCTGGCCTCCTTTGAGAAGACGGCT
GACCATCTCTTTGACGCTGCCTACTTCGGGCAGAAGGACTCTGTGTGTGGGGTGTCTGAGTGCATCATCATGGGA
ATCCCAATGAACATTGGAACCGGGCTCTTCAAGCTGCTTCACAAGGCTGACAGGGACCCGAACCTCCCAAGAGG
CCCCTGATCTTCGACACAAATGAATTCCACATCCCCCTTGTCACATAG

5004/5332
FIGURE 4339

GTGTGTGGGTGTGTGTGTGAACTTTCATTTCCAATTCTCACAGACTGGTATTTAGCCAAATACACTGACAATTC
CTAGAGAGATGAAAATTTAAACTCTAAGTCTTGCAAAAGGTAAGCTCTATTTTTTCTTGTAGATTCAACAGA
CATAAAATTACGACGTCCTGTTTCCATAGCAGTTTCTAGACACTCACTGTCAATTTCTGAGCATGCCTTGTGCA
GTAGGGGCTTGGTTTGTGTCCAGGTGCTGTTATGTGGAGCACACTGGAGTACCCCTGGCCTGGTGTCTATAGACC
CCTTTGTCAAACCTCTATAGTACAGGGCTGGCCCAAGTTGGCGCCATCATCTTTCTGTGACTCTCCTCTTGCCCA
TGAGCTATCTGGCTCCTTAAACTTGTGCTTTCCTGCAGAATCCTGCTAATGATTAGACCACCGCCACATGTCCTC
CAAACCTTCTTCTGATGCCCTGGGATTCCCCCAACCATTGCAAAACCAACCCAGGGTGTTAACTGCAGTGGGGTG
GGCAGTTTACATATGAGTGATCAACTCAAGAGGGGCAATTTTCTTTCCAGTTTCTGTGGTGAAGGAGAGTCA
GGTGGGGATGGAGCAGAGTGCCAAGGAGCACAAAGCAGACAGCCACACAGTAGAAAGAGTGCAAGCTGTACTGCC
TTGCCCTCAAACCTGGGGTCTTACTCTGAGCTGAATGACGTGTCTGGGGGGCTCTTTGCAGGGGTATCCAGGGA
GGAGCCCTGTCAAGCATTGCACTCAGATCTTGGCAATGGTCAATCAAGAACAAAATAAAGTCTGTGGATTCCA
GCCTGCCCGCTCTAGGAGAATGCTGTGCTGTGGATGACTGCAGCTGGCCGCCTGAGGGGACACCAGACTCAGCTC
TTTTCTAGCGACTGAAAGTAGAAGTCTGTCCGTCTATGAACATGCGGGGAAGGATCCGGAACCCAGGACCCAGAA
GCACCTCCTTTGTAGACAGAGGGCCACGGCTGCGTGCGATCCAGGCCCAGGCCACACACTCTGCCCGTGTCA
CGTGTGCTTTAACACAAAACAGATAACACTAAAGACGGGTTACAGACCCACCTTCTTTAGCCAGCTGATCAGAG
ATGCTGCAAAGAGAACCTTTCGGATCACTCGTTTACAAGCCTTTTCTAAGTATTTGGTGGTTTATGTTTACTTGA
ACGGCTCCATGTTGCCGGTGCCAGCCCCCTGTCCCTCTGTCAACCCCCCTGTCGCTTTGGTGTGGTTTCGTTCC
CGTCTTCAGCAAAACGACCTTGGAAACCTCAATGGGGGCTGCTTTGCTTTGGGAGGTTCTTGTGGTGGGACCAGA
GCTTTTGACAAACCTCCTGCTCCTTGGTGGCACCTCTCCTGGAAGGACGTCACAACTCCAGGTGCTCAGACTGCCT
GTGGCAGCAGAACCAGTGCCCTTGGCATTTCCTCCCAATGGGGAAGGTGACTTTGGCATTCTTACAACTCG
TCTCTCGGCCTTTCTCCTGCCTTCCACAGCCTCTCGTTTCTCCTCCATCTGTGCTTATTACTTGAGGACTGTG
TCTGCTCCGTGAGAGCTGCGTGGGCAGGGCTGCAGTGGGGTCCAGGTGGTGTTCAGCTGTGCTGATGCCTGCCAT
TGGGTCTCCTTAGGCTCTGTAAGTCGTGACAGCCTTATCAGTGCAATGTTTGCAGGGTAATTCTTAACTTTT
TAGAGGGTGGCAGGTACATCAGTTCTTTTGTATATGAAAACATTGTTTCAGACATTGAATTGAGAGCTTTTA
GGGGAAGCATAATGTTTATTGTCACTATCAACAGTCTAAAAAGAAAACTGAGGTCTTTTAACTTTGATTACAG
CACTCACGGCATGCACCCTACTCAGTGTGGGTGTCTTCGTTTGGGGGCTTTTTTTTTTTTGCACCTTCTGAGGCT
AGATATGTCTGGCTGAAGATTGATGTGGTTCCCTCCTTAAGCTATGCGTCCTGTTAATAATAGGTACTGTACTGG
GCTCTGTGTAAGTGTGTTGGGGTAGGACCTATATTTTAACTGTTTCTAACATTTCATTTTACTAGCGAGAAA
TCTTTGATTTTCATTTTATTCTTTGTAATTCTAGACACTAGATTGTAGTTTAGCCATAACTGATGTTTTTTAAAA
GGGATATATTTTCTTGACAGTTGTTCAAAAAAGAGACAAGTTTCAGTCCTCAATGCTGTCTTTGTTTTACAGG
TACAAGTTTTCTAGCTCAGACAACTATGAAAACTGTAGACTATTCTCAAGGTATTAACTCGCAGACCCCTCTGG
GGGTAGGGGCTGTTTTCTAAGTTACAGGCAGAGTGGGACTGAGATGGTACAGTGTGCACAGACAGGTACTGAGCT
GACAGACTGGGATTTCTGTACTAAAATGTTACTTTGTATCAAAAGTTAAACAGGCTTTAGTACAACAAATAAAG
GTCAATTTCTGT

5005/5332
FIGURE 4340

ATTTTAAAGCCAGTCCCAGCAGGTCAAATGATAGTTTCTCCATCAAGCAATATTTCCACTTCAACTTCCACTCTT
CAGAGCCCTGTGGGAGCTGGCACACACACTGTACAAAAATTCAAGTCTGGCATAACTGGGACAGTCATATCGGCT
CCTTTAAGCATTCCCATCAGCCAGCCATGCCCCTAGATGAAGACCCCTCCAAAGTGTGTAGACATAGTCTAAAA
TGTTTGGAGTGAATGAAGTCTTCAGTATGAGACATCAATGGCTACACATTTCCAGCAGGCTGCAGATACACGTG
GACAAAAGACTTGCACTATCTGCCAGATGCTGCTTCCCTAACCAAGTGCAGTTACGCATCACACCAGAGAATCCATC
AGCACAAATCTCTCTACACCTGCCCTGAGTGGGGGCCATCTGCAGGTCGGTGCACCTCCAGACCCATGTCACCA
AGAAGTGTCTGCACTACATGAGGAGAGTTGGTTTTTCGATGTGTGCATTGCAATGTTGTATACTCTGATGTGGCTG
CCCTGCAGTCTCACATTCAGGTTCTCACTGTGAAGTCTTCTACAAGTGTCTATTTGTCCAATGGCATGTAAGT
CCGCCCCAAGCACACATTCCCACACCTACACACAGCATCCTGGCATCAAGATAGGAGAACCAGAAATAATATATA
AGTGTTCATGTGCGACACTGTGTTACCCCTGCAAACCTTGCTGTATCGCCACTTTGACCAACACATTGAAAACC
AGAAGTTGTCTGTTTTCAAGTGTCCAGACTGTTATCTTTTATATGCACAGAAGCAACTTATGATGGACCATATCA
AGTCTATGCATGGAACATTGAAAAGTATTGAAGGGCCTCCAACTTGGGTATAAACTTGCCTTTGAGCATTAAAGC
CTGCAACTCAAAATTCAGCAAATCAGAACAAAGAGGACACCAATCCATGAATGGGAAAGAGAAATTGGAAAAGA
AATCTCCATCTCCTGTGAAAAAATCAGTGGAAACCAAGAAAGTGGCCAGTCCTGGGTGGACGTGTTGGGAGTGTG
ACCGCCTGTTTCAATTCAGAGAGATGTGTACATATCCCACGTGAGGAAGGAGCAAGGGAAGCAAATGAAGAAACATC
CCTGCCGCCAGTGTGACAAGCTCATCCCACAGCCTGTGCCAGCACAAACCGGATCAAGCACAAAGGCATCAGGAAA
GTGTATGCCTGCTCGCACTGCCCAGACTCCAGACGTACCTTTACCAAACGATTGATGCTAGAGAAGCACGTCCAG
CTGATGCACAGCCTCAAGGACCCCTGACCTGAAAGAAATGACAGATGCCACCAATGAGGAGGAAACAGAAATAAAA
GAAGACACCAAGTTCCCCAGTCCCAAGTGGAAAGTTGGAAGAACCAGTTCTGGAGCTCAGGCCTTCTGAGGAGCA
ATCACTCAACCACTGAAAAAGCTGAAAAATCAATGTTTTTAAGGTTCTCAAGAGTGCCATGTGTGGCTTCACCACC
GAAAACCTGCTTCAGTTCCACGAACACATCCCTCAGCACAAATCTGATAGTTCTTCTACCAGTGCCAGGAGTGT
GGCCTCTGGTACACGTCTCACGTCTCTCTGTCCAGGCACCTCTTCATTGTACACAAGTTAAAGGAACCTCAGCCA
GTGTCCAAGCAAAATGGAGCTGGGGAAGATAACCAACAGGAGAACAAACCCAGCCATGAGGATGAATCCCCCAAT
GGCACCGTGTGACAGAGAAAGTGCAAGTGTGCGTGAAAACCTTTTGAACTGAAGCTGCCTTAAATACTACTCATG
CGGATACATGGCATGGCCTTCATCAAATCCAAAGGATGAGCTCAGCCAAGAAATAGCCACAGAAAGGTACATGAG
GAAAATCCCTGTCCACATTGGAATAAAAAAGATATTTTTGTTACAAAAGTTTGCAATAATAAACAGTACTGT
CTAGGCTGTTGCAATATGTTCTCTTTCAACGTACCTTCCTTCACCTCGTTGTATATATCCTCGATAAGTAGTAAA
ACAGTATTTGAGTTTCAAAGAGTTTGTATAGATTTAAATGAATAACTTTTTTATACTGTTTGTACACATTTGTAT
CAGTATTTAGTGGCAAACGATTTGAGTTGTTTGGGTCAGAAATTTTCTTTTTGTACTGTTTCTTTAAACAGAG
TTCTTAGTAACAGGGGCAGCTCCTGAATTCAAATAAACCATTTTGTATGTTTGGATTTTGAAGAGGTTAACTAAT
TACAGGCTAAAATAATGCCTTTTTTTAGTGTTTTTAATTTTTAGAAATACACTACATAAATGTAAAGTAATTGTGGG
TCTCAAAAACCCTAGGAACTTTTAAGTGTCTTAGCACTTCCTCGATGTGCCTGCCCTGAAGGAGTGAGCTCACAT
GTGAGACAACCTGCACTCCAGTGTGGGCGTGCCTTTTTCTTCAGGCCATGCGAAGGGTGTAAAGCAGCCTTGCA
GGTCGCTCCTTTCCCAGCCGTGGATAAAAACTGAAGCCAGGAATCTAATAAGGAATGCTGATTTCTCAATTCCA
TTTTGGGGCATGGGGAAGGCTGTTCTAAAGAAAAAATGGGACTGGTTTTCTAGGCAGATCTGCAAGGCTGGCTT
TAAAAGCACAAAGGAGGGAAGTAACGAAAGGGCTGGACTACTATAAAAGTTACAAATACGTAGTTAGACCAATAG
ATTTATATAGTCAGGTTTTTGTATGTAATTTATTAACATTACAGAAACACAATAAGAAATCAAGTATTTCT
CTGGCTCTTGACAGAAAAAATCAGTTGACTTAACCCCTTGCTGTCAAAGAGTTGGCATTGCCTGTTCTAGG
TGCTACTGCCAAATGTTCTGATACTTAGAGTTGGGATGCACAACGTCAACCACTGACTTCTCAATGCAGCCGCT
GTGTATTGCAATTGGCCGTTACCTTAAGCGCGGGGCCACCCGGGTTAGTTTCAGCCATTTCAAGAAGTATATTTA
ACGTCGGTAGTTCTGCTTTATTAATAATGCAGCAGAGGTACTCTCTGTCCCTTCCGTTTATAGTTCTCTGAGAGA
GTTCTATTTTTTGGTTTTGTTTCGTGTTTTCTTTTGCAATTCATATCTTACATTTATCCCTGAACATGTTTTGTA
CTTTTTTTTGTGTGAAGAAAGGAATCTTTTGTGTATCTATAGATACTTGCAATGATCTACTGTAGTCAACGTT
CGGTTCTCAAAAGGCTTGCTGCTGTGAGGTGTTATGCACTCCATCCATAATAACTGTGTGAAACACATTTTCAT
ATGTAAATAAACGTGGGACATTTGGCCC

5006/5332
FIGURE 4341A

AGCCCCGTGCTGATCCCATTCCAATATGTAGCTTCTGTTTGGGGACTAAAGAATCAAATCGTGAAAAAGAAACCAG
AAGAACTCCTCTCTTGTGCAGATTGTGGCAGTAGTGGACACCCATCCTGTTTGAAATTTTGTCTGAATTAACAA
CAAATGTAAAGGCCTTAAGGTGGCAGTGCATCGAATGCAAGACATGCAGTGCCTGTAGAGTCCAAGGCAGAAATG
CTGATAATATGCTTTTTTGTGATTCTGTGATAGAGGATTTTCATATGGAATGCTGTGACCCACCCTTTCCAGAA
TGCCAAAAGGGATGTGGATTTGCCAAGTCTGCAGACCAAAGAAAAAGGGAAGAAACTACTTCATGAGAAAGCTG
CACAAATAAACGACGATATGCAAAACCCATTGGACGACCGAAAAATAAATTAAAGCAACGATTGTTGTCTGTAA
CCAGTGATGAAGGATCCATGAATGCATTACAGGAAGGGGGTCACTGGTAGGGGTCAAAGACTAAAGTCTGTAA
CCACACCTTCATCTGGTTCATGCTGCATCTGGGAAGGACTCAAGCAGCAGATTGGCTGTTACAGACCCCACTCGGC
CTGGTGCCACCACCAAATCACCACCACCTCCACCTACATTTCTGCCTCTACACTTAAAGTTAACAAGAAAAACCA
AAGGGCTCATTGATGGCCTTACTAAGTTTTTACACCATCACCTGATGGTTCGAGATCACGAGGTGAAATTATAG
ACTTTTCAAAGCACTATCGTCCAAGGAAAAAGGTCTCTCAGAAACAGTCATGCACCTTCTCATGTGTTGGCTACAG
GTACCACACAAAAGCTAAAACCTCCACCTTCTTCACCTCCACCCCAACCCCATCTCCGGTCAGAGCCCCAGTT
CACAAAAGTCCAGCACGGCCACTTCTTCTCCCTCTCCCCAGAGTTCTTCCAGCCAGTGCAGTGTGCCCTCCCTGA
GCAGCCTTACCACTAACAGCCAGCTGAAGGCACCTTTTGATGGGCTTTCTCATATCTATACCACTCAGGGACAGT
CTCGCAAAAAGGGACACCCGAGTTATGCACCACCCAAACGTATGCGTCGTAAAACCTGAATTATCTTCCACGGCAA
AATCTAAAGCCCACTTCTTTGGCAAAAGAGATATTAGAAGTCGGTTTATTTCTCACTCCTCCTCTAGCTGGG
GGATGGCTAGAGGAAGTATTTTAAAGCAATTGCTCACTTCAAGCGAACAACCTTTCCTTAAAAAGCACAGGATGC
TAGGCAGATTAAAAATATAAAGTGACCCCTCAGATGGGGACCCCTCACCAGGGAAGGGGAGCTTGACAGACGGAA
GGATTAAACCTGATCAGGATGATGATACTGAAATAAAAAATAAACATCAAACAAGAAAGTGCAGATGTAAATGTGA
TTGGAACAAGGATGTCGTTACTGAAGAGGATTTGGATGTTTTTAAGCAGGCCCAGGAACCTTCTTGGGAGAAAA
TAGAGTGTGAGAGTGGGGTGAAGACTGTGGCCGGTACCCTTCTGTGATTGAATTTGGTAAATATGAAATCCAAA
CCTGGTACTCCTCGCCTTACCCACAGGAATATGCAAGATTACCAAAGCTTTACCTGTGTGAATTTCTGTCTTAAAT
ATATGAAAAGTAAAAATATTTTGCTAAGACACTCCAAGAAGTGTGGATGGTTTCATCCTCCAGCAAATGAAATTT
ACCGAAGGAAAGACCTTTTCACTATTTGAGGTTGATGGGAATATGAGCAAAATTTATTGCCAAAACCTTTGCTTGT
TAGCCAAGCTCTTCTGGACCACAAAACGTTGTATTATGATGTGAGCCATTCCCTTTTTATGTCTTACAAAAA
ATGATGAAAAGGGCTGTCTATCTGGTTGGTACTTCTCTAAGGAAAAGCTTTGCCAGCAGAAATATAATGTCTCCT
GCATAATGATCATGCCCCAGCACCAAAGGCAAGGATTTGGACGGTTTCTCATTGATTTCAGCTATTTGCTTTCTA
GAAGAGAAGGCCAAGCAGGGTCTCCTGAAAAGCCTCTCTCCGATCTGGGCCGTCTCTCTACCTGGCATATTGGA
AGAGCGTCTATCTTGGAGTATCTCTACCACCACCATGAGAGGCACATCAGCATCAAAGCAATTAGCAGAGCCGG
GCATGTGCCACATGACATTGCCACCCTCTGCAGCACCTCCACATGATCGACAAGAGAGATGGCAGATTTGTCA
TCATTAGACGGGAAAAGTTGATATTGAGCCACATGGAAGGCTGAAAACCTGTTCCAGAGCCAATGAACCTGATC
CAGACAGTCTGAGGTGGACCCCAATTTTAAATTTCTAATGCTGCAGTGTCTGAAGAAGAGCGAGAAGCTGAGAAAG
AGGCTGAGCGGCTAATGGAACAAGCTAGCTGCTGGGAGAAGGAGGAACAAGAAATCCTGTCAACTAGAGCTAACA
GTAGGCAATCACCTGCAAAAGTACAATCGAAAAATAAATATTTGCATTCCCCGGAGAGCCGGCCAGTCACAGGGG
AGCGAGGGCAGCTGCTGGAGCTGTCTAAAGAGAGCAGTGAAGAAGAAGAGGAGGAGGAGGACGAGGAGGAGGAAG
AAGAGGAGGAAGAAGAGGAAGAGGATGAAGAGGAGGAAGAAGAGGAAGAAGAAGAAGAAGAAATATTC
AAAGCTCTCCCCAAGATTGACGAAACCACAGTCAGTTGCCATAAAGAGAAAGAGGCCTTTTGTACTAAAGAAGA
AAAGGGGTGCTAAACGCAGGAGGATCAACAGCAGTGTAACAACAGAGACCATTTCAGAGACGACAGAAGTACTGA
ATGAGCCCTTTGACAACCTCAGATGAAGAGAGGCCAATGCCACAGCTGGAGCCTACCTGTGAGATTGAAGTGGAGG
AAGATGGCAGGAAGCCAGTCTGAGAAAAGCATTCCAGCATCAGCCTGGGAAGAAAAGACAAACAGAGGAAGAGG
AAGGAAAAGACAATCATTGCTTCAAGATGCTGACCCTGTAGAAACAATATGAATGATGATTCAAGTAACTTGA
AAGAAGGCAGTAAAGACAATCCGAACTCTAAAGTGCAAAACAAGTGTGGCCAAAAGGAACAAAGCGCGGTCTAT
CTAAGTGGAGGCAAAACAAGAGAGGAAGACCGGATTTAAACTGAATTTGTACACCCCGCCAGAAACACCCATGG
AGCCTGACGAGCAGGTAACAGTGAAGAACAGAAGGAGACTTCAGAAGGAAAAACAGCCCCAGTCCCATCAGGA
TTGAGGAGGAGGTCAAGGAACTGGGGAAGCCCTGTTGCCTCAAGAGGAAAAACAGAAGGAAGAAGAAATGTAGAAAAAGATC
CTGTAAGTCAAACACATCACCAGGTGAAAAACCAGAAGATGATCTCATCAAACCTGAGGAAGAGGAAGAGGAGG
AGGAGGAGGAAGAGGAAGAAGAGGAAGAAGAGGAAGGGGAAGAAGAAGAGGAGGAGGAATGTAGAAAAAGATC
CAGATGGTGTCTAAAAGCCAAGAAAAAGAGGAACCAGAAATCTCCACGGAAAAAGAAAGACTCTGCACGTTTGATG

5007/5332
FIGURE 4341B

ATCACGAAGAGGAGGAGGAAGAGGATGAAGAGCCATCCCACAACGAGGACCATGATGCCGATGACGAGGATGACA
GCCACATGGAGTCTGCCGAAGTGGAGAAGGAAGAGCTGCCAGAGAAAGCTTCAAAGAAGTACTGGAAAACCAGG
AGACTTTTTTAGACCTTAATGTGCAGCCTGGTCACTCGAACCCAGAGGTCTTAATGGACTGTGGCGTCGACCTGA
CAGCTTCTTGTAACAGTGAGCCCAAGGAGCTTGCTGGGGACCCTGAAGCTGTACCCGAATCTGACGAGGAGCCAC
CCCCAGGAGAACAGGCACAGAAGCAGGACCAAAAGAACAGCAAGGAAGTCGATACAGAGTTCAAAGAGGGAAACC
CAGCAACCATGGAAATCGACTCTGAGACTGTCCAGGCCGTTCACTCTTTGACCCAGGAGAGCAGCGAACAGGACG
ACACCTTTTCAGGATTGTGCCGAGACTCAAGAGGCCTGTAGAAGCCTACAGAACTACACCCGTGCAGACCAAAGTC
CACAGATTGCCACCACGCTCGACGATTGCCAACAGTCGGACCACAGTAGCCAGTTTCATCCGTCCACTCCCATC
CTGGCCAGTCCGTACGTTCTGTCAACAGCCCAAGTGTCCCTGCTCTGGAAAACAGCTACGCCCAAATCAGCCCAG
ATCAAAGTGCCATCTCAGTGCCATCTCTGCAGAACATGGAAACCAGTCCCATGATGGATGTCCCATCAGTTTCAG
ATCATTACAGCAAGTCGTAGACAGTGGATTTAGTGACCTGGGCAGTATCGAGAGCACAACCTGAGAACTACGAAA
ACCCAAGCAGCTACGATTCTACTATGGGAGGCAGCATCTGTGGAAACGGCTCTTCACAGAACAGCTGCTCCTATA
GCAACCTCACCTCCAGCAGTCTGACACAGAGCAGCTGTGCTGTACCCAGCAGATGTCCAACATCAGCGGGAGCT
GCAGCATGCTGCAGCAAACCAGCATCAGCTCCCCCTCCGACCTGCAGCGTCAAGTCTCCTCAAGGCTGTGTGGTGG
AGAGGCCTCCGAGCAGCAGCCAGCAGCTGGCTCAGTGCAGCATGGCTGCTAACTTCACCCCACCCATGCAGCTGG
CTGAAATCCCCGAGACGAGCAACGCCAACATTGGCTTATACGAGCGAATGGGTCAGAGTGATTTTGGGGCTGGGC
ATTACCCGCAGCCGTACGCCACCTTCAGCCTTGCCAAACTGCAGCAGTTAACTAATACACTTATTGATCATTAT
TGCCTTACAGCCATTCCGCTGCTGTGACTTCTATGCAAACAGTGCCCTCTTTGTCCACACCATTAAGTAACACAG
GGCTTGTTCAACTTTCTCAGTCTCCACACTCCGTCCCTGGGGGACCCCAAGCACAAGCTACCATGACCCACCCC
CCAACCTGACTCCTCCTCCAATGAATCTGCCGCCGCCTCTTTTGCAACGGAAACATGGCTGCATCAAATATTGGCA
TCTCTCACAGCCAAAGACTGCAAACCCAGATTGCCAGCAAGGGCCACATCTCCATGAGAACCAAGTCAGCGTCTC
TGTCACCAGCCGCTGCCACCCATCAGTCACAAATCTATGGGCGCTCCAGACTGTAGCCATGCAGGGTCTCTGCAC
GGACTTTAACGATGCAAAGAGGCATGAACATGAGTGTGAACCTGATGCCAGCGCCAGCCTACAATGTCAACTCTG
TGAACATGAACATGAACACTCTCAACGCCATGAATGGGTACAGCATGTCCAGCCAATGATGAACAGTGGCTACC
ACAGCAATCATGGCTATATGAATCAAACGCCCCAATACCCTATGCAGATGCAGATGGGCATGATGGGCACCCAGC
CATATGCCCAGCAGCCAATGCAGACCCCAACCCACGGTAACATGATGTACACGGCCCCCGGACATCACGGCTACA
TGAACACAGGCATGTCAAACAGTCTCTCAATGGCTCCTACATGAGAAGGTAG

5008/5332
FIGURE 4342

CCCGCGGCCTCGCCATGGCGACCCACGGACAGACTTGCGCGCGTCCAATGTGTATTCCCTCCATCATATGCTGACC
TTGGCAAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGGTTGGTGAACTGGATGTGAAAACAAAGT
CTTGCACTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCTTGGAGA
CCAAATACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAA
TCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGA
AAAGTGGTAAAAATCAAGTCTTCTTACAAGAGGGAGTGATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTG
GACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTG
CCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCA
ATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTT
GGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTG
CAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCT
CTGCTCTGGTAGATGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGGCTTAAT
CCAGCTGAAAGAAACCTTTGGGAATGGATATCAGAAGATTGGCCCTTAATATATTTCCATTGTGACCAGCAGCAG
GCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTAGACAGT
TCTTTGTTAGCTGGTTTCTAGTTGGTTATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATACATTATTTAA
ATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGACCTTTATGAAAACGTGCAATTGTGTGCAT
GTTTGTTTTTATGTTCCTTTAGAAAACATTGACTGTTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAG
GTTACAAATTTTGTTAAGTTTCAAGCATTATTACTTTTGGTATCCAGAACATGACAAATTATGAATAAAACAAGT
ATACAT

5009/5332
FIGURE 4343

GACCTGTCACTGCCTCCCGCCGCTCCTGCCCCGCGCCATGACCCAGCCGGTGCCCCGGCTCTCCGTGCCCCGCCGC
GCTGGCCCTGGGCTCAGCCGCACTGGGCGCCGCTTCGCCACTGGCCTCTTCCTGGGGAGGCGGTGCCCCCATG
GCGAGGCCGGCGAGAGCAGTGCCTGCTTCCCCCGAGGACAGCCGCCTGTGGCAGTATCTTCTGAGCCGCTCCAT
GCGGGAGCACCCGGCGCTGCGAAGCCTGAGGCTGCTGACCCTGGAGCAGCCGCAGGGGGATTCTATGATGACCTG
CGAGCAGGCCCAGCTCTTGGCCAACCTGGCGCGGCTCATCCAGGCCAAGAAGGCGCTGGACCTGGGCACCTTCAC
GGGCTACTCCGCCCTGGCCCTGGCCCTGGCGCTGCCCGCGGACGGGCGCGTGGTGACCTGCGAGGTGGACGCGCA
GCCCCCGGAGCTGGGACGGCCCCCTGTGGAGGCAGGCCGAGGCGGAGCACAAGATCGACCTCCGGCTGAAGCCCCG
CTTGGAGACCCTGGACGAGCTGCTGGCGGCGGGCGAGGCCGGCACCTTCGACGTGGCCGTGGTGGATGCGGACAA
GGAGAACTGCTCCGCCTACTACGAGCGCTGCCTGCAGCTGCTGCGACCCGGAGGCATCCTCGCCGTCCTCAGAGT
CCTGTGGCGCGGGAAGGTGCTGCAACCTCCGAAAGGGGACGTGGCGGCCGAGTGTGTGCGAAACCTAAACGAACG
CATCCGGCGGGACGTCAGGGTCTACATCAGCCTCCTGCCCCCTGGGCGATGGACTCACCTTGGCCTTCAAGATCTTA
GGGCTGGCCCTAGTGAGTGGGCTCGAGGGAGGGTTGCCTGGGAACCCAGGAATTGACCCTGAGTTTTAAATTC
GAAAATAAAGTGGGGCTGGGACACACG

CTTGGACGCGCGCGCGCGCGCGGACGCGTACATCCCTTGACCCTCCAATACACTCGGGCTCCCATTTG
ATTGGAAGGCGGCAAAGGCTTTAATCTCCCCCTTGGTGCAGCTGCTTTTGAAGTGAGTTTCTCGCCAGAGCCCG
GGCTGGACACGCAGCGGCTCGCATCGCAGAGCGCAGCGCCGCGCGGGGCCGCGAGAACGCAGCGCAGGGGAGCA
GCCCGAGGCGGACACCGCGAGCCGCCCGGCACTCCCGCAGTCCAGCCGGCTCCTCTAGCCCCGCCACGGCTCCGC
TGGCGGGCCACCCAGGATTACTCGCGTCTGGCTCCAGGCGCCGAGAAGGCGCGCTGGGCGCCCCGTGGCCGCCGCGC
CAGCTCCTCCTCCTCCCGCTGCTCCTGCTCCCGGGGCGAGCGCGCAGCCCCGAGCCCGCCCCGCGCCTCCCGGAG
CCCTCCCCCCCCGCTGCTCCCATGCGCGCGGGTGGGTCAATGAGCACAGCGCCCTCGCTTTCTGCCCTAAGAAGCAG
TAAGCACAGCGGCGGCGCGCGCGGCGGAGGCGGAGGCGGCGGTGCAGACCTCGCTGGACCAGCGCGCTCTCTGG
AAATAGCTCCGGCCCCGGCCAGGCTCGTCCCCGGCCGGCAGCACCAAGCCTTTTGTGCACGCCGTGCCCCCCCTC
TGACCCCCCTGCGCCAGGCCAACC GCCTGCCAATCAAGGTGCTGAAGATGCTGACGGCACGAACTGGCCACATTTT
GCACCCCGAGTACCTGCAGCCCCCTGCCTTCCACGCCGGTACAGCCCCATCGAGCTCGATGCCAAGAAGAGCCCGCT
GGCGCTGTTGGCGCAAACATGTTTCGACAGATCGGGAAGCCCCGACCCCTCGCCCTCCTCCAAACTCTCCTCGGTTGC
CTCCAACGGGGGCGGCGCGGGCGGTGCCGGCGGGCGGTGCTGCGGGCGACAAGGACACCAAATCGGGCCCCCTGAA
GCTGAGCGACATCGGCGTGGAGGACAAGTCGAGTTTCAAGCCGTA CTCCAAACCCGGCTCGGATAAGAAGGAGCC
GGGAGGCGGCGGTGGAGGCGGTGGCGGTGGCGGGGGCGGCGCGGGGGTGTTCGTGGAGAAGTCGGGATTCCG
GGTACCGAGCGCCACCTGCCAGCCATTACGCCCCAGGACAGGCAGCCGAGCTCCAGCGCCTCGGCATGCTGCGA
GAGAGTATGCTGTCTCGCGCGGGGTGCCCGGGAGGGCAAGTACGACAAGAAAGACACTGTCTGGGGCGGGCGG
TGGCAAGGGCACCGGGGCGCCTCGGCCGAAGGGGGACCCACGGGGCTGGCACAGCGCCGATAGCTGCGGGCGG
CGGGATTAATGTGGATGTGAACACGATCCGGATGGGGGCCCGGGAGGCAAGGCTCTGGGCTCGGACTGCGGCGG
TTATCGGGCTCCAGCTCCGGCTCCGGCCCCAGCGCGCCACCTCCTCCTCAGTGTTGGGCTCTGGGCTGGTGGC
TCCCGTGTACCCCTACAAGCCGGGGCCAGACAGTGTTCCCTCTGCCTCCGCGGGTATGACCTACCCAGGCAGCCT
GGCCGGGGCTACGCCGGCTACCCGCCCCAGTTCTTGCCACACGGCGTGGCACTTGACCCACCAAGCCGGGCAG
CTGGTGGGGGCGCAGCTGGCGGCGGCCGCGGCGGGTCTCTGGGCTGCAGTAAGCCGGCCGGCTCCAGCCCTT
GGCCGGAGCGTCTCCGCCGTCCGTGATGACAGCCAGTTTGTGCCGGGACCCCTACTGCCTCAGCTACCACTGCGC
TAGCCACCTGGCAGGGGCGGCGGCCGCCAGCGCTTCTTGCGCACATGATCCGGCTGCTGCGGCTGCGGCGCTGAA
GTCCGGATAACCCGTGGTGTACCCACGCACCCGCTGCACGGTGTGCACTCCTCGCTAACGGCCGCCGCGGCTGC
TGGCGCCACACCGCCCTCCTTGCCGGCCACCCCTCTACCCCTACGGCTTTATGCTCCCTAACGACCCACTCCC
CCACATCTGCAACTGGGTGTGCGCCAACGGGCCGTGCGACAAGCGCTTCGCCACGTCCGAAGAGCTGCTGAGCCA
CTTGCGGACCCATACGCAATTTCCCGGGACAGACAACTGCTGTGCGGCTACCCAGCTCGTCTCTTGCCAG
CGCTGCCGCGGCCGCCATGGCTTGCCACATGCACATCCCACCTCGGGCGCACCGGGCAGCCCTGGGACGCTGGC
GCTGCGCAGCCCCACCACGCGCTGGGACTCAGCAGCCGCTACCACCCCTACTCCAAGAGCCCCGCTTCCACGCC
TGGCGCCCCCTGCCGGTGGCCGCCGCCACCGGACCGTACTACTCCCCCTACGCCCTCTACGGACAGAGACTGAC
CACC GCCTCGGCGCTGGGGTATCAGTGAAGGCGGCGCGGGAGGGCGAGCGAGGGAGAGGAGGGGAGGGG
AGGAGTCCAGGGAGAGGCGGGATCACGGCCAGGCTGCTGACACCCGCGCGTGGGGAGGACTCGGGCCACGAAAG
GAAAGAAATGTATACCGTATCTATCTACCCGACAGCAGCGACCGAGACCCGGTGGGACACTCCCCTTCTCCCCAC
TTTACCTCCCCACCCAACTTTATAAAAGTTGAAAAAATATCATTGTACTTTTTATAGAAAAAAAAGGAAAAA
ATAATTGAGAAAGTGTTCACTGAGGACTGCATCGGTGGACACTGGTATTTATTTATGTTAGCTCCAAGCGGACC
GGTGGTTCAAAGTGCAATATTTAGTTTGAGCTCTGTAGGTAAAAAGGAGGTGGGAAAAATTTAAAACTTGAGG
GTAAAAATGTGAAAAACAAACCCTCCCATCCCTTGTAGATTATAAATAAAAGCAAACCGCCACAGAACTAGAGG
TCTTCTCTTTAATGTTACTTTAAATTTGCTATGATTGATTGTACGTTATTTAATGTCTGATTGAAACACAAAT
TACATGCATGTTTGTAC

5011/5332
FIGURE 4345

CCCGCACTCTGCGCCTCTCCTCGCCTTTCTCGCACCTGCTCCTGCGCCAGGCCCGGAGACCCCCGGGGCGGCTTC
CCAGAACCTGCGGAGCACAACTGGCCGACCGACCCATTTCATTGGGAACCCCGTCTTTTGCCAGAGCCACGTCCC
CTGCCACCTCTAGCTCGGAGCGGCGTGTAGCGCCATGGAGAAGAGCAACGAGACCAACGGCTACCTTGACAGCGC
TCAGGCGGGGCTGCGGCCGGGCCCGAGCTCCGGGGACCGCGGCGGGACGCGCACGGCGTTGCGCGGGCTTCCT
GCGGCGCCAAGCGCTGGTGCTGCTCACCGTGTCCGGGGTGCTGGCGGGCGCGGGCCTGGGCGGGCGTTGCGCGG
GCTCAGCCTGAGCCGCACGCAGGTACCTACCTGGCCTTCCCCGGCGAGATGCTGCTCCGCATGCTGCGCATGAT
CATCCTGCCGCTGGTGGTCTGCAGCCTGGTGTCCGGGCGCCGCCICGCTCGATGCCAGCTGCCTCGGGCGTCTGGG
CGGCATCGCTGTGCGCTACTTTGGCCTCACCACACTGAGTGCCTCGGCGCTCGCCGTGGCCTTGGCGTTTCATCAT
CAAGCCAGGATCCGGTGCGCAGACCCCTTCAGTCCAGCGACCTGGGGCTGGAGGACTCGGGGCTCCTCCTGTCCC
CAAAGAGACGGTGGACTCTTTCCCTCGACCTGGCCAGAAACCTGTTTCCCTCCAATCTTGTGGTTGCAGCTTTCCG
TACGTATGCAACCGATTATAAAGTCGTGACCCAGAACAGCAGCTCTGGAAATGTAACCCATGAAAAGATCCCCAT
AGGCACTGAGATAGAAGGGATGAACATTTTAGGATTGGTCTGTTTGCTCTGGTGTTAGGAGTGGCCTTAAAGAA
ACTAGGCTCCGAAGGAGAAGACCTCATCCGTTTCTTCAATTCCCTCAACGAGGCGACGATGGTGCTGGTGTCTTG
GATTATGTGGTACGTACCTGTGGGCATCATGTTTCTTGTGGAAGCAAGATCGTGGAAATGAAAGACATCATCGT
GCTGGTGACCAGCCTGGGGAATACATCTTCGCATCTATATTGGGCCATGTTATTCATGGAGGAATTGTTCTGCC
ACTTATTTATTTTGTTCACACGAAAAAACCCATTTCAGATTCTCCTGGGCCTCCTCGCCCCATTTGCGACAGC
ATTTGCTACCTGCTCCAGCTCAGCGACCCCTTCCCTCTATGATGAAGTGCATTGAAGAGAACAAATGGTGTGGACAA
GAGGATCAGCAGGTTTATTTCTCCCATCGGGGCCACCGTGAACATGGACGGAGCAGCCATCTTCCAGTGTGTGGC
CGCGGTGTTTATTGCGCAACTCAACAACGTAGAGCTCAACGCAGGACAGATTTTACCATTCTAGTGACTGCCAC
AGCGTCCAGTGTGGAGCAGCAGGCGTGCCAGCTGGAGGGGTCTCACCATTGCCATTATCCTGGAGGCCATTGG
GCTGCCTACTCATGACCTGCCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCACGGTGGTGAATGT
GGAAGGGGATGCCCTGGGTGCAGGCATCTCCACCACCTGAATCAGAAGGCAACAAAGAAAGGCGAGCAGGAAT
TGCTGAGGTGAAAGTGGAAGCCATCCCCAACTGCAAGTCTGAGGAGGAGACATCGCCCCCTGGTGACACACCAGAA
CCCCGCTGGCCCCGTGGCCAGTGCCCCAGAACTGGAATCCAAGGAGTCGGTTCTGTGATGGGGCTGGGCTTTGGG
CTTGCTGCGCAGCAGTGATGTCCACCCCTGTTTACCCAGCCGCCAGTCATGGACACAGGGCACTGCCCTTGCCAA
CTTTTACCCTCCCAAGCAATGCTTTGGCCCAGTCGCTGGCCTGAGGCTTACCTCTCGGCACTGGCATTGGGCTCC
CCAGCCGGAATGGTTACCAAGGACAAGGACACTCTGACATTGCGCTTGATCCATGTCCAGGTGCAACTGTGTGT
ACACCAGGGATCTGTTTGGAACAACCCCTTGAGCTGCCAGGCTCAAGAAATCATGGACTCACAGGGTCTGTGT
GGTT

5012/5332
FIGURE 4346

AGGGGGAGTCCGAGCGAAGTCTAGCCAGCGAGTCAGAGGGGAGGGGAGCAGGGAGGGGCCGAGGGTGGGGAGGT
GAGGGAGTGGGGAAATGGGGCGGGCGACAACCCCTTCAGGTACGCATGCCCCAGAGGCGGGCGCTTGGCGGGGAAGC
TGAGTCTTGGCCTTGCGTCGCACTGTCTGTCTCAGCTCGCGTAGCCGCGCTCGCGACTCCCTTTCCCGGCATGC
CAGGCGGTGCGGGCCGCCCTCTGGGCCGTGTAAAGGCCCTCGGTCTAAGGCTTCCCTATTTCTGGTTCGCCGGC
GGCCATTTTGGGTGGAAGCGATAGCTGAGTGGCGGGCGGTGCTGATTGTGTTCTAGGGGACGGAGTAGGGGAAGA
CGTTTGCTCTCCCGGAACAGCCTATCTCATTCTTTCTTTTCGATTACCCGTGGCGCGGAGAGTCAGGGCGGGCGC
TGCGGCAGCAAGGGCGGGCGGTGGCGGGCGGGCAGCTGCAGTGACATGTCCAGCATGAATCCCGAATATGATTAT
TTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTTGGAAAGTCTTGCCCTTCTTCTTAGGTTTGCAGATGATACA
TATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAAATAAGAACTATAGAGTTAGACGGGATCACCTCC
AGTTATTACAGAGGAGCCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAA
CAGTGGCTGCAGGAAATAGATCGTTATGCCAGTGAAGTGTCAACAAATGTTGGTAGGGAAACAAATGTGATCTG
ACCACAAGAAAGTAGTAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGGAATTCCGTTTTTGGAAACC
AGTGCTAAGAATGCAACGAATGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAGGCGAATGGGTCCC
GGAGCAACAGCTGGTGGTGTGAGAAGTCCAATGTTAAATTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGT
TGCTGCTAAAATTTGCCCTCCATCCTTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAAAAACAAAAT
TGCCTGAATTGTACTGTATGTAGCTGCACTACAACAGATTCTTACCGTCTCCACAAAGGTCAGAGATTGTAAATG
GTCAATACTGACTTTTTTTTTTATTCCCTTGACTCAAGACAGCTAACTTCATTTTCAGAACTGTTTTAAACCTTTG
TGTGCTGGTTTTATAAAATAATGTGTGTAATCCTTGTTGCTTTCCTGATACCAGACTGTTTCCCGTGGTTGGTTAG
AATATATTTTGTGTTGATGTTTATATTGGCATGTTTAGATGTCAGGTTTAGTCTTCTGAAGATGAAGTTCAGCCA
TTTTGTATCAAACAGCACAAGCAGTGTCTGTCACTTTCCATGCATAAAGTTTAGTGAGATGTTATATGTAAGATC
TGATTTGCTAGTTCTTCCCTGTAGAGTTATAAATGGAAAGATTACACTATCTGATTAAATAGTTTCTTCATACTCT
GCATATAATTTGTGGCTGCAGAAATATTGTAATTTGTTGCACACTATGTAACAAAACAAGTGAAGATATGTTAAT
AAATATTGTACTTATTGGAAGTAATATCAAACGTATGGTGATAAGTATTGTTTGTATTCTTATGGTTAAAGGGA
AATAGAGCCTTGCAATTATATTCAACACAGCCATTTGTGTGTGCACAATGCAAACTAAGGTATTCTAGACCTATCT
TAGAGCAGCATCCAGTATTTGCTTCTAGATAATATGCCCAATAACATGACCTAGAGGGGCTTCTGTGCTGTGTA
GGGATTTAAACCAACTTCAGTGGTTCAGGGAGCTCAAACCTATATGTAAAACAAGTTTAGAATGTATGCTATCTAGC
CCGTTATCTCTGATCCTTCTCTAAAACCATTTGAAATAGCTTCATTGATCAACATTTCAATAATGCATCTGTGGT
AGAGGTAGAAAGCAGCACCTTCCCTAATTGGCAAATGATCAGACTAATGTGTGCTAATGTTTTCTTCCATGCTT
TCAGTCAGATTCACTATTTTATCCTCCACAGTTGCTTAACCTGGTGTGGAGGAGGGTTTAAGCATTAAGATAG
GAAGCAGGAAATTTGATTGCTCTAAATTTAGAAATTATATCCCTAAAAATTAAACATGAATACTGGGTGGTAAAT
GATAATTGAGGCAAATGTATTATTTTGGTGACATTTTGCATATATGAAGATTTTCTGAAATAGGACCTTCAAGA
TCCTAGGGGGTTTTGTTTGGTTTTTAATTGTGAGGAATAAAAAATCTTCTGCCACACTGGCATTTTAAAGGTGAC
TGAGGTCAAACGTTTGTTCCTTAGGTTGAAATAGCAGCCAAAACATTCTTCACGCAGGGGCTTGGGATATGGCTG
CTGGCAACACATTTTGTGTGGGCTCCTTAATTTAATGATAAAATTTAAGCTAAACACAAGCCAAAAATGAATAG
GTTTTTTTTAATTTTTATTTTCACTAAACAGGCAATTGAAATACATGGTACAAAAATAAGTGGTAAGATAATTGT
AAAATGAAATGGACAGAATATTCAATTTTCCATCTATGAAATTTCAACAATAAAAAATCATAGTTTACTTTGT

5013/5332
FIGURE 4347

AGCTGCTGCAGCTGCAGCCCGACCGGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCC
GCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCTCGCCATGGCGACCCACGGACAGACTTGCGCGCGTCCA
ATGTGTATTCCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTCAACAAAGGATTTGGTTTTGGG
TTGGTGAAACTGGATGTGAAAACAAAGTCTTGCACTGGCGTGGAATTTCAACGTCCGGTTCATCTAATACAGAC
ACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGG
AACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAACTGACATTTGAT
ACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAATCAAGTCTTACAAGAGGGAGTGATAAACCTTGGT
TGTGATGTTGACTTTGATTTTGTGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT
GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG
GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGAT
CTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCCTCGTTTTGGCATTGCAGCTAAATATCAG
TTGGATCCCCTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG
AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG
CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGGATATCAGAAGATTTGGCCTTAAT
ATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGA
GCTGTATTTTAAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGAATTGGTTATCTAGTTACCAATGCTG
CAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGA
CCTTTATGAAAA

5014/5332
FIGURE 4348

GAGAAACGGCCGGCGGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGGGCGGACGATGGACAGC
CAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCGGGTTTGTGAAGTGTGGATATGCAGGCTCTAACTTTCCA
GAACACATCTTCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAG
GATCTTATGGTTGGTGTATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCATA
GTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAACTTAATATAGATACCAGA
AATTGTAAAATCTTACTCACAGAACCTCCTATGAACCCAACCAAAAACAGAGAGAAGATTGTAGAGGTAATGTTT
GAACTTACCAGTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACT
GGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCAGTATATGAAGGCTTTTCTCTCCCTCATCTT
ACCAGGAGACTGGATATTGCTGGGAGGGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCC
TTCAACCCTCTGCTGATTTTGAAACGGTTCGCATGATTAAAGAAAACTGTGTTACGTGGGATATAATATTGAG
CAAGAGCAGAACTGGCCTTAGAAACCACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAAA
GTTGGGGGAGAGAGATTTGAAGCACCAGAAGCTTTATTTAGCCTCACTTGATCAATGTTGAAGGAGTTGGTGT
GCTGAATTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAGATCTGAATTCTACAAACACATTGTGCTT
TCTGGAGGGTCTACTATGTATCCTGGCCTGCCATCACGGTTGGAACGAGAACTTAAACAGCTTTACTTAGAACGA
GTTTTGAAGGGTGTATGTGAAAACTTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGAAAGCACATG
GTATTCCTGGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAACCTTTTGATGACCCGACAAAGAGTAC
CAAGAAAAGGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTCTGAATAACTCCAAAGCTTGTCCCGTCATA
CCCGTAATGCTTTCTTTTTCTTTTATTGCCAATCTTTGAACCTCATTCAACTCCAGGACATGGAAGAGGCCTCTC
TCTGCCCTTTGACTGGAAGGTCAAGTTTTATTCTGGTGTCTTGGGGAAGCTTTGTAAATTTTTGTAAATGTGG
GTAAATCTGAGTTTAATTCAACTGCTTCCCTACATAGACTAGAGGGCTAAGGATTCTGCTGCTGCTTGTCTCT
TCTAAGTAGGCATTTAGATCATTCTATAGGCTTCCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAAACAAAAAACTTTAACAGGAGCTTTTACATATTACTG
GGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCCCTTAGGGCATTTCCTCTGTAATGTGGCGCTTTC
AACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTCTCCTGTGAACCTCTTAGGGAAATGTTAGGTTTCAGAACT
AAAGTGTTTTGGGTGGGTTTTGTGCGGGGGGAGGGTAACAATGGGTGGTCTTCTGATTTTTATTTTTGGAGGT
TTGTCAACTGGAGTACGTAGAGGAACCTTTATTTACAGTACTTTGATTGCGCAGGTTTTCTTCTACTTGTGCTCTG
CCTGGAGCTGTTCCATATGATATAAAAAGCAAGTGTAGTATTCCATTACTATGTGGCTTAGGGATTTATTTGTT
TTTTAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCCCTCAATGGAAAAGTAACATTTAAAAATCCT
TTGGGTAAATCGAATTACAGATTTAAAGAGCTTAAGATCTGGTGTTTTGTAAATGCTTCTGTTTTATTCCAGAAG
CATTAAGGTAAACCCATTGCCAAGTATCATTCTTGCAAATTATTCTTTTATATAACTGACCAGTGCTTAATAAAAC
AAGCAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACT
TGTTGCCAATTGGGTAAATTTTATTAGTTGTTTTGTTTGTATTGAAACCTGGAAATACAGTAAAAATTTGA
CTGTTTTAAATGTTGGCAAAAAAATCAAGATTTAATTTTTTATTGTACTGAAAACTAATCATAACTGTTAA
TTCTCAGCCATCTTTGAAGCTTGAAGAAGAGTCTTTGGTATTTTGTAAACGTTAGCAGACTTTCCTGCCAGTGT
CAGAAAATCCTATTTATGAATCCTGTCGGTATTCTTGGTATCTGAAAAAATACCAAATAGTACCATACATGAG
TTATTTCTAAGTTTGAAAAATAAAAAGAAATTGCATCACACTAATTACAAAATA

5015/5332
FIGURE 4349

CCCGCCTCCCGCCTCCCGCCTCCCTCCAGCTGCGAGTGC GGCTCGGGCTGGCGGCGGCACCAGGCCACAGTTGTA
AGGGATCTTGTGGCTGT CAGGATGGCAGAGGAGCAGGAGTTCACCCAGCTCTGCAAGTTGCCTGCACAGCCCTCA
CACCCACACTGCGTGAACAACACCTACCGCAGCGCACAGCACTCCCAGGCTCTGCTCCGAGGGCTGTGGCTCTC
CGGGACAGCGGAATCCTCTTCGATGTTGTGCTGGTGGTGGAGGGCAGACACATCGAGGCCCATCGCATCCTGCTG
GCTGCGTCTTGCATTACTTCAGAGGAATGTTTGGTGGGGGATTGAAGGAGATGGAACAGGAAGAGGTCCTGATC
CACGGTGTGCTCTACAATGCTATGTGCCAAATCCTACATTTTCATATACACCTCCGAGCTGGAGCTCAGCCTGAGC
AATGTACAAGAGACACTGGTGGCTGCCTGCCAGCTTCAGATCCCAGAAATTATCCATTTCTGCTGTGATTTCCCTC
ATGTCCTGGGTGGACGAAGAGAACATTCTCGATGTCTACCGGCTGGCAGAGCTGTTTGACTTGAGCCGCCTGACT
GAGCAACTGGACACCTATATCCTCAAAAACCTTTGTGGCCTTCTCTCGGACTGACAAGTACCGCCAGCTTCCATTG
GAGAAGGTCTACTCCCTCCTCAGCAGCAATCGCCTGGAGGTCTCCTGCGAGACCGAGGTATATGAGGGGGCCCTT
CTCTACCATTATAGCCTGGAGCAGGTGCAGGCTGACCAGATCTCGCTGCACGAGCCCCCAAAGCTCCTTGAGACA
GTGCGGTTTTCCGCTGATGGAAGCTGAGGTCTGTCAGCGGCTGCATGACAAGCTGGACCCAGCCCTTTGAGGGAC
ACAGTGGCCAGCGCCCTCATGTACCACCGGAACGAGAGCCTACAGCCCAGCCTGCAGAGCCCGCAAACGGAGCTG
CGGTCCGACTTCCAGTGCCTTGTGGGCTTCGGGGGCATTCACTCCACGCCGTCCACTGTCTCAGCGACCAGGCC
AAGTATCTAAACCCCTTACTGGGAGAGTGAAGCACTTCACTGCCTCCCTGGCCCCCGCATGTCCAACCAGGGC
ATCGCGGTGCTCAACAACCTTCGTATACTTGATTGGAGGGGACAACAATGTCCAAGGATTCGAGCAGAGTCCCGA
TGCTGGAGGTATGACCCACGGCACAACCGCTGGTTCCAGATCCAGTCCCTGCAGCAGGAGCACGCCGACCTGTCC
GTGTGTGTTGTAGGCAGGTACATCTACGCTGTGGCGGGCCGTGACTACCACAATGACCTGAATGCTGTGGAGCGC
TACGACCCTGCCACCAACTCCTGGGCATACGTGGCCCCACTCAAGAGGGAGGTGTATGCCCACGCAGGCGCGACG
CTGGAGGGGAAGATGTATATCACCTGCGGCCGAGAGGGGAGGATTACCTGAAAGAGACACACTGCTACGATCCA
GGCAGCAACACTTGGCACACACTGGCTGATGGGCCTGTGCGGCGCGCCTGGCACGGCATGGCAACCCTCCTCAAC
AAGCTGTATGTGATCGGGGGCAGCTGGGGTTGGAGGATGAGAGCTCCTGAGGGGCAGAGGAGCAGAGATGCATCA
GCTCGCCTGGGACTGGCTCTGTGATAAAAAGACCCCTCCCGCTGGGTTTTAGACCCCATGTTGTTGGTCAATGA
AATAAAGCATCTTACAG

5016/5332
FIGURE 4350

TTGGGCCTGGCTCTGTGACTGAGGCGGGCGGGTGGCGGCCAAGCGGGATACGGGCGGGCGGGAGCTGGGGAAACAG
GCATGGACGTTTCCGGGCAAGAGACCGACTGGCGGAGCACCCTTCCGGCAGAAGCTGGTCAGTCAAATCGAGG
ATGCCATGAGGAAAGCTGGTGTGGCACACAGTAAATCCAGCAAGGATATGGAGAGCCATGTTTTCTGAAGGCCA
AGACCCGGGACGAATACCTTTCTCTCGTGGCCAGGCTCATTATCCATTTTCGAGACATTATAACAAGAAATCTC
AAGCTTCCGTCACTGATCCTATGAATGCACTCCAGAGCCTGACTGGCGGACCTGCTGCGGGAGCCGCTGGAATTG
GCATGCCTCCTCGGGGCCCCGGGACAGTCTCTGGGCGGGATGGGTAGCCTTGGTGCCATGGGACAGCCAATGTCTC
TCTCAGGGCAGCCGCTCCTGGGACCTCGGGGATGGCCCTCACAGCATGGCTGTCTGTCTACGGCAACTCCAC
AGACCCAGCTGCAGCTCCAGCAGGTGGCGCTGCAGCAGCAGCAGCAACAGCAGCAGTTCAGCAGCAGCAGCAGG
CGGCGCTACAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGTTCAGGCTCAGCAGAGTGCCATGCAGCAGCAGT
TCCAAGCAGTAGTGACAGCAGCAGCAGCAGCTCCAGCAGCAGCAGCAGCAGCAGCAGCATCTAATTAATTTGCATC
ATCAAAATCAGCAACAGATACAGCAGCAGCAACAGCAGCTGCAGCGAATAGCACAGCTGCAGCTCCAACAACAGC
AACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGGCTTTGAGGCCCCAGCCACCAATTCAGCAGCCAC
CGATGCAGCAGCCACAGCCTCCGCCCTCCCAGGCTCTGCCCCAGCAGCTGCAGCAGATGCATCACACACAGCACC
ACCAGCCGCCACCACAGCCCCAGCAGCCTCCAGTTGCTCAGAACCAACCATCACAACCTCCCGCCACAGTCGCAGA
CCCAGCCTTTGGTGTACAGGCGCAAGCTCTCCCTGGACAAATGTTGTATACCCAACCACCACTGAAATTTGTCC
GAGCTCCGATGGTGGTGCAGCAGCCCCAGTGCAGCCCCAGGTGCAGCAGCAGCAGACAGCAGTACAGACAGCTC
AGGCTGCCAGATGGTGGCTCCCGGAGTCCAGATGATCACGGAAGCCTTGGCCCAAGGTGGGATGCACATAAGAG
CCCGGTTCCCGCTACCAACCGCTGTGTCCGCCATCCCGTCAAGCTCCATCCCTTTGGGCAGACAGCCCATGGCAC
AGGTACGCCAGCAGCAGCCTCCCCATGCTGTCTCGCCGTACCCGGGCCAGCAGGTGCAGACCCCGCAGTCGATGC
CCCCCTCCCCCAGCCGTCCCCGCAGCCCGGCCAGCCAGCTCACAGCCCAACTCCAACGTCACTCTGGCCCTG
CCCCATCTCCAGTAGCTTCTGCCCAGCCCTCACCGCAGCCCTCCCAGAGCCCAGTGACGGCGCGGACCCAC
AGAACTTCAGTGTCCCCTCACCTGGACCTTTAAACACACCTGTGAACCCAGCTCTGTATGAGCCAGCTGGCT
CCAGCCAGGTGAGGAGCAGCAGTACCTGGACAAGCTGAAGCAGCTGTGAAGTACATCGAGCCCTGCGCCGCA
TGATCAACAAGATCGACAAGAAGACGAAGACAGAAAAGGACCTGAGTAAGATGAAGAGCCTTCTGGACATTCTGA
CAGACCCCTCGAAGCGGTGTCCCCTGAAGACCTTGCAAAAGCTGTGAGATCGCCCTGGAGAAACTCAAGAAATGACA
TGGCGGTGCCACTCCCCACCGCCCCCGGTGCCACCGACCAACAGCAGTACCTATGCCAGCCGCTCCTGGATG
CCGTCTGGCCAAACATCCGCTCACCTGTCTTCAACCATTCCTGTACCGCACATTCTGTTCCAGCCATGACCGCCA
TTCAGGCCCCACCCATCACGGCCCCAGTGGTGTGACCCGGAAGCGCAGGCTTGAGGATGATGAGCGGCAGAGCA
TCCCCAGTGTGCTCCAGGGTGAGGTGGCCAGGCTGGACCCCAAGTTTCTGGTAAACCTGGACCCCTTCTCACTGCA
GCAACAATGGCACTGTCCACCTGATCTGCAAGCTGGATGACAAGGACCTCCCAAGTGTGCCACCCTGGAGCTCA
GTGTGCCCGTGACTATCCTGCCCAAAGCCGCTGTGGATAGACCGGCAGTGGCAGTACGACGCCAACCCCTTCC
TCCAGTCCGTGCACCGCTGCATGACCTCCAGGCTGCTGCAGCTCCCGGACAAGCACTCGGTACCGCCTTGCTCA
ACACCTGGGCCCAGAGCGTCCACCAGGCCTGCCTCTCAGCCGCCCTAGCCAAAGACTGCAGGGATGGCCCGCAGCCT
CATCGGGGCCAAGGACACACGCCTCCTGTACAGACTTCTAGGTGTTGGCTTCTTAGAGAGCCTGGGGTTAGGT
TAGCTTTCTGCTTTTATCTTCTGCCTTGGGGACCTGCCAAACGAAATCCCACACCTGTACAGAACTGGGATAGG
CGCAGTGGAGCGGGTTGCTTGGGGGGCGTTGGCCGACTTCTTAGAGAAGGCCCTCCATGTGACTTCTCCCAGGA
GCCAGATGCGATCCTCAGGCTGCTCTCACCGTGGCCTGTCCACGGTCCAGGTCCATCTCAGCAGCGTGAGGGTGC
ACTCAGGGTGTGTTAGAGCGTCTCGTGTGTGCTAGACGCACCCCTACTCGTTCTATAGAACACAGAGGACATA
GGAAACCCTTAAACACACATGGGATTCTCTGGTCACAGTTTGGGTTTCAAGCTATGCTGCTTTGGGCAGGTGGA
GCACCCCCCGAGGAAGCCTGCAAGTCCAGGGCACAGGCTGCCTTTTGAGGGAGGGCTGGCCCATAGGTGCTGCT
GGCTCCCCGCCACCAGCTGGGCCTCAGCCCTCACGGCATTCCTGTGAGCACCGTGGGGCACCAGGGAGCAGGG
GCGTCAGGGATCCTGTGCCGGCACCCCTGTGCCGCTGGCATGAGGGCCGTGTCCCACTGTGAAGGATGAAGAG
CAAGGCCCTCAGGACCGTGTCTCAGAGCACCACACACTGAGCACCCAGAGACAGCGGGCCTGGCAGCGGGCCG
GGCCATGCAGGGAGCGCTCCCTATGTTGCCTGCCACTCTGGGCACCGGCCAGCACCCCTCTGGTGAGAAGAGGTC
CCCCCTTTTTATGTGCACTACCCCAACCATCTGTGATTATAATAAATTTATTATTCTCTGTG

5017/5332
FIGURE 4351

CTCATCTTCACGTTTTCTGCATCTATTGAAGTGCGCCACTGAGATCGTGGAGTTCTTCCCTGTTTGTCCATATGA
TGAACAACACTGATTTTCTGATGTTGAACAATCCCTGGAATAAACTCTGTTGGTTTCCATGGATTTCTGTTTCC
CTTTAGATTTTGTAGTAATTTATTTGGATTTTGCATCCAAGTTCATAATTGTAAGTGGACAAATAAAGGCAG
ATTTTAAAAGGACAAGTTGGGAGGCTAAGGCGGAAGGATCACTTGAGCCTGGGAGATTGAAGCTGCAGCTAGCTT
CGATTGTTCCACTGTACTCCAGCCTGGTGACAGCAGGACCTGCCTCTAAAATAATAACTTAAAAGGACGAGTT
TACCTACAGTCTCACCAAGCAATGAAAGAGCTTATCTTCTTCCCTGTTTCCCTTACGGATCTTGCTCATGATTTT
ATCTTAGTTACTTTAGCATAAATGCTAAATCAAATTCCTTTTTCTACTAGACATCATAATAGCTCTAGGCATACCAC
ATAATACCCAAGCACATTTTAATCATTAATAATTGTTTCCTTTTTTGTGGCTACTGTAACCACTTCAGCGAACCA
TTTAGTGTGTAGTGGGTTTAAATTTTCTCCTTCTTGGGATAAATTTCCAGGAGAGGGATAATTGGGTCAAAA
GTTACGAACATATTTATGGGTTCTTTCCACAAGAGATCGATCAGTTTGCAAGTGCCATCTGCACTGTGGGGGAA
CCAATCTTCAACTTGCCTGCATTTGGTATTAGTATTTTATTAACCTTTCATTGATCTAATTACGGCTCTTTGACA
CAATTTTTCATCAGTGATGGACTAAGTGTGATCCGGCCTGACCCGCTCCGGCCGGCGTGAGAAGGGGCATGTGTC
GGGCTACCCCTCGGGCTTCCCTGCGCCATTGTGATCCAGCCGCTAGGCGCTCCCTGCGGCCATTGTGACGC
CTGCCAGCCGCGAGGCTGGGTCCCCGAGGCGGGCGGCATTTAGGCTCGGTCTCCACAGCCATGGCCGCGACGCAGG
AGCTGCTGCTGCAGTTGCAGAAGGATAACCGAGATGGTCGCCAGCGGAAGCAGGAGCTAGAGAAGCTGATGCGCG
GGCTCGAGGCCGAGAGCGAGAGCCTGCCTCAACCAGCGCTGCAGGACCTGAGCGAGCGGGAGCGGAGGCTGCTG
CGGAGGCGAAGCCAGGAAGCGCTGCTTCTGCAAGGGGAGGTGCGCGAGGCGGCGGGAGCGCGCGCAGCGGGTG
CGCAGAAGACTGGAGGAGGCGGAGCGCCACAAGGAGGACTTGAAGCCCGGTAAACCCCGTCCTTACGAGCCCCGC
CCCTAGCTCTTCTACTACGGAGGGGAAGTGCAGAGCCAGAAGAGCACGGAGCAGCAACTCGCAGCCCAATTGGTG
ACGCTGCAGAATGAACTGGAGCTGGCGGAGACCAATGCGCCTTGCAGGAGGAGAAGCTGCAGCAGGACGCGCTG
CAGACAGCGGAGGCTGGGCCATATTCCAGGAGCAGACCGTAGTCCTGCAGGTGTGACGGGCAGCTTCGCAGAGT
GCAGTACAGCACCGAGTCGCTCATGGAGCAGATGGCCAGGGCGGACCGAGAGACGCGGCTGTTTCGGCGGTCTCTG
CGCGCTGGCCATCAGGCGCTGCTGACGCTGCCGCTCCTCTTCTGGGGCTGTCGCTGCTCTGGACGGTGCTGTTG
GACCCCGCGCGCTCTCCGCGTGGCTCTGGAGCCTCACCTCGGAGACGACGCTGCGCCGCTGCGCTACACGCTG
TCCCCGCTGCTGGAGCTGCGCGCTAACGGGCTGCTGCCAACCTAAGTGACGCGCCCCGCGCCTGGCTCCAGGTGG
ACTCCAGGGCACCGGCTTTATTTCTGGTGCATCCTCTCTGAGAGTGTAGACCAAGGTGCGCTAATAAACTCCT
CAAGGGAT

5018/5332
FIGURE 4352

TGGTTTCTAAATCTTATTTCAGTGAGCACGTGTTTCCTTTTTTTTAAATTAGAGAAAACCTTGACAGTAGCCCCCTTTTGTG
TGTTTTCACAGAGGAGCTAACATTCCCTTCTGTACCTGTAGTTTCATGCGGGAGATGGCAGGGGCTGGCAGATGACG
GTGGAGCAGAAATTTGGCCTGTTTTCTGTCTGAGATAAAGGAAGCAGACCCCTGGCTGCCTCGGAAGCAAGTCAA
CCCAAACCCTGTCCCCCGAAGTGACCCCCACTACATCTGGATCGACTTCCTGGTGACGGGTTTGAGATCGCC
AAGTACTGCAGCTCTGACCAAGTGAGATCTTCTCCAGCCTGCTGCAGCGCTCCATGTCCCTGAACATCGGCGGG
GCCAAGGGGAGCATGAACCGGCACGTGGCGGCCATCGGGCCCCGCTCAAGCTGCTGACCCTGGGGCTGTCCCTC
CTGCATGCCGATGTGGTTCCAAATGCAACCATCCGCAATGTGCTTCGCGAGAAGATCTACTCCACTGCCTTTGAC
TACTTCAGCTGTCCCCCAAAGTTCCCTACTCAAGGAGAGAAGCGGCTGCGTGAAGACATAAGCATCATGATTAA
TTTTGGACCGCCATGTTCTCAGATAAGAAGTACCTGACCGCCAGCCAGCTTGTTCCCCCAGATAATCAGGACACC
CGGAGCAACCTGGACATAACTGTGCGCTCTCGGCAACAAGCCACCCAAGGCTGGATCAACACATACCCCCGTGCC
AGCGGCATGTCCACCATCTCCAAGAAATCAGGCATGTCTAAGAAAACCAACCGGGGCTCCCAGCTGCACAAATAC
TACATGAAGCGCAGGACGCTGTGCTGTGCCCTGCTGGCCACTGAGATCGAGCGTCTCATCACATGGTACAACCCG
CTGTGACCCCCGGAACCTGGAAC TAGACCAGGCCGGAGAGAACAGCGTGGCCAACTGGAGATCTAAGTACATCAGC
CTGAGTGAGAAGCAGTGGAAGGACAACGTGAACCTCGCCTGGAGCATCTCTCCCTACCTAGCCGTGCAGCTGCCT
GCCAGGTTTAAAGAACACAGAAGCCATTGGGAACGAAGTGACCCGTCTCGTTCGGTTGGACCCGGGAGCCGTTAGT
GATGTGCCTGAAGCAATCAAGTTCCCTGGTCACCTGGCACACCATCGACGCCGATGCTCCAGAGCTCAGCCATGTG
CTGTGCTGGGCGCCACGGACCCACAGGCCTCTCCTACTTCTCCAGCATGTACCCGCCGCACCCCTCTCAGC
GCGCAGTACGGGTGAAAGTCTGCGGTCTTCCCTCCGGACGCCATCCTCTTCTACATCCCCAGATTGTGCGAG
GCCCTCAGGTACGACAAGATGGGCTATGTGCGGGAGTATATTCTGTGGGCAGCGTCTAAATCCCAGCTTCTGGCA
CACCAGTTCATCTGGAACATGAAGACTAACATTTATCTAGATGAAGAGGGCCACCAGAAAGACCCTGACATCGGC
GACCTCCTGGATCAGTTGGTAGAGGAGATCACAGGCTCCTTGTCGGGCCAGCGAAGGACTTTTACCAGCGGGAG
TTTGATTTCTTTAACAAGATCACCAACGTGTGCGGTATCATCAAGCCCTACCTTAAAGGCGACGAGAGAAAGAAG
GCTTGTCTGTGCGCCCTGTCTGAAGTGAAGGTGCAGCCGGGCTGTACCTGCCCAGCAACCCCTGAGGCCATTGTG
CTGGACATCGACTACAAGTCTGGGACCCCGATGCAGAGTGTGCAAAAGCCCCATATCTGGCCAAGTTCAAGGTG
AAGCGATGTGGAGTTAGTGAACCTGAAAAAGAAGGTCTGCGGTGCCGCTCAGACTCCGAGGATGAGTGCAGCAGC
CAGGAGGCCGACGGCCAGAAGATCTCCTGGCAGGCAGCCATCTTCAAGGTGGGAGACGACTGCCGGCAGGACATG
CTGGCCCTGCAGATCATCGACCTCTTCAAGAACATCTTCCAGCTGGTTCGGCTGGACCTCTTTGTTTTTCCCTAC
CGCGTGGTGGCCACTGCCCCCTGGGTGCGGGGTGATCGAGTGCATCCCCGACTGCACCTCCCGGGACCAGCTGGGC
CGCCAGACAGACTTCGGCATGTACGACTACTTCACACGCCAGTACGGGGATGAGTCCACTCTGGCCTTCCAGCAG
GCCCCGCTACAACCTTATCCGAAGCATGGCCGCCTACAGCCTCCTGCTGTTCCCTGCTGCAGATCAAGGACAGACAC
AACGGCAACATTATGCTGGACAAGAAGGGTCATATCATCCACATCGACTTTGGCTTCATGTTTGAAGCTCGCCG
GGCGGCAATCTCGGCTGGGAACCCGACATCAAGCTGACGGATGAGATGGTGATGATCATGGGGGGCAAGATGGAG
GCCACACCCTTCAAGTGGTTTATGGAGATGTGTGTCCGAGGCTACCTGGCTGTGCGGCCCTACATGGACGCGGTC
GTCTCCCTGGTCACTCTCATGTTGGACACGGGCCTGCCCTGTTTTCGCGGCCAGACAATCAAGCTCTTGAAGCAC
AGGTTTAGCCCCAACATGACTGAGCGCAGGCTGCAAATTTTCATCATGAAGGTCATCCAGAGCTGCTTCCTCAGC
AACAGGAGCCGGACCTACGACATGATCCAGTACTATCAGAATGACATCCCCTACTGAGGAGGGGACCTTCGAGGG
CCTCTGCCCCATGTGCCCTCAAAGCTGTCCCAACATCATGGAGCCCTGCGACCTCCCTGCCCTGCCGCCACATGC
AGTGGAGGAGAGGCCTGTGGCCCAAAGAACCTGGTAGCGCCTCCTGGGGCAGCAGCTGGGTGGCGCAGCCTTGGT
AACGCCATGGACTGCAGCGACAATCAATGGATGGTGTCTATGCACAGGTGTGAGTCCTCTGTTTGACTGGA
CATATTCCCTACCTGTCTTATTTTCATAGGTACATGAAGTATTGTGTATAAAAAAGAGATAAGATTTAACCAACA
TCAACAAAATAAAAACCCAAAATAGT

5019/5332
FIGURE 4353

GGAGTTCGCGCGACGACCGCGGGGTCGGCGGGCGGGGCGAGGCCCTGGACGGCGGGCGGCAGTGGGGCTCCTCCTT
CTGTTTCCCAGACCGAGAGCCGCGCCGGCACCATGTACGCTTACCCTAAAAGCTACAATCCGTTTCGACGACGACG
GGGAGGACGAAGGCGCCCGGCCCGCCCTTGGAGGGACGCCGAGACCTCCCCGACGGGCCCCGACGCGCCCGCGG
ACAGGCAGCAGTACTTGCAGCAGGAGGTCTCCGAGGGCTGAGGCCACGGCCGCCAGCACCAGCAGGTCCCTGG
CCCTCATGTACGAGTCCGAGAAGGTTGGGGTCGCCTCTTCCGAGGAGCTCGCCCGTCAGCGAGGAGTCTGGAGC
GCACAGAGAAGATGGTGGACAAGATGGACCAAGATTTGAAGATCAGCCAGAAACACATCAATAGCATTAAAGACG
TGTTTGGGGGGCTGGTCAATTACTTCAAATCCAAACCAGTAGAGACCCACCTGAACAGAATGGCACCCCTCACCT
CCCAGCCCAACAACAGATTGAAAGAAGCTATAAGTACAAGTAAAGAACAGGAAGCAAAGTACCAGGCCAGCCACC
CAAACCTTAGAAAGCTGGATGATACAGACCCTGTCCCAGAGGGGCTGGTTCTGCCATGAGTACTGATGCTTACC
CAAAGAACCCACACCTTCGAGCCTATCACCAGAAGATCGACAGCAACCTAGATGAGCTGTCCATGGGACTGGGTC
GTCTGAAGGACATAGCCCTGGGGATGCAGACAGAAATTGAGGAGCAAGATGACATTCTTGACGGGCTGACAACCA
AAGTGGACAAGTTAGATGTCAACATAAAAAGCACAGAAAGAAAAGTTCGACAACCTCTGAAGACAGACGGATTTC
ACTCTATTGTGATGAAAAGATTTGAAAGATCTTTTTTTGAACCTCCAAGAAATTTTCAATTTACTATTTTAGTATGT
AAATTAATGTGTGTTTGCAAATGTTATAATAGAGTAGGTCTTAAGACATTTTGTCTGTTATAAGGAAGTGTTGT
CCCACATTTTCTAGGGTTAACACCTCACCAAGTTCTTCCAGCAAAATGCTTATTAGAGTTTTTGTCTGAGCACA
GTAGCCTGGCCCTGCATATCTTGGGCGTTTGATTACCATGCTGGAATAAGAAGAGTTGCATTTCTCATTTTAATG
AGCATATGGAAGATGGGAACAGAATTTAGTCTTGACGCCATGAGCCTCTATTTCTCATTCCTAAGCCTTACCA
TGAGTCAGAGTGTTAAGGGGCGCTGTGAGCCAGTCGTTTGGTGGAGGAGGGTCTTCCCACACCTTTGTTTAGGA
GTCATCATTCACACACACACACACACACACACACACACACACTCTGAGCACATTATCTGTGATTCTT
TCATCCTCCCAGAAAGGATCAGTGTAGAAATGGGAAATAGAGTGTGCCATCTTGCTCTTTTGTGGCAGATGTCC
CCGCTTCCCTCCAGCCCCCATCCTTGGCATGTATATTAGTAGGAGGGCTTCACACCAGCACTGCTCACTGCGAC
TCCTGGAAATGTGTGGGAATTGGGTGAGCCCCCTCTTCCCCACGTGCTCCCATCTGTAACCTCTCCATCTGTGATT
TGCAACAGGTCTTCCACTGGCTCGAGGCTGCGAGGCTGACCGACAGGGGCGCCCAATAGAGTTTGTGGGAATGGA
GTATTGCACAGATGCAGCTGCACAATGGTCTTCTCCACCCCTCTGGGAATCACCATTAGGCAGGCCTCAGTAGG
GCAAAATGTTTATTTGGTACCGGGGCTCCTTGACCTGTCTAGCATTTCCACCCACTCTTCTGCACTTCTTGCAA
GGTAACCTGAATCATCACTTATTTCTTGCCACCTGGTTTTAGGACTGGCACTCTATAAATGACGCTGACTTTGT
ATAGAAGGATTTTGCTAAGGGGGCAAAAAGCCCAGATACCATTTTAACTGGCCCAGCTCATTTTCTCCTTTCAAT
TTACAAAAGAAATCATGCAGAAGCATCAATTAAAACTGATTTATTTATGTTGGTACATCCAACAAAATAGTTGGA
GCCACAAGGCCCTTGCTTTTTTAAAAAAACAAAATATTTTGAAGATGGTGAAGTGACTGATTTTAATAATGAGA
TAGGTCACTTAAATAACAGTGCCTTTGACCTTAAACATGGCACTGGCCCATGTGACCTTTGCCATTTCCCAGT
ACTTCCCTTTACAGTCTGCAGCCTATAAACAGTGGTGTCTCAAAGCAAAGGAAACCTCCACAAGTGCTGCAACAG
TGCATTAGTTTTTATGTAGCAATTTGTTTATAAAAAATCCCATCCATAATGCATGACCTTCTAAAAATACCCA
CAGCCTCCATAGGCAAGGTGAGCTTTCTGTGCTACCCACTGGTTAGATTCCAGCCACCTCAGGGATTCTGATCCA
TGTCATTAAACGACCATCCCAGGGTGTGAGGGCCTGATTAAAGCTTATCGAACTAGACATTTGTTTATTAGATGAG
CTCGGCATTATTATTTTCTCAATAACTGGTAGAAGGGAAATTTTAAACATAACACTCAACCCAAACAAAACACTACT
TCGTGAGGCTTTTACGAAAAAGGCTGCTTAAAGCATGAACCCGGGATGCAGAGCAGCTTTTGTGCACGGTTCCA
CTTACTGTAATTGTTTCTGGTTCTTTCTCTAACACCTTCCATGTATGTCAACTTTTATCACCGTCAGGCATAG
ACTCGTGGAGATTAGTCATTATAGCTCAGACCTAAGCTAATTATTTAAATAAATACATGTAAAGGCCACTGCCA
CATTCTCAGCAGA

5020/5332
FIGURE 4354

AACAGGTTAAGTAGCAGGTTGGGTTTTTATGATAGTGCAAGGAATGACTCATGCCTCTGAGCTTCTAAACTGAAG
CTGCTGTAACATAAGGAATCTGAAAAGAACAACCCTGAAGCAGAGGCCTTTATTGCTTGGTTGCCAGTAGTACC
TTGTTTTGCCATGTAGCAGACAACACACAAAATAATGCAGTTGTGGTGTGCCATGCTATGTGCACAGCCCCCTTGG
ATTACTTTGTTTTAAAAAGCATCAGAGTTGGGGGTACTTTAGGGAAACCTTTGCTTACCTTGTTTTGCCAGTGAT
AAGAGCAGTGGGTTGGAGGGCACTTGCCAGTTTTCTGTTCAGCTTTTCAGTGAATGTACCCCTTTAAGGTTTCAG
ACTTAACTTCCTTAAAAAGTGGCGTTGTTTCATAGAATCGTTGGACTCATTAAATGAATCGTTCAACTCCACTCAC
TGAAGCCCAGACCTCCGTGCCCAGGCCCAATCTCGTCAGGCTGCCAGAGAAAGTTGGTGTGCTCATACTGGTCT
CACAGTCTAAGTAAGTGTCTGTGATGCTCCCAAGCAAAGGAAATGCAAGCTCTGGAAATTCGTTAATGTATTGA
TGTCTTAGTGTTTTAGTGACTAGGGAGACCATTAACTAGTTTATCATTAAACCACTTATCAGTGTATTGATGTTAA
AGCATTTCCTGTAGCTAAAAGAGGCCTGTTTCATACAAGCCAACCTGGTATATACGTGTGGTTCATCCATCATCT
GCTGCACATAGCAGACTAGAATTCTGGGAACCCTGTGCAATTCAGTCTGCTCTCCCTTGTGGACCTGGTAAAGA
AAAGCCTCAGCTCATAGTGAACACAGCAGACCTAGAAATGTAGCAGCAGCCTACTGAGTAGCTTTCATTTACTGA
TCATCTGCTGTGACTGTGGCCCTGTCTGGAGGTTCCTAGGTTTTGAGATTTAGAGCAATGCATTCTGGAGACAGA
ACCAGCAGAACAGCCATTTTTCAATTTTTCTTTAAATCAGTATTCCATCAGGCAGATAACTGCTGTATTTCATGAA
TCTTGAGAGTGTTCTTGAGACAGAATTAATGGTCATTGGGAAAACTATCGCCATGGCTTCCCATCTGTGGTTTT
CCTCTAAAAGCCTTGGAGATTAGCCCTTCCTTGCCAGTGAGAACGGTGACCGCCTCCTGCTCTGCACGGTCTGCG
GCAGTTGCCGCTTCTGGTTAGGTGTGTGAGGTTGGCTTATTTTGGGTTTCAGGCCTGGCGTAGCACCCACAAGTGG
CAGACATATCACAAGAGTCCCCAGACTCTGCCTAGAAACAGTGTGTGCCCTTTGGCCAGTGACGTGGTTTCATCCC
GGCCCATGTTGAGCCATGAGTGGAGTTTCCAACAGAGGGAGGAATGTGTGCCTTGTTCAAGGAGGGCACGACCTT
TAGGCCTTTTTCAACCAGATTTAGCTGAAGGGCTTGACACCTTTGAATTACAGCAGTTGACTCAGAGTGCAAGAA
GTCTGGCCATTTTGAAAGCAAGGTTTCTTTACGCCCTGTCTACTGACCAATACCCGACTCACCTTGTGTGGC
GCACTTCAGAAATCAGATATACCTAGAGTATACCTGTGGTTTGGTTTTATAATTAATCAGCTCGTTACTTCAGCCC
ATGAAATGGCATCCAGGGCTGCCAGGAGATTAGAGCTCAAAACAAGGCGAGCTTGAGTTCTGCACTCCAGATA
TGTGCCAAAACTAGTAAACTTAAACGGACTTACAACCTTGTCAGTTTTTTTAAATGAGGCAGGGTACTCTGTTTT
TCACACTAAACATATGAATGCAGCACTGCTGCCTCAGCTCAGCTTCGTGCCTGGGTTCCCACTGGTCTGGGAAG
ACTGTTGTGCTCCATAGAGCAGTGCACATCTGACCCAGAGGGTGGGTGTTTCATAACTGCTACTTGCTCTGCTCTA
CCATGTTTTAAAGAAATATTTGGATGTTAAATTAACCTCAGTATGGTTTTTACCTGGGAAGGAAACAAATTACGTA
CTAGAGGGCATTGACTGGTTAAAAAAGCTTGTGTATCCCGGAAGGACCTGCGGTACAGGAGTCAGCCATGTCTGTG
CTGTGTGGAACCACTGATGACATGGTTAACGAGGAAGACGATGTGTTGACCGCTGCCGTTTGAGGACTTTGGT
CACCCAGACTAGACACCTTCTGTGCTCATGTTTGGAAAGCTGAAAGGGAAGGACAGCTGTGCCCTCCTGGGAGCT
CATGTGTCCCTGGCGCTGTGCTAGCTTTCTTTACAGCTGTTTACAGACAAGGCAGGCCTGAGGCAGATGGCCAC
TGCTCTTGATGTTTGTCTCAGAGGAATATGAACATTTTATTTTGAAGGGATGATGTGGTTTTTTGCCAGGT
GTTTTATAATTAATCCTTTAATATTATGGTTATTAACCTCTTAAACATGAATGAATTCTTGATTGTTTTAACACAG
TACCTAAGACTAATGCTTTCTGTGGACACCACTGAGCTCTGCCCTCAACTCCACCCTCTGCGACCGGAGGACTATG
CCCCTAGTAAGTGTGCTGGTGTGGACGCTGTGCTGGTTCTGTTTTCTAAAGGAGCAGAAGGACAGGTCTCTGAG
ACAGGATCGTTGTCCCTACAGGAGGAACAGTGGCCTTGCTTCTAGACGGTCTTCACTGTGTGTTTTAAACAAC
AACAACAACAACAACAACAATAAACTCTTTTGACCTGTAAGTAAAGATCATAAACTTCAGGCAATAATATT
TTCTGTGTAAGCTTTTTAAATATTTTTTGGGGATCATAGCTGTTTTATTTTGTGCTATAAAATTAACAGTATTA
AATGACTTATATTCTTAGAATA

5021/5332
FIGURE 4355

CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGACCCG
ACAGGCCAGAGCCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCAGATGCGCGTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAAGGACACAGTTACCCACCTGGCCCCGCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCACAACCTCCATTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTTCAGACCTACTGGGCCCTTGGGTGCCCAGGCAGATGAAGCAGGCTGCAG
CGCCAGCCTTACCAGAGCGGCAGCCCTCCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCAGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGCTGCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAG

5022/5332
FIGURE 4356A

GGACACTTGACATCAGTGGTGTCAAGACAACCTCTAAGAAGGTTTTCCGTGATCCTGCAAGCCCTGCCTTCCTTCC
TGGGATCCTGCCCTTCAATTTGATTGCACAGGTACCACAGCAAGCCAGTGCTGTGTGCTCCGAGTTCCAGGGCGTC
CTCCAGCTCAGCCACTGCACTGAGAACATGGACTCTCTGTGGGGCCCAGGAGCCGGGAGTCACCCCTTTGGGGTC
CACAACACCCGGCTGTCCCCAGACTTGTGTCCAGGGAAGATAGTGTGAGGGCCCTCAAGGAGAGCGGGGCAGGG
ATGCCTGAGCAGGACAAGGACCCTAGAGTCCAAGAGAATCCTGGTGATCAGAGAAGGGTCCCCGAGGTACCCGGG
GATGCACCGTCTGCATTTGCGCCCCCTGCGGGACAATGGAGGCCTCTCTCCCTTTGTGCCCGGGCCCCGGGCCTCTG
CAGACAGACCTCCATGCCCAGAGGTGAGAAATCAGATATAACCAGACATCCAGACCTCCTGGACGAGCTCCTGC
ACCAACCGAAATGCCATCTCCAGCTCCTACAGCTCCACGGGAGGCTTGCCGGGGCTAAAGCGGAGGAGGGGGCCA
GCCTCATCCCACTGCCAGCTGACCCTCAGTTCCCTCAAAGACAGTGAGTGAGGACAGGCCTCAGGCTGTCTCTTCA
GGTCACACCCAGTGTGAAAAGGCAGCAGATATAGCACAGGGCAGACACTCGCCCTCAGGAATGACTCCTCCACA
TCCGAGGCCTCTAGGCCAGTACACACAAGTTTCCCCTGCTGCCACGCAGGCGAGGGGAGCCTTTGATGCTGCCA
CCTCCCTTAGAGCTGGGGTACCGGGTCACTGTTGAAGACCTTGACCGGGAGAAGGAGGCGGCATTCCAGCGCATC
AACAGTGCACTGCAAGTTGAGGACAAGGCCATCTCGGACTGCAGACCCCTCACGGCCTTCCCACACTTTGTCTCTCA
CTTGCAACAGGGGCTTCTGGTCTGCCTCCCCTTTCTAAAGCACCCAGTATGGATGCACAGCAGGAGACACACAAG
TCCCAAGACTGCCTGGGCCTACTGGCCCCCTTAGCATCTGCTGCAGGGGTCCCCTCTACAGCTCCCATGTCTGGG
AAGAAGCACAGACCACAGGCCCCCTGTTCTCCTCCTCAGATCCCCTTCTGCCACCTCTTCCCATTCCCAGGAC
TCAGCCCAGGTACCTCGCTGATTCTGCCCCCTTCCCAGCTGCAAGCATGGATGCGGGCATGAGAAGAACAAGG
TGTGGCACTTCTGCTCCTGCAGCTGCCGCAGCAGCCCCCTCCCCCTCCACATTGAACCCACGTTGGGGTCACTA
CTGGAGTGGATGGAGGCCCCCTTACATTTCTGGGCCCTCAGCCACAGCTGCAGCAGGTGCCAGAGGTGAGAACCAG
AGATCCCAGACCTCCCGGACCAGCTCGTGCCCCAAACGAAATGCCATCTCGAGCCCCCTACCGCTCTACGGGAGGC
CTCCCGGAACGAAAGCGGAGAAGGGGGCCAGCCTCATCCCACTGCCAGCTGACCCTCAGTTCCCTGAACACAGAC
CCAGGGTGCATGCCCATCTCCAGCCCAGGGCAGCTCCCCGTAAAGCTGGGTGAGCTACTGAAGCCAAGGCGGGAG
GCAGCTGACAACACCCACAGCCCATGCGGAGGTGGTGAAAGGCTGGACTCAGCAGCAACACCAAATCCTGGACC
AGGCAGAAACCAACCAAGACTGAGGGGCTCGTGCCAGAGCGGTGGCCACAGGGCTGAATGGTTGCTGAGACAGAG
ATGGAAGCCAGGACAAGGGAGCCACCGGGCCAGATAGAGACTTCAGAACCACCTCCTGAGAACACGGGAGCCA
GGCGCTTAGAGGAAGACCAAATGCTGCCAGGACACGGATTGTCCAGGGATTACATTCCAGCATCTTATTAGATGG
CCTGATTAGCCAGAGGTTTCCAGGCCGCTGTGTCCGCCTCCAGGAGATGGACTGGGACCTTTAGACATCGGTGGAG
AACAGGATGCTCTGTCCCTTGTCTGTCCAGGGCAGGGATGGCCTCCAGCCGCAAGAAGTACAGCAGCACCCTCGACC
TGCCCTCGCGGAGTGGGGAAGAGGAGAGTGGCTCGGAAGGGGGCGCACAGCTGCTGGTGGGAGGTCTTTGGGGCC
CAAGATCCCAAGTCCACCTCAGGTGCTAGAAACCCCTGCTGGTGTGATGAACCCCTTACAGTGAGACGGGGGTGG
GGTGGGGTCTTGACAAGGCATGACTTGTTGGGTGGGGGTGGTTATTTATTTTAGAGATGCACAGGGCCTTGCTC
TGTCCCCCAGGCTGGAGTACAGTGGCTCCATCATGGATCACTGCAGCCTCTAACTCCTGGGCTCAAGCAATCCTC
CTGTGTCAGCCTCCCAGATACCTAGGATTACAGATATGTGCCCAATGCCTGCCTAATTTTTCTTTGTATTTTTT
CTGGAGATGGGGTTTGCTACATTGCCAGACTGGTCTCAAACACCTGGGTTTCAAGTTGCTCCTCGCCTCGGCCTCCCA
AAGTGTGGGATTACAGGCATGAGCCACCACACTCGAACACTTGGGGTGGTTTTAAGCCCCAGCAAGGTGCACC
AGCAGGACCAGGAGGTGGCCTAGGCACCCCTATCACTCCCATCCATGCAAACCTAGGCAAGTCCCTGTCTCTGA
ATCTCAGCCACCACCACATACAATGCAAGTCGGAAGATGGGCAGGACTGGGGTGGGGCAGGCAGAGGCCACCTC
TGTCAGGCTGGGGTTGCATGGGCTGGAGGCTGTCTTCCCATACCTGGGACATGACCTCCAAGGACCAGCTGTGAG
TCATGGTGATGGGCTGGCTGGGGTTGGCAGGGAGCTTGCTCTCCTTCTCGGAGGGCCGGAGCAGCGTGGGGCCAA
ACACCGTGCCAAAGTTGTGCAGGGACATCTTATTGACTGCCTCCTTCTCTGCCATCCTGTAGAGGACCGAAGCAG
AGGGTGTGTTTTCAACGCCACCACCAGGAGAGAGGAGGAGGGGCTGTGCCGTGCTAGAGTCTCAGGGAGGGAGT
GACCTCGACCTTGCTGTGCTGCAAGCTGACTCCAGCCTTGGGGTCAGCAGCACCCGGCAAACAGCAGCAGGAGG
AGCCGCTAGAGCAGCTGCTCATGGGCAGAGCTGCCCTCGGGCAACTCCTGCCACCACCCCTCCCCAGGGAGCCC
AAGGCAGGGGAGGCTCAGCATGGAATGAAACAGGGGAGTGAGGGACACAAGGAGGTGGGAAGTGGGAGGGTCCCA
GCCCCACCAAGTACGCAGAGACCCCTCGACATCCTGGACACCACAGGGGCACCTGCAGGCTGGGAGACCAGGTC
CTCTGTGCATGGCCCCGGGAGGCAGACCTGCCCTAAGGGTGATGCACAGGCTACAGGTGCTGCACGCTCCAGCGC
CCACTCTAGACATCAGCCTCCAGGTTGACTAAGGGTCAGGTCATGTTTGAAACCATGCTTGGCTGGACCAGGACC
CATGGCAAGAGCACCTGGGCACCAAGTGTGTTAGCCCTGGTCTGCAGGAAGGAGGACAGCAGACTTTAGGACCCAC

5023/5332
FIGURE 4356B

AGCACGGCAGTGCTGACCATTTCACCCACTTGGCCTCCTTGAGAAATATGGATGGGGAGCCCTCTGGGGATGGGC
AAGGCCTTCCAGGATAGGCTCAGTTTGGTCCCCTGCTTTTGGAGGTGGGTAAATTCGACCATGGCAGAGG
AAGCACAGCTCGGGTTCCCACACCTCACTTTTACAGCCTCTGAGGGCAGCAGTGACGTGGAGGAGACGTCTCC
CATGAGGCCAAGGCCTCCAGTGCTACCGATGCCCTCTGCGAAGTTGGGGTAGAACTCGTCAGTGAAGAGGGGCT
CGGGCAGCTCACGGAAGTACAGCTTCAGCATGCCCTGCGATGGCGTTCACGTCCATCTCGCTCATCACTGACA
CGTCCTTGTTATCTGGAAGAGCACGGAATGCAGCGGCCCTCCTTGAAGATCCTGATAAATGAAGAAAAGACACA
GAGAAGGATGTGACATGCCTGGGCCATGGAGCACTCTGAGATCTCATCGTGGACACCACTGCCCACACCTCCATC
CCGTCTGCGCAGGCCGACACTCACTGACGTTGAAGCCTGCCTTCAGTGCCTGGATGTCTGCGGCCACCCAGAC
ATGCGGTAGATGCCACCTCCTCCATGCCTCGGCGCTCGATCTCCTCCACGCACTGACGCACGATGTAGGGCACC
TTGGACCTCTCTCTCCTGCGGGAGGAGGGAATGTTCTCAGTGTCTTAACAGCCCTGCTTGGGCCATAACACAGGA
GACCTGCTCCCTATCTGCGCACCCGGAGGTGGGGTGAGGACGGTGACGAAGGTACCCAGGTCTGGGGCTGCACAC
AGAGCCTTCTGTCATGCCTGTCTCCCTCTGCAAGCTCTGTCTCATTCATGTACTTTCTCAGGAACCTTCAAG
CGGCCAGAACCCCTGCGAATCACACATGACCTTTGTGGGAAGGTGAGGAGGCCTGTCTAAGTCAAGTCAGCACGG
GAAGGGCATCTGACAGATTCCAGGCCTGGGGTTAGCAGCCTGTGCCCCGGCTGGGAGGTGAGACCCGGTGTGG
TCCTGCCACCCACGTGCTGTGTGAGAGGAGAATCCCTGACCCCTGCCCTGGGCCTTAACACACATCCGACGAATG
AATGAAGGGTTGCCCTCAGCACCGGTGCTCCAAGTCCTGCGATGCTAAGTGCTTTTCTCCTCTGAGTCTTAGCAAT
GGACAATTCCAATACCTCCACACAGGACACTAGAGTAAGAACTCCTTACAGTTAGAACGCAGTGCTGTGCGGAGG
CCTTAAGTTGAGTTCTGTTTTGCACCTGGATTTACCAGCACATCAAAGCTGCTTCGCAAGCCCCCTCATCAGCAG
GGCTTATGTGGGGGAGCTGCTGATGGAGTCTCGCTGCTCATGCCCCAGCCCTCCCAGAGTGCTATGCGAGTGG
CTGCCGTGCAGTTGGGGGTGGGGCGTGGTGTGTTAGACACAGATAGGAGTCCAGGGTATGACTGATGGAGGCCCCG
GCCCACGTGACCAGCAAGGTGAGAGGCCAGCCAGATTCCATCCTGGGGAAGCAAATGAATTCTCAGAGGAAGTG
GTCTGTGTCTGTATGAAGTGTCTCAAACCAACAAATAGGCTTCTCTGGCAACTGACTCGTGACAAAGGGTTCA
AGATTGTTTGAAGG
CAATAAGAAAGTGATTACATATTTTATTTTTTTTACAATGGTGGAATTAGAAGTGATTGTGAAATGATGTCT
ACCCGCTTGCTGATGAGTAGGATGTGATTTGGCTCTTTAGGAACTGAATTTGCAGAACTTAAGAATATTGATT
TATAAAGGGCATGGCCATTGACCCAGTCCATCTTATGCAATCTGGATGCCATAAATAATATTTAAAAATGAAAG
TATTGGGGTGGAGGTTGTCAGTGAGCGGAGATCGCCCCACTACACTCCAGCCTGGTCAACAGAGTGAGACTCTGTC
TCAAAACAAAAAAGGGAAGAAGTCAATCCCAACATTGCTCATCAAATTATGACCATAAATTTT
CAGGATCAGACTAACGGCTAAAGAGACTGATGCATCAACACCAGGCAGAGAATAAAGCAGATTTTTTTGTTTTG
TTTTGGAGAGCCTCTAGGAACTTGAAAAATACATATGCCACACTCTTAAGACCCGGTGGTTCTTAATCAGGGATG
TTCATTAAAAATGCTGGAAACTGTAAAGACTTCCAGGTCCCATCCAAGGAGATTTTGCTTCTGATTGACTGGCTA
GTGGCCTGGCCATTGGTATTTTGAAGAAATCCCTCCAAGTGATTCTTTTACATCCCAGCTAGAAAACCTAAATTA
AAGGTGAAAAACCAGACACCAAGTGGCATTAAATAAATGTCAACTTTAACTCC

5024/5332
FIGURE 4357

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCCGGGAGCTCCC
GGGCACGTGAGGCGGTGCGCGTCTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGAAATCGGCGCGTGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGGAGGGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAATGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATTATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCCT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTTGAAAACAACCTCTTTTATAATTATTCACTGCTTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTCATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGAGTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATTCCTAATCTC
TTTGGTATCTATACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTAATATGGTTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTAGGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCCTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAACAAAAAA

5025/5332
FIGURE 4358

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGCGGGCAGCATGAGTCAGCAGCGGCCGCGGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAGCTACA
GGAGGAACCTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCCT
CCATGAACAGATCGTCAATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTGAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGTGAGAATTTATGTATCACTGAGTTTTT
GGGAATATCTTCTGAGGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATTCAGTGCTTTTGTGAGTGAAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCTTCCCTT
CAAGGAGTATGTGATATGTACAAAAGAAATTGCCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTAAATTAAGTATTTTAATATGGTTTTTCAGTGCTAAAAAT
TGGAGTCAGATACTTCTTGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTCAGGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTGATAATCACTGTTACATCCAGTGCCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

5026/5332
FIGURE 4359

GGGCTGAATGGTCGCTGAGACAGAGATGGAAGCCAGGACAAGGGAGCCACCAGGGCCAGATAGAGACTTCAGAA
CCCCTCCTGAGAACAGCGGAGCCAGGCGCTTAGAGGAAGACCAATGTGCCAGGACACGGATTGTCCAGGGAT
TACATTCCAGCATCTTATTAGAGGACCGAAGCAGAGGGTGCTGTTTCAACGCCACCACCAGGAGAGAGGCAGAGG
GGCTGTGCCGTGCTAGAGTCCTCAGGGAGGGAGTGACCTCGACCCTGGCTGTGCTGCAAGCTGACTCCAGCCTTG
GGGTCAGCAGCACCCGGCGAACAGCAGCAGGAGGAGCCGCTAGAGCAGCTGCTCATGGGCAGAGCTGCCCTCGGG
CAACTCCTGCCACCACCCCTCCCCAGGGAGCCCAAGGCAGGGGAGGCTCAGCATGGAATGAAACAGGGGAGTGA
GGGACACAAGGAGGTGGGAAGTGGGAGGGTCCCAGCCCCACCAAGTACGCAGAGACCCCTCGACATCCTGGACA
CCACAGGGGCACCTGCAGGCTGGGAGACCAGGTCTCTGTGCATGGGCCCGGAGGCAGACCTGCCCTAAGGGTG
ATGCACAGGCTACAGGTGCTGCACGCTCCAGCGCCCACTCTAGACATCAGCCTCCAGGTTGACTAAGGGTCAGGT
CATGTTTGAACCATGCTTGGCTGGACCAGGACCCATGGCAAGAGCACCTGGGCACCAGTGTGTTAGCCCTGGTCT
GCAGGAAGGAGGACAGCAGACTTTAGGACCCCCACAGCACGGCAGTGCTGACCATTTACCCACTTGGCCTCCTTG
AGAAATATGGATGGGGAGCCCTCTGGGGATGGGCAAGGCCTTCCAGGATAGGCTCAGTTTTGGTCCCCTGCTTTT
TGAGGTTGGGTTAAAATTCCGACCATGGCAGAGGAAGCACAGCTCGGGTCCCACACCTCACTTTTACAGCCTC
TGAGGGCAGCAGTGACGCTGGAGGAGACGCTCTCCCATGAGGCCAAGGCCTCCAGTGCTCACCAGTGCCCTCTGCG
AAGTTGGGGTAGAACTCGTCAGTGAAGAGGGGCTCGGGCAGCTCACGGAAGTACAGCTTCAGCATGCCTGCGATG
GCGTTCACGTCCATCTCGCTCATCATCACTGACACGTCCTTGTTATCTGGAAGAGCACGGAATGCAGCGGCCT
CCTTGAAGATCCTGATAAATGAAGAAAAGACACAGAGAAGGATGTGACATGCCTGGGCCATGGAGCACTCTGAGA
TCTCATCGGGGACACCACTGCCACACCTCCATCCCGTCTGCGCAGGCCGACACTCACTGACGTTGAAGCCTGC
CTTCAGTGCCCTGGATGTCTGCGGCCACCCACAGCATGCGGTAGATGCCACCTCCTCCATGCCTCGGCGCTCGAT
CTCCTCCATGCACTGGCGCACGATGTAGGGCACCTTGGACCTCTCTCTCTGCGGGAGGAGGGAATGTTCTCAGT
GTCCTAACAGCCCTGCTTGGGCCATACACAGGAGACCTGCTCCCTATCTGCGCACCCGGAGGTGGGGTGAGGAC
GGTGACGAAGGTACCCAGGTCTGGGGCTGCACACAGAGCCTTCTGCATGCCTGTCTCCTCTGCAAGCTCTGTG
CTCATTGCATGTACTTTCTCAGGAACCTTCAAGCGGCCAGAACCCCTGCGAATCACACATGACCTTTGCGGGAA
GGTCAGGAGGCCTGTCTAAGTCAAGTCAGCACGGGAAGGGCATCTGACAGATTCCAGGCCTGGGGTTAGCAGCCT
GTGCCCCCGGCTGGGAGGTGAGACCCGGTGTGGTCTGCCACCCACGTGCTGTGTGAGAGGAGAAACCCTGACC
CCTGCCCTGGGCCCTTAACACACATCCGACGAATGAATGAAGGGTTGCCTCAGCACCGGTGCTCCAAGTCTGCGA
TGCTAAGTGCTTTTCTCCTCTGAGTCTTAGCAATGGACAATTCCAATACCTCCACACAGGACACTAGAGTAAGAA
TCCTTCACAGTTAGAACGCAGTGCTGTGCGGAGGCCCTTAAGTTGAGTTCTGTTTTGCACCTGGATTTACCAGCAC
ATCAAAGCTGCTTCGCAAGCCCCCTCATCAGCAGGGCTTATGTGGGGGAGCTGCTGATGGAGTCTCGCTGCTCA
TGCCCCACAGCCCTCCAGAGTGCTATGCGAGTGGCTGCCGTGCAGTTGGGGGTGGGGCGTGTGTTAGACACAGA
TAGGAGTCCAGGGTATGACTGATGGAGGCCCGGCCACGTGACCAGCAAGGTCAGAGGCCAGCCAGATTCCAT
CCTGGGGAAGCAAATGAATTCTCAGAGGAAGTGGTCTGTGTCTGCATGAACTGCTCTCAAACCAACAAATAGGCT
TCTCTGGCAACTGACTCGTGACAAAGGGTTCAAGATTGTTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
CAGTAGGTCCTGGAAAAGTAAATTCTTTATTTTACAATAAGAAAGTGATTACATATTTATTTTTTTTACAATGG
TGGAAAATTAGAAGTGATTGTGAAAATGATGTCTACCCGCTTGTGATGAGTAGGATGTGATTTGGCTCTTTAG
GAAACTGAATTTGCAGAACTTAAGAATATTGATTTATAAAGGGCATGGCCATTGACCCAGTCCATCTTATGCAAA
TCTGGATGCCATAAATAATATTTAAAAATGAAAGTATTGGGGTGGAGGTTGCAGTGAGCGGAGATCGCCCCACTA
CACTCCAGCCTGGTCAACAGAGTGAGACTCTGTCTCA

5027/5332
FIGURE 4360

AGAATGAACTGGAGCTGGCGGAGACCAAATGCGCCTTGCAAGGAGGAGAAGCTGCAGCAGGACGCGCTGCAGACAG
CGGAGGCCTGGGCCATATTCCAGGAGCAGACCGTAGTCCTGCAGGTGCGGCCCCACTCAGACGCCAAGGTGCCTC
CCGCCTCTCTCCCCAGACCTGGGGCGGTGTGACGGGCAGCTTCGCGGAGTGCAGTACAGCACCGAATCGCTCA
TGGAGGAGATGGCCAGGGCGGACCGAGAGACGCGGCTGTTGCGCGGCCCTCGCGCGCTGGCCATCAGGCGGTGCG
TGCTGGGCGCGCTGCAGGTGCTGCTGACGCTGCCGCTCCTCTTCCTGGGGCTGTCGCTGCTCTGGACGGTGCTGT
TGGACCCCGGCGCCGTCTCCGCGTGGCTCTGGAGCCTCACCTCGGAGACGACGCTGCGCCGCCTGCGCTACACGC
TGTCCCCGCTGCTGGAGCTGCGCGCTAACGGGCTTCTGCCAACCTTAAGTGCAGCGCCCCGCGCCTGGCTCCAGGT
GGACTCCAGGGCACCTGGCTTTATTTCTGGTGCACTCCTCTCCTGAGAGTGTAGACCAAGGTTGCCTAATAAACT
CAAGGGATGAA

5028/5332
FIGURE 4361

GAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGCGACAGAGCGAGACTCC
ATTTAAAAAACCAGGGCATCTGTAAGCCACTTTGGGAGTCAAAGAATGTAGAGCTGGGCTGGACTCC
TTAGAAGAAAGTTAAGTTCTGAGTGTGGGAGGAAGTGCCTGCACCCCCACATCCAGACAGCCCGTCACTCCTGCT
GCCGAAGACTGACTTGCTGATTCTGGGCTCTGCCTCCATAGTGGGGGCACAGAGCCAGGGAGAGTGCCACAGGCC
CAGGGATCCTGGGTGTGGGACCAGGGAGAATGCCACAGGCCCCAGGGCCTTTTTGAGCCAGGGCGCTCTCTGC
ACAGGCCCGCTACAACCTTCATCCGAAGCATGGCCGCCTACAGCCTCCTGCTGTTCTGCTGCAGATCAAGGACAG
ACACAACGGCAACATTATGCTGGACAAGAAGGGCCATATCATCCACATCGGTGAGCCAGCCACAGCGCCACCCCTC
CTCTCCCTTACCCCGGCACCCAGGGGTGGATAGGGATCCCCACCCACAGAGAGGAGAATGCCAGGACCACCC
TGCCAGGAGTGTAGGGTCCAGCTCTGAGGTCCGAAGTGTGCGCCACCAAGCTGTTCTGCTGTAGAGGGTGCCTG
GCCCCGGCCCCAGGGAGCTGGGGCGAGAGCCGCCATTGCTCTGAGTCAGAAGCTGGAGCTGGGCGGAGTGGGGCT
GGTCCAGGTTCACTGCCCCAGCTTGGCTCCTTCCCTCCACTTCCCTCCCTTCTCTTTCTCTGCCTGCTGCCCCACCA
CCCACCCCATCACTGTCTCCAAGAAAACACAACCTGCCTTTTGGGGGTGGAGGGGGTGTCTCCTGTTGAAGAGTCC
TTTTCCACTCCTCAAAACAGACCACTCGTCTTGGCCGCCCTGGCTCCTACCCAGTCACAGGCAGCTCTTTGGGG
TTTTGCAGACTTTGGCTTCATGTTTGAAAGCTCGCCGGCGGCAATCTCGGCTGGGAACCCGACATCAAGCTGAC
GGATGAGATGGTGATGATCATGGGGGGCAAGATGGAGGCCACACCCTTCAAGTGGTTTATGGAGATGTGTGTCCA
GGCTACCTGGCTGTGCGGTGAGCCTGGGTGAGGGCCAGGGTGGAGGCGGAGGGGGTGTGTGGAACGTTCTGAGAT
CCCCTTTAGGATGAAGGGAATCGGGTTCAGAGAGTGAGGTAGGTGCTAGCAGCCACCTGCTGACCTACACCTGT
CCTTTGGTCACTCTGTCTGCCCACCTGTGCCAATAAATCTTGCTCTGGGCATCTAATTTCAACCACTTCCCC
ACAATCTGCCCCACGCCTTCAGCCATGGGCTCTCCCTTTCTGGGCATCCCATCCACCTTGTACCAAAGCCTGAG
CACCTGCCACCCACAGGCTACGTGCCAAAGATGGGCTTTGTCCAGTTTCATATACAGGTCACTTGGCCAAGGC
CACAGTCCAACCTGGGTTTCATCCCCACTGCCCCGCAGAGAAAGGCAGGTGAGCGTGTCTGCATCCACCCAGGTG
CAGAAGCCATGGCCGGCAGCCTTATGTGGGGACAGGGCAGGACACTCAGCCTGTCCAGAGTGGTATGGGCAGC
CCTTGCCCTGGGCAGTACGGGTGACCGAGTGCAGCAGATCGAAAGTTGCCTCGGGGATGTGCAAGATGTGGCAGGC
GAGGTGGGTGGCAGGAGCCACACCTGAGGCTGTTGGCATCAGCCAGTCCACAGGACTACAGGCAGGGCCACCAC
CTAGGCTGGCCTCAGCCCACCGCTCCCTCCTGTCTCTCCCCAGGCCCTACATGGATGTGGTCTGCTCCCTGGTCA
CTATCATGTTGGACACGGGCTGCCCTGTTTTCGCGGCCAGACAATCAAGCTCTTGAAGTTTAGCCCCAACATGA
CTGAGCGCGAGGCTGCAAAATTCATCATGAAGGTTCATCCAGAGCTGCTTCCCTCAGCAACAGGAGCCGGACCTACA
ACATGATCCAGTACTATCAGAATGACATCCCCTACTGAGGAGGGGACCTTCGAGGGCCTCTGCCCCATGTGCCCT
TGAAGCTGCCCCACAATCATGGAGCCCTGCGACCTACCCGCCCTGCCGCCACATGCAGTGGAGGAGAGGCCTGTG
GCCCCAAGAGCCTGGTAGCGCCTCCTGGGGCAGCACGTGGGTGGCGCAGGCTTAGTAACGCCGTGGACTGCAGCG
ACAATCAGTGGATGGTGCTGTCTATGCACAGGTGTGAGTCCTCTGTTTGCAGTGGACATATTCCTACCTGTTTT
ATTTCATAGGTACATGAAGTATTGTGTATAAAAAAGAGATAAGATTTAACCAACATCAACAAAATAAAAAACCA
AAATAGTG

5029/5332
FIGURE 4362

GAGCTTGAAGAAATCCGCAAAATGTGGGATGAAAAACTTCCGTAACATCCAGGTTGATGAAGCTAATTTATTGACT
TGGCAAGGGCTTATTGTTCCCTGACAACCCCTCCATATGATAAGGGAGCCTTCAGAATCGAAATCAACTTTCCAGCA
GAGTACCCATTCAAACCACCGAAGATCACATTTAAAACAAAGATCTATCACCCAAACATCGACGAAAAGGGGCAG
GTCTGTCTGCCAGTAATTAGTGCCGAAAACTGGAAGCCAGCAACCAAAACCGACCAAGTAATCCAGTCCCTCATA
GCACTGGTGAATGACCCCCAGCCTGAGCACCCGCTTCGGGCTGACCTAGCTGAAGAATACTCTAAGGACCGTAAA
AAATTCTGTAAGAATGCTGAAGAGTTTACAAAGAAATATGGGGAAAAGCGACCTGTGGACTAAAATCTGCCACGA
TTGGTTCCAGCAAGTGTGAGCAGAGACCCCGTGCAGTGCATTGACACCCCGCAAAGCAGGACTCTGTGGAAAT
TGACACGTGCCACCGCCTGGCGTTTCGCTTGTGGCAGTTACTAATTTCTACAGTTTTCTTAATCAAAAGTGGTCT
AGGTAACCTGTAAAGAAAGGATTAAAAATTTAAGATGTTCTAGTTCTGCTCTCTTTGTTTTAAAAATCACTGCTT
CAATCTACTTCAAAGAATGGTGTCTTTCTTTCTGTCCAATTTTATCCAAAATCTTCAAGTTACATTTAACCCAT
AAGGTTTTAAAAAAAGGAAAAAAACGGTGTGGTTCCTTTCTTCCCTACCCCTGCCACTCCCACTTTCTGGCA
CCGAGTTTATTTTTCACTTACTTACTTCCCCAGACCCCGGGCTCGCCTCCACAAAGGAGAAAAGACTGCCCTGGC
GGTCTGGTGGCTTTTCTTAGCATGTGTGGCACTGTTGCCAGTGTGGGAGTTGGTTTAAATTCTCCTGACTCCA
GTTTATAACATCCTTTTTAAAAAATTTAAAAACAAACAGCCACACCCCTCCTCCAGTCCTTCTCCTCAGTTCTTGT
GTGAAACTCCAGCTGATGTTACCACAGTAACATCAGTTAATTGGGCAAGCCCTGATGTCAGTGTGTGTAACFGAC
CTCTGGCCTGGCCTGCACAGAGAAGCCCTATAATCACAGGTCTGTGGTGGCCCCGAAATGGGGGGCCTGCTAGTC
AGGAGGATGCTGTGCACACTGTGTGTGATGAATCTCGCCAGAAAGGCTCCTGAGGTCCCAGGTTGGCACTTCTCC
CTGCAGCCATTGTAGAAGATCTGCTGGTCTTGCAGGCAAAGCTACAGCCAGAATGTCCGTTTGAAACTCCTAGC
TCATCTGTACCCGAGCTTCAATCCGAATGTGCCACGGAGCTTGCTCTCCACTTCCCTCCGTGCAGTGGCCCTGCCAC
AGCCCTCCCTCGGCACACTTTGACCCCTTTGTAGGATTGGAATTAGCAGGACTCGGCTATTTAAAGCACCAGTCTG
GGGTGCGCTGGGCCCCCTGCTGACCCCTCCTCCAGAGCAGCCAGCCAGCCCGGGAACAAGACGGACTTCCTCTC
CCTTCGGACTCACAGCCTTTGCAGAGTCAAGCTCCAATTGAAGCTCACTCAGTAATATCCTTTCAATGTGTTTTA
TATTGTTTTGACTGCCTTTTTTTGTAGAAATAAAAAATTGACCTTAGAATTTATCGTCAGATAAACTTGTAAGAT
TTGAATATTAATGTCTTTTCAAGGCAATGGGATTGTCCCCGCACTAGTAGAGAATCCATGTGCTCTGACACCC
CAAGGAAGCCGACGATCCAAATGCCGTGTGTACCAACCCCGCTTCTGCCACTGGCGGCTTCCCTTCTTGGCTCT
TGGGGGGGACTAGATCCTGTGGAGAAGATGACTTAACTTTGCTTTTTGTTTTAATTTAATTCTATAACTTGAG
ATCTTTCCGGGGCCTACAGGCGTGTAAAGACAGCTTGGTCTGGTCTGTGCAGAAGTGGGAGTGATGGGCAGGTTT
GGCAGCCTAACATTGTTTCAAGCGCATGGCCCTGCGGTGTGTACACGAACCTCGGCTTCTTTGTCTAGGTACGC
CAAGGGCAGGTTTCTGGAGACTCCCTTGTGCCCGGATGGCAAGGGCACCGGGCTGGCGTTTCCACATCTGTCTT
CATTAGCAGAAAAGTGATGATGGATTTTATTTCACTCACACTCCAGTTTGTAAATAAAATGCCAAATTTCTGTCAGC
TATCCAAACAAGCCACCATTGTTCTTGTGTCTCTGTGATCCAGAAATGTTGCCATTCTTGGAAACTGTCCCA
TTGCTTCGTATTTCTGCCAACGTAGCTCTGCCTGCCTGTCAACCCCTCACTGCACTCTGCTCATCACGGGAGGAT
ACCTGTGTGCCGGCAGCCCTCAGGGACTCTCAGCCCTGGCACTGGCACCCCAAGGTTGGCCCCGTGAGCAGAGG
CTTGGCTTTCGAGCCAGTGGGTGTCTCTCCTTTGGGCCTGGGCGGCTTGCTCCTGCCAGCCATGCCTTCAGGGTA
GGCTCTGAGCAAGCTGGCGAACAGCCCTGGCTGCTCCAAAACCAAAAAGCTGGGTCTCTGGAGGAGGGGCGAGC
TGTGGAGCAGCCACCCACTGCTGCCCAAGCTCACTCAGGAATTCACACCCGCTGGTTTCTTGAAGTGTGCTGG
GTCTTCCCTCTGCTCCTACTCCCCACCACGGCAGAGAATAGGCTTTCTAAGATGCTGCGATCCCGTTCTGCTG
CCCGTAATAAAATGCTCTCAGACACTG

5030/5332
FIGURE 4363

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCCATGTCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGCGGAGCTGGCCCGCAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCCGTGGGTCCGGCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCGGAAGGCTTCTTCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTGCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCGGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCACTTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGGCGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCGACGCTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCTCTAC
CGCGCCACGCTGCGGGCCAGCTTGCCCAGGATGGCGTGACGCTTTCGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCTCATGCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCGCAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTCACCACTGGGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTTC

5031/5332
FIGURE 4364

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGC
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTCCAGCATGTGGGCACCTCTG
TGTTCTGTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACCTCTGAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGTCCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

GAACCTCGGCTCGGGCTCCATGGTCTGAGTTGTTCAGCCGTTGTTTTTCGTGCTCGCTAGTCGCCGCCGCCGCTCC
GCCATGGGGAAGCGACAGCACCAAAAGGACAAAATGTACATTACCTGTGCTGAATACACTCACTTTTTATGGTGGC
AAGAAGCCAGATCTCCCAAAACAAATTTTCGTGCTTACCTTTTGACCACTGCAGTCTCTCTCTGCAGCCCTTT
GTCTACCCAGTCTGCACTCCCGATGGCATCGTCTTTGACTTACTGAACATTGTTCCATGGCTTAAGAAGTACGGG
ACCAACCCCAGCAATGGAGAGAAGCTGGACGGGAGGTCCCTGATCAAGCTGAACTTTTCCAAGAACAGTGAGGGG
AAGTACCCTGCCCAGTGCTGTTTACCCTGTTTACCAACAACACCCACATCGTGGCTGTGAGGACGACCGGCAAC
GTCTACGCCTATGAGGCAGTGGAACAGCTAAATATCAAGGCCAAGAACTTCCGGGACCTGCTGACCGACGAGCCC
TTCTCCCGGCAGGACATCATCACCTCCAGGACCCCACCAATTTGGACAAGTTCAATGTCTCTAACTTCTATCAT
GTGAAGAATAACATGAAAATAATAGACCCAGATGAAGAGAAGGCCAAACAGGACCCGCTTATTATCTGAAAAAT
ACAAATGCCGAGACCCGAGAGACCTGCAGGAGCTCTACAAGGAGTTCAAAGGGGACGAGATTCTGGCAGCCACC
ATGAAGGCCCCGGAGAAGAAGAAAGTGGACAAGCTGAACGCTGCCCACTATTCCACAGGGAAGGTGAGCGCTTCC
TTACCTCCACC CGATGGTCCCGGAGACCACACATGAAGCAGCTGCCATCGACGAGGATGTGCTGCGCTACCAG
TTTGTGAAGAAGGAGGCTACGTGCGGCTGCACACCAACAAGGGCGACCTCAACCTGGAGCTGCATCGCAGCTG
ACACCAAAACCTCGAAAACCTTTCATCAGGCTTTGCAAGAAGCATTAATACGATGGCACCATCTTCCACAGATCC
ATCCGGAAACTTTGTGATCCAAGGGGGCGACCCACAGGCACAGGCACGGGTGGGGAGTCATACTGGGGGAAGCCC
TTCAAAGACGAGTTCGGGCCAACCTCTCGCACACGGGCCGCGGCATCCTCAGCATGGCCAACTCCGGGCCAAC
AGCAACAGGTCTCAATTCTTCATCACGTTTTCGCTCCTGTGCTTACCTGGACAAGAAGCATACCATCTTTGGACGG
GTTGTTGGGGGCTTTGACGTACTGACAGCCATGGAGAATGTGGAGAGTGACCCAAAACCTGACCGCCCTAAGGAG
GAGATCCGCATTGATGCCACTACAGTGTTCTGTGGACCCCTATGAGGAGGGCCGATGCCCAGATTGCGCAGGAGCGG
AAGACACAGCTCAAGGTAGCCCCGAGACCAAAGTGAAGAGCAGCCAGCCCCAGGCAGGGAGCCAGGGCCCCCAG
ACCTTCCGCCAGGGCGTGGGCAAGTACATCAACCCAGCAGCCACGAAGCGAGCAGCAGAGGAAGAGCCCTCAACC
AGTGCCACTGTCCCATGTCCAAGAAGAAGCCAGTCGGGGTTTTGGGGACTTCAGCTCCTGGTTAGCAGCAGGTT
GGCCGCTGTGGACCTTGGTGGGGTTGCAGGGCTGGGGGCCCATGTCCACATCTCCATTTCCAGCCTTTCTAGCCT
GCCCTCTGCTGCCAGCCAATAAATTGCTTGCTTGCTGCCTGCATCCCTTTCTGTGGCCCTGGGAGGCCACAGCC
TTCCCATCCCTTAACCTGTTGCCAAGGGCCTTGCCCTGTTTCCAGGACCTGGCCAGCCAGAGCCCACTGCTGG
GACCTTCAAGCACAAGGCCTGCCCTACACCCAGGCTGGTGCTCAGGCCTCCCCTCTAGTAGGCAGGCCAGGTTA
GTGAGGAAGGACTGTGTCTCCAGATTGTGTTTTCTCTTTAAGACAGGGTCTTGCTCTGTTGCCCAGGCTCCAGT
GCAGTGGTGTGATCATGGCTCACTGCAGCCTCGACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCCTCGCAAG
TAGCTGGGACTACAGCCGTGCACCACTACATCCAGCTGTATATGTCTGGTTTTCTTACCCCTACTTCTGTCTCT
TCTCAGGGACAGCCTATTTATACAACCAGTGTGGTCCCTGACCAACGCCATTACCTGGGACAAGTTTTCAGACC
CCAGACTTACTGAGCCTAAGCCTCTGCAGGGTGGGCTTCTCGGTCTGTTTTGACAAAACCTTCAGGGGCTTCTGAA
GGCTGGTGTGAGCAGGCAGCATTTAGTTTCTGCGGTGCCCTGCCTGAGCTCTCAGGGCCCTGCTCACCCTGCTCT
GGCTGTGTAACCACTGGGCTTCACTCAAGCCTGCCCTGGCGTCTCTGTGCCCTGTGAGAATCTTGAGGGGACCC
ACACTGGGTTGAGGCCAGTGCTCCTGCTGTGAGAACAAGTGGAATGTCCCTCTCCCGCCCTCTGCTGAAGTG
CCTTGCTGCTCTCAGGCCCCGCCA

5033/5332
FIGURE 4366

TAAATTTCAGAACTTCAAATTGGCTATTCTCTTGCAAATGAACCCTTAAAGTACAGTGTTATTTAAGAATCTT
CCAGAGGCAGTCAACAGACTTATACACTAAGGGCATTITTTGGTTTTAGCTTGTTCAAAAACAGAGGCCAGCACA
GATGACATTTTAGATACACTCTAAATTGAGAATGGTGTCTAGTGGAACATGTTTATTTAAGCCAGTAGATTCTT
ATCTAGAAAAGCAGGTGAGCTAGCCCTTAGAGAAGGCTGTCCCGGGGCCCGCAGAGGTGCCCTTACTGAGGTGACA
GCCTCACAGGGTCTGGTACCAGGGGTTGTGCCCTCAGCAGTGACAGCAGCTTAGGTGTCAGGCAGTTGCTGAGTG
GCTGGTCCATGTCTATAGAGTAACACACTGGACCCAGGAAAAAGTCAGATTTTCTATTTCTACCCTGGATGTACTTG
AAGAAAAAGAATTATTTTGCATATGAAAGAGGGCCAGAACCACAGGAAAACTTCAAACTTGACATTTGCCAG
AATGTTTAAATTTGTTTCAGAAAAGGTTAAAGCAACAAGTTTAGCCTTTGTGCATGAAGACGCCTGGCCTGCTAG
ACGCGTTGCCCGTCCCTGCGTGGTGTGTCCCATGTCACTTGAAGTATAGAGGGGCTGTGCAATCTCCTAAGG
CCTGTGTTTCTGCCATATATTTTATTATAAATTACAATCCACTCATCCACCTGCCCTCCACCAGGAGTGGGCACC
CCATAAGGGTTTAGGCCACTTTGCAGAGGATGGAGGTCAAAAACCACTCCCAGATAAGTTTGGTTTTCAACATTT
AGTAACTTGTCTCAGGGCAGAGGGCAGGCAGGGGGACCGAGGGGCAGCAGATAGGAGAGCACTGAGCCCGGATAG
TTCTCAGCCTGGCAAGTGGCTCTGAAGCTGCCTTCAGACAAGGCTAGTCTAGGGGCAAGAGTGCAGCTGGCTGA
CAATAAGAACGTGGCCACCTGCCAGCTTCACACCTCCCCGACTTCAGCCCTTCCTAAACCCAGACCTGCGGTC
CAGGCAGGCAGTGGGCTGTGCCACTCGAGCTCACTGCCACACACAGCATGCCTTTGGGTGCCATCTCTTTGCC
CAAGCCTGGAAGCCTTGGCAGGTGGGAAATGCCGCTGCCCTGGTGGGCATGGCACTGAGATGCATCCACTCAGCA
GGAGTGACAGAGGCAGAAGTTCCTTTAAAGCACATCTTCCACTTAGGAAAGGAAGGAAATCTTTGTACTGTCTTG
GAAGCCTCCACATCCGGCTATGGCCCTGCAAGCTGCTTTATCCCTGCGTAGTCTCCCCCGAGGGTTTAGGCTGG
CCCAGCACATCCTGTCTCCTGAGCTCGCGTGCAGCCACCCAGAGCGCAGGGGTCACTGCACGCTGCAGGGCTCT
TGCTGCCATGGTCTCAAGCCTGAAGAGGCTCCGCCCCACAAGCTGGCCCATGAAGTTAGCAATGCCTGTGGCTTCA
GTCAATTGTCTTGAGACTGTGAAGAGGCTGAAAGACACCTTCCCGGGTGGGAAGAGGAGTTCACTGAAACTTAT
CTTAACTGACCCTTCCCTTTGAGTGAGTCTTTCATTCTCTCCCATGTGGGAACCCAGCCTCCGATGCCCCGGGG
ACTAGGGGAAACAGTTGGAGGTTCTGCCGTCCCCAGCCTGCCACGGGTGCGAGGACAGCCAAGTCTGAGTGAC
TCAAGATGCTTCACTTACATGGAAGAACTTCTAAACTCTACCGAGTGGTTTTTGTATATACTAAAGTTCTATT
TAGAGCTTTTCTGTTTTGGGCAAGTTCGCTGCTCCTTCTATTTGGGCACCTTGGTTTTTGTACTGTCTTTGTGA
CGGCATTGATTGAACATTTTTTACTAGTAGTCTTATGACTTTTGTATTTTTTTTTTTTTTTTGTAAATTTATACCAA
CAACACTTTTATCACTTTTTTTTTTGTGGGCTTCTGAAAATACAAGCTCATTTTTAAACCAAATGAACAGACCA
TGAGCTGGCTTCAGGGGAAGTGCTATTACAGGACCATATCCACCACCCTCTTAAATTCCTAAACAATATCATCT
AGGACTTCTATTTAAGTTATTTAAATAAATCTTCTTGAGAGCCTTGGGAGGTGATGTCAGGGTTATAAATGGC
ACAGTGCAATTTGCTGTAGGAATGTGGTTTGGCATTGTTTTATACACACAGTATTTTTTATACCTTAATGCTTATT
CTTGATGGCATCTGTGAGATATTAGAATTGAAAATAAGAATCTTCCCAAAATCCTTAAATTTACCTGATGCCCTC
ATCAGGTGCTTAAAAATTCAAATGGTTTTAATAGCTAAAAAACTACAAATTAAGCTCTAAAACAACAACTACA
GAAATGTAAACCTTCATTTGCCAAAGGTCCTTGGTGGCCTGTCCCTGCCCTGGGAGCAGATGGCCCTGAAGCCC
TTCCCTCACTGTGCAGGCCACCGGGTGGGCTGGACGGTCACCCATGGTGGCTCACTGCAAGGAGCAGGACTGC
CGAGCTCAAGCACGGGGCCTTCAGCTTCCCTGTCTCTGGCCACACCGCCAGCCCTTGGTCCTTAICTGTGTGA
GGTTTACAAATAAAGCTTCTGATGTCAAATGTT

5034/5332
FIGURE 4367A

CTGTTTTCTCTTTATTTGCTTATATGTTAATATGGTTTTTAAATTGGTAACCTTTTATATAGTATGGTAACAGTAT
GTTAATACACACATACATACGCACACATGCTTTGGGTCTTCCATAATACTTTTATATTTGTAATCAATGTTTT
GGAGCAATCCCAAGTTTAAAGGAAATATTTTTGTAAATGTAATGGTTTTGAAATCTGAGCAATCCTTTTGCTTA
TACATTTTTAAAGCATTTGTGCTTTAAATTGTTATGCTGGTGTGTTGAAACATGATACTCCTGTGGTGCAGATGA
GAAGCTATAACAGTGAATATGTGGTTTTCTCTTACGTCATCCACCTTGACATGATGGGTCAGAAACAAATGGAAT
CCAGAGCAAGTCTCCAGGGTTGCACCAGGTTTACCTAAAGCTTGTTGCCTTTTCTTGTCGTGTTATGCGTGTA
GAGCACTCAAGAAAGTTCTGAAACTGCTTTGTATCTGCTTTGTACTGTGGTGCCCTTCTGGTATTGTACCCCAA
AATTCTGCATAGATTATTTAGTATAATGGTAAGTTAAAAAATGTTAAAGGAAGATTTTATTAAGAATCTGAATGT
TTATTCATTATATTGTTACAATTTAACATTAACATTTATTTGTGGTATTTGTGATTTGGTTAATCTGTATAAAAA
TTGTAAGTAGAAAGGTTTATATTTTCTTAAATCTTTTGATGTTGTAAACGTACTTTTTAAAAAGATGGATTATT
TGAATGTTTATGGCACCTGACTTGTAAAAAATAAATACTACAAAAAATCCTTAGAATCATTAAATTTGTGTCCCT
GTATTACCAAAATAACACAGCACCGTGCATGTATAGTTAATTGCAGTTTCTCTGTGAAAAAGCTGAAATTTGTCT
AGTCTTCGTTATGTTCCCCAGATGTCTCCAGATTTGCTCTGCATGTGGTAACCTTGTTGTTAGGGCTGTGAGCTG
TTCTCGAGTTGAATGGGGATGTCAGTGCTCTAGGGTTCTCCAGGTGGTTCTTCAGACCTTCACCTGTGGGGGG
GGGGGTAGGCGGTGCCCACGCCATCTCTCATCTCTGAACTTCTGCAACCCCACTGCTGGGCAGACATCTCTG
GGCAACCCCTTTTTTCAGAGCAAGAAGTCATAAAGATAGGATTTCTTGACATTTGGTTCTTATCAATATTGGGC
ATTATGTAATGACTTATTTACAAAACAAAGATACTGAAAAATGTTTTGGATGTGGTGTATGGAAAGAGCACAGG
CCTTGGACCCATCCAGCTGGGTTCAGAACTACCCCTGCTTATAACTGCGGCTGGCTGTGGGCCAGTCATTCTGC
GTCTCTGCTTTCTTCTCTGCTTCAGACTGTCAGCTGTAAAGTGAAGCAATATTACTTGCCTTGTATATGGTAA
AGATTATAAAAAATACATTTCAACTGTTCAAGCATAGTACTTCAAGCAAGTACTCAGTAAATAGCAAGTCTTTTTTA
AATGCTGCTTTATTTCACTAAATTTTGTGTGAGGTGTCACTAAATGCCTGCAACAAACGTAACCTGCTAATCT
GAGAGGAAACCCCTCTTACTAATCAGAGAAGAAACCCCTCTGTGCAAAACCTTCAGGGAAGTGAGCTGATCACACC
TAAACTGGGAGTTTGCAATGGGGTATTTGAAGCACTGTGGGAGTATTCCACTGGCCCTCTCCCTGAGAGACTTAA
CAGTCTTCCCTGTTGTCCAGATTCTGTATAAGGCAATCAGAATAATCATCTTCCCTGTTCAGCAGAGGAGCCTGG
TCCCATTTTTCCCACTTTGTGATGGGCTTCTCTCAGCGGTAGCTCAGCAGTTCAGATGGCAGTTTGGACCAGCA
TCTAGGCTGGCCAGTTGCTGTGTTTACTTAGAACCAACACGTTTCAGAGCTGGCCTGGACCATCTGAGGGGAACA
GGAAACACCCCTAGGCTGTGGAAGCAAGTGCAGACCCCCACCCCGGCCCTGAAGCCAAGGGGGCAGGGTTTGGG
AGTGGCCAAAGAGAAGCAGTGCAGGGATGGGTTTTCTAGGGACAGGCTTAGCATTCTGACTCTAGGAAGAAGG
AGCAGTGAGGCGGAGAAACAGTGGAGGGGATGGTGGCATTGGGCCCATGGGGCCGAGATGGACACAGGGCTCGT
TCTCTTGAGTCTGGTGCCAAGGACAGCTGAAGACGACATCATTTTTCAGGTGGAGAGGAGAGAGTGGAGGGAGATC
ATGCCCTGTGATGTGTCTTTTGCAGGTGAAGGTGGGAGACAAGGTCTCTGCTGACGATGAGGCAGAGCCACCGTG
AAAGTTGTAATAGGAGGACTGCCCGCCGCTGGAAGGGCCTGCAGTGACGCTAGGACACCCCTCTGCCTGCATGTCA
CGTTAGCTGGGCTGGGCGAAGTAGAAGACCAAGGGGAAGAGGTGCAGTGGGGAGACCAGGTGGGATGCAACCACA
GGACCAGTGGAGGGGCTGTGGCACGTGGGCGGAGACTGAGTGGCTGGGCATGTGTTGTGGCTGAGCATGTGGTGT
GGGCAGTGGTCTTAGACCCGCCATGTCCGGACAATGATATAGAGCGTCTCAGCATCGCCAGTCTAGACTGTCTA
TGGAGAGCAAAAAGTTGTCTGGGGCTGCCTGGGGAACGTGAGGCCAGCTATATCACCGTCGCTGATGGTGACAT
TACGGTGGTGGCAGGAGCAAGGAGAGAGGAAGAAGACCCCGTCCAGCTTTAGTCACAAAATACCCAATGGAAG
ATGCCAGTGCCAATCCTGTGGGTTTCCCTGGGACTTCACACTGGCTTTCTTATCTGCTCCAGATCCATTTCAGTAG
TCACTGAGTTCTGCCAAATACCTTTGTAGCGCCAGAAGCCAGGAGCGGGGTCTGCAGCAGGGCAGTCCCCATTTT
CAGGAAATGCCTGGAGCTGCTGGTCCCTGAGAGAAAGGAAAACATCTTTCAGCCGTACGCAGGCCAAGAAGGCCA
ATGTCCAGTAGCTTTGTGATTTTTTTTATATTTTTTTATTTATTTTATTTTGGAGATAGAGTCTTGCTCTGTCTGCT
CAGGCTGGAGTGCAGTGGCGTGATCTCCACTCACTGCAACTTCCGCCCTCTGGGGTCAAGCAGTTCTGCCTCAGC
CTCCCGAGTAGCTGGGATTACAGGCACACGCCACCACACCCAGCTAATTTTTGTGTTTTTATAGTAGACGGTTTC
ACCATGTGCGCCAGGCTGGTCTCAAACCTCTGACCTCAGATGATTACGCCCTCCCAAAGTCTGGGATTACAGGTG
TGAGCCACTGCACCCAGCCTGTGATGTTTCTGTGGGGTTCCACAAATGTGTGTGTGTGTAAGAGCTGATGATTAC
AGCAAGAATGTGAACAGTAGCAGTTTCCATTTGAAGGCAAGTTTGTCTTTATCTGGGTATCAGAAGGACCCTC
TGGGCCATTGTGCTTCTGTACTCAGAGCCACCCTAGTACTACGGGCACACACAGAAAACAGCAGCCTGCGTAC
TTTCAAAGGAAAGGCATCTTAAATACCAATGCCTGGAAAAATTATTTGTTTCCCTCTTCTTCCGCTTGTGTT

5035/5332
FIGURE 4367B

CCTAACTTCTTACCAAAGTTTAGAGTCTGAGTTTTTCGTATAATAATGTCCCACATCCACACATCGGGCCTACAG
ATGCTCTCCCTTGAATCGACTGGAAACATGACACCGGTTCCATGCTCTGGAAGTGTACCTGTGATGTGCTGGGC
TGTGTCCCAAGCACAGGAATCCCAGCAGTTTCAGCTCGATGCAGAACCACCATGCTCCAGACACAGGCTTGGGAA
AGACACGTCAAAATTAAATACTAGGTAAGAGAAGCACCTGATTGGGTAGAAGTTGGAGAGGAATCCTGGAATTT
TGTGGCCAGAAGGAGCCACTGCCCTTTTGTITTAGTAAGACTAGACAGTAACAGAAGCCAGTTGTCAGCTATGAA
AGTGGTGGGTGAAGCAGGGGAGGCTCCTCTATGGTGGGACCCTGGACAAGGGAAGCCGAATGTGTGAAGAAGGGG
TGCGGGGGTGTGCGGTGCCCTAGGACACTAGGGCAAAGGTTTCAAACCTGGAACAAGGCAGTGGAGGAAGATCTG
CTGCCAGTCAGCAGTGCAGGGCCCTCGAGTTAGCAGTCCGTGCGCAGAGGGGCCAGTTCTGAGACCAGTTTGGAGA
GTCAGGCAGTGACCCATTGGCCATGTCATAATTCCTTCAGCCTGCCCTCCTTTAATCCCAGAGAAGTCTCTTTC
TTCATACTTCCTTTAAAAATACTAAATTTGTTCCATTCCATGGGGAGCTGGCTAGGCTTTACAGGCTAGGAAATGT
AGGTTTTCTGAGATGGAACCATCTACACAAGGAGGAGGAAGGCACTAAGACTACAGATGAGACCCATGACAGGGC
TGAGCATTGGAAGCCAACCTGGTTGCTTTTTCAAGAATTGCTTTGTGGCTGGGTGCAGTGGTTTACACCTGTAA
TTGCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTGAACCCAGGAGTTCGAGACCAGCCTGGGCAACATATG
GGACACCCACCAGCCCCCGGCTCTGCAAAAAAATTAAAAATTAGCCAGGCGTGGTGTCTATGAGCCTGTGGTCTCA
ACTACTCAGGAGGCTGAGGCTGGAGGATCGCTTGAACCTGGGAGGTCAAGGCTCCAGTGAACCATAATTGTGCCA
CTGCACTGCAGCCTGGGCGACAATTTGTTTTCTAAATTGCTTTTGAAAGTCTACTGCATTACATATTCCAAAAAG
CAGTGGTTTTCAATACTTTTATCACCGATATCCTTTTATGAAATGAAATCAGTAGAACTTTCTCTGCTCTGAAT
AAGCAAGGGTGGGAACCTGTCTACCTCCACAGATAGCATAATGTGCCTGCCATAGAGGAGCCAAAAATGGTGA
TGGGAAGTGAAGGAGAGCAATGTCAAAAAGACTGAGCAATTGAGAAAACAAAACAAGACCACAGATGACTGT
TAACGCCTCCACAGTGGACCAAGAAAGGACAGAGAGCTGGCAGCATGGGCATCACTGTCTGGTCGGCAGCAGGAA
GGCCTCGCTAGGGAATTGAGTACAGTCATCTAACTAGTTTTAAAGTACAGGAAGGATGATTAAGGCTATTGGAGA
GGTCATACAAATAGGGGAGGGGCAGGCAATGGCTGATAAGACATGAATTTGTAAGGCGATGAGTATTGCAGTCAG
CAAAACAAACGAGACTGCTCTCCCAACACATAACTCAGCAGGGAGGCCAGGCATTGGTTTAACCATTAAATATAA
AGAAGTTAAATTACAAATGCGCTAAGTGCCTAAAGAAGAATAAGTGCAGGAATGAGAGCAGCATGGACTGCCAC
AGTTTTAGAATAAGCACTGTCACTGCTAGATTGGAACAAAAATCCATAAATTTGGCCCCGTGTGGTGGCGGACG
CCTGTAGTCCCAGCTACTTGGAGGCTGAGGCGTGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCG
AGATGGCGCCACTGCACTCCAGCCTGGGCGTCAGAGTGAGAACTCTGTATCAAAAAATAAAAAATAAAAAAGTC
CATAAATCTGCAATGTCTCAGTTAAGAAAGAAAGACTGGGCCAATGCAGATTTCAAACCGGAGAAAGTCATACTG
TCAGTGAAGGCCCGCTGTGGCCGAAGGCGCCAGGGGATTAGCACCTGGACTCAGTGTTGCTGGGAAACAGGGC
CCCAAGGCTGGGAGCACAGTGTAAAGGGCATCTACCCAAGAAGGGAGCACAGGGCAAGGAGGAGCTGCAGGGG
GGCTTGGCTGCCAAAGTGAATTCTGAGGAGAGAGCTATTGCTGCCACGATATGCAGGCTGCACAGAACAAGT
GGAATCAGCAGGCAGGAGAGGCAGCTAACGACGCAGCCCGTTTCTTATTTCTGTTTTCTCACAAGCGATGAAAGT
GGAAAAGAGGGTGAGCAGGTGGCCACACATGTGCCTCCAGTGTGCGGCCCTCCGGGGACCATCAGCCAGGCC
CCGGGGAGGGAGCCAGCCACAGTGTGTCCGGCTCTTCTCTGAAGGGAAGAGAGCCTTGAATAGACTGAAGCGAAG
ACGGTTCTGCAAGGACAAGGCAGACCGAAGGCATTGGTTTTTTTTTTTTCAGATAAGGAGAATTAGACTCCCAAGTA
GACACCAGAGTCACTGTTTGGTTGGTGGGTGATAGTGGGTCACAGTGGCTGCCTGTGCTCCCCAGGGTGAGCG
TGACTGTGCTAACCTGGGTGGGGCAGCATGCACACCCCTCTGGCAGCCCTTGTGCTCGCTGATGACAAGTTTG
GATGATCCCGCCAAACAGCTTGCTAAGATGTAGTCCCAGTGTGGAGGTGGGGCCTGATGGGAGGTGCTACCCT
TGTGAGATAAGGTTGTGTAAAAGCCTGTGGCACCTCCCCACACTGACGCTCTACCCCTGCTCTGGCCATGTGCC
GCGCCTGCTCCCACTTCCCTTCTGCCAGGAGTAAAAGCCCCGAGACCTCCAGAAGCCAAGCAGATGCTAGTG
CCATGCTTCTCTGCAGCCTGCAGAACTGTGAGCCAATTAAACCTCTTTCTCTAT

5036/5332
FIGURE 4368

GGCAGATGATTCTGGACCAGATGAAGCCTGAGGAGCCTTCCAGCTCTAAGATAGCAGGATAGGAGACTTCTAAGA
TTGGAGCTGCAGAAGACTTTGCCAGCCCACCAGCACAAATGTCAGGAAGCCATACACCTGCCTGTGGCCCTTTCTCA
GCCCTGACTCCGAGCATATGGCCCCAGGAGATCTTGGCCAAGTACACGCAGAAGGAAGAGTCAGCAGAGCAACCA
GAGTTCTACTACGATGAGTTTGGTTTCCGTGTGTACAAGGAAGAAGGTGATGAGCCTGGCTCCAGTCTGCTGGCG
AACTCCCCCTCTGATGGAGGATGCTCCACAGAGGCTGCGGTGGCAGGCCCCACCTGGAGTTCACCCATAACCACGAT
GTGGGGGATCTCACCTGGGACAAGATTGCCGTCTCCCTACCCCGCTCTGAGAAGCTCCGCTCCCTGGTGCTGGCC
GGCATCCCACATGGCATGAGGCCACAGCTGTGGATGCGGCTCTCTGGGGCCCTGCAGAAGAAGAGGAACTCTGAG
CTGTCTTACC GCGAGATTGTGAAGAACAGCTCCAACGATGAGACCATCGCTGCCAAGCAGATCGAGAAGGACCTG
CTCCGCACCATGCCCAGCAACGCCTGCTTCGCCAGCATGGGTAGCATCGGGGTGCCCGCCTGCGCAGGGTGCTC
CGGGCCCTGGCCTGGCTCTACCCAGAGATCGGCTACTGCCAGGGCACCGGCATGGTGGCCGCTGCTCCTGCTG
TTCTGGAGGAGGAGGACGCCTTCTGGATGATGTCTGCCATCATCGAGGACCTGCTCCCCGCCTCTACTTCAGC
ACCACCCTGCTGGGTGTCCAGACTGACCAGCGGGTCTGCGCCACCTCATTGTCCAGTACCTGCCTCGCCTGGAC
AAGCTGCTCCAGGAGCATGACATTGAGCTGTCCCTGATCACACTGCACTGGTTCTCACGGCCTTCGCCAGCGTG
GTGGACATCAAGCTGCTCCTGCGCATCTGGGACCTGTTTTCTACGAGGGCTCCCGGTGCTGTTCCAGCTCACG
CTGGGCATGCTGCACCTCAAGGAGGAAGAGCTGATCCAGTCAGAGAACTCGGCCTCCATCTTCAACACGCTATCG
GATATCCCGTCGCAGATGGAGGACGCGGAGCTGCTTCTGGGGGTGGCCATGCGGCTGGCCGGCTCCCTCACCGAT
GTGGCCGTGGAGACTCAGCGCCGCAAGCACCTGGCCTATCTCATTGCAGACCAGGGCCAGCTCCTGGGGGCCGGC
ACCCTCACCAACCTCTCTCAGGTTGTTCCGCCGACGACCCAGCGGAGGAAGTCCACCATCACTGCTCTGCTCTTC
GGGGAGGATGACCTGGAGGCACTCAAGGCCAAGAATCAAGCAGACGGAAGTGGTGGCTGACCTCCGGGAAGCC
ATCCTGCGCGTGGCAGGCCACTTCCAGTGACAGACCCCAAAACTGCAGCGTGGTGAGTGCCAGCTCCCTGGG
CTGCTACCAAAACAGGCCCTAACTCCTCCAACCCCTTGGTGGGCCTGTGTTCACTGTGGCAGGAGCTGACTCCA
GACTATAGCATGGAGAGCCACCAGCGGGACCACGAGAACTACGTGGCGTGCTCACGCAGCCACCGGCGCCGAGCC
AAGGCCCTGCTGGACTTTGAGCGGCACGACGACGAGCTGGGCTTCCGCAAGAACGACATCATACAATCGTG
TCTCAGAAGGACGAGCACTGCTGGGTGGGGGAGCTCAACGGCCTGCGAGGCTGGTTTCCAGCCAAGTTTCGTGGAA
GTCTTGATGAGCGCAGCAAAGAGTACTCCATCGCGGGGGATGACTCGGTGACGGAGGGGGTCACAGACCTCGTG
CGAGGGACCTCTGCCCCGGCCCTTAAGGCCCTGTTCGAACATGGACTGAAGAAGCCATCCCTGCTTGGGGGCGCC
TGCCACCCCTGGCTGTTTATCGAGGAGGCTGCAGGCCGGGAGGTCGAGAGAGACTTTGCCTCCGTGTATTCCCGT
CTGGTGCTCTGTAAGACCTTCAGGTTGGATGAAGATGGCAAAGTCTGACCCCGGAGGAGCTGCTCTACCGGGCT
GTGCAGTCTGTGAACGTGACCCACGATGCAGTGCATGCACAAATGGATGTGAAGCTCCGCTCACTGATCTGCGTG
GGGCTCAAGTGACAGGTGCTGCACCTGTGGCTGGAGGTGCTCTGCTCCAGCCTGCCCACCGTGAGAAAGTGGTAC
CAGCCCTGGTCTTCTGCGCAGCCCGGGCTGGGTCCAGATCAAGTGTGAGCTCCGAGTCTCTGCTGCTTTGCC
TTCAGCCTCTCCCAGGACTGGGAGCTCCCTGCGAAGAGAGAGGCGCAGCAGCCCTGAAGGAGGGCGTCCGGGAC
ATGCTGGTGAAGCACCACCTCTTCAGCTGGGATGTGGACGGGTGACCCCTCTCCCCAGCCCAACCTCGGGCCT
GCGTCTGAGGTGGCCAGGACCCCAAGCTGCAGAGCCCCAGGAAGAGCAGCTCCAGAGCCCTGGCCGGGGCGCG
GGATATCAATATCAGGCTGCCCCACTCCAGTTCCCCAGCACATCCAGGTGGTGGGAGCAGAGGGTACCCCTGCC
CCACCAGGGTCTTAGGGATGCTCTAGGCCAAACCACAGTTTGTACCAAAAACCTTGTGAGGAGGTGGGGGAGCC
ATGTCTGTGCTCAGGAAGAGGGAAGGGATGGGGGTGGCTAGTAGGCTCCTGGCCTCTTGGTTTATAAATAAAC
TGTGTCTGTCTTTGAGAAAGCA

5037/5332
FIGURE 4369A

ACTTCTGCAATTACAGACAGTTGCACTTCAAGGGGACCCTTCTTTTACACTACATCCTTCTGTTTTTAGACTTTT
TTTGGCTTTGAAAATGTGTTTTTTGAGGTGGAATACCCAACTGACCCCTCATCTCTCTCTCTGCTGCCCC
GCAGTGCTACAGTTGAAACTCCAGCAGCGCCGGACCCGGGAAGAACTGGTGAGCCAAGGGATC**ATG**CCGCCCTTG
AAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGGCCAGGACAGAGGACTATCTCAAACGGAAG
ATTCGTTCCCGGCCGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGAGACCTCGGCTGAGCCATCCCTC
CAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTCAATGAGAAGATTGCACAGAGGCCTGGC
CCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCAGCCTGAAGGAAGCCATCATTGTGGGCCAGGTG
AACTATCCCAAAGTAGCAGACAGCTTCTCTCGATGAGGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCC
AGCCATGAGTCCCAGGGTTCTGTGCCGTCAACCCCTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTGCCACCTCT
GCATCCCCCACCAGGTTGTGTCTCAACTTCCGATGGGCGGGGATTCCAGAGAAATGCTTTTCTGGCAGAGCAG
CCTCTCTGCTCCCCACCTCTGTGCTTCCAGCCTCACCAATGGAACCACTATCCCCACTGCCAAGTCCACC
CCCACACTCATTAAGCAAAGCCAACCCAAGTCTGCCAGTGAGAAGTCACAGCGCAGCAAGAAGGCCAAGGAGCTG
AAGCCAAAGGTGAAGAAGCTCAAGTACCACCAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGGACCCCCC
ATGGACTCATCTACGCCAAGATCCTGCAGCAGCAGCAGCTTCTCTCCAGCTGCAGATCCTCAACCAGCAGCAG
CAGCAGCACCACAACCTACCAGGCCATCCTGCTGCCCGGCCAAAGTCAGCAGGCGAGGCCCTGGGAAGCAGCGGG
ACCCCCCAGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCCCTGGGCCCTGTGGCTGGCA
CGTCAGAACAGCACCTCACTGACTGGCAAGCCGGGAGCCCTGCCGGCCAACCTGGACGACATGAAGGTGGCAGAG
CTGAAGCAGGAGCTGAAGTTGCGATCACTGCTGTCTCGGGCACCAAACTGAGCTGATTGAGCGCTTCGAGCC
TATCAAGACCAAATCAGCCCTGTGCCAGGAGCCCCCAAGGCCCTGCCGCCACCTCTATCTGCACAAGGCTGGC
GAGGTGGTGGTAGCCTTCCAGCGGCCGGCTGAGCACGGGGCCAGCCCTGGTGGCAGCAGGCCTGGCTCCAGCT
GAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGGTGGTGAAGTTTGGCAGCACGGGCTCCACGCCCCCGTGTCT
CCCACCCCTCGGAGCGCTCACTGCTCAGCACGGGCGATGAAACTCCACCCCGGGGACACCTTTGGTGAGATG
GTGACATCACCTCTGACGCAGCTGACCCTGCAGGCCTGCCACTGCAGATCCTCGTGAAGGAGGAGGGCCCCCGG
GCCGGGTCTGTTGCCTGAGCCCTGGGGGGCGGGCGGAGCTAGAGGGGCGCGACAAGGACCAGATGCTGCAGGAG
AAAGACAAGCAGATCGAGGCGCTGACGCGCATGCTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAG
CTGGAGCAGGAGAAGCGAGCCAGCAGCCCCGCCCCCGCCCCCTCGGCACCCCCGTGAAGCAGGAGAAC
AGCTTCTCCAGCTGCCAGCTGAGCCAGCAGCCCCCTGGGCCCCGCTCACCATTCAACCCAGCCTGGCGGCCCA
GCCACCAACCACATAGACCTTGTGCTGTGGCCCCGGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGCA
CCTGAGCCCCGAGCCGTTCCCGCCCCCAGTTGCTTCTGGGGCTCAGGGCCCCAGCCTCATCAAGGGGGTTGCA
CCTCCCACCTCATACCGACTCCACAGGGACCCACCTTGTCTCACCCTGACCAATAAGAATGCAGACAGCCCT
GGCCTGTCCAGTGGGAGCCCCCAGCAGCCCTCGTCCCAGCCTGGCTCTCCAGCGCCTGCCCCCTGTGCCAGATG
GACCTGGAGCACCCACTGCAGCCCTCTTTGGGACCCCCACTTCTCTGCTGAAGAAGGAACCACCTGGCTATGAG
GAAGCCATGAGCCAGCAGCCCAAACAGCAGGAAAATGGTTCTCAAGCCAGCAGATGGACGACCTGTTTGACATT
CTCATTAGAGCGGAGAAATTTAGCAGATTTCAAGGAGCCGCCATCCCTGCCAGGGAAGGAGAAGCCATCCCCG
AAGACAGTCTGTGGGTCCCCCTGGCAGCACAGCCATCACCTTCTGCTGAGCTCCCCAGGCTGCCCCACCTCCT
CCAGGCTCACCTCCCTCCCTGGACGCTTGGAGGACTTCTGGAGAGCAGCACGGGGCTGCCCTGCTGACCACT
GGGCATGACGGGCCAGAGCCCTTTCCCTCATTGACGACCTCCATAGCCAGATGCTGAGCAGCACTGCCATCCTG
GACCACCCCCCGTCACCCATGGACACCTCGGAATTGCATTTGTTCTGAGCCAGCAGCACCATGGGCCTGGAC
CTGGCTGATGGCCACCTGGACAGCATGGACTGGCTGGAGCTGTCGTCAGGTGGTCCCGTGTGAGCCTAGCCCC
CTCAGCACACAGCCCCAGCCTCTTCTCCACAGACTTCTCGATGGCCATGATTTGCAGCTGCACTGGGATTCC
TGCTTGT**AG**CTCTCTGGCTCAAGACGGGGTGGGGAAGGGGTGGGAGCCAGGGTACTCCAATGCGTGGCTCTCT
GCGTGATTGGCCCTCTCCACATGGTTGTGAGTCTTGACAATCACAGCCCTGCTTTTCCCTTCCCTGGGAGGCT
AGAACAGAGAAGCCCTTACTCTGGTTTCACTGCCACGCAGGAGCAGAGGAGAGCAGCTGTCAAGAAGCAGCCCTGG
CTCTACGCTGGGGTTTTGGACACACGGTCAGGGTCAGGGCCATTTAGCTTGACCTCCTTTTTGAGGTCAGGG
GGCACTGTCTGTCTGGCTACAATTTGGCTAAGGTAGGTGAAGCCTGGCCAGGCGGGAGGCTTCTCTTGACCCA
GGGCTGAGACAGGTTAAGGGGTGAATCTCTCTCTCTCTCCCTGCTTTTGTGTGAAGGGAGAAATTAGCCTGG
GCCTTACCCCCCTATTCCCTGTGTCTGCCAACCCAGGATCCCAGGGCTCCCTGCCATTTTAGTGTCTTGGTGT
GTGTAACCATTTAGTGGTTGGTGGCAACAATTTTATGTACAGGTGTATATACCTCTATATTATATATCGACATAC

5038/5332
FIGURE 4369B

ATATATATTTTTGGGGGGGGCGGACAGGAGATGGGTGCAACTCCCTCCCATCCTACTCTCACAGAAGGGCCTGG
ATGCAAGGTTACCCCTTGAGCTGTGTGCCACAGTCTGGTGCCCAGTCTGGCATGCAGCTACCCAGGCCACCCATC
ACGTGTGATTGACATGTAGGTACCCTGCCACGGCCTATGCCCCACCTGCCCTGCTTCCTGGCTCCTTATCAGTGC
CATGAGGGCAGAGGTGCTACCTGGCCTTCCTGCCAGGAGCTCTCCACCCACTCACATTCCGTCCCCGCCCTCA
CTGCAGCCAGCGTGGCCCTAGGACAGGAGGAGCTTCGGGCCCAGCTTCACCCTGCGGTGGGGCTGAGGGGTGGCC
ATCTCCTGCCCTGGGGCCACTGGCTTCACATTCTGGGCTGACTCATAGGGGAGTAGGGGTGGAGTCACCAAAACC
AGTGCTGGGACAAAGATGGGAAGGTGTGTGAACTTTTTAAATAAAACACAAAAACACAG

5039/5332
FIGURE 4370

GCGGGTTTGAGAGGGCGGGGATTGCGACTCTCACACCCTGAGCTCCGGTGCTCCTTTCCTAACTCCACTGGCTGC
GGCATCTGTGGGAAAAGTGTGGCTGGGTCTTCGAGGAGCCGCACCAATGGCTTCCGTGCTGTCTACGAAAGCCT
GGTCCACGCCGTGGCCGGAGCCGTGGGAAGCGTGACAGCAATGACAGTGTTTTTCCCTGGATACAGCTAGACT
TCGACTTCAGGTTGATGAGAAAAGAAAATCCAAAACCTACACACATGGTGCTCCTGGAGATCATTAAAGAAGAAGG
ACTCCTGGCACCATATCGAGGGTGGTTTCCAGTGATTTCCAGTCTCTGCTGCTCCAATTTGTCTATTTCTACAC
TTTAATAGCCTCAAAGCACTCTGGGTCAAAGGTCAACATTCTACCACTGGAAAAGATCTGGTAGTTGGGTTTGT
TGCAGGAGTGGTTAATGTGTTGCTAACAACTCCACTCTGGGTGGTAAACACCAGACTGAAGCTTCAAGGAGCAAA
ATTAGGAATGAAGACATTGTACCAACAACTACAAAGGTATCAATTGATGCTTTTCATCAGATCATTGCGATGA
AGGAATCTCGGCTTTATGGAATGGCACATTCCCTCATTGCTGTTGGTCTTCAATCCTGCCATCCAGTTCATGTT
TTATGAAGGTTTAAAACGGCAGCTTTTAAAGAAACGGATGAAGCTTTCTTCCCTGGATGTGTTTCATCATTGGTGC
AGTAGCCAAAGCGATTGCCACCACGGTGACCTATCCCTGCAGACGGTACAGTCAATTCTGAGGTTTGGGCGTCA
TAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGAATATTCTCTATCTTCTTCCCAACGAGTAAGACG
TTTTGGAATAATGGGACTCTACAAAGGCCCTGAAGCCAAACTGCTGCAGACAGTCCCTACTGCTGCTCTCATGTT
CCTTGTTTATGAGAACTGACAGCTGCCACCTTCACAGTTATGGGGCTGAAGCGTGACACCAACACTGAGACGC
CTTCCCATGAAAAATTCCGAAGATGCTCAAGAGGGAGGTTTCTCCTGAGTGAAGAGAAGTGATTCTCCCTTGAC
TCTGGCTCCTGCCACCACAAATGTTACCCTCATTGGCTTGAAAGCATCCAAGGGTGACAGGGAGTATGGCCAA
CTGGACCTGTTGTACCTTAATTGTCATGCTGGCTGGTTGGATTTTGGGGTGGCAGTTGGACTAATGTGAAAAAA
ACATTGCTGAAAACCTAAAAATGAAAGTTTGTGAGTGTTTATTGGTTTTCTTAAGAGAAATGGACTATTTTGCTC
TCATGTGTAATGTTTTCTATTTAAATCTTTCTAAATATACCAGCTGTTCTCTTCCCTGAACTCTCCCCAGGT
TCTAGGACAAATTTAATAACATGTAATTCTCCTCAAATACTTTTGTATGTCTCAGTGTTGGTGTTTTCTCCCTA
AACTAACATTAGGGCTGTGCCACGGGCATGACTTTATTTTGTGGGCTTTTTTTTCCCTGCTTAAGGAGAGGT
GTCTTTTTTGGATATGAGCTATTTATTTTGTGAAATGAAAATTGTTACCCAAATGATTCTCTTATAAACTATTT
GTAATGTCACCTATTTCATTAGTGTTTGACATAATTTTAGAATATTTATTTGAATCAATCCTTTCATTACGAA
AGACTTGAAGTTTTGTGTCCATTCTTACAAGCCCTGGTCAGTCAAGTCCCAATAAATGGTCAGCAC

5040/5332
FIGURE 4371

GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCTGGAACCGGGCCGTAGCCCCCCCAGTTTCGCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCCCTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTACAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCTGGGGGAATGCCTGGTAATTTTCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGACGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCAGCAAATATGTCAAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAAATGTCTTCTGATAAATAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTCGCAATAATACAAACCAGTGACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCAATCAGATAATGTTTTCTACTAGGAATTACAACTTTAAACACTTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTTAATTCTTATATTTTCTTTACTAATCATTTTGGATTTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTTGAGGATAAAGTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCAATAAAACTAATTGGGACCACCCGTATTTTCAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTTTGTAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTTCTTTT
TATATTTCTATGCTTAAATTTCTTTTCCCTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTTCTTGAGCTAAAGACAGGCTTTTTCCACCGGCATCATCACTGCTATCATCATTAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTATCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGTCTTTGTATTACGCTCTTAAATAGTGTAATATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCT
CCAATGATAAAGAAAATGATAAATTTCTGTTGTGCATTCAATTCCTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACCAAGTGTTCATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAGGTTCTAACCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAGCTATTATGCTGATGGAGCATGCTTTTTTAAATCCTTTAAAAACACTCACCA
TATAAAGCTTGCAATTTGAGCTTGTGTGTTCTTTGTGTTAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCTTATTTGATTTATTTAACCTAATTATATTCTAATATTG
CAATATTACCATAAGTGGGTAAAAGTAAAATTCCTCTTCTG

5041/5332
FIGURE 4372

GGTTTCCTGGCGACGCGGCCCTGCAGGCGGTTGCGTTCCCGTCGTTACCCTCTTTCTCTTCCCGACGCGTGAGT
TAGGCCGTAATGCTTGGCTGCTCTCAGCCCCAAGCTGGTTCCCGCTGTAGCAAACGTCCGCGGCCTCTCAGGA
TGTATGTTGTGTTACAGCGAAGGTACTCCCTTCAGCCTGTCCCAGAAAGGAGGATTCCAAACCGATACTTAGGC
CAGCCCAGCCCCCTTACACACCCACACCTCCTCAGACCAGGGGAGGTAAGTCCAGGACTATCTCAGGTGGAATAT
GCACTTCGCAGACACAACTAATGTCTCTGATCCAGAAGGAAGCTCAAGGGCAGAGTGGGACAGACCAGACAGTG
GTTGTGCTCTCCAACCTACATACTACATGAGCAACGATATTCCTATACTTTCCACCAAGACAACAATTTCTG
TACCTATGTGGATTCCAAGAGCCTGATAGCATTCTGTCTTCAGAGCCTCCCTGGCAAACAATTACCATCACAC
AAAGCCATACTTTTTGTGCCTCGGCGAGATCCCACTCGAGAAGTTTGGGATGGTCCGCGATCTGGCACTGATGGA
GCAATAGCTCTAACTGGAGTAGACGAAGCCTATACGCTAGAAGAATTTCAACATCTTCTACCAAAAATGAAAGCT
GAGACGAACATGGTTTGGTATGACTGGATGAGGCCCTCACATGCACAGCTTCACTCTGACTATATGCAGCCCCCTG
ACTGAGGCCAAAAGCCAAGAGCAAGAACAAGGTTCCGGGTGTTTCAGCAGCTGATACAGCGCCTCCGGCTGATCAAG
TCTCTGCAGAAAATTGAACGAATGCAGATTGCTGGGAAGCTGACATCACAGGCTTTTCATAGAAAACCATGTTACC
AGTAAAGCCTCTGTGGAAGAAGCCTTTCTTTATGCTAAGTTTGAATTTGAATGCCGGGCTCGTGGCGCAGACATT
TTAGCCTATCCACCTGTGGTGGCTGGTGGTAATCGGTCAAACACTTTGCACTATGTGAAAAATAATCAACTCATC
AAGGATGGGGAAATGGTGCTTCTGGATGGAGGTTGTGAGTCTTCTGCTATGTGAGTGACATCACACGTACGTGG
CCAGTCAATGGCAGGTTACCGCACCTCAGGCAGAACTCTATGAAGCCGTTCTAGAGATCCAAAGAGATTGTTTG
GCCCTCTGCTTCCCTGGGACAAGCTTGGAGAACATCTACAGCATGATGCTGACCCTGATAGGACAGAAGCTTAAA
GACTTGGGGATCATGAAGAACATTAAGGAAAATAATGCCTTCAAGGCTGCTCGAAAATACTGTCTCATCATGTT
GGCCACTACCTCGGGATGGATGTCCATGACACTCCAGACATGCCCCGTTCCCTCCCTCTGCAGCCTGGGATGGTA
ATCACAATTGAGCCCGGCATTTATATTCAGAGGATGACAAAGATGCCCCAGAGAAGTTTCGGGGTCTTGGTGTA
CGAATTGAGGATGATGTAGTGGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG
GACATTGAACAGATATGCAGCCAGGCTTCTTGAACCTTCACTGCGGCCACATGCACCTCAGGTTCAAATGGGTG
TCTTCTGGCAGCCCTGCACGTGTGCTTTCTGAGTGTCTCTGTGTGTGCATTAATATATGCATTCCATTGGGAGC
ATAGCAGCTGTGTGAATGTATGTAATTGTGTGTGGGGGTTTTTTGTTTTAAGTAGTTAGAAGTCTGGGAAAATG
AATTTTGAATAGTATGTTACTGCAGCTTTGGTAACATTAATTCTATAGAATTAATGATCAGAGCAAGTTTTAATT
TTTAAACATAAAGGTCTTGGTTACACATGTCCATGCATTCCAGTTAACACATTTAAACATATAGAAAATTTCACTT
CTTCTTTCAAGTCCTTCCCTTTCTATACCTTTGCTGAGATCAACCAATATCATAAGAAGTTTGTGTGATGCCTG
TATTTTTAGCTAATTACCAAGGTCTCTGCCTATGCAAAAATTCATCTTTCCGGTGATTGTGGGCGGCCAATACATA
CCTTCTGTAACTCCTCCCTACCTATTCTAGATCCTGCATATCTACTGGAGCCATATGAGCCCTCAGGGGCACTGG
TGCTCTGCAGTCTTACTAGTCAGCCACAGTCCAGGTTCCAGCAACACTAGCTACCTACCAAAACAAAACACTTCTG
AGCTTTTCTTGCCATTTGGTTGCCTGGGACCTGGAAAAGTGTTTAGATTCTTGATAAAGATGGAAATGGAAGAGAA
AGAAAATTATATATGTATATACTAAAGATCCAGACATCAGGGCTGGGCACAGCGGTTCCGCCTGTAATCCCAGCA
CTTGGGAGGTCCAGGCAGGTGGATCTCTTGAGACCAGGAGGTCAAGACCAGCCTGGCCAACGTGGTGAAACACT
GTCTCTACTAAAAATACAAAATGAGCTGGGTGTGATGATACATGCCTGTAATCCTGGCTACTTGGGAGGCTGAG
GCATGAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAGCTCATGCGACTGCACTCCAGCCTGGGT
GACTGAGCAAGACTCTGCCTCAAAAAACAAATAAATAAATAAATCCTGACATCCTGCCATCTTTCTCTTCAA
TTTAAAGTTGATTTCTTAATGATGACTTCAAAAATTAATAAAAAGAAAAGAAAAAATGATTCT

5042/5332
FIGURE 4373

TAACATTGTCTTTAACATAAAAAGTGACCTATTTGCAGTCACTACCTCTATCACCACCACCAGCAGAGCCTGAGC
TGAGGAAACCACGGTTCTCAATACCCAGCACACCCACTTCCAACCTATCTGTTAAAAACATGGTGGATTACTATGAA
GTTCTAGGACTGCAAAGATATGCTTCACCTGAGGACATTAAAAAGCTTATCATAAAGTGGCACTTAAATGGCAC
CCTGATAAAAATCCAGAAAAAAGAAGAAGCAGAGAGAAAAATTCAAAGAAGTAGCTGAGGCATACGAGGTATTA
TCAAATGATGAGAAACGGGACATTTATGATAAATATGGCACAGAAGGATTAAACGGAGGTGGAAGTCATTTTGAT
GATGAATGTGAGTACGGCTTCACATTCCATAAGCCAGATGATGTTTTTAAAGAAATTTTTCATGAAAGGGATCCA
TTTTCTTTTCACTTCTTTGAAGACTCGCTTGAGGACCTGTAAATCGTCCAGGAAGCTCCTATGGAACAGAAAC
AGAGATGCAGGATACTTTTTCTCCACTGCCAGTGAATATCCAATTTTGGAGAAATTTCTTCATATGATACAGGA
TATACATCACAGGGTTCATTGGGGCATGAAGGCCTTACTTCTTCTTCCCTGGCTTTTGATAATAGTGGGATG
GACAACTACATATCTGTTACAACCTTCAGACAAAATCGTTAATGGCAGAAATATTAATACAAAGAAAATTATTGAA
AGTGATCAAGAAAGAGAAGCTGAAGATAATGGAGAGTTGACATTTTCTTGTAATAGTGTGGCCAATGAAGAG
GGCTTTGCAAAAGAATGCAGCTGGAGAACACAGTCATTCAACAACCTATTCACCAAATTCACAGCTCCAAACAT
GTATCTCAATATACCTTTCTGGACAATGATGAGGGAGGTATATCTTGGGTACAGCAACAGAGATCCCCCTATT
TTCTCAGCAGGAGTCAAAGAGGGTGGTAAGAGGAAAAAAGAAGCGTAAAGAGGTGCAAAAGAAGTCTACCAAA
AGGAATTGTTAAATTGACTCTTCAAATATATAACATTTGAACACAATTGTGTGTGTTTTGGTTAATCACAAATTT
TGTAAGATAACACTTAATACTATACTAAGAGCTTTTCAACACTTTTAGCAGGATTGTGGACATTTGGTTAGTAGTT
TTTTTGAATGGGTATGTCAGAAAAGGATGAGTTTGTGGTGACAGTTGGTGCTAATAAGAATTTGCCTGGGCAGTA
TAGTGAGATCTTTTCTACAAAAAATTTAAAAATTAGCCAAGTGTGGTGGTGTGCACCTGTAGTCCCAGCTACT
CGGGAAGCTGGTAGAAAGACTGCTTGAGCCTGGAAGACATAGGTTGCAGTGTAATGGGATCACGCCACTGCACTC
CAGCTTGGGTGACAAAGTAAGACCCTGTCTTAAAAAAGGAATTTGGAAAAGTCAATGAGTTTTTTA
CTTTTGAATTTTCTTTAGTAGAGTTTATAGCCTATTTTCTTTTCTAATTAACCCTATACAACTTACG
AAACATGCATAGCATTAGAAGACAAGAATGTATCAAGACACACAGGTTTCAGACTACACAATTATTCATGAAATGG
CTGTTTTCCAATGGAGGAACAGCATTGATGCATTATAACTTAAAGGTACTACAAATTAAAAATTAAAGTATAAA
GTATTTTAAGTTAGAAATAGACTTAGCTGGGTGCAGTGGCTCACACCTGTAATCCTAGCATCTTGGGAGGCCAG
GCAGGAGGGTTGAAGTCAGAATTTACGACAGTCCGGGTAACATAATGAGACCTGTCCTCTATGAAAAAATTTT
TAAAAATTTAGCTGGGTGTGGTGGTACGTGCCTGTAGGCCTAGCTACTTAGGAGGCTGAGGTGGGAGGATTGCT
TGAGCCCAGGAGTTTGAGGTTGTAGGGAGCTATGATCTTGCCATTGCACTCCAGCTGAGAGTGTGACCCTGTCTC
TAAAGAAAACTATAGAAAATTTAAAAAATTTAAAAACGGGTAACATGGTAAATTTTATGTAGTATATTTTACCA
CATTTTTTTTTAAAGGCCAGTCTTATCCTGAATTCCTCAGAGCAGTCTGTATGGTAGGCCATCAGTGAATCCTCC
AGACAGGAAATTTTCTATTTTGTGTTAGAGTTTGACACAAAATCTACAAATACATTACTCTAAAATAGCACCTA
TAGCCATTTTAATTTAGTCATGTTGGGAGAAAAATAGATGGGTTACAAATACATCAGATATCGAGCAAATGGTTT
GAGTTACATCTAGCAGCACTAAAACCTTATTCAACTTTGGCCAAATACAAATGCGAAATTAGAAAAAATTATAAT
ATCTGCTATTTTTAAAGACAGCTATAGTCAAGAGCTTGTTGTTTTGTATCGGTATTTGATTTTTAGTGGGCAGAT
GGGAGAAGGAAAGGTTATTTATTCTATAGAAGAGACTGCGGACAATTAGTATTCAAAGTTTATTTTCAGAAAAATA
AAATAATAAAAGCCCAGGGTATTTTAAA

5043/5332
FIGURE 4374

CCAAATGGCGGCAGCGATGGATGTGGATAACCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAAG
TGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCACA
TTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTTCGCATGGGGAG
TCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAACA
GAGAGTGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCATT
TAATGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTCAGTTT
GCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

5044/5332

FIGURE 4375

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTGCAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTC
TTAGAGAGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTACAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAAGCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

5045/5332
FIGURE 4376A

CTTGTTTGTGTGCTAGGCTGGGGGGGAGAGAGGGGCGAGAGAGAGCGGGCGAGAGTGGGCAAGCAGGACGCCGGG
TGAGTGCTAACTGCGGGAGCCAGAGAGTGCGGAGGGGAGTCCGGTTCGGAGAGAGGCGGCAGGGGCCGAGACAGTG
GCAGGGGGCCCGGGGCGCACGGGCTGAGGCGACCCCCAGCCCCCTCCCGTCCGCACACACCCCCACCGCGGTCCA
GCAGCCGGGCGGGCGTTCGACGCTAGGGGGGACCATTACATAACCCCGCGCCCCGCGGCGTCTTCTCCCGCGGCC
GCGGGCGGCCCCGAACGGAGCCCCGGGGGGCGGGCGCTCCAGCACCTGGCCGCGGGCGGTGGGGGCCGTAGCAG
CGGCCGTATTTATTTATTTTCCGCGGGAAGGAAGGCGAAGGAGGGGAGCGCGGCGCGAGGAGGGGCCGCTGCG
CCGCCGCGGAGCGGGGCTCTCGGTCCGGCCAGCTCCGCTCCGCGTCCGCGCGGGCGTGCGGGCGGCGCTGCTCGGCCGCGC
CCCTCGGCCCTCTGGTCCGGCCAGCTCCGCTCCGCGGCTCCTTGCCGCGCTCCGCGGCGCGCCGCGCGATGTGA
GGCGGCGGCGCGCAGCCTGGCTCTCGGCTCGGGCGAGTTCTCTGCGGCCATTAGGGGCCGGTGCGGCGGCGGCGGC
GCGGAGCGCGGCGGCAGGAGGAGGGTTTCGGAGGGTGGGGGCGCAGGCCCGGAGGGGGCACCGGGAGGAGGTGAG
TGTCTCTTGTGCGCTCCTCCTCTCCCCCTTTTCGCCCCGCTCCTTGTCGCGATGAGAAGGAGGAGGACAGCG
CCGAGGAGGAAGAGGTTGATGCGGCGGCGGAGCTCCGAGAGACCTCGGCTGGGCAGGGGCCGCGCTGGCGGGC
CGGGGACTGCGCCTCTAGAGCCGCGAGTTCTCGGGAATTGCGCGCAGCGGACGCGCTCGGCGAATTTGTGCTCTT
GTGCCCTCCTCCGGGCTTGGGCCCAGGCCCGGCCCTCGCACTTGCCCTTACCTTTTCTATCGAGTCCGCATCCC
TCTCCAGCCACTGCGACCCGGCGAAGAGAAAAAGGAATTTCCCCACCCCTCGGGTGCCGTGCGAGCCCCCAG
CCCACCCCTGGGTGCGGCGCGGGGACCCCGGGCCGAAGAAGAGATTTCTGAGGATTCTGGTTTTCTCGCTTGT
ATCTCCGAAAGAATTAAAAATGGCCGAGAATGTGGTGAACCGGGGCGCCTTCAGCCAAGCGGCCTAACTCTC
ATCTCCGGCCCTCTCGGCGTCCGCCAGCGATGGCACAGATTTTGGCTCTCTATTTGACTTGGAGCACGACTTACC
AGATGAATTAATCAACTCTACAGAATTGGGACTAACCAATGGTGGTGATATTAATCAGCTTCAGACAAGTCTTGG
CATGGTACAAGATGCAGCTTCTAAACATAAACAGCTGTGAGAATTGCTGCGATCTGGTAGTTCCCTTAACCTCAA
TATGGGAGTTGGTGGCCAGGTCAAGTCATGGCCAGCCAGGCCAACAGAGCAGTCTTGATTAGGTTTGATAAA
TAGCATGGTCAAAAGCCCAATGACACAGGCAGGCTTGACTTCTCCCAACATGGGGATGGGCACTAGTGGACCAA
TCAGGGTCTTACGAGTCAACAGGTATGATGAACAGTCCAGTAAATCAGCTGCCATGGGAATGAACACAGGGAT
GAATGCGGGCATGAATCCTGGAATGTTGGCTGCAGGCAATGGACAAGGGATAATGCCTAATCAAGTCATGAACGG
TTCAATTGGAGCAGGCCGAGGGGACAGAATATGCAGTACCCAAACCCAGGCATGGGAAGTGTGGCAACTTACT
GACTGAGCCTCTTCAGCAGGGCTCTCCCGAGATGGGAGGACAAACAGGATTGAGAGGCCCCCAGCCTCTTAAGAT
GGGAATGATGAACAACCCCAATCCTTATGGTTACCATATACTCAGAATCCTGGACAGCAGATTGGAGCCAGTGG
CCTTGGTCTCCAGATTGAGACAAAACCTGTACTATCAAATAACTTATCTCCATTTGCTATGGACAAAAGGCAGT
TCCTGGTGGAGGAATGCCCAACATGGGTCAACAGCCAGCCCCGAGGTCCAGCAGCCAGGCCTGGTGACTCCAGT
TGCCCCAAGGGATGGGTTCTGGAGCACATACAGCTGATCCAGAGAAGCGCAAGCTCATCCAGCAGCAGCTTGTCT
CCTTTTGCATGCTCACAAGTGCCAGCGCCGGGAACAGGCCAATGGGGAAGTGAGGCAGTGCAACCTTCCCCACTG
TCGCACAATGAAGAATGTCTAAACCATGACACACTGCCAGTCAGGCAAGTCTTGCCAAGTGGCACACTGTGC
ATCTTCTCGACAAATCATTTCACTGGAAGAATTGTACAAGACATGATTGTCTGTGTCTCCCCCTCAAAA
TGCTGGTGATAAGAGAAATCAACAGCCAATTTTACTGGAGCACCCGTTGGACTTGGAAATCCTAGCTCTCTAGG
GGTGGGTCAACAGTCTGCCCCAACCTAAGCACTGTTAGTCAGATTGATCCAGCTCCATAGAAAGAGCCTATGC
AGCTCTTGGACTACCCTATCAAGTAAATCAGATGCCGACACAACCCAGGTGCAAGCAAAGAACCAGCAGAATCA
GCAGCCTGGGCAGTCTCCCCAAGGCATGCGGCCCATGAGCAACATGAGTGTAGTCTATGGGAGTAAATGGAGG
TGTAGGAGTTCAAACGCCGAGTCTTCTTCTGACTCAATGTTGCATTACGCCATAAATCTCAAAACCCAATGAT
GAGTGAAATGCCAGTGTGCCCTCCCTGGGTCTATGCCAACAGCAGCTCAACCATCCACTACTGGAATTCGGAA
ACAGTGGCACGAAGATATTACTCAGGATCTTCGAAATCATCTTGTTCACAACTCGTCCAAGCCATATTTCTCTAC
GCCGATCCTGCTGCTTTAAAGACAGACGGATGGAAAACCTAGTTGCATATGCTCGGAAAGTTGAAGGGACAT
GTATGAATCTGCAAAACATCGAGCGGAATACTACCACCTTCTAGCTGAGAAAACTATAAGATCCAGAAAGAACT
AGAAGAAAAACGAAGACCACTACAGAAGCAGAACATGCTACCAAATGCTGCAGGCATGGTTCCAGTTTCCAT
GAATCCAGGGCCTAACATGGGACAGCCGCAACCAAGGAATGACTTCTAATGGCCCTCTACCTGACCCAAGTATGAT
CCGTGGCAGTGTGCCAAACCAGATGATGCCCTCGAATAACTCCACAATCTGGTTTGAATCAATTTGGCCAGATGAG
CATGGCCCAGCCCCCTATTGTACCCCGGCAAAACCCCTCCTCTTACGACCATGGACAGTTGGCTCAACCTGGAGC
TCTCAACCCGCTATGGGCTATGGGCTCGTATGCAACAGCCTTCCAACAGGGCCAGTTTCTTCTCAGACTCA
GTTCCCATCACAGGAATGAATGTAACAAATATCCCTTTGGCTCCGTCCAGCGGTCAAGCTCCAGTGTCTCAAGC

5046/5332
FIGURE 4376B

ACAAATGTCTAGTTCTTCTGCCCGGTGAACCTCTCCTATAATGCCTCCAGGGTCTCAGGGGAGCCACATTCACTG
TCCCCAGCTTCTCAACCAGCTCTTCATCAGAATTCACCTCGCCTGTACCTAGTCGTACCCCCACCCCTCACCA
TACTCCCCAAGCATAGGGGCTCAGCAGCCACCAGCAACAATTCCAGCCCTGTTCTTACACCTCCTGCCAT
GCCACCTGGGCCACAGTCCCAGGCTCTACATCCCCCTCCAAGGCAGACACCTACACCACCAACAACAATTCC
CCAACAAGTGCAGCCTTCACTTCTGCTGCACCTTCTGCTGACCAGCCCCAGCAGCAGCCTCGCTCACAGCAGAG
CACAGCAGCGTCTGTTCTTACCCCAACAGCACCGCTGCTTCTCCGAGCCTGCAACTCCACTTTCCAGCCAGC
TGTAAGCATTGAAGGACAGGTATCAAATCCTCCATCTACTAGTAGCACAGAAGTGAATTCTCAGGCCATTGCTGA
GAAGCAGCCTTCCCAGGAAGTGAAGATGGAGGCCAAAATGGAAGTGGATCAACCAGAACCAGCAGATACTCAGCC
GGAGGATATTTAGAGTCTAAAGTGAAGACTGTAAAATGGAATCTACCGAAACAGAAGAGAGAAGCACTGAGTT
AAAAACTGAAATAAAAGAGGAGGAAGACCAGCCAAGTACTTCAGCTACCCAGTCATCTCCGGCTCCAGGACAGTC
AAAGAAAAAGATTTTCAAACCAGAAGAAGTACGACAGGCACTGATGCCAATTTGGAGGCACTTTACCGTCAGGA
TCCAGAATCCCTTCCCTTTTCGTCACCTGTGGACCTCAGCTTTTAGGAATCCCTGATTACTTTGATATTGTGAA
GAGCCCCATGGATCTTTCTACCATTAAAGAGGAAGTTAGACACTGGACAGTATCAGGAGCCCTGGCAGTATGTGGA
TGATATTTGGCTTATGTTCAATAATGCCTGGTTATATAACCGGAAAACATCACGGGTATACAAATACTGCTCCAA
GCTCTCTGAGGTCTTTGAACAAGAAATTGACCCAGTGATGCAAAGCCTTGGATACTGTTGTGGCAGAAAGTTGGA
GTTCTCTCCACAGACACTGTGTTGCTACGGCAAACAGTTGTGCACAATACCTCGTGATGCCACTTATTACAGTTA
CCAGAACAGGTATCATTTCTGTGAGAAGTGTTCATGAGATCCAAGGGGAGAGCGTTTCTTTGGGGGATGACCC
TCCCAGCCTCAAATAACAATAAAGAACAATTTCCAAGAGAAAAAATGACACACTGGATCCTGAACTGTT
TGTTGAATGTACAGAGTGGGAAGAAAGATGCATCAGATCTGTGTCCTTACCATGAGATCATCTGCCCTGCTGG
ATTCGCTCTGTATGGCTGTTTAAAGAAAAGTGCACGAACTAGGAAAGAAAATAAGTTTTCTGCTAAAAGGTTGCC
ATCTACCAGACTTGGCACCTTTCTAGAGAATCGTGTGAATGACTTTCTGAGGCGACAGAATCACCTGAGTCAGG
AGAGGTCAGTGTAGAGTAGTTTCATGCTTCTGACAAAACCGTGGAAGTAAAACCAGGCATGAAAGCAAGGTTTGT
GGACAGTGGAGAGATGGCAGAATCCTTTCCATACCGAACCAAGCCCTCTTTGCCTTTGAAGAAATTGATGGTGT
TGACCTGTGCTTCTTTGGCATGCATGTTCAAGAGTATGGCTCTGACTGCCCTCCACCCAACCAGAGGAGAGTATA
CATATCTTACCTCGATAGTGTTTCTTCTTCCGCTCTAAATGCTTGAGGACTGCAGTCTATCATGAAATCCTAAT
TGGATATTTAGAATATGTCAAGAAATTAGGTTACACAACAGGGGCATATTTGGGCATGTCCACCAAGTGAGGGAGA
TGATTATATCTTCCATTGCCATCCTCCTGACCAGAAGATACCCAAGCCCAAGCGACTGCAGGAATGGTACAAAAA
AATGCTTGACAAGGCTGTATCAGAGCGTATTGTCCATGACTACAAGGATATTTTTAAACAAGCTACTGAAGATAG
ATTAACAAGTGCAAAGGAATTGCCTTATTTGAGGGTGATTTCTGGCCCAATGTTCTGGAAGAAAAGCATTAAAGGA
ACTGGAACAGGAGGAAGAAGAGAGAAAACGAGAGGAAAACACCAGCAATGAAAGCACAGATGTGACCAAGGGAGA
CAGCAAAAATGCTAAAAAGAAGAATAATAAGAAAACCAGCAAAAATAAGAGCAGCCTGAGTAGGGGCAACAAGAA
GAAACCCGGGATGCCCAATGTATCTAACGACCTCTCACAGAACTATATGCCACCATGGAGAAGCATAAAGAGGT
CTTCTTTGTGATCCGCTCATTGCTGGCCCTGCTGCCAACTCCCTGCCTCCCATTGTTGATCCTGATCCTCTCAT
CCCCTGCGATCTGATGGATGGTGGGATGCGTTTCTACGCTGGCAAGGGACAAGCACCTGGAGTTCTCTTCACT
CCGAAGAGCCCAGTGGTCCACCATGTGCATGCTGGTGGAGCTGCACACGCAGAGCCAGGACCGCTTGTCTACAC
CTGCAATGAATGCAAGCACCATGTGGAGACACGCTGGCACTGTACTGTCTGTGAGGATTATGACTTGTGTATCAC
CTGCTATAACACTAAAAACCATGACCACAAAATGGAGAACTAGGCCTTGGCTTAGATGATGAGAGCAACAACCA
GCAGGCTGCAGCCACCCAGAGCCAGGCGATTCTCGCCGCTGAGTATCCAGCGCTGCATCCAGTCTCTGGTCCA
TGCTTGGCAGTGTGCGAATGCCAATTGCTCACTGCCATCCTGCCAGAAGATGAAGCGGGTTGTGCAGCATACCAA
GGTTTGCAAACGGAACAAATGGCGGGTGCCCATCTGCAAGCAGCTCATTGCCCTCTGCTGCTACCATGCCAA
GCACCTGCCAGGAGAACAAATGCCCGGTGCCGTTCTGCCTAAACATCAAGCAGAAGCTCCGGCAGCAACAGCTGCA
GCACCGACTACAGCAGGCCCAAATGCTTGCAGGAGGATGGCCAGCATGCAGCGGACTGGTGTGGTTGGGCAGCA
ACAGGGCCTCCCTTCCCCCACTCCTGCCACTCCAACGACACCAACTGGCCAACAGCCAACCACCCCGCAGACGCC
CCAGCCCACTTCTCAGCCTCAGCCTACCCCTCCAATAGCATGCCACCTACTTGCCAGGACTCAAGCTGCTGG
CCCTGTGTCCAGGGTAAGGCAGCAGGCCAGGTGACCCCTCCAACCCCTCCTCAGACTGCTCAGCCACCCCTTCC
AGGGCCCCACCTGCAGCAGTGGAAATGGCAATGCAGATTAGAGAGCAGCGGAGACGCAGCGCCAGATGGCCCA
CGTGCAAATTTTTCAAAGGCCAATCCAACACCAGATGCCCCGATGACTCCCATGGCCCCCATGGGTATGAACCC
ACCTCCCATGACCAGAGGTCCAGTGGGCATTGGAGCCAGGGATGGGACCGACAGGGATGCAGCAACAGCCACC

5047/5332
FIGURE 4376C

CTGGAGCCAAGGAGGATTGCCTCAGCCCCAGCAACTACAGTCTGGGATGCCAAGGCCAGCCATGATGTCAGTGGC
CCAGCATGGTCAACCTTTGAACATGGCTCCACAACCAGGATTGGGCCAGGTAGGTATCAGCCCCACTCAAACCAGG
CACTGTGTCTCAACAAGCCTTACAAAACCTTTGCGGACTCTCAGGTCTCCAGCTCTCCCCTGCAGCAGCAACA
GGTGCTTAGTATCCTTCAGCCAACCCCCAGCTGTTGGCTGCATTCAAGCAGCGGGCTGCCAAGTATGCCAA
CTCTAATCCACAACCCATCCCTGGGCAGCCTGGCATGCCCCAGGGGCAGCCAGGGCTACAGCCACCTACCATGCC
AGGTCAGCAGGGGGTCCACTCCAATCCAGCCATGCAGAACATGAATCCAATGCAGGCGGGCGTTTCAGAGGGCTGG
CCTGCCCCAGCAGCAACCACAGCAGCAACTCCAGCCACCCATGGGAGGGATGAGCCCCAGGCTCAGCAGATGAA
CATGAACCACAACACCATGCCTTCACAAITCCGAGACATCTTGAGACGACAGCAATGATGCAACAGCAGCAGCA
ACAGGGAGCAGGGGCCAGGAATAGGCCCTGGAATGGCCAACCATAACCAGTTCCAGCAACCCCAAGGAGTTGGCTA
CCCACCACAGCAGCAGCAGCGGATGCAGCATCACATGCAACAGATGCAACAAGGAAATATGGGACAGATAGGCCA
GCTTCCCCAGGCCTTGGGAGCAGAGGCAGGTGCCAGTCTACAGGCCTATCAGCAGCGACTCCTTCAGCAACAGAT
GGGGTCCCCCTGTTTCAGCCCCAACCCCATGAGCCCCCAGCAGCATATGCTCCCAAATCAGGCCCAGTCCCCACACCT
ACAAGGCCAGCAGATCCCTAATTCTCTCTCCAATCAAGTGCCTCTCCCCAGCCTGTCCCTTCTCCACGGCCACA
GTCCCAGCCCCCCCCACTCCAGTCTTCCCCAAGGATGCAGCCTCAGCCTTCTCCACACCACGTTTCCCCACAGAC
AAGTTCCCCACATCCTGGACTGGTAGCTGCCAGGCCAACCCCATGGAACAAGGGCATTTTGCCAGCCCGGACCA
GAATTCAATGCTTTCTCAGCTTGCTAGCAATCCAGGCATGGCAAACCTCCATGGTGCAAGCGCCACGGACCTGGG
ACTCAGCACCGATAACTCAGACTTGAATTCAAACCTCTCACAGAGTACACTAGACATACACTAGAGACACCTTGT
AGTATTTTGGGAGCAAAAAAATTATTTTCTCTTAACAAGACTTTTGTACTGAAAACAATTTTTTTGAATCTTTC
GTAGCCTAAAAGACAATTTTCTTGGAACACATAAGAACTGTGCAGTAGCCGTTTGTGGTTTAAAGCAAACATGC
AAGATGAACCTGAGGGATGATAGAATACAAAGAATATATTTTTGTTATGGCTGGTTACCACCAGCCTTTCTTCCC
CTTTGTGTGTGTGGTTCAAGTGTGCACTGGGAGGAGGCTGAGGCCTGTGAAGCCAAACAATATGCTCCTGCCTTG
CACCTCCAATAGGTTTTATTATTTTTTTTAAATTAATGAACATATGTAATATTAATAGTTATTATTTACTGGTGC
AGATGGTTGACATTTTTCCCTATTTTCTCCTACTTTATGGAAGAGTTAAACATTTCTAAACCAGAGGACAAAAGG
GGTTAATGTTACTTTAAATTACATTCTATATATATATAAATATATATAAATATATATTAATAATACCAGTTTTTT
TTCTCTGGGTGCAAAGATGTTTCAATCTTTTAAAAAATGTTTAAAAA

5048/5332
FIGURE 4377

GGCAGGCCAATATGGCTTCCTGCACCTGGTGACGCTTGGCGAAACTGAGGTCTCATGGAGAAGCCCCGGAGTATT
GAGGAGACCCCATCTTCAGAACCAATGGAGGAAGAGGAAGATGACGACTTGGAGCTGTTGGTGGCTATGATAGT
TTCCGGAGTTATAACAGCAGTGTGGGCAGTGAGAGCAGCTCCTATCTGGAGGAGTCAAGTGAAGCAGAAAATGAG
GATCGGGAAGCAGGGGAAGTCCCGACCTCCCCGCTGCATTTGCTCAGCCCTGGGACTCCTCGCTCCTTGGATGGC
AGTGGTTCTGAGCCAGCTGTCTGTGAGATGTGTGGTATCGTGGGTACAAGGGAAGCCTTCTTCTCCAAGACCAAG
AGGTTCTGCAGCGTCTCCTGCTCCAGGAGCTACTCCTCCAAGTCCAAGAAAGCCAGTATCTTGGCTAGGTTACAG
GGAAAACACCGACCAAAAAAGCCAAAGTCTGCACAAGGCTGCCTGGTCTGCCAAAATTGGAGCCTTCCTCCAC
TCTCAAGGGACAGGACAGCTGGCAGATGGGACACCAACAGGACAAGACGCTCTGGTCTTGGGCTTCGACTGGGGG
AAGTTCTCGAAGGATCACAGTTACAAGGCTGCTCCCGTCAGCTGTTTCAAGCACGGTATCGGGTGCTGCTTCGGT
ATGAAGGCTTTGAAAATGACGCCAGCCATGACTTCTGGTGCAACCTGGGAACAGTGGATGTCCACCCCATTTGGCT
GGTGTGCCATCAACAGCAAGATCCTAGTGCTCCACAGCCATCCATGCCAAGTTCACCGACTGGAAGGGCTACCT
CATGAAACGGCTGGTGGGCTCCAGGACGCTTCCCGTGGATTTCCACATCAAGATGGTGGAGAGCATGAAGTACCC
CTTTAGGCAGGGCATGCGGCTGGAAGTGGTGGACAAGTCCCAGGTGTCACGCACTCGCATGGCTGTGGTGGACAC
AGTAATCGGGGGTTCGCTACGGCTCCTCTACGAGGATGGTGACAGTGACGACGACTTCTGGTGCCACATGTGGAG
CCCCCTGATCCACCCAGTGGGTGGTTCACGACGTGTGGGCCACGGCATCAAGATGTCAGAGAGGCGAAGTGACAT
GGCCCATCACCCACCTTCCGGAAGATCTACTGTGATGCCGTTTCTTACCTCTTCAAGAAGGTACGAGCAGTCTA
CACAGAAGGCGGTTGGTTTGGGAAGGGATGAAGCTGGAGGCCATTGACCCCTGAATCTGGGCAACATCTGCGT
GGCAACTGTCTGTAAAGTTCTCCTGGATGGATACCTGATGATCTGTGTGGACGGGGGGCCCTCCACAGATGGCTT
GGACTGGTTCTGTACCATGCCCTTCTCCACGCCATCTTCCGGCCACCTTCTGTGAGAAGAATGACATTGAGCT
CACACCGCCAAAAGGTTATGAGGCACAGACTTCAACTGGGAGAACTACTTGGAGAAGACCAAGTCGAAAGCCGC
TCCATCGAGACTCTTTAATGATTGCCCCAAACCATGGCTTCAAGGTGGGCATGAAGCTGGAGGCCGTGGACCT
GATGGAGCCCCGGCTCATCTGTGTGGCCACGGTGAACGAGTGGTGCATCGGCTCCTCAGCATCCACTTTGACGG
CTGGGACAGCGAGTACGACAGTGGGTGGACTGCGAGTCCCCAGACATCTACCCCGTCCGGTGGTGTGAGCTCAC
CGGCTACCAAGCTCCAGCCTCCTGTGGCCGAGAACCGGCCACACCGCTGAAGGCCAAAGAGGCCACAAAGAAGAA
AAAGAAACAGTTTGGGAAGAAAAGGAAAGAAATCCCGCCACTAAGACGCGACCCCTCAGACAGGGGTCCAAGAA
GCCCCGTGCTGGAGGACGACCCTCAGGGTGCCAGGAAGATCTCGTCGGAGCCTGTTCCTGGCGAGATCATTGCTGT
GCGTGTGAAGGAAGAGCATCTAGACGTGGCCTCGCCCGACAAGGCTTCAAGTCCAGAGCTGCCTGTCTCCGTGCA
GAACATCAAGCAGGAAACAGACGACTTGAGCCCTTCTGCCTCCAGCCTGGCTTCTAGCTGGAAGCCAGCCAGCGT
TTCTCTACCACCACCACCATGCCTCCACCTGACTTTGGCTTGGAGACTGATCCTCTCTGTGTAAATTCTGCCCGG
TGCTGTGAAGGCTGGACGGTGGAGGACCTGCTGGGGTCTCCTGGGACCCGCTGTTGCTTCTGCCCTCCCTGTG
GAAAGGTCTATATGACGGGCGCCTGAGGCCCCAGAAGTCTGCTGTGAACCACTTTTCCAGCCAGAGTTCCCAA
AGCTGGAACGCTAGCTGCCTGCTCTTCCCTAAGATGGCCTCCCCCGACCCGCCACGGCCCTCAGTTGCCAGGGA
TGGGGCCACCACTGTACACTGTGGAATACAAGACAGTGAAGTCTGTCTGCCTGAACGAGCCATGTAAATTAAGT
TCTAGAGCAGCTCTCTGAGCAGGATAAGGTCCCTGACAGTGAGTTGTGTGGTGGGGGCAGCCTCTGCCTCAAAA
ATTCACCAAGCAGAATGCCTCTCAGCCTCATGTGTTGGTCTCTGCTCCTCTAGCTCCCCAGGGATGTTGGGGA
CCCAGCTTGTCTCGGCAGCTAAGAAGCAGTGACCAGGATGTGGATTTTGGCGACCTGTGTGGTGGCCTTGAGCTG
CTTCTGTGTTTGTGAGGACTGACTCCCATTTCTTAAGGAAATGCCCCGGGGAGGACATTGGGAGGAAGATGG
CCTGAGTGTGCACTTTGGCTCTGCTACCTGCTCCTGAAGCCCCGCTAAAAATAATTCATCCAAGATTCTTTGTA
GTTAAAGGGTCCAGTTCTGACTGGAGCCTCTAGAGAGCTGGGCTTGATGTTCTTTTGGCCTTTTGTTCCTACCT
AAATGAAGAAACCATGCCTGGAGGGGCGTGAACACAGAACCCTCAAGACAAGGATGACAGAGCTGGAGGACACA
TCTAGCTGCCATTGCAACCTCACTGGGCTCCCCAGACTCTGTGTGTGAGAAATTAACCCCTGCTTGCTTG

5049/5332
FIGURE 4378

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGGAAGCAGCCAGGGTCATCGCCAAGGCCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTCTGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCCAGGCTTTTCGCTGTCAACCCCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCGAGGTGGAGGTGATTAATTTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCTCTCCCCACCTCCTGCAGACGTCTCCACCTTCCTGGCTTTTCCCTCTCCAGAGAAGCTGCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCTCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCTTCAACTCCAACACCTTCCTCACCAGGCTGCTCGTGACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGACCCCTGCTGCTGGCGTTCTGTACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGTCTAG

5050/5332
FIGURE 4379

AGCAGAGGTACCTCCTGACATGCGCTCTGGGAAAGGTGGCAGAGGGCAGGACACCATGAGCTCAGGATCTGTGT
GAGGTGTGGGAGGTGGGAAGGGTGAGGGTCTGGGGGAATGCGGAGAAAAGGGAGGCTTGACCCCGGGCACCATGG
GCCACTCCAGGATGGGACACGGCCCCCTCTTTCTTGGGGACCCAGTATGTCTCTCCTCTAGACCCAGACATACAG
TTATAACCGTCTGTCTAGCCCCCTCCCTAATCCCTGGCCCTCCCAGCTGTCTGGGACTTCAGTGGACCCCCAGCC
CCTGCCCCCACTCACCAAGGCCTCGCTCGTCCCTCTCGTCTGACATGTCTGTGTGCACCCCCCTCCTCTCCACCC
TACCTTCCATCAACCAGGGCAGATCCACCGTGCCCTGGTTCCCCAGACATTCCAGAATGCCCCACATCATTGGCA
CAGGAGTGGGGCAGCCCCGGAAGGAACCAGGGATTAGGCTGTTAGGGGGGTGAGAAGGAGAGAAGGGACCACCCCA
TTCTTCTCAAGCAAGGATTGCCAGCGCGCGCTGACACAGTGATGGGCTGCCAGGGCTGGAGGGGACGCTGTTCC
TCCCGCCGCCACTGCCCAACCTTTCTGATAATCGTGGCATGCGCCCTTTCTCTTCCCTGCCCCACCCCTGGC
CGCAGCAGGCCAGCACTGCAGAGTTTGGGTGCTGGTGGTGTGGCTGTAGGGGAGGGGAGACCACACCCAAGGTGG
GGGCTGTGGCCATGTGTGGCCGTGATGTCGATGATACTCGTTTTCCCTGATCCGTGGTGTGTCAGTCCGTTGTCA
CCAGCCTTGTTTCTAGTGTGTATATATGTCGCCCCCGTGATGCATATATACACAGGTATTAAATATATCGCTCTA
TATAATATTATATATGTGTGTGGTATCCAAGGAATCACTTTTATGAGGGCTAAAGATAAAGAATTTGGCCAGAAA
ATGCAGCCATCCTTGTGTGATTAGGAGGGTTTCAGGGGCCACTGGACTATTTGCAAGGTGACAGGGACTGGAGCC
ATGGCTCAGAGGTGATTCGGGCAGCCAGGGACAGGAGCCACCCTCCCCAGGCCCAACTCTGCTAGCTTCCCAGAC
CACCCCATCGAGTGCAGGAGAGAGTGGGAGTGCTCAGGGAAAGAAGGTGATTTGTATTTGTCTCCCGCTGAAAA
GAACAGGATTCAAGTCCAGAGTTTTTCATCTTCAGCTGTGATCTGTCCAGGGACCCTTGGGATCTGGGGCTTCCT
GGCCTGGCCAGAGCTGGAGCCCCACAGGGTAAGGAAGAGAGAGTGGGAGGCAGAGTGTGATGGGGAGGAGGGAC
AGGAAGACCCTTTTAATGATGAGGGTAACTATTTCAGTTGTGAGCCTTCTAGGGCCCCAGGCTGGGAGGCTCAGA
GGACTGAATCTGGGACCTGTGTTCCCCCGGCAGGCAGGGAACAAGATGGCATGGCAAGCATGGGGGCGGGGTGGG
TGGGGAGGGATGCTGCATTTCTCAGCTGGGCAGTAATCAATTTAATGGTCCTTTAAATGTCTGTGTATTAAAAA
TTTAAGAATAACACACTTTAATATTAAATATTCATAAGGTCTAGTATCTTGATAATAATGTAGATGTTTTAATAA
CAATTTTTGTCCTTCTTAAATAAAATGAAAGAACTTG

5051/5332
FIGURE 4380

GGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACCATGTCCGACGCGGGCGGCGGAAAGAAGCCGCCTGTGGACC
CGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTCTGGGGTCCCTTCCCCCTGGTCC
TGAAGAAGCTGATGGAGAACCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAGG
ACGAGGCCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCAT
ATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCTGCTGGAGAATGGCATCCCCGCCAGCC
CCACCCACCTGGCCCCACAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACAG
CATCCCCACCATCCTCCTCCACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAGA
AGGAGAGGGGAGACTCCCAGTCCCATCGACCCCAATTGTGTGGAAAGTGGATGTGAACTTCAATCCGGACCCCGCCG
ACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAAGTTTGCTGAGGAGGACCTGA
AGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCGACGAGCAGAAGGATGAAAAGTACTGGACAA
GACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCCGGCGCCTGAAAGAGAATCAGATCACCATCC
GGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAGT
GCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTTGTAACCCGTGCCCCCGCCGGGCGGGGTACT
GCCTGCACCTCAGACCTCTGCCTG

5052/5332
FIGURE 4381

ACTGGGGCCACAGTCAGACATGAGCCACTGGTGGGGCAGAAATAGGCTCCTGGTTCTGTGTGATCCAAAGTTGG
TGCTTTTCTGTCTATCCCTAGCTGTTGGTCACCACCAGCTTTCTGCATATTTTCTCACGGTGCCTCTCATTTCCC
AGAGCCGCTGGAGCCCAAGGCTGTACACGTGCCCTGTGCTGATTCTCTGCCTAGGAAAGGACCATGCAGCTAGA
GATCAAAGTGGCCCTGAACCTTCATCATCTCCTACTTGTACAACAAGCTGCCCCGGCGCCGGGCAGACCTGTTTGG
GGAGGAGCTAGAGCGGCTTTTAAAAAGAAATATGAAGGCCACTGGTACCCTGAGAAGCCACTGAAAGGCTCTGG
CTTCGCTGTGTTACATTGGGGAGATGGTGGACCCGTTGGTGGAGCTGGCCGCCAAGCGGAGTGGCCTGGCGGT
GGAAGATGTGCGGGCCAATGTGCCTGAGGAGCTGAGTGTCTGGATTGATCCCTTTGAGGTGTCCTACCAGATTGG
TGAGAAGGGAGCTGTGAAAGTGCTGTACCTGGATGACAGTGAGGGTTGCGGTGCCCCAGAGCTGGACAAGGAGAT
CAAGAGCAGCTTCAACCTGACGCCCAGGTGTTTCGTGCCCATTGGCAGCCAGGACAGCTCCCTGTCCAACCTCCC
ATCGCCATCCTTTGGCCAGTCACCCAGCCCTACCTTCATTCCCCGCTCCGCTCAGCCCATCACCTTCACCACCGC
CTCCTTCGCTGCCACCAATTTGGCTCCACTAAGATGAAGAAGGGGGCGGGGCAGCAAGTGGTGGGGGTGTAGC
CAGCAGTGGGGCGGTGGCCAGCAGCCACCACAGCAGCCTCGCATGGCCCGCTCACCCACCAACAGCCTGCTGAA
GCACAAGAGCCTCTCTGTCTATGCATTCACTGAACTTCATCACGGCCAACCCGGCCCCCTCAGTCCCAGCTCTC
ACCCAATGCCAAGGAGTTCGTGTACAACGGTGGTGGCTCACCCAGCCTCTTCTTTGATGCGGCCGATGGCCAGGG
CAGCGGCACCCAGGCCCGTTTGGAGGCAGTGGGGCTGGCACCTGCAACAGCAGCAGCTTTGACATGGCCCAGGT
ATTTGGAGGTGGTGCCAACAGCCTCTTCCTGGAGAAGACACCCTTTGTGGAAGGCCTCAGCTACAACCTGAACAC
CATGCAGTATCCCAGCCAGCAGTTCAGCCCGTGGTGCTGGCCAACTGACCATCTACCTGCCCCTGGGGCCAGGA
GCACCCAAGACCACAGAAAAGAGAAAGGAAAGGCCAAAAAAAAGAGGAAAAG

5053/5332
FIGURE 4382

CCGAAGCTTCCGGTGGCCGGCTTAGTTAGGAGCTATGGCTAAACATCATCCTGATTGATCTTTTGCCGCAAGCA
GGCTGGTGTGGCCATCGGAAGACTGTGTGAAAAATGTGATGGCAAGTGTGTGATTGTGACTCCTATGTGCGTCC
CTGCACTCTGGTGCATATGTGATGAGTGTAACATATGGATCTTACCAGGGGCGCTGTGTGATCTGTGGAGGACC
TGGGGTCTCTGATGCCTATTATTGTAAGGAGTGACCATCCAGGAGAAGGACAGAGATGGCTGCCCCAAGATTGT
CAATCTGGGGAGCTCTAAGACAGACCTCTTCTATGAACGCAAAAAATACGGCTTCAAGAAGAGGTGATTGGTGGG
TGGCCCTTCCTCCCCCAACATCAGTCTGCTGCAGCTGCCAGAAAACATGCCTACTACTACCAGCAGAAAGGGA
GCAGAGCCCAGAGCATCACCAGGAGTGCTGCTAGTGTACTGGCAGCTTGCCACCCCTCCTCTCCCTTCACCCA
GACACGTGGTAGGGATGGAAAAGGATTCTTCACAGAGCACTCTGGCACACCATATCGGAGAAAACCTGATAGATT
AGTTAATGGTTTTTCTTGAATTCGAGAAGCAAAGATCTGTTCTCCATATTGGTATGTTCTCCCTCAACCAAGATC
TTCTAAAAAGAAATAATATTTTAGTCTTCTGCTTGAGGAACCTTGAGTGTGAAGCGACGCCAGTGAAAAACATGTT
CTTGACAGCAGCTCTGGTGGCAGCTGCTCTTGAGGAACCTTTGGTGTGTGGTGGGAAGCTATCAGAACAAAGAAATG
TAGGCATTTCCCGTTTTTTTTTGGGGGGGGGGTGGGGGGGCAGGGCTCTGCCCTCTTGAAAGGCATTTACTTGT
AACACTTGTCCAGCTACAGTGGGTACAGTAGCTGGCTATTACAGGCATCATCATAGCCCACTAGTCTCATATT
ATTTTCCTTTTGAGAAATTGAAACTCTTCTGTTGCTATTATATTAATAAAGTTGGTGTATTATTTCTGGT

5054/5332
FIGURE 4383

AAAGCTCTGGGTGTGCGGCAGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTT
GAGCCCAACGAGTACATCCATTATGACCTGCTAGAGAAGAACATTAACATTGTTTCGCAAACGACTGAACCGGCCG
CTGACACTCTCGGAGAAGATTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCG
TACCTGCGGGCTGCGGCCGGACCGTGTGGCCATGCAGGATGCGACGGCCCAGATGGCCATGCTCCAGTTCATCAGC
AGCGGGCTGTCCAAGGTGGCTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAG
AAAGACCTGCGCCGGGCCAAGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGC
GTGGGCTTCTGGAAGCCTGGATCTGGAATCATTACCCAGATTATTCTGGAAAATATGCGTACCCTGGTGTCTT
CTGATTGGCACTGACTCCACACCCCCAATGGTGGCGGCCCTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGAT
GCTGTGGATGTCATGGCTGGGATCCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCT
CTCTCCGGTTGGTCCCTACCCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCAGAGT
GCAATCGTGGAAATACCACGGGCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGT
GCAGAAATTGGGGCCACCACTTCCGTGTTCCCTTACAACACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGG
GAAGACATTGCGCAATCTAGTGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTA
ATTGAAATTAACCTCAGTGAGCTGAAGCCACACATCAATGGGCCCTTCACCCCTGACCTGGCTACCCCTGTGGCA
GAAGTGGGCAAGGTGGCAGAGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCCAAT
TCAAGCTATGAAGATATGGGGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCC
CAGTTCACCATCACTCCAGGTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGG
GATCTGGGTGGCATTGTCTGGCCAATGCTTGTGGCCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAG
GGGGAGAAGAACAACATCGTCACTCCTACAACAGGAACCTTCACGGGCGCAACGACGCAACCCCGAGACCCAT
GCCTTTGTACGTCCCCAGAGATTGTACAGCCCTGGCCATTGCGGGAACCCCTCAAGTTCAACCCAGAGACCGAC
TACCTGACGGGCACGGATGGCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTT
GACCCAGGGCAGGACACCTACCAGCACCCACCCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGC
CAGCGCCTGCAGCTCCTGGAGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAG
GTCAAAGGGAAGTGTACCACTGACCACATCTCAGCTGCTGGCCCCCTGGCTCAAGTTCCGTGGGCACCTGGATAAC
ATCTCCAACAACCTGCTCATTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACT
CAGGAGTTTGGCCCCGTCCCTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGAC
GAGAACTACGGCGAGGGCTCGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATC
ACCAAGAGCTTTGCCAGGATCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCG
GCTGACTACAACAAGATTACCCCTGTGGACAAGCTGACCATTACAGGCTGAAGGACTTCACCCCTGGCAAGCCC
CTGAAGTGCATCATCAAGCACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAG
ATTGAGTGGTTCCGCGCTGGCAGTGCCCTCAACAGAATGAAGGAACTGCAACAGTGAGGGCAGTGCCCTCCCGCC
CCGCGCTGGCGTCAAGTTCAGCTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTC
AAG

5055/5332
FIGURE 4384A

GTGATACGAGCGGCGGCACGTGGCGCGGGTGGCGGGCGTGGAGTGGCGTGGCGTGGAGTGGCGTGGCGTGGCGGG
GTCTCGCGGCGCGGGCGCGCACCCGGAGCTGTGGACGGAGAGTGCCTCCCTCTGGCCTCAGTTTCTCATGTTGT
AGTAGCGGAGCATGGCCCCGACCGGGCCCCCGAGACCGCCCCGTGCAACCTCACCGCCAGCCTGGGGGCTCAGC
GACTGGGACGGGACCAAGGGGCTCGGGGATTCTCCCTGCCCCGGCCCTGGTGGCTGACTGACCCTCCTGTTCCC
AGAGC~~CCCC~~CAGCGCAGGCCGGGATGTTTCGTCTGGTGGAAATGGTGGACACCGTCCGGATCCCCCCTTGGCAGTT
TGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGG
ACTCTGCATTTGCTGTTTGATATCACCAAAGTGGAGGATGCCATATGTATTCCCTGGGGATGGCGCATCACACAC
CAAAGTCCATTTTCGCTGCGTGGTGTTCATCCATTCTAGATTGAGATTCTCATTGGGAAGATCAAAGGCTGCAG
CCCAGAAGGAGTGCACGTCTCTTAGGCTTCTTCGATGACATTCTCATCCCCCAGAGTCACTGCAGCAGCCAGC
CAAGTTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGGAAGGAGCACACGACCTCTACATGGA
CACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACACGTCCCCCACAGGGCCCAGCTCAGC
AGATGCCACCATTCCAGTGAAGAGCTGCCAAAGAAGGAGGCTCCGTACACGCTTGTGGGATCCATCAGTGAGCC
AGGCCTGGGCCTTCTCTCTGGTGGACAGCAACTAGCCCTGGGGCTGGACAGTGGACCCTACCAGCCTGCGGGA
AGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAGGAGATAGTGTCTCGAGCTGGACAGT
GAGGCAAGGCCAGGAGTGCCACCAGCTTGCCCCGCTCCTCCACCATCTAGGCCCTGCTCCTCCTTCACTGCAGT
GATGGATCCATCTGTGGCTGTGGCTGTTGGGCCTCCACTGACCTTGACTGAAAAGACCTTCTGGACCCTGGAC
TTGACAACAACGGCACAGACACCAATCACTCACAGAACAGTCACTGGTTTTGGATTCTTGTTCCTTGCAAGA
ACAAAAGGTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGGAGAAAACTTTAGATGGGAGTCTTG
TCATCAAAAATAAATACAGTTGCATGGAGCTGCTTAAGATCTGAACCAAACTCAAAATAGGAAGACGGGGGTAA
AAAGTTATTTTAAGAACCCCCCACCACAACCACAGTCACTCCGTGGGCTAAGCGGGGAGCAGGAAGCATGTCTG
GTCACACCATCTTGAATAGGAAGCCATGGCTGGACGGATCGGATCCACTGATGGCACACGTGGAGCTGAACCTG
ACGCCAGCGGCGGGGCGGGGAGGCACTGCCCTCACTGTTGCAGTTCCTTCATTCTGTTGAGGGCACTGCCAGCGC
GGAACCACTCAATCTGCGTCTCGTTGAAGGTGTGGTTTCAGGAGGATGGTCTCCTGGGTCCCCTTGGGGTGCTTGA
TGATGCACTTCAGGGGCTGCAAGGAGAAGGTGGGTGTGGGTGGAAGTGGTGGGTACTGTGTGCCCTTGGCCCCGC
AGGGGGGTGAGGGAGACAGGGCACTGCCCTGGGGACCTAAGAGGTGAGCAGGCAACCAATCCTAGGCCAGTCTG
TGCTTGATGGCCCAGGTGAGACCCAGGTGGCACCTACAGGGGATTCCTGGGGCCCAGAGGGTCTGCACTGGGTG
GGCTGTCCCCTGAGTGCCAGTCTCGTTGAGTAAAGGGAGGTTGGGGAGGTGTGAGGGCCCCGGGTTGACTCCAA
CCCCAACTCTGAGAAGCCACTTGTCTTCTGTGGGGCCACCTGGAGAAGTGGGGGCTTTCCAGCTGGAATG
AAGCCTCCTGGGAGAAGCTACCCTGGGGCCAGTGCAGGAGGGGAAACAAGGTGGCTGCCCTCACCCACCACCT
CAGGGGGACCCGGGCCCTAACCTTGCCAGGGGTGAAGTCCTTCAGGCCCTGAATGGTCACTTGTCCACAGGGT
GAATCTTGTGTAGTCAAGCGGTGAGCGAAGGTGAGAGGCAGCAGGCCCTGTTTCTTCAGGTTGGTCTCTGGAA
AGCAGGCGGCATTGCGTCATCGGGGCTGACTAGCCTGGAGAGCTTCAATTTCTGAACCCATCTGGGGCTCTGG
GAGATGCCCCCTAATCCTGCTGCTGGGACAATGCCCGGGCAGTGAATATGGGGCCCTGGTCTGCTCCCTTCACT
AGGGGTGCCCTAGCAAGTGTGCGCTGGTGTGAGGTCTGCGAGGCCCTCCTGCTGCACATTATGATCAGAAAG
AACCCCTGGCACATGTCTTAGATCTCAGCGGCTCAGATCTACAAGCCTGGAAAGCAGGGCCTGCGGGAAGCCGGG
AAGCTGAGCGTCGGATGTGCACTGTGTGAGCCTAAGAAGGGGCAAGAGGCTGACGGGCTGTGGGCTGCAGTGGA
CACAGCCTAGAACCAGGCCCAACTCAGCCACGGGCAGGGAGAGTGACCTTGATCACTAGGGATGGGATGAGGATG
GCCTGGGTACAGACTCCAGCTCACCGTGGATCCTGGCAAAGCTCTTGGTGATGATGGCCCGGCCCCCAAGGTGGC
GAGGCTCCAGAGCTGCATGCTCCCGGCTCGAGCCCTCGCCGTAGTTCTCGTCTCCGATCACCAACCCACCTGATGC
CATGTTTCTGTGAGGCAAGCGGGGTAAGGTTATAAGGCAGAGGAGGGCACCGTCCTCACCTGTCTGGCCCTACC
TGCTGGCCTCACCCACCTGGCGCTGGGCATCCTGAGGCTCCCGGTAAGGGGCTGGAGGGGGCCTTCTCTGCC
TGCTGCCTAAGGGCAAGTGAAGCTGCGTGAATGAGACCAACGAGGCCCGGAGGGGACAGAGGCACGTGGTTG
TTTGCAGTGGCAAAGAAGACAGAAGCCACCCATTGGTGTCTGGCAGAGGCAGGTGTGTGTGGAGGGAGGTTGGGT
GAGACAGGGACGGCTCCGGGCCCCACACAAGATGCATCTGTGAAGCTCAAGGCGCCCCCTTCTGGGAGCACCC
TCTGCCCCACCCAGCCACCAGGGGTGCCAGAGTCTTTACCCGGCTGGGCCAGGACTTGGGTTAGCCCTGGT
TCTGTTTGTCTTCAAAGCAGAAAAAGTCCAATCACCTCAGACCTCTCTGCTGCTCACTGTGAGGCCCGGTGT
AGCCCCCTCTCTGAGCTTTTGGCTCTGACTTCTGAGTCGGCCCCCTTCTTGTCTTGTCTAGGGCCAGATAT
CCTAAGATATCTCTACTAATCTCTCTGGTGACGGACCCGGCTGTACCACCGACCTGGGCCTCATGCCTTCT

5056/5332
FIGURE 4384B

CAGCCACAGGGAGGGGCTGCAGGCCTCTCCTCCCTTCCACAGCAGTCCCCITTGGGCTTGGTCGGCCTCCTTCCC
AGTTTCCACTCCCCCTAATGTCCTCCCTGCACCTGCCTTGCAGGCCCCCTTCAGGAGTGACCACTGGCATTGCCCCCT
ATCAACTCTGACCCACCTTGTAGTAGCGGGCAGTGTACAGGGACGGGGCCAACTCCTGAGTGACGGCATTGCGCA
CGGAGTTGGCCTTGCCGTTTTCAATGTTGATGGCACCAATGAGCAGGTTGTTGGAGATGTTATCCAAGTGCCCAC
GGAACTTGAGCCAGGGGCCAGCAGCTGAGATGTGGTCAGTGGTACACTTCCCITTGACCTTGGGTGGTAAGTAGA
GAGGACAGAGGTCAGGGCATGGCCCTGGAGGGGTGGATGACAAGCCCTCCAGAGGCAGGCAGCAGGCCCCGGGGC
CCAGGAAGGGTGACAGAGGGGTGAGAGGCAGGCAAGTCTTCAGACACGTGTTCTGTGGTCCTGGTGCTTCCACCC
TAAGGCCACATGGGCTCAGGCCAGGCCTTCATCCCCCTCAAAGGCCTCTGGCTGCTCAGTCTCCCTTATGGGGCAG
AGGCCGCCCCAAAGTTGGGACAGGTCAATGTTTCGCTCACCCCTTCAGGCCTCAGCTGCAAGATCAGCCACAGACCTC
ATGCTGGACACAGGAGCCCAGGACATGCCTGGGTCTGGCTGATGACTGATTAGTCTCTTCTGTCACAGGGGTGC
CTGGAGACCCCTTAATAAGCAGCATAAATAAATATCTGACACAGATTGGAGGCCTCTGGCCACACC

5057/5332
FIGURE 4385

AGCCATGGCAGTCACCGCCAGGCAGCCCGCAGGAAGGAGCGCGTCCCTCTGCCTGTTTGACGTGGACGGGACCCT
CACGCCGGCTCGCCAGAAAATTGACCCTGAGGTGGCCGCCCTTCCTGCAGAAGCTACGAAGTAGAGTGCAGATCGG
TGTGGTGGGCGGCTCTGACTACTGTAAGATCGCTGAGCAGCTGGGTGACGGGGATGAAGTCATTGAGAAGTTTGA
TTATGTGTTTGGCGAGAACGGGACGGTGCAGTATAAGCACGGACGACTGCTCTCCAAGCAGACCATCCAGAACCA
CCTGGGGGAGGAGCTGCTGCAGGACTTGATCAACTTCTGCCTCAGCTACATGGCCCTGCTCAGGCTGCCCAAGAA
GCGTGGAACCTTCATCGAGTTCCGGAATGGCATGCTGAACATCTCGCCATCGGCCGGAGCTGCACCCTGGAGGA
GAGGATCGAGTTCTCCGAAGTGGACAAGAAAGAGAAGATCCGGGAGAAGTTTCGTGGAAGCCCTGAAAACAGAGTT
TGCTGGCAAAGGGCTGAGGTTCTCTCGAGGAGGCATGATCAGCTTTGACGTCTTCCCGAGGGCTGGGACAAGCG
CTACTGCCTGGATAGCCTGGACCAGGACAGCTTCGACACCATCCACTTCTTTGGGAACGAGACTAGCCCTGGTGG
GAACGACTTTGAGATCTTTGCCGACCCCGGACTGTTGGCCACAGCGTGGTGTCTCCTCAGGACACGGTGCAGCG
ATGCCGGGAGATTTTCTTCCAGAGACAGCTCATGAGGCGTGACCGGGGCCACATCTGTGTGTCGTGACTTCTG
AAGAGTTTGGCCTAGGCCTAAAGAGAGGTCCTGGTGTGGATAGATGCCAGGGCCCCCTCCTCTGGCCCAGGACGC
CTGCTGCAAGCCCACCCAGATGGGGCCAGAGTCTGTGTGGACAACCGTCCCCAGCCAGTCTGCTCCTAGTGGCAC
TGGCTTCGTCTCCCAAGGGCCAGAGTGTTCCTCATGCTCCACCTGGTGGCCAGGCCACAGCTGCTGCTTGTAT
TTCGGTACAGAAGAGGTTTCTTCTGCACCAGGAGGAGCGTGCTCAAGTATCGGTACGAGATCTAGCCTGCCCT
GCCTGCCTGCCCTGGGCGATGAGGTACGGTGGGGAAGGTGCCTATTTTAGAGAACTTTGTCACAGTATTAAAGTT
CCC

5058/5332
FIGURE 4386

GCGGGCCGTTATCCATTTGTGTTGTTCCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTCGGTCTCGCGCG
CCCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGGAGGCCGCTGCGTTTGAGGCCCGCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTG
GCGGTATTGAGGACGAGGGGTCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCGTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGCCGCCGCGGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCATGCGCATTACATGCAGTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGTCTTTCGCCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCCTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTGGTTGATGCCTCCAAGGCTATGTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTGTTCTATGGTACCGAGAAAGACAAAATTTCAGTGAATTTAAAAATATTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTTAAGGGGCAGCAGGGACAAAACGTTTCCA
AGCATGATGAGGGCCAGGATCTGACTACTCAGTCAGTGCTGTGAGTGTGAGTGTGTTGAGTGTGTTGAGTGTG
CCAATTCAGATGAGTCATAAGAGGATCATGCTGTTTCCCAATGAAGACAACCCCATGGAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAGCCGGTGATCTCCGAGATACAGGCATCTTCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTTCGCGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTCTGTGATACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCTTGGCCTTGGAATTTGATGGAGCCGGAACAAGCAGTGGACCTGAC
ATTGCCAAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTGAGAAGAGGAGCTGAAGACCCACATCAGCAAGGTTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCTGCCGGCTTACGGGCTGAAGAGTGGGCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACAGAGGCCGCGCTCCAGCTGCCCTTCCGAGTGTGGCCAGGCTGCCTGGCCTTGCTCCTCAGCC
AGTTAAAATGTGTTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTACTTTACTGCTGAATAAAGAGCCCTAAG
TTTGACT

5059/5332

FIGURE 4387

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCTCAACAGGGGCATCTCTGAGTTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCAATCGCCTGTTCTGTACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTGTGTTGTTTTGTTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTGGAAACAAGTGTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGAACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTGTGTGCGGGGTGTGGTGGAATTAAACAGCATTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTGGGGAGGAAGCATG
TGTTCTGTGAGGTGTTTCGGCTATGTCCAAGTGTCTTTACTAATGTACCCCTGCTGTTTGCTTTTGTTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAACTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCCTGTGTCCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

5060/5332
FIGURE 4388

GAGCTGAGGTGTGGGTGTTTCGTTTCTCAGGTGAAACATGCTAAAAAGCTTACGGAGTAAGTGGAAAAGAAAGATG
CGTGCTGAAAAGAGAAAAAAGAATGCCCCAAAGGAGGCCAGCAGGCTTAAAAGTATTCTCAAACCTAGACGGTGAT
GTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACATTGCCAAGAGAAAATGCAATGTGAG
GTAAAAGATGAAAAAGATGACATGAAAAGGGAGACTGATACTAAGAGAAAACAAAAGACTCTTCTAGACCAGCAT
GGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTGACGGCAAAGCGAGAGAAAAGAAAGGGGAAA
AGCAAAGCAAAGCAGTGAAAGTGGCAAAGGGTTTGGCGTGGTAGACTCTTAAACCTTGGAATGCCACATGG
GATAGATGATGGATTAGAATGTATATACATGTATACTTTGATTTCAGCTGCCACCAAATGAAAACCATTGTTTT
CCTATTTTAACTTGGCCTTTTTTCTTCAATTCAAACCCAGCATAACTCCTGAAGTTTGTGTTTGGGAACCTGAATA
AAATATTTTCTTTGATACA

5061/5332
FIGURE 4389

GGACCACAGCTGATGATGGTACAGAGACCCAGGCTCCTGCAGGAGATGACCAGGGACAGTTAAGAGTTGAAATTG
CTGAAGAGATCCAGGTACAAGGGCAAGGAAATAAGAATGACGGTGGAGTTGAGGATGTTGCAGAACTCCAGGATA
TAGGAAGCCAGAGAAAGTGACAGATGAGGATGTTGGAGAGCCTCGAGCACCAAGGGGAGGAAACAAGGATCTGG
TCAGAGGAGAGGATGCTGTGAGGGACAGTCTCCAAGTCGACTGTTCTGGGAGTGAGAGGCCACAGGCAGGAAGC
ACAGCCTACCATGGCCTCCAGCCTTCACTGGCTATGGATGTGGGACCCGGGAACAGGAACAGGCAGTGGCTGTGA
ATGGTTTCATCTCTGCCCCCTGTCCTGAGATGAATCCTGTCCCCACTGGGGTGAAGTCTTCTGTGCTGGTGGGTG
GGGAGGGAGAGCATCTGGCCAGCCAGGGCACAACCCCTGCCAGGGATCATAGAGTGGGGATCAGTCCAGCCTCCC
AGCAGGCCCAACCTGAATCCTGGAGAAGACGACAAAGGGACAAAGGGGTGGATCCAGAGAAGGCCCCCAGCCTGA
CTCGGCAGTCCCAAAACCCCTCCGTCTCTGACAGCTCCCTTGGGCAIGCCCTCTGCCTGCTCCTGTCTCCCGTGTG
GCCAGCCCCGGAAGCTGCCATCATTCTAGCGGGTCCCTCCACCGCCCTCACTGTCTGCCAAGGGGACAGGCC
TCAAGAAGAGCAAACGACTGCTCCTGGAGTCCCTCATGCGGAGGAGGATTGCACACCTGAAGTGGGGTCTTCCCC
GGCGGATCCTGGAGTCTATTTCCTGTTTAACCTTCTTAGGATCTTGCTCATTGACCCTTGCTGGGGCGAGGCTCT
CTGGACTGAACACAGGCCAGGAGCTCCAAGCCGAGCAGGAAAGGTATTGTGAGGCCCAAGGCTCCCCACAGGCC
TTAAGTCCCCAGAGAGGTTCCAGAGGGTTCCAGCGCCAGACAGAAAAAGCTCGAACTTCTATACAAGCCAGAG
CTCTGGAGAGGAACAGACCGCACATGTGACAGGCCATTAAGCATTTCATCCAGCCTGAAAAGGCCAGGAGAGTC
AGGCCACCAGGGGGCGCCAGAGAACCACAGGAGATCCAGGAAGCGCTTGCTAGGACCAAGCTCCCAGCTCCCAGG
ACCCCCAGGCCGGCAGCGGAGTCCAGGAGCTGGTGTGGCCACAAAGGGTCGAGAGCCTCCCAGTGAGAACAGT
AGGGGCAGGAAAATGATCAGGTCAAGGGTCTCCCAGCTGGCAGAGAGGGCTCCCAGCAGAGTGAGGACTTCATT
TCTAGGGCAGACCACGCCCACTGGAGGAAGGAATGTACATCCTGGGAGGCCTCTAAGCTCCCCAGACTCAAATGC
CAGCAGCTCACATACTGGAGAAGAGGAAGCCTGGAATCTACAGGGTGCAGAGGGGCTGGGCAGCAGCCTTCCTGC
CATTCTGCAGAACCTGTGAGCTTCAAAGGGAGGCTCCACTCTGCGGTGGCAAAGCTGGGCCTGACCCTTCTGGCC
AAGATGTCTGGTCCCCACAGCTCGCCAAGCGCAAGCACTGGCCCCTAACCTGAGCCTGAGGGAACCTGATTCT
ACTCTGCCTCCCAAAGTGGGTGATCCTCGTGCAGGGGAGGACAGCATCGGAGATCACACTGCTTCACAGAGGGAT
CTTCAGCTGCAAGGTCACTGCTGTACTGGGGCCACCCTTCCTAAGACAGAGAGTCCCCAGGGCCAGGAGGCACCT
GGGAACCCAAATGGGGCTCCACAGAATACACGAGCCTCCAAAAAGTTTAGTATTATGAAGCATCTGAATTTTTTT
CTCTTCCAGAATGGCTTTAAAAAGTAGACTCAGGCCCAGAGTCCTCAGGACATATCAGAAAAGCTTTGAGAGTGT
CCTGATCCCTGCAAAGCCTCTAATAAATTGGTCATTGG

5062/5332
FIGURE 4390

AGTTGCTTTGCTGTTAGCCTGTTGGACCTTCGAGCCTAGCTGCTCGCACAGGACTCGGGCCACCTGCCCTTCCTGC
ACCGACTGGCCAGCTCAAGAGGTTTGGATATGGACCTTCTTCAATTCTGGCCTTCCTCTTTGTCCTGCTTTTGT
CTGGGATGGGAGCCACAGGCACCTTGAGGACCTCCCTGGACCCAAGCCTGGAGATCTACAAGAAGATGTTTGAGG
TGAAGCGGCGGGAGCAGCTGTTGGCACTGAAGAACCCTGGCACAGCTGAACGACATCCACCAGCAGTACAAGATCC
TTGATGTCATGCTCAAGGGGCTCTTTAAGGTGCTGGAGGACTCCCGGACAGTGCTCACCCTGCTGATGTGCTCC
CAGATGGGCCCTTCCCCAGGACGAGAAGCTGAAGGATGCTTTCTCCACGTGGTGGAGAACACGGCCTTCTTCG
GCGATGTGGTGCTGCGCTTCCCGAGGATTGTGCACTATTACTTTGACCACAACCTCCAACCTGGAACCTCCTCATCC
GCTGGGGTATCAGTTTCTGCAACCAGACAGGCGTCTTCAACCAGGGGCCCCACTCGCCCATCCTCAGCCTGATGG
CCCAGGAGCTGGGGATCAGTGAGAAAGACTCCAACCTCCAGAACCCATTTAAAATCGACCGCACAGAGTTCATTC
CCAGCACTGACCCTTTCCAGAAGGCCCTGAGAGAAGAAGAGAAACGCCGAAAGAAAGAGGAGAAGCGGAAGGAGA
TCCGAAAAGGCCCAAGGATCTCCAGATCCCACTGAGTTATAGCCCTGGAGCAGCTCAGGGCTCAGGGGGCCAC
AAGGAGGCAGGTCGGGAGGAAGAAGAGGTGGAGGTGTGGTTGTGGTGGAGAGCACCAGCTAGCCCTTCCAGAAG
GGGAGGCCACATTTGCCCCGGCCCCCTGGAGCTGGGTCTGAGCCCCAGCTGAAGGGACTGAGCCTCAGATGGCTGG
ATTTTCTCTCAGGGGCTCCTGCTGAAGGGGCTTCAGAGGATTTTATGCTGGAAATATGACCCTGTGCAGACTG
CTGGGGGAGGCAGGAGGATGCCTGCCTGGACCCTGTTGGTGGCTGAAGACCTCTGGCCAGCTGGCTTCCGCCCTT
GGTGGGGAAGCAGCAGAACTAGGTTCTGAGCCACGGGTGAGGTGCCACCCTGCTGCTGGCCCCACTGTGTACACA
GAGCTGCCTGGCACAGGTCCCAGCCCTCTGCAGAGACACAATAAAAGCCAGCAGACCCTTG

5063/5332
FIGURE 4391A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCCGGTGTTCATGGGCGGTGGCGACGGCACCGCCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGCGGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTTTTTCAGAACAGCTGTGTAGCTCCTTTCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCCCT
TCAGTGCAACGGTCATTACCCAGGTCACATTACCTTCTTCTCTCCCTCGGCGGCTCCCCACAGGCTCCAACCT
CTGCAAGTCAAGGTTTTCTCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTACAGCAACCTCCGCAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCTCCAGGTACAGCCGGTACCATTCAGCAGCAGGTGCAGACAGTACAGGCCCAGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGCCCTCACCGCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCCTAGTGGGGCAGCAGTGGGACCATTCTGACCACAATGCCGTGAATGATGGGGCAAGAGAAAGTG
CCCATTAAGCAGGTACCTGGGGAGTCAAGCAGCTTGAGCCCCCAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACGACAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGAACATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCTTCTGATGTCCCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCTGTGCCTCTCCTTTAACCCCTGACTTCCCTGCTGCAGTGGGAGGGGGCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGCACTGTCTGTTCATTGAGTCAAGTTCTGGGGGCTGGTTTGACTGGATGATG
CCTACTCTTCTTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGCAGCTGCTGCCGGCAACCTACAAACCTGCCTGGCAGTTTTGGGCGGGGCACTGCCACCTCC
CGCCTGGACCTGGCCTGCAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCACGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGCTGCACCAGCTGCACATCACAGGGAAGCTTCTGCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGGCCCCGAGCACAGTGTGTTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCAGAGGAACCCAGCTGACCCCATTGCGCAGGTCCACCAGGCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCCTTGGTGAAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCACTTCTTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTCGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCCCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCACTGGGGCC
ACCTCTGACCTTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAAGTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCAGCATAACCGCAAGGTGTTCTGTCATGAA
GCCACCGTGCGCTGATGGCAGGAGCCAGCCCCACCCGACCCACCAGCTGCTGGAACACAGCCTGCGGCGGCGC
ACCACGCAGAGCACAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCTGTCTG
GCCTGCGGCCACCTGCCCTCTCCTTCTCTCTCTCCCGGGCCAGCGGGCAGTGTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCAACAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTTCTCTCTCTCCCCCTCAG

5064/5332
FIGURE 4391B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCTACTCTCTCCTTTTGGCTTCCTCAGTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAAATAAATGGTATCTTA

5065/5332
FIGURE 4392

GCACCGCAGGAGCAACGGTTGGTCCTGCGGCTGTGATGTCGGTGTTGAGGCCCTGGACAAGCTGCCCCGGCCTGA
ACACGGCCACCATCTTGCTGGTGGGCACGGAGGATGCTCTTCTGCAGCAGCTGGCGGACTCGATGCTCAAAGAGG
ACTGCGCCTCCGAGCTGAAGGTCCACTTGGCAAAGTCCCTCCCTTTGCCCTCCAGTGTGAATCGGCCCCGAATTG
ACCTGATCGTGTTTGTGGTTAATCTTCACAGCAAATACAGTCTCCAGAACACAGAGGAGTCCCTGCGCCATGTGG
ATGCCAGCTTCTTCTTGGGGAAGGTGTGTTTCCTCGCCACAGGTGCTGGGCGGGAGAGCCACTGCAGCATTACACC
GGCACACCGTGGTGAAGCTGGCCCAACCTATCAAAGCCCCCTGCTCTACTGTGACCTGGAGGTGGAAGGCTTTA
GGGCCACCATGGCGCAGCGCCTGGTGC GCGTGCTGCAGATCTGTGCTGGCCACGTGCCCGGTGTCTCAGCTCTGA
ACCTGCTGTCCCTGCTGAGAAGCTCTGAGGGCCCCCTCCCTGGAGGACCTGTGAGGGTGGCTGGCCCCCTGGGCTGC
CCCTTCTCATGGCTTCGTGCTGACTCCATAAACATTCTCTGTTGAGGATGTCCAGTCAGGGCTTGACAGGCCCCAG
GCTCAGCCCGCCGTGGCTGGGAAGGTTCCCTGCAGTGCCAGTGCTGCAGCAGGGAGAGCTGGGCAGAAGCAGCGA
GGGGGCCAGCTGGCGAGACTGTAGCCCECTCCCACTCCCACACTCACTCTTGCAGAGCCTGTGTCTTTAAGCAG
CTGGCGTGTTACATCTCCATTTAAGGTTTCCTTTGAACAAAAGGTCTGTGGCTAAAAAAGTTTAAAAATC

5066/5332
FIGURE 4393A

GATTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAACTCCGGAGCCTGGCCGAGCCCCGCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGCCGAAGGCGGCCCTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTCAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAACCTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATAACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCTTTTCTGGCTGACT
ACGTTCACTCCCTGGGCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCGAGTGGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCGAGGAGCGGGCCAGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCCTCCCCCAAGGGTGAACACTACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAACCTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCAGATGGCCCTGTGGACGTTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTACAAAGGAAAAATCTCTCATCGAAGTGATACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTTGGCCAGC
TGAACCTTACCGGGTCTGTGATATATGAGGCCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCTTCAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAACCTGGAGA
TGTCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCTCTTGGAACTTCTTTTGGGGCAATTTTCTGTG
GCCTTCTTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGACG
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTCACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGACTCTGGTGGCACTACACGGGGTGTGGATTCA
AATCTCACCTCTATGGATGATGCTGGCATCGTCTGGCCCCCTCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCCTCACACCCAGGAGCTGCCCTGCTGTGCCTGATGCTGGCAGTGGTATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCCAGGTCTGCAGCTTGTGCTCTGCCAGCAGTGGCCCTGGCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTATTTCTCTCCCAACCTGG
CTGCAAAGGAGGTTTCATATTTCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAAATTGATTTCTG
TCCCTCTTCTTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGCTTCCCTGGTGGCTCTCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTCTGAGGTCTTGTATTTAGGGT
ATGGTGTAACAACTTACATATGCACATTTTGTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTCCCTTCCCCAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCTCCGTGCATAGCTCTGCCTTTGGGTCTTGTTTCATAGTGCTGTTCAGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGCTAGCTCCAGGAAGGCTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTCAGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTTCTTTTGTCTGGGGGTGCCTGATTGATCCTATCTCTTCACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTTTGGACGCAAGGTACCCTTCTCTTTTAAAAAATTTTTATCATGAAACCTT

5067/5332
FIGURE 4393B

CAAATACAAAATAAAATGGTAGAGTGAACCTCCATG

5068/5332
FIGURE 4394

GGGCGGCACGAGGGCTGGGCGGTGGGGTGCGGGTGCCCGGGTGAGGGGCGGAGCTGGGGGCATGGCGTCCGGAGC
GGCTCGCTGGCTAGTATTGGCACCCGTCAGGTCCGGGGCTCTCCGGAGCGGGCCTAGCTTGAGGAAAGATGGCGA
TGTCTCCGCCGCATGGAGCGGCTCAGGCCGGAGCCTGGTACCGTCGAGGTCAGTCATCGTTACCCGCAGCGGCGC
CATTTTGCCCAAACCGGTGAAAATGTCCTTCGGCCTTCTCCGTGTGTTCTCCATTGTGATCCCCTTTCTCTATGT
CGGGACACTCATTAGCAAGAACTTTGCTGCTCTACTTGAGGAACATGACATTTTGTTCAGAGGATGATGATGA
TGATGACTAAACAGGAATTACAGAAAGGAGAAAGCACTAACTGAAGAAATGGTGATGCTCTCAGTTTCTCTGCCTT
CCCTATCAGCAGAAAGGCTCGGGGAAGGCCCTCAGCCTCCAGTCTGGTGAAGCTTCCTGTATGGTCCATGACCG
TATTCACCCCAGGCTCTGGGAGGCTCCCTGAGATGTGCTGTCCACTAAGCACTGCACAAACAAGCAATCAAATT
ATGAATAAACATAATAAATATCAGCCGTGCG

5069/5332

FIGURE 4395

GGCGTTTCTGTAGATGAGCATGCGCAGCACCCACCGTTCGCTCAGCCAGAGAGAGGCTTCCCAGCCAATCCGAGA
GCCTCAGAGTCATCTCCCGCCACCCAGCATACAGGCGGGGCGTTCCTCCTTAGCCAATGGGAAAAGACATTCTG
CCCGCGGTCCGCACGCGCTGCTTGCAAAGGGGTGGGGTTGTGGAGTGGATGCTTTGGCAAGATCGCGGGGAGCGG
CGTCCGCCAAGCTACTTCTACCGCCAGCACCTTCGTGAAGCCCATTTTCAGTCGGGACATGAACGAGGCCAAGCG
GAGGGTGCGCGAGCTCTACCGCGCCTGGTATCGGGAGGTGCCGAACACTGTGCACCAATTCCAGCTGGACATCAC
TGTGAAAATGGGACGGGATAAAGTCCGAGAAATGTTTATGAAGAATGCCCATGTACAGACCCCAGGGTGGTTGA
TCTTCTGGTCATTAAAGGGAAAGATCGAACTGGAAGAAACAATTAAAGTATGGAAGCAGCGGACACATGTTATGCG
GTTCTTCCATGAAACAGAAGCGCCAAGGCCAAAGGATTTCCTATCCAAGTTCTATGTTGGCCACGATCCATGAAG
TCATTCAAGTGGAAAGATGCACGTTGATACTATTTTAGAGCACAAATAAACTCACTATACAATGGTCACTTTGTGA
TAGAATTCCATTGATGAACCAATTTTCTGCAGCCTCTTTTGCCTGAGCAAGTGGGACCTTGGTATACACATCAC
CTGTTCTTTCCCTTTTCTTGAAATGTGGTGTGCTGTAAATTGGATTGAATTATTTTCTCAGAGCCTTGCATG
TCAGTAAACAGGAAGGAAGGAGGCCATCTGTTCAAAAATTGTGACATTGGGCATGAGGCTGGACGACTTGTTAAT
GTAGTTGTTTCTATAGCCCCTATGATTAGACACTTCAGTGTGAGGGCACAGATTATCTAAAATTAGCCAGCTCTT
CCTGTCAGGGATCAGGGCAGCACTAACAGGCGCAAAAGTAGAGCTGTCAAGATGGGCTAGTTTTCTTGGGTTCT
GAAGAAAATGGATGTGCAAAGGCTTGGCTCCGCTACTTGTAAACAAGCTCCAGCCCTTAAAATGAAATTAACCTCC
TACTCAGGCACCCTGCTTAGGTGCACAGCTGTTCAATATACACAGAGAACAGAAATATTCTTACTGCTTTGGAA
ACCCTGGTGTACCTCTCAGTGGCAGAATAAACATCAACACAGGTTCAAGAAGT

5070/5332
FIGURE 4396

GTTCCACCGCTGTCGCCGCCGTAGTGC GGCATGCCGCTCGGCGGAGGGGCCGGGCTGCGTTCTCTCCTCCTTCC
TCCCCGCCTCTGGCTGCCGGCAGGACCTTTCTCTCGCTGCTACTGGGACCCCGTGTCATAGCCCAGGCTGAGCAC
GATGCCCCCTCAAAAGGGAGGTGATGGAATTAAACCACCCCAATCATTGGAAGATTTGGAACCTCACTGAAAAT
TGGTATTGTTGGATTGCCAAATGTTGGGAAATCTACTTTCTTCAATGTATTAACCAATAGTCAGGCTTCAGCAGA
AAACTTCCCATTCTGCACTATTGATCCTAATGAGAGCAGAGTACCTGTGCCAGATGAAAGGTTTGACTTTCTTTG
CCAATATCACAAACCAGCAAGCAAAATTCCTGCCTTTCTAAATGTAGTGGATATTGCTGGCCTTGTGAAAGGAGC
TCACAATGGGCAGGGCCTGGGGAATGCTTTTTTATCTCATTTTAGTGCTTGTGATGGCATCTTTTCATCTAACACG
TGCTTTTGAAGATGATGATATCACACATGTTGAAGAAAGTGTAGATCCTATTTCGAGATATAGAAAATAATACATGA
AGAGCTTCAGCTTAAAGATGAGGAATGACTGGGCCCATATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGA
GATAAAAACTAAACCCAAATATGATATAATGTGCAAAGTAAATCCTGGGTTATAGATCAAAAGAACCTGTTC
GCTTCTATCATGATTGGAATGACAAAGAGATTGAAGTGTGTAATAAACACTTATTTTTGACTTCAAAACCAATGG
TCTACTTGGTTAATCTTTCTGAAAAGACTACATTAGAAAAGAAAAACAAATGGCTGATAAAAAATTAAAGAGTGGG
TGGACAAGTATGACCCAGGTGCCTTGGTCATTTCCTTTTAGTGGGGCCTTGGAAGTCAAGTTGCAAGAATTGAGTG
CTGAGGAGAGACAGCAGTATCTGGAAGCGAACATGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTG
CAGCACTCCAATAAAATACTTTTTCACTGCAGGCCCAGATGAAGTGCGTGACGGACCATCAGGAAAGGGACTA
AGGCTCCTCAGGCTGCAGGAAAGATTCACACAGATTTTGAAGGGGATTTCATTATGGCTGAAGTAATGAAATATG
AAGATTTTAAAGAGGAAGGTTCTGAAAATGCAGTCAAGGCTGCTGGAAAGTACAGACAACAAGGCAGAAATTATA
TTGTTGAAGATGGAGATATTATCTTCTTCAAATTTAACACACCTTAACTGAAGAAGAAATAAAATTTAGTTA
CTGCTCAGATAAACATACAACCTCCAAAAGGCATCTGATTTTTTAAAAATTAAAATTTCTGAAAACCAATGGGAC
AAATAAAGTTGGGGAGATGGGAATCTTTGACAAACAAATTATTTTTGTTTTAAAATTAAAATACTGTGTACCCCTC
TCCCCCAATGAAATGCAAGTTCACTAAATGTGAACACCTTTGCTTTTCATGTGATTAAGACCCTACTCCAAATT
ATAGAAGCTTTTCAAGAACCATGTTACTCTCATGATACTTCATTAATCTCCATCATGTATGCCAAGCCTAACACA
TTTGACAGTGAGAACAATGTGGCTTGCTCCTTTTTGAATCTACAGATAATGCATGTTTTATAGTACTCCAGATGT
CTACACTCAATAAAACATTTGACAAAACC

5071/5332
FIGURE 4397

GAGAGTGTCTGCCTGGTCTCTGTGCCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCASTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGGCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCAITGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCGGTGGTCTGTCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGCGAGG
ACACGGCCGACCGCCCGCTGCGCCCATCTACCAGGTCTTGGGCTTCGGGCGCGCTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCGCGCTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGA
AGTCGTGGAGCAGTGGGTGACCGAGGAGGCGCCTTGTGTGCGCCCTTCGCGGACCAAGCCGGACGCCCCCT
TTCGCCCCAACGGCCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCCGCTTCGAGT
ACGACGACCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTTCGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCCGTCTCCCGCACATCCCAGCGCTGGCTGGCAAGGTCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCAGCCACCCCGAGACCTGA
CTGAGGCCCTTCCTGGCAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACCTGTTCTTGGCGGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGCAGCGCTTTGGGGACATCATCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCGCGATCCCTAAGGGAACGACACTCATCA
CCAACCTGTATCGGTGCTGAAGGATGAGGCGCTGGAAGAAGCCCTTCGCTTCCACCCCGAACACTTCCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCTTCTGCTTCTCAGCAGGCGCGCTGCATGCCTCGGGGAGC
CCCTGGCCCGCATGGAGCTCTTCTCTTCTTACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCCGGAC
AGCCCCGGCCAGCCACTCTCGTGTCTGCTAGCTTTCTGGTGACCCCATCCCCCTACGAGCTTTGTGCTGTGCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACCTTGGGTCCCCTGCTCAGCCCTCGTTGGGATCATCTCTCAGGGCAACCCACCCCTGCCTCATTCTT
GCTTACCCACCGCTGGCCGCATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTCAGTTACCCTTGCCCATAA
TCCCATGTCCCCACTGACCCAACTCTGACTGCCAGATTGGTGACAAGGACTACATTGTCCTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTGAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTAGGCTAACTCAGCCACCCACATCAGGGACAGCAGTCTGCCAGCACCATCACAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTCAGGGAGCTATATGCCAGGGCTACCTCCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCGAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCCAAAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCCTCAGGTTGA
GTGTTACAGTTCTT

5072/5332
FIGURE 4398

ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAGCTGAGTTCGCACTCGTGACTGGCCGGGGTCAACTCTGACATTGCTCCCACTTTC
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAGGAGTCAAGGTGGAAGTTTTTTCATCCAAGCCAGTTCGGGGTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTGAGCGGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCACAGAGAGCCACCCT
GTGAAGAGTGGCATTCAAGTGATCAGTGACTACGCAGACTCTGTGCCCCGACCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGTC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCGGGCGGCCTGTGCTCCCCCGGACTGAGGCAGCCAGC
TTGCGGGTGCTGGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCCGAGAGGAGGACTTGTCTTCTGCTTCTTGCCCTCCACACCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCTTTTCCCTCAATGAAAAGCCCTTGCTGGCAACGAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAAGGCTAGGTGGGCCCAGCCCGCCCTT
CCTTCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTGTGGGGCTCAGGAACCTCAGAGTCCCAGTGTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAACTGGAACCGCTCTTT
GAGGGTGGATTTTATTGTGTCTATCATGAACGACAGGGACTCCTTGTGAGAGTAATTCTCTCTTGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCC

5073/5332
FIGURE 4399

ATGAGTGAGAACGCCGCACCAGGTCTGATCTCAGAGCTGAAGCTGGCTGTGCCCTGGGGCCACATCGCAGCCAAA
GCCTGGGGCTCCCTGCAGGGCCCTCCAGTTCTCTGCCTGCACGGCTGGCTGGACAATGCCAGCTCCTTCGACAGA
CTCATCCCTCTTCTCCCGCAAGACTTTTATTACGTTGCCATGGATTTTCGGAGGTCATGGGCTCTCGTCCCATTAC
AGCCCAGGTGTCCCATATTACCTCCAGACTTTTGTGAGTGAGATCCGAAGAGTTGTGGCAGCCTTGAAATGGAAT
CGATTCTCCATTCTGGGCCACAGCTTCGGTGGCGTCGTGGGCGGAATGTTTTCTGTACCTTCCCCGAGATGGTG
GATAAACTTATCTTGCTGGACACGCCGCTCTTCTCCTGGAATCAGATGAAATGGAGAACTTGCTGACCTACAAG
CGGAGAGCCATAGAGCACGTGCTGCAGGTAGAGGCCTCCCAGGAGCCCTCGCACGTGTTACAGCCTGAAGCAGCTG
CTGCAGAGGTTACTGAAGAGCAATAGCCACTTGAGTGAGGAGTGCGGGGAGCTTCTCCTGCAAAGAGGAACCACG
AAGGTGGCCACAGGTCTGGTTCTGAACAGAGACCAGAGGCTCGCCTGGGCAGAGAACAGCATTGACTTCATCAGC
AGGGAGCTGTGTGCGCATTCCATCAGGAAGCTGCAGGCCCATGTCTGTGATCAAAGCAGTCCACGGATATTTT
GATTCAAGACAGAATTACTCTGAGAAGGAGTCCCTGTCGTTTCATGATAGACACGATGAAATCCACCCTCAAAGAG
CAGTTCCAGTTTGTGGAAGTCCCAGGCAATCACTGTGTCCACATGAGCGAACCCAGCACGTGGCCAGTATCATC
AGCTCCTTCTTACAGTGCACACACATGCTCCCAGCCCAGCTGTAG

5074/5332
FIGURE 4400A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTTGTTCTAATGGGTAAACTGCGCTGCATCACAGCTCCCC
TTCATCCCCCATTCGGTTTCCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCTCCAGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTGTTCCCCAGTGAGGTTTTTT
GTTTGTGTTGTTGTTGTTGTTGTTTTGCTTTTTTTCAGTTATTTTGAGAGTCTCACTGTGTTGCCAGGTTGGTTT
CAAACCTCTGGGGTCAAGCAACCCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTGCTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCTGGGTAAATGAATTATGTGATTTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTCGGGCTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCTTAAACTTAAACCAACAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATCATGCCACTGCACCTTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTC
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAAATTTTAAAAATGAGCC
AGGCATGGTGTACACGCCTGTAGTCTTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGCTGCGAGGTGGAATGAGATGAAGGGGTATGGAAAGTGTACACCC
AGTGCCCTAGCTCATGACAGATGCCAGTAAATGGTGGGTCCCTCCCCATCTAAGGAAAAACTGACAAGAATTTT
TGACTCTTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACCTGCGCTCCTCCTCAACCCCCCTGCCGAAGTGGACCTGACACCATCCTGAAGGEACTCTTCAAGTCC
TCAGGGGCTCTGTGACCACGCAGCCACAGAATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTCCCAAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCCTCACTGGATGGGACCCGCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTACGTTAACGTTTCTGTAGTATGTTTCTTCACTCATCGCCAAGGTAGGCTTGTTGTTT
TCAGTGTGTGCTCCCCGAGCCTCAGCCCCAAGCTGATTTCTTATCTGGAAATGGTACACTGAATTCTCTGGGTG
GCTTTCTTGTTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCTGCTTTTTCCAGGGGCCAGGGGCT
GCCTTTCTTTGTGTGATTAAAGCTTTTCAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTCGGCTGAGAGCTGTGCCGCTCCTCTGTCTTGTCTGAGTGGAGGTGCTGGGTGGGAGCAGGTCTCAGGCCTCT
TGCTCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGCTTGAGTCCCGTGTCTGTCTCCACCCAGAGGAAGTTCTCCAGAGTTCACCTTTCCCTTTTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGGTTCTCACCTCGCCTGGCACTTAACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCTTTGAAAGGCTCAGCCTCCCATTGTGCAGTGTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAAGTTG
TTCTGGCTCTCCATTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTCTCCACTTATGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTCTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCAGCATAGGCGCAGA
CAGTTGGGACGAAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAAGGCTGTTGTCACTGAGTGGTCCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTGCTTGAGGCTAGCCCA
GTGAAAAAACCAGAGACTCATGTTTCCAGGGGTCACTCTGTGAGGCAGGAAGGACCCAGGATTGAAACCCAGCT
TCAGTGTGACAGCTCTGAGGCTGCCAGGACGGGAAGTCCAAGGAAGGGGCTGGTGGTGTCTCCACTTGACGTT
CTTTAAAGAATGCTGCTTTTTTATTCTCCTAACCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGTGAAGACA
TTCTCCACACTTTTCCCTTCTGGCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGG
GAGCCGGGGGCTCACTGCTTGCACTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAGCAGGTATCTTCTGGTTGTGCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

5075/5332
FIGURE 4400B

GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCTCCTCCACTTCCCATGCCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCAGCCAAGGGTTTTAATCTTGCAGGGATTTCACATTTGGGGTGGAAT
TAATTATTTAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAATCCTGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTGGAGTTACAGGCATGAGCCACTGCTCCCCACAGGGATGCAAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCCCTGTGCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTACTCTGCCATTTCTGTGCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCTGGAACATTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCTGTCTC
TACTAAAAATTACAAAAATTAGAGGGGGCGCGTGGTGGGCGCTTGTAATCCAGCTATTCAGGAGGCTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGCAGTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCACTTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTTGTGCCAGGAG
GCAGAGGTGCGAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCTCTCCTGCAGTCTACCCATGTGAGTCA
ATGGCAACACCATCCTCTTGTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTGCGACTCGTGAAGTGGCCGGGGTGGTCTGACATTCACTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCCGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGAGGCGCCACAAAAACGCGCTCGCGCGGGCGCCGAACCGCAACTCCCGGCGACCCCGCG
CTCCCGGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGGGCGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTGGGGGCT
GGCGGCGGCGGGGGTCCCCAGGAGCGGCCG

5076/5332
FIGURE 4401

CGCGACGGTCTCGGCGGCGGCGGCGGCGGCGACAGAGCGAGCGGCGGCGGGGCCACCATGGGGGCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCTCGAGAGCCCGGACATCAAGTACCCGCTGCGGCTCATCGACGGGAGATCATCAGCCATGA
CACCCGCGCTTCCGCTTTGCCCTGCCGTCACCCAGCACATCCTGGGCCTCCCTGTCGGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTCGTCCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCCGCCATCCGACCTGACAAAAAGTCCAACCCTATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCCGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCCGCTGGTGCTGATGTGTGGCCCCCACCATGATCCA
GTACGCTGCTTCCCAACCTGGACCACGTGGGGCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTAGCCTGGCCTGCCCTGGCTGAATCACCTGGCTGAGCAGTTCCCCCTGGAGCCCCCTTC
GGGAGCAGGGCTGTGTCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCACCCAGCCTCGCTGTCACCCCCACTCCCGCCTCAGGGCCAGGGCCAGGC
CTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCAGAACCT
CAGCATTTCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCACAAACCACATGTAT
TTATTCTCTGTCTAAACCGTCCCCTCCTTCCCTACCCCCAGCACAGGGGGATTCTGAGCAGTGCCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAGTAAAACCTTTGCTAATATT

5077/5332

FIGURE 4402

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAAACCATCAAAACTATTCCACAGACGCCACATGAGC
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTCTGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT
CAAAGACTGGATTCTGGCCCACAAAAGAAGGTTCTTGCTTACTGGAATCAAGAGGTCAAAGATTTTTCTGAATCA
TGCATCCACGGAGAAGAGCCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAAGGAGCCACCACAGAACGAGCTCGGCACCC
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC
AATCACCCCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGAGGCCATCATTAGGTCAGTGGAAAATGATATC
TTCCTGGAGGTTGATACTGGCTTACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTCATCATTCTCTCTACACAACAAACCCCT
GAACTCTTAGAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTCAGCCGGCTTTCTCTACTTGTTCCTCAT
TCCATGATCACAGAAAACAGCTCCATTAAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA
TGTTTCTTCGGCATTACTCAAAGTGCAGCTACACTCAGCCACAGCTTACATCAGATTTATCAGCAGAGAACAA
AAGAAGTACTTGAAATTGCCACTTACAACGTTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTTCTGTTGGAAAC
CCTCAGGAGTGGAAGAAATTGTTCAAACCCCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAACCTGGAGCTCTAC
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCATGATGTGGCTTTGAAGAAGTTTGCCAAATAC
TTTCTTCACCAATCTCATGAGGAGAGGGAAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA
ATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT
GACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG
GGAGACAGTGATAACGAAAGCTAA

5078/5332
FIGURE 4403

ATGCTGACCCCGGCGTTCGACCTCAGCCAGGATCCGGACTTCCTGACTATCGCCATCCGCGTGCCCTACGCCCGG
GTCTCCGAGTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGTTCTACGCCAAGCCATACTTTCTCAGGCGAGTT
CGGGGAATTTTTACCATTGCGCTGCCCAAAGAAACCCCTGGCCAGCATTGAGGGGCTGAACATGTTAACTGCT
CTTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGGAAGAAATAGGTGCTTCTGAGATTCCTGAGGAA
GTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCTGTGAAGAGGTATCAGAAAGTGCTTTGAAT
CCGCAGTGCCACTATGGATTTGGAACTTACGATCAGGAGTGTTGCAACGGTTACAGCTGCTGTTTATGGCAGCC
GTAACAAGTGTTCAAACTGAGTGATCATGATGAACTGAGTGATGTTATTGATATTAAGGATCCAGATTCACC
CCTGCAGCTGAACGAAGACAGAAGCGCCTGGCCGCTGAGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGAC
TTTTTTGAAGATGAGGCGATTGAACAGATTTTGAAGTATAATCCTTGGTGGACTGACAAATATTCAAAAATGATG
GCCTTTTTGGAAAAGAGTCAGGAACAAGAAAATCATGCTACATTAGCGTGGGCTGTTGTCTGTTTAAACACCTCCT
CATCAGGTGTCGCCAGGCAGATACAACAGTGCACTGCCTCCCTATTCTGTGATCTTAAAAGTGACACCCTTGCC
ACAACCATAGCATTTGCTCAGTACTCTCAACATAAACCAAGCTTAGATCGCAATGAACTGCGGACCTGCAGGCT
GCCTTGCTTCACTGTA

5079/5332

FIGURE 4404

ATGATCTTTAATTTTGCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATT CAGGAATAC
ATACGACAACCTGCCTCCGAATTTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAACCCAGGAGTTTCCAAGCT
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG
CTCAAATCAGCTGTGCTTTT TAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTT
TCTGTTGGAACCCCTCAGGAGTGGAAGAAATTGTTCAAACCCCTGTGCTGCCAGAGACTCTTTCTTCCGATCAAC
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACC
CGAGGTGGCCGAATCTTCTT CAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG
GATGACAAAAATGACCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTTAA

5080/5332
FIGURE 4405

ATGGAGTTGATGCGTTGGTCCACACTTGTGGAGGACTATGGAATGGAATTAAGAAAAGGTTCCGTTGGCAGTCCT
GCAACTGATGCTTTTGGTTCTACAGAGGAAGGCGAAAAAAGGTGGAAAGATTTGAATAACAGAGTTGTTGAACAT
AATATTAGAATAATGGCCAAGTATTATACTCGGATGACAATGAAAAGGATGGTACAGCTTCTGGATCTATCTGTT
GATGAGTCCGAAGCCTTTCTCTCAAATCTAGTAGTTAACAAGACCATATTTGCTAAAGTAGACAGATTAGCAGGA
ATTAACAACCTCCAGAGACCCAAGGATCCAAATAATTTATGA

5081/5332
FIGURE 4406

ATGGAGTTGATGCGTTGGTCCACACTTGTGGAGGACTATGGAATGGAATTAAGAAAAGGTTCCGTTGGCAGTCCT
GCAACTGATGCTTTTGGTTCTACAGAGGAAGGCGAAAAAAGGTGGAAAGATTGAATAACAGAGTTGTTGAACAT
AATATTAGAATAATGGCCAAGTATTATACTCGGATGACAATGAAAAGGATGGTACAGCTTCTGGATCTATCTGTT
GATGAGTCCGAAGCCTTTCTCTCAAATCTAGTAGTTAACAAGACCATATTTGCTAAAGTAGACAGATTAGCAGGA
ATTAACAACCTCCAGAGACCCAAGGATCAAATAATTTATGA

5082/5332
FIGURE 4407

GTCCCTCACACCGAGAGTTCTGCGCGTGGGGAGTTGGAGAGTTTTCGCTGGCGGGAACGCGGCGGCAGTGAGAGC
GAGCGGCGCGGCCCTTTCGCTCCGGTGC GGCGATCTGACCCCGGCGTTTCGACCTCAGCCAGGATCCGGACTTCC
TGA CTATCGCCATCCGCGTGCCCTACGCCCGGGTCTCCGAGTTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGT
TCTACGCCAAGCCATACTTTCTCAGATTAAACCTTCCTGGAAGAATTGTAGAAAATGGAAGTGAGCAAGGGTCCT
ATGATGCAGATAAAGGAATTTTTTACCATTTCGCTGCCCAAAGAAACCCCTGGCCAGCATTTTGAGGGGCTGAACA
TGTTAACTGCTCTTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGGAAGAAATAGGTGCTTCTGAGA
TTCTTGAGGAAGTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCTGTGAAGAGGTATCAGAAA
GTGCTTTGAATCCGCAGTGCCACTATGGATTGGGAACTTACGATCAGGAGTGTGCAACGGTTACAGGATGAAC
TGAGTGATGTTATTGATATTAAGGATCCAGATTTCAACCCCTGCAGCTGAACGAAGACAGAAGCGCCTGGCCGCTG
AGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGACTTTTTTGAAGATGAGGCGATTGAACAGATTTTGAAGT
ATAATCCTTGGTGGACTGACAAATATTCAAAAATGATGGCCTTTTTTGGAAAAGAGTCAGGAACAAGAAAATCATG
CTACATTAGTGCTTTTTTCTGAAGAAGAGAAGTATCAGCTACGAAAATTTGTCAATAAATCTTATCTGCTGGACA
AGAGAGCCTGTCTGTCAGTGTGCTACAGTTTGATTGATATCCTTCTGGCATATTGCTATGAAACCCGTGTCACTG
AAGGAGAGAAGAATGTTGAATCTGCATGGAATATCAGGAACTGAGTCCAACACTATGCTGGTTTTGAGACTTGGA
CTAACGTTTATGATATCATGGTGTCTTTTTGGAAGAAGGGTGTGTGTTACCCACTCTATCGCCATTTCAAGCTGG
TGATGAAGGCCTACAGGGACACTATAAAGATATTGCAACTGGGTAAGAGTGCAGTTTTAAAGTGTCTCTGGATA
TTCACAAAATTTTTTCAAGAAAATGACCCAGCGTACATACTGAATGATCTCTACATCTCAGACTACTGTGTGGA
TTCAGAAAGTCAAATCCAAAAGTTGGCAGCTCTGCAGAAGCCTTAAAGGAAGTCTCCCTTACAAAGGCCAGC
TGGGGTTAGAACTGGAAGAACTAGAAGCAGCAGCACTGCTTGTCCAGGAGGAAGAACTGCATTAAAAGCAGCCC
ATTCAGTTTTCTGGGCAGCAGACACTTTGCTCCAGCTCTGAGGCAAGTGATTTCGGAGGACTCAGACAGCAGCGTGT
CATCTGGAACGAAGACTCAGGCTCAGATTCAGAACAAGATGAACTCAAAGATAGTCCATCTGAGACAGTCAGTT
CTTTGCAAGGTCCCTTTCTTGAAGAAAGCAGTGCCTTTCTTATTGTTGATGGTGGAGTACGCAGAAACACAGCCA
TCCAGGAGTCTGATGCCAGTCAGGGAAGCCACTTGCCCTCTTCTGGCCTCTTGGAGTGTCTGGGCCCTCTGATAG
AGGAGCTTGGGGAACA ACTGAAGACTACAGTTCAGGTTTCTGAACCCAAGGGCACCCTGCTGTAAACCGCAGCA
ATATTCAGGAGAGAGACGGCTGTCAGACACCAAATAATTGACTCTTAGGTGGTTTTATTTCATTGTTGAGAAATAT
GGTAGATTGGGTTTCATTTACCGAATGAGAATCTTCAATTTTCACTTTGTAATTTTCTTAGTATATAGTCAGCC
CACTGTATTTGTGTGTTCCACATCTGTGGATTCAACCAACTGCAGATCAAAAATATTGAAGAAAAAATCGCATCT
GTACCAAACATGTACAGACTTTTTTCTTGTATTATTCTCTAAATAATACAGTATGACAACTATTTCCACAGCAT
TTACATTGTATTGGGTAATATAAGTAATCTAGTGATGATTTAACTGTGCAGGAGGATGTGGGTAGGTTATATGC
AAATACTGCACCATTTTTTATCAGGGGCTTGAGCATCTGAGGATTTTAGTATCCTCAGGAGTCTTGAACCAACC
CCCCACAGATACGGGGACAACCTTTATGACATTGTTTTTCAACCAATGAATGTTTATACCTTTTGTTCCTTGCC
GCGACTGTGAAGATAAAGTTCAAAGTATTTTTACCAAAGTGTAGCTAATATTTCAAGCTGAAAAATAAGTTCT
ACTGCCCCTGTCTCCAGAATGTAGAGCCCATCAATATTTTTATTTTAGGAGGTGACTTGACACCCAATAAAGT
CACGTATCAAAGTGTACAATGTGTTGGCGTATGTATACCCTGCGTAAACTATCACCACAAGTGAAGTGAGGAA
CGGACCCATCATTCCAAGTGCCCTTGTGCCCCTGTTATTAGTTTGCATGTCCTAGAAATCTATGTAAATTGAATC
ATACAATATGTATCCCTTTTTTGGTCAGGCATATTTACTCAGTATAGTTATTTTGAGATTCAATCATGTGGTAG
CATGTGTACAGAGTTTTTGTGTTTTTATTGTTCTGCTGAGTACTGCTTCATTGAATAGATTGTTTCATTGACC
TATCGATGGACACCTGGGTTGTTT

5083/5332
FIGURE 4408

GTGGCACTCACCCGGCTCGCGCGGCCCGGCGCCCCACGCGCGCGCTCGTTCTCCGCCCCGCTCGCTCCCCGGC
GCTCACACCTGAGCTCACTCGCGCACGCCCGCCCGGCCCCGAGAACCGCGCGCCGCTCGGCCCGCGGAAGCCC
CGCCGCGCCATGTCTTCGCCTCCCGAAGGGAACTAGAGACTAAAGCTGGACACCCGCCCGCGTGAAAGCTGGT
GGAATGCGAATTGTGCAGAAACACCCACATACAGGAGACACCAAGAAGAGAAAGACAAGGATGAÇCAGGAATGG
GAAAGCCCCAGTCCACCTAAACCCACTGTGTTCATCTCTGGGGTCATCGCCCGGGGTGACAAAGATTCCCCCG
GCGGCTGCGCAGGTGGCTCACCAGAAGCCGATGCCTCCATGGACAAGCATCCTTCCCCAAGAACCAGCACATC
CAGCAGCCACGCAAGTGAGCCTGGAGTCCACCAGCCTGCCCCATGGCCCCGGCTCTGCTGCACCTTGGTATTTC
TGACAGAGAGAACCAGCAGTTTTGCCCCAAATCCTACTCTGCTGGGAAATCTAAGGCAAAACCAAGTCTGTGCC
TTTGCCTTACATTTCCATATTTAAACTAGAAAACAGCTCCAGCCCAAACCTTGTTTATGGGGAGTCTGGTTGGAT
GTCATTTGAGGATCATTGTGCCCTAGAGGTGCCATTAGCAGAATTTGCCAAGATCCGAGAAAAATTTAGCTTT
AGTTCTATTTACAGCAGTCACCTGACGTCTTGTCTATGGTCTTAAAAACAAGAAGGCACACATTTGAGAAGATGA
GATTAAGGTTAGGAGAAAACCTCAGTCATTGCATGCTTTTTAGTATGGGCCAATAAAATCTCAACACCTGTGGGA
GAGTAAGAACTAAGGGAATGAGTTTGGGCGGCCCTCATAAAGGACCTTAGAGGCAGGGAACAGCAATGCCAAAT
TTCCCTCTCTCGTGAGATGGGGATCCTGTGCAGGCTGATGAGGCACCCATGAGAAAAGCCGAAAAAGCATGCAT
CTTAGAAATAGCCCCCAATTCCAGGAGTCAACATGCCAAAGAATGAGGCTGGAGACAGGTAGCTCCGAGGGAGG
ACTTCTGGCATGAGATCTCGGCACGGCAAGCCAGCATCGCTCAGCCAGACAGGCTCCACCAGGAGATCAAGC
AAGGGCTGCCTTTTCAGGAGTCACCTCCTGAGCCACTTCAGAGTTCTGGAAGTGACCACGGACCAGGGTGGAGGAA
TAGACTTCTAGTTTCACTTGGGACACTTGAGCCAGAGAGTTGAAAGCTTGGAAGACCAGATAAGAAACCTGCCC
TTTGTCTCCCTAGGGACATGAGACACCACATTCCATTTGTGCTAGAAAAACCTATCCACTGATGAGTCTAACTGT
TCCAAACGCCTCCACCTGGTGTGCACAGCTGCCTGGGTCCATTGTCACTTGGGTGCATCAGGTTGTCTCCGAT
TTTTAGATGAGTTTCTGTCTAGAGATGTCCTAGTCTGCTCACTGGCTGGTGGCAGTAGGGTACCCTGCGTCTC
GAAAGCCAGAGGGTTCACCTAGTCAGACGAAACTCCAGAACAGTGCTTGTGGAGGGCCTGACTGTCTGCTCAC
CCACAGCCGATCTGCTGCAGGTGAGCAACTGTGTGCTGAGCAGCTGCCAACCACCAGCCTTTCTGGTGTCTTCT
CCAGTTACGCTCTGCCAGCTGGTGAGGGCAGAGGCAGACCTGGTCAGACCCAGCGCCCCCTCCTCCCTGAGGGAGC
ATGGCACAGCCTCACACTTGAAAGACGGTGTGTTGGTTTCCCATCTAATCAACTTAAGGGAAGCCGGCATGTACCC
TTCAAGGCCCTGTCAÇCACCTATTTCTGATCAGTTGGTATAAACTGAGGGTGGCTTTTAGAGACCCAGACTTGG
TTGGCAGCGCTGCCATGGAACACCCAGCAAGCACCTCCAGCCTGCCTTTCGGAGCAGACCCAGGAGGGGATG
CCGCGCTCCAGCAACACCAGGTCAGGCCTGTGCAGACCCCTGCCCTGCCGCTGCAGAAATCCAGAAGCATCCTTA
ATGCTTCTCAGTCTTCAGCCAGAGGGAGGGCTGTTATTTCCAGAGGTGCGCTTTTATGTACTTTTAGCTAGATG
TGGCATGCATCTGTGAGCTTTAGATCATTAAATCCAAAATGTTTGCCTAAATGAG

5084/5332
FIGURE 4409

ATGTTGGCCAAACTGGTGTCCATCACTACGGTGGCAATAATATTGAACTGGGCACAGCATGCGGAAAATATTAC
AGAGTGGGCACACCGGCTATCATTGATCTAGCTTCCGCCTTATTCACCCCTGATGGGAGGCAGAGGTGGAGCCAG
GAGAGCTCTGCTCATGACTGTGCTCCAGGAGGCTCCACCTCCGTGTGCACCCAGAAGGCCACAGGAGAGATGTT
GTAGCCTGCAAAGCACTACTGCCTGCACGACTGCACGGCCGGCTCCACAGGCTCCTCGGAAACGACAGCAGGAGC
AAAGATGAGGGCTACAGTGCCAGGGGGCTGGCCATTGCCAAGCCTCCCCACGTGGCCTTCCAGAAGACAGTACC
ATCACTGACCTCACTGTCATTGGCCCCATTGCGCCGGCAGCTCTGGACACCAGATGGGCCTGGCGTGGAGCCTCAT
TGCTGGTGGTTAAGCAGTTTAGCTCACTTCTTACCTCAGCATCTTTGA

5085/5332
FIGURE 4410

GCAGTGGCAGCATCCTGGTTCACTGCACCCCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAG
TAGCTGGTACTACAGGTGCGTGCCACCACACCTGGCTTATTTTAGTTATTTTAGTAGAGATAGGGTTTCACCATG
TTGGCCAGGCTGGTCTCGGAACCTCTGACTGCAGGTGATCCGTCCTCCTTGGGCTCCCAAAGTGCTGGGATTATA
GGTGTGAGCCCCACGCCTGGCCAACCTTGATTATATTAATTTTGGGTTTTTTGTTTTGTTTTGTTTTGTTTTTA
ATTTTTCAAAGAATTTGTGGATCTTGGTATAAAGTCATTGGAACATATCTGTTTAAACAGCAAGAGATCCTAGGC
AGATACTTCAAAAGGTTAAAAATTCCTAATCCTACAGAATTTTAAATGAATCTTATCAATGTTTTGTAAACAAAC
AATATGAATGGCCAAAAAATTGCCCTCCATTTTACTGGCAGGTAATTTATATTGTCTTACTTAAGAATTCCTCCC
TAGTTTTTCAATTGTACTTTATCGTGTGTTTTCAATGAGATAAGTATTTTCATAGGGAAAGCATTTCAGCAT
AATATTTGCTTGGGTAGCATCCGGGTTTTAGTATTTAACCAAGAGCCTTTTAAATATTGAAAACCCATAGTTTACG
AAAATGTTAGTATTGCTGCCCTTCTTCACATAAAATTTTTTTTTTAAATTATACTATTATTTTGCTTAATTTTATAT
TGGGTAAAACAACCTTCAAGAAGGTTAACTAGGAAAGAAGACCTTTTTGTTTTATTTTTACTATTTATATATAG
AAGACAAATCAGCATTTGGTGATAGTTTTACATGACCAGTTATCAAACGGTCATAGTATGAAGTGTGCAGTTGTT
CATTATTAGTAAATTATGTTTGATTTTTTAACTATTTAGTACTAATAGTTGAGATGAAAACGAAGAAAAATGCC
AATGTGACGTTTGTGTATAGCTAGCCTTAAAAAACTTCCCATGTTTTTAGGTGACTTTTTTCCCCCTCTTAGTAC
TCTGGAGAAACAATGAAGATGGGCCATCTCAATTCAGATGTAAACAAAAAGTAATTTTTATTTCACATTTAAT
GTAAGTCTATTATTGTGGATTCTTGTCTTGTGTATTTCTTTCCCTTATTCAAGTAATATAGAATAACTTTCCCT
TAAATGATTTGATCCAAGATACGTCAATTTCTGTATTGGCAAAATGCCACTATTAAAGTGAATTCCTGAATTTA
GGTTGAATTGATGACTTTTTTAAACAAAACAAACACTGGACAGTTCTACATTGTATTGCGTTTGCGAATGCGGT
GAACACACGCACACGTGCAGGAGAATGTAGTGCCATAAGAACACTGGCGCTTTTTTAAACCTTTCCAAGCTAGCTA
CTTATTTTCATTTTCAGGGTTGAGTACTCTAAGCTCTCTACTTACTGTGAGAAGTTTTCTACATTGTAAATTTAA
AAGATTATATTTAAATACTTCTTTAGGATGTTATTTCAGCCATCAAAAAAAACCCAACATAAATGTCTTACCAG
TAAAGTATTATTTAAAGCCTCATTTGTGGAGATTGCTGACTTCTCCTTGGTTAAGCTGTCTTGTATTTACTTAATT
TGTCCCTCAACCAGGTGTTTTCTTTTCAGCCTGTTACTGTCTGTGCCATTTTTTAAAAATAGCCATCATGAGTA
AGGGCTTCTTTAAATAATCCCTGACAATATCTTTGGCATTAAATACGACATAAAGACAAGACAGTATATGTATGT
TTTCATTCTGTTTTGTACGAGTGCCTCATTTTGTAGTCATGAAAGTAACATAGTACCTTAAATAAAAAATGTAAT
GACTAATCTAAGGTCTAGGAATAACTATTGTAGAAGCTAAGTAGAACACTTAGTTTGGGGTGTCAATTTTCTATC
AACGCAAAACACCTTAGGGTACCCAGACCAATTTTATGTATATATATTCTGAAATGCTCCCTTTTTAATGTGGTCA
TTTGTGCTTCTAAGTTGAGAGGACAAAACCTGAATAAAGTGAATGTTAATTGT

5086/5332
FIGURE 4411A

AGACATATGTAGAGTGTGTCTGGTCAGAAGGAACACCTGAGAAACCGCTTTATCATCCTTGTTGATGTACTGGCAG
TATTAAGTTTATCCATCAAGAATGCTTAGTTCAATGGCTGAAACACAGTCGAAAAGAATACTGTGAATTATGCAA
GCACAGATTTGCTTTTACACCAATTTATTCTCCAGATATGCTTCACGGCTTCCAATTCAAGACATATTTGCTGG
ACTGGTTACAAGTATTGGCACTGCAATACGATATTGGTTTCATTATACACTTGTGGCCTTTGCATGGTTGGGAGT
TGTTCTCTTACAGCATGCCGCATCTACAAGTGCTTGTACTGGCTCCGTGAGCTCACTACTGACGCTGCCATT
AGATATGCTGTCAACGGAAAATTTGTTGGCAGATTGTTTGCAGGGTTGTTTTGTGGTGACGTGCACACTGTGTGC
ATTATCAGCCTGGTGTGGTTGAGAGAGCAGATAGTCCATGGGGGAGCAGCAATTTGGTTGGAGCATGCTGCCCC
ACCGTTCAATGCTGCGGGGCATCACAAAATGAGGCTCCAGCAGGAGGAAATGGTGAGAAAATGTTGCTGCTGA
TCAGCCTGCTAACCCACCAGCTGAGAACGCAGTGGTGGGGGAAAACCTGATGCCAGGATGACCAGGCAGAAGA
GGAGGAGGAGGACAATGAGGAGGAAGATGACGCTGGTGTGGAGGATGCGGCAGATGCTAATAACGGAGCCCAGGA
TGACATGAATTGGAATGCTTTAGAATGGGACCGAGCTGCTGAAGAGCTTACATGGGAAAAGAATGCTAGGACTTGA
TGGATCACTAGTTTTTCTGGAACATGTCTTCTGGGTGGTATCTTTAAATACACTGTTTCTTCTGTTTTTGCATT
TTGCCCTTACCATATTGGTCATTTCTCCCTTGTGGTTTGGGATTTGAAGAACACGTCCAAGCATCTCATTTTGA
AGGCCAATCACAACCATAGTTGGGTATATACTTTTAGCAATAACACTGATAATTTGTCATGGCTTGGCAACTCT
TGTGAAATTTCATAGATCTCGTCGCTTACTGGGAGTCTGCTATATTGTTGTTAAGGTCTCTTTGTTAGTGGTGGT
AGAAATTGGAGTATTCCCTCTCATTGTGGTTGGTGGCTGGATATCTGTTCTTGGAAATGTTTGATGCTACTCT
GAAAGATCGAGAACTGAGCTTTTCACTCGGCTCCAGGTACTACCATGTTTCTGCATTGGCTAGTGGGAATGGTATA
TGCTTCTACTTTGCCTCCTTCACTTCTACTACTGAGAGAGGTACTTCGACCTGGTGTCTGTGGTTTCTAAGGAA
TTTGAATGATCCAGATTTCAATCCAGTACAGGAAATGATCCATTTGCCAATATATAGGCATCTCCGAAGATTTAT
TTTGTGAGTATTGTCTTTGGCTCCATTGTCTCTGATGCTTTGGCTTCTTATACGTATAATTAAGAGTGTGCT
GCCTAATTTTCTTCCATACAATGTCTGCTTACAGTGTGCTCCAGTGAAGTGAAGTGTCTCTGAGCTGCTTCT
GCTTCAGGTTGTCTTGGCAGCATTACTCGAACAGGGACACACGAGGCAGTGGCTGAAGGGGCTGGTGGCAGCGTG
GACTGTGACCGCCGGATACTTGTGGATCTTCACTTCTTATTTATTGGGAGACCAGGAAGAAAATGAAAACAGTGC
AAATCAACAAGTTAAACAATAATCAGCATGCTCGAAATAACAACGCTATTCTGTGGTGGGAGAAGGCCTTCATGC
AGCCCACCAAGCCATACTCCAGCAGGGAGGGCCTGTGGCTTTCAGCCTTACCGCCGACCTTAAATTTTCCACT
CAGGATATTTCTGTTGATTGTCTTCACTGTGTATAACATTACTGATTGCCAGCCTCATCTGCCTTACTTTACCAGT
ATTTGCTGGCCGTTGGTTAATGTCTGTTTTGGACGGGACTGCCATAAGGGCTGTGACGGTGATGGTGGCATGGAT
GCCTCAGGGACGCAGAGTGATCTTCCAGAAGGTTAAAGAGTGGTCTCTCATGATCATGAAGACTTTGATAGTTGC
GGTGTGTTGGCTGGAGTTGTCCCTCTCCTTCTGGGGCTCCTGTTTGGAGCTGGTCAATTGTGGCTCCCCCTGAGGGT/
TCCCTTGGATCAGACTCCTCTTTTTATCCATGGCAGGACTGGGCACCTGGAGTCTGATGCCAAAATCATTGC
AGCTATAACATTGATGGGTCTCAGTGGTGGTTGAAAACCTGTAATTGAACAGGTTTACGCCAAATGGCATCCGGAA
CATTGACCTTCACTATATTGTTTCGTAAACTGGCAGCTCCCGTGATCTCTGTGCTGTTGCTTTCCCTGTGTGTACC
TTATGTCATAGCTTCTGGTGTGTTCTCTTTACTAGGTGTTACTGCGGAAATGCAAACTTAGTCCATCGGCGGAT
TTATCCATTTTTTACTGATGGTCTGTGGTATTGATGGCAATTTTGTCTTCCAAGTCCGCCAGTTTAAAGCGCCTTTA
TGAACATATTAATAATGACAAGTACCTTGTGGGTCAACGACTCGTGAACACGAACTGACCTTCCCTTTTACATG
CTCATCTCCACCACCTCCACAGTCATCCCAAGAAATAAGTAGTGTCTCAACAACCTTGACCTTCCCTTTTACATG
TCCTTTTTTGTGGACTTCTCTCTTTGGAGATTTTCCCAGTGATCTCTCAGCGTTGTTTTTAAGTTAAATGTATT
TGACTTGTGTTCTCAGCATTACAGAGAGCAGCGGTGAAGATTCTGCTGTTCTCCCTGGATCTTCTGACATTACTG
CTGCTGAGATTTGTATATGTGTAAATACAAGTTCTTGATACCCTAAAACCTTGGATTAAACAGAATGTGCATT
GTACATCTTTAAACAAAATGTATATTAATTTATTAATCTAGTTGTCACTTTATTTTGGACCTGCTGTGATCTCG
ACAGGAAACGTGCCACAGAGCAGTAGTGCGCAGGCAAGACTTTTCAGTGACGCCTTGTGGAACGCAGTTCATGAT
GTCCTAGCAGCTCTCACTAAGGGAACGTGACATTCTTCTTCTTGGCTATTACAGACCTTACCAAGAAGCTTAAA
GGAACAAGTAGAAATCAGCAGTGGAGTGTCTGTGGTAAGAAAACATGAACCTTATGCTTCACTGTAGTTGTTT
GTGGAAGTTATTTGTATAACACCAAAGCTGTTGTACATTTCTTACTGCCTGATTTTTTTCATGTGTCTGTGTTT
GTAATATTGTATAGTATCTTGTGCTAGGTGAGGAAATATTTTAAATTTTGATAATTTAATATTCCTAGTGTGAT
CAGCATTGGGAGTTGGGTTTCACTGGGGCATGTCTATACTTAGAGAAAAAAGTCCAAATGAAGATTTTCATGAG
TCAGCCCCCCCCGCCCCCCCCACCCACACCCACATCTCTCTTTTCCACACACAATCTGTGTTATTTTTTGT
AGCAGTGGCCGAAAGTCTGCAAGGTCATAAATCTTTCAGAGTGACATCACCAACTGTACTGCATCTTACTGGAT

5087/5332
FIGURE 4411B

TTAGGACTTCTGAGATGCTTGTGAAGTATAGATGTGGTTGTGGTCTTAGATTGACAGCATTAGAGAAGACTGGTT
AGAACATCTGGTCTCGCTGGTTAGTGCCTCGTTGGCTGAGGACTAGGTGTGCATTTCTCCTAGCTTTTCATCAGG
AAATCCCAAAGTTTCCAAAGCTTTTTGTTTACAGAATAAACTTCAAATAAAACCAATTCATTATTTGTCCAGAA
GGAAGCTTGGCTGAGCTGGCCTTTTAACATAGGAATGTATTTTCGTTGGAAACATTCTGAAAAATCTCAGAGA
GAACCCCTTACAACTTTGTTTTCCCTCATAACCAAAGCTTCAGGTTAGAAGTTTAGAAAAATAGAATGGTTGGGT
ACATGATCTAAATGTTTAAATGCTAAAGGTATATCGTAAGGGTAGTGTTTGTGTTTTGAACGATAATTTAGAAGTTC
TCATAGAAAGCGTATAACATAGGTCTTCAGAACTATAAAAGAATTTTCATATAGTATTAAAAATCCATAGACTAA
AATCTGAGAATTTTTTAACATATGCAAGTCAGCCAAACATAAGCTACCAAATAAAGAGCAATGTGTTCTGGCTG
TTTTATACTTCAACAATTTTTTCCCTAAGTGGTAAGCAATTACTTTAAACATATTTTTAAAAACATCGGTATCG
GGAGCTGCGGTGGCTCCGGCCGTTGTCTGGCACACAAGGAGGCGAGGCTATGCGTTCGAGGCCAACCTAGGCA
AAATTGG

5088/5332
FIGURE 4412A

TAGACTACATGAGGAAATAATTGACTTTTATAACTTCATGTCCTTGTCTGAAGAAGCAGCTATGAGAAGAGA
GGTGGTGAAACGGATCGAACTGTGGTGAAAGACCTTTGGCCGACGGCTGATGTACAGATATTTGGCAGCTTTAG
TACAGGTCTTTATCTTCCAACCTAGCGACATAGACCTGGTGGTCTTCGGGAAATGGGAGCGTCTCTTTACAGCT
GCTGGAGCAAGCCCTGCGGAAGCACAACTGGCTGAGCCGTGTTCCATCAAAGTCCTTGACAAGGCTACGGTACC
AATAATAAAGCTCACAGATCAGGAGACTGAAGTGAAAGTTGACATCAGCTTTAACATGGAGACGGGCGTCCGGGC
AGCGGAGTTTCATCAAGAATTACATGAAGAAATATTCATTGCTGCTTACTTGATTTTAGTATTGAAACAGTTCCT
TCGCGAGAGGGACCTGAATGAAGTTTTTACAGGTGGAATTAGCTCATAAGCCTAATTTTAAATGGCCATTAGCTT
TCTACAGTTGCATCCAAGAATTGATGCCCGGAGAGCTGATGAAAACCTTGGAATGCTTCTTGTAGAATTTTTTGA
ACTCTATGGGAGAAATTTTAAATTACTTGAAAACCGGTATTAGAATCAAAGAAGGAGGTGCCTATATCGCCAAAGA
GGAGATCATGAAAGCCATGACCAGCGGGTACAGACCGTCGATGCTGTGCATTGAGGACCCCTGCTGCCAGGGAA
TGACGTTGGCCGGAGCTCCTATGGCGCCATGCAGGTGAAGCAGGTCTTCGATTATGCCTACATAGTGTACAGCCA
TGCCGTGTACCCGCTGGCCAGGTCTTATCCAAACAGAGACGCCGAAAGTACTTTAGGAAGAATCATCAAAGTAAC
TCAGGAGGTGATTGACTACCGGAGGTGGATCAAAGAGAAGTGGGGCAGCAAAGCCCACCCGTCGCCAGGCATGGA
CAGCAGGATCAAGATCAAAGAGCGAATAGCCACATGCAATGGGGAGCAGACGCAGAACCCGAGAGCCCGAGTCTCC
CTATGGCCAGCGCTTGACTTTGTCTGCTGTCCAGCCCCAGCTCCTGTCTTCAGGCTCCTCGGCCCTCTTCTGTGTC
TTCACTTTCTGGGAGTGACGTTGATTACAGACACACCGCCCTGCACAACGCCAGTGTTTACCAGTTCAGTCTGCA
AGCGCCAGCTCCTCTCATGGCCGGCTTACCCACCGCCTTGCCAATGCCAGTGCGCAAACCTCAGCCCACCACTTC
CAGAACACTGATCATGACAACCAACAATCAGACCAGGTTTACTATACCTCCACCGACCCTAGGGGTGCTCCTGT
TCCTTGACAGACAAGCTGGTGTAGAAGGAAGTGCCTTTTGAAGCCGTCCACCACATGTCTTCCCCGGCCATTCC
CTCAGCGTCCCCAACCCGCTCTCGAGCCCTCATCTGTATCATAAGCAGCACACCGGCATGAAACTGTCCATGAA
GGGCTCTCACGGCCACACCCAAGGCGGCGGCTACAGCTCTGTGGGTAGCGGAGGTGTGCGGCCCTGTGGGCAA
CAGGGGACACCACAGTATAACCGCACCGGCTGGAGGAGGAAAAACACACACACACAGGGACAGTCTGCCCGT
GAGCCTCAGCAGATTAATGGCTCCTGGCTGCGTCAGCCTCCCCACCCCTCTGCAGACTGCCCCGCGGCTCGGCC
ACCGGCAGGGGAACCGAGACCAGCACCCCGCACGTGAGCCGGGCTCGCGGCACGCCCGCGCTGATCACTCTGCA
TGTTTCTTCGTGTGGTGGTTCGCTCCATCTTCAAGAACAGCTCGTTGTGCTCATCTGTGAAGCCTTATTAAACGT
GGACGTTGTTTTCTGCCTTCCAGGATTCCTTCCTCAGTGCTGAGGCAGGTGGGGCTCAGGAAGTGCAGGGACGT
GAACATGCGCTTGCAGTTTGGAGTAGCCGTGCTGTTCTTCGCGGTTTGCTATTTTCACTTCTGTTCTGCAAA
GCAGCAGAGGAGATCAAACCCGTTGCTGTGCTTTCTCCATGGATAAGCTTGGGAGGTGATTGTTTTACTGCC
CTCACATTTTGTGTTGAAATTTTCAAGTGTGTTTTCTATGTAAATATTGAAACTTATGATTTGTGCAATAACTCA
GATATTTTTTATTTAATTTCTATTTTACATAAGTTATATTTAAGGGAGGAGGGAATTTTTTTAAACAAGCTT
AGGTCCTTTTCCGAGCTGCATTTTCTAAGTTGGGTGATCGTGTGCGCTGGTTGTCTGACGAGCATCGTTACAAAC
ACCATGATGAGGGGTTTGGGGTTTATTTTGTATGCTTTTTCTTTTGGTTCGGAAGTGAGTGAAGGAGCCAGGTGCG
CCTGAAGGTTTTTCAAAGGGCTTGGCTCCAGAGCCACCTGGCAGACTGCCCGTGGCCCTGCTGTGCGGCCCCAGG
CCGTTGTCTGCTCTGACCACAGATTTTAAATGTTTTGGTTTTTCACTTCTTTTAAACTGGACAACAAATCCAGCA
TTTCAAGTGCCAGAAGTATAACTTTCTAAGGAGAGAAGGGTTGTACATTATAAAATCTTTAGGAAAATGTGAAC
TGGAAAACGCTTCGGTCAGTTTTAGTGACATAGCCTGTGATGATGGGTCTGGTGACTATTATTGCGGACCGTGGT
ACCCAGTTTTAGGAATGTGGAGAAAGGAATTTCTGTTGATTCCGTTGAGGAATCTGTAGCGTATGCATTGTTCTG
TTAAGAGCAAATCTAGGAGAAGTGCTTCAGCTGCCAGTGCGCCGTGGGGAGTGTTTTAACGGATCGTGTGCGAG
GAGAGCACAGCCAGCGTTGGGGCCGGGACCGCTGGCGCCCGACGTCGGAAGCATACAGGTATACTATGCAAGTG
TATTCTGCCACAACAACCACTGTCTTTGTTACCTTTTTTTGAACAAGAATATATCCATCCTGCCTAACCCCTGAGT
TTTTGGAGCACCACAGTTGTCTGGGAGTTGGTTGCATCTTGTAGGCCATCTGACTTCTGTTTTTAAACGGGG
GTCTGGTCTTGCTAAACACTACAGGTAGGTTGGTCTTTGAAGTCCACTAGTGGAGAATGTCAAGACAAGATACTT
ATTACCATGACATCTGATGCATGTGCAGCAGTGGGGAGTTCTAGATTGATCTCTGAATGTGATCGACGCCAGCA
AGGACAAGCTTTAAATGTCTGCGGTCTGCCCTTTTGAAGCAGGACTGGCTCACTCTGTCTATTGGGAGCTGTGAG
CTGCGACTGCAGGTTCTCTAGGAGGCATTCCAGAATAGAGTAGCACACTGTGTCTGCAGTTCTCGATGACCGAAA
GTTATCAAAAATATTTAAATATTTAAATTTGTGAACCTATTGATAAAGAATATTTATAAAAACCTGATCTGTAGGC
CTGTACTAATCTCTACGCATTAGCAATATTGACTGTAAACCCACATTAAGGAAACCACTACGGGTCTGGCAGTGC
GTGTCCCGTGGGGTGTGCATTTTAAACTCGATTATAGACACAGGTACCATGTTCCATTTCCGTCTATGGTGAAG

5089/5332
FIGURE 4412B

CAAATGAATTGGCCTGGCTACCACTGTGGTCGCGTGCTACAGGTTTGACAAAAAGATATCATGTTTCGATTTTTT
TGTGTGTGGACAACAATATGGAAGCTAAAATTGACATATTTTATGTAAAGTTTTTCTATTCTTTGATTTTAAAT
AAACTTTGGAAACC

5090/5332
FIGURE 4413

CTCTCCCTGCACCTTTCTTTATCTTGGAGCCTCTCCCATCTCTCCCTCCCTCTTCCCTCCCTACCCACCCTCCGA
CCACCCCACTTCTTCCCCTCCCCTCACACTTCCCTCCCTCCCTTCTCTCGTCTCTCTCCCACTGCGCCTCCCTCC
CTCCTGGCCTTCCCTTCCCCTCCCCGACTTTGCAGATTTCTCTTCCCCCAGGCCTCCCTCCTCCACCTCTCCGCCC
CCTCCGGGCTTGGCTCTCCCAGGAGGCTACGACTGGAGCCACTGGTCCCGCAGGATCCCCGCGTCTCGGTGCGC
GCGTCCACGTCCCTCTCGCTCCCCGCGCGCCACGCCGCTCTCTGGGTTCGGCCTCCGCGCGGTGCAGCG
CAGTCTCAGGCCGCGGGACAAGCCCGACTTAAATCTCTGCAATGGCTAACGAAGCTTATCCTTGTCCGTGTGACA
TTGGCCACAGACTTGAGTATGGAGGGCTAGGCCGTGAAGTTCAAGTCGAGCACATCAAGGCTTATGTCACCAAAT
CCCCCGTTGATGCAGGCAAAGCTGTGATTGTCAATTCAAGATATATTTGGCTGGCAGTTGCCCAATACCAGATATA
TAGCTGACATGATCTCAGGAAATGGATACACAACCATTGTTCCAGACTTCTTTGTAGGGCAAGAGCCTTGGGACC
CCTCTGGCGACTGGTCTATCTTCCCTGAGTGGCTGAAAACAAGAAATGCCCAGAAGATCGATAGAGAGATCAGTG
CTATCTTGAAGTATCTGAAACAACAGTGTGATGCCCAGAAAATTGGCATCGTGGGATTCTGCTGGGGTGGAACTG
CTGTCCATCATTTGATGATGAAATACTCAGAATTAGGGCAGGGGTGTCCGTCTATGGCATTGTCAAGGATTCTG
AAGACATTTACAATTTAAAGAACCCCACTTTGTTCAATTTTGTCTGAAAATGATGTGTGATTCCACTCAAGGACG
TATCTTTGCTGACTCAGAAGTTGAAAGAACACTGCAAAGTTGAATATCAAATTAACATTTTCTGGGCAGACTC
ATGGGTTCGTGCATCGGAAGAGAGAAGATTGCTCACCTGCAGACAAGCCCTACATTGACGAGGCCAGAAGGAATT
TAATTGAGTGGCTGAACAAGTACATGTAGCAAGAATCAAGGGCAAGCCTTCCTAGAATAGCTTTTCATCCCAAAT
TTGCTTGGAAATAGTTAGATCATTGATTTAATTTTCACTTTTATAAAATAAGTGTAGGAATCCTAAAATTGATT
ATTTCAATTTGAAACACAAATTCAGTAGGACGTAATGCATGAAATAATTTAATTTTGTACATGTACATCGAATCAT
AATTTAAAAACAAGGTCTGACCAGGTGTAGTGCCTCATGCCTGTAATTCAGCACTTTGGGAGGCCAAAGTGGGT
GGATCACCTGAGGTGAGGAGTTTGTAGACCAGCCTGGCCAACATGGTGAGACCCCATCTCTACAAAAAATACAAAA
ATTAGCCTGGTGTGGTGGTGCACGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCACAAGAATCAATAGAACCC
AGGAGGTGGAGACTGCAGTGAGCCAAGATTGTGCCACTACTGTACTCTAGCCTGGGCAGCAGAGTGAGACCCTGT
CTCAAAAATAAATAAGTAAATAAATAAATAAATAAATAAATAAACCAGGTGAGTACCTGGAGAATTTGAATGATAG
AGAATGATAGAGTAATACCCTAATTATTAGTTAAACCTACAGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCA
GCACTTTGGGAGGCCGAGGTGGGTGGATCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAC
CCCATCTCTACTAAAAATATAAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACTCAGGAGTCT
GAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGA
CAACAGAGGGGAGACTCTGTCTC

5091/5332
FIGURE 4414

AATAAAGAAATAGTGCTTTAAGTCAATGAATTCCCTCCTTGGGACCCACTATCGAGAACTATCAGTGGTAACGTT
TTAAAAAATGACAAATTCAATCTGCTCTTGACTTGTGTGTCTAAGATTTCCACTAAGTGTCTTCAAACCTCCCC
CTCCCCGGCTTCTTGATAATAGAAGTTCCCGAAGGCCCGGATTCCAGAAGATACTGTCTGGCGTGAAATTAGT
CTCAGTAGAAACATAAGTCCCGCGCGTCTTGTGCTGCGCGTGCGCAAGCTTTTGGGCCCTCCCGAGAAAGGGAAG
TGCATTCTCGCTTCCGTAGCGGTCTCCGCCGTTGGGGGGAAGTAATTCCGGTTGTTGCACCATGCGCTCCATGG
GGACCTCGCCTTCGATGAATATGGGCGCCCTTTCCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGG
GACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACTTGGACCAA
ATGGGCTTGATAAGATGATGGTGGATAAGGATGGAGATGTGACTGTAATAATGATGGGGCCACCATCTTAAGCA
TGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAATTGGAGATG
GAACCACAGGAGTGGTTGTCTGGCTGGTGCCCTTGTAGAAGAAGCGGAGCAATTGCTAGACCGAGGCATTACCC
CAATCA3AATAGCCGATGGCTATGAGCAGGCTGCTCGTGTGCTATTGAACACCTGGACAAGATCAGCGATAGCG
TCCTTGTGTACATAAAGGACACCGAACCCCTGATTGAGACAGCAAAAACACGCTGGGCTCCAAAGTGGTCAACA
GTTGTACCCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCACTGTAGCAGATATGGAGCGGAGAGACGTTG
ACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGGCGTGATTG
TGGACAAGGATTTCAAGTACCCACAGATGCCAAAAAAGTGGAAGATGCGAAGATTGCAATTCTCACATGTCCAT
TTGAACCACCCAAACCAA5AACAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCTTCAGAAAT
ACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAGAGACTGGTGCTAACCTAGCAATTTGTCAAGTGGG
GCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACCTTGCTGCGGTTGCTGGGTAGGAGGACCTGAAA
TTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAAGCTGGGCT
TTGCTGGTCTTGTACAGGAGATCTCATTGGGACAACATAAGGATAAAATGCTGGTCATCGAGCAGTGTAAGAACT
CCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCTTCACGATG
CTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTG
CCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCAC
TGGAGGTGATCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCA
GACAGGTGAAGGAGATGAACCTGCTCTTGGCATCGACTGTTTGACACAAGGGGACAAATGATATGAAGCAACAGC
ATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTGAAGA
TTGATGACATTGTAAGCCTGGAGAATCTGAAGAATGAGACATTGAGAAAACCTATGTAGCAAGATCCACTTCTG
TGATTAAGTAAATGGATGTCTCGTGATGCATCTACAGTTATTTATTGTTACATCCTTTTCCAGACACTGTAGATG
CTATAATAAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTACCATCTCA
ACTGCTTTTGTATTCAATTGATTAAAGAATCTGTTTAAACAACCTTTATCTTCTCTCGGGTTTAAGAAACGTT
TATTGTAACAGTAATTAATGCTGCCTTAATTG

5092/5332
FIGURE 4415

GTATACCCCTAGAAACACTTAAAGAAGAAAGTCAGTCAAGACATGTTCTACCTGCAAGTTTTGAAGTCAACAGTT
TGCAGAAAAGCAACTGGGGGTTCTTACTTACTGGGCTTGTGGGTGGCACCCCTGGTGGCTGTGTACGCTGTAGCC
ACGCCGTTTGTAAAGCCAGCCCTTCGAAAAGTCTGTTTGCCGTTTGTACCTGCAACTACGAAGCAGATTGAAAAT
GTTGTGAAAATGTTGCGATGCCGAAGAGGATCCCTTGTGGACATCGGTAGTGGGGACGGACGCATTGTTATTTTT
ATTGCATATTATTACTTGTTTACAAAACCATCCTCCCAGACACTTTTCAATTTCACTGCTGCTGTGCTAGCCCACTG
ATGGAGAGATGCAGTGGATTTTTCAGCAATGTTTTGTTTCGACCTCCCCGGGGGTTGGCTGACCTAGAATCAATTAT
GGAGGTGTTTCCAAGTGAACCTGAATGCTTATTCTGATACTTGAGGTCATAGCGGCTGCGAAGAAAAGGTTTCACAG
CAGTTGGTTATGAATTAAACCCATGGCTAGTTTGGTATTCCAGATACCGCGCTTGGCGAGAAGGTGTGCATGGAT
CTGCCAAATTTTATATTTTCAGATTTGTGGAAGGTTACTTTTTTCGAGTACTCGAACGTTGTTATTTTTCGGTGTGC
CTCAGATGATGCTGCAGTTGGAGAAGAACTTGAACGTGAACCTTGAGGATGATGCACGAGTTATTGCTTGCCGGT
TCCCTTTCCACATTGGACTCCAGACCACGTCACGGGGGAGGGGATAGACACAGTGTGGGCATATGATGCAAGCA
CTTTTAGAGGCCGTGAAAAGAGGCCCTGTACATCGATGCATTTCCAGCTGCCATTCAAGCATAAACTTGAAGTGG
GAGTGTTTTTCTGAAATATTGTAGTCTTCCCTGATCTTGTAGAGACTTACAGCTGFGTCCTTAGCAAAGGAGCAT
AATTGTCTTTGGTTTGAATGAGAAATTACTATTACTTTTCTTAACTGTTGGAGAAAACAAACGAAGAAAAACAG
GTAGATTTAAATCTGCTTTTGATGCTATTTTCTTAAAAATTGTACTTACTGCCTTTCCATGCACCTGGATGCAT
GAAAAGATGAATAAGTGATGGTCATGGTTATGGGTAGGAAAATAAGATGCCAATAGCTCTTCACATTATAAACA
TATGGCTTAATGCCTCGATAAGGAGAAATGATTTTTAAAGACAGTATATATTACCAACTGTTTGTAGTATCCTAT
AACTTTGTTCATACTTAAGTTGTATCTCTTCTTTTGTACTTCATGGCAAATTAATTTCTAAAGGATTTCAG
AGAGGCGTTTATATTTTATAACATTTATTAGAAATAATTTGTTCCACCACTAGATTACTGTATTTTATGGAATCT
AAGCTGTATATGTGTACATTTGTATACATGTATGTGTAATGTAAGCCTGACGTGGGTTTCAGATTCCAGTTTGT
CATCAGCAAGAGGCCCTCGGACCCATGACTTACTGCCTCTGAGCCTTGGCTTTCTGTGTATCTCTGCCACTGGGAT
AATGGTACACATAACAGTGGAGTGGGGACCAATTTCTAAACTCATGGCACCTAGTCTTTGGTCCATAAATGGTG
TTTGTATTTTGTAGACACTGAGAAAAATCTTATTCACAGAAGTTGCAGATTATTTCTGCTAGTCACTTTTTTATTT
CTTGAGAGCTGCCACTCATTTAATATTTCTCATTATGAGAAGAGACTTGACTGATTAGATAAAAGACGAATTA
AGGAAAACCTTTGAACGTGAGTAGACAAGCTTCATATATCTGTAAAGTGAATATTGAATGGTAGCTTGAGTCATT
CGTACTTATCACAGAAAAGAATTGAACTCCCAGTCATACACCTGTAAGTGAATACCAAACCTGTCTTAATGGAGA
TGTAATGAAGTAAGATGGTCACATCTTTAACTAACTTATAAAAATTG

5093/5332
FIGURE 4416

GGAGCTTTCTATTGGTCCTGGGTACCGAGCATGGGCGCTGCGTCAGTGCGCGCTGGCGCAAGGTTGGTGGAAGTC
GCGTTGIGCAGTTTCACTGTTACATGCCTTGAAGTGATGAGGAGGTTTCTGTTACTATATGCTACACAGCAGGGA
CAGGCAAAGGCCATCGCAGAAGAAATATGTGAGCAAGCTGTGGTACATGGATTTTCTGCAGATCTTCACTGTATT
AGTGAATCCGATAAGTATGACCTAAAAACCGAAACAGCTCCTCTTGTGTTGTGGTTTCTACCACGGGCACCGGA
GACCCACCCGACACAGCCCGCAAGTTTGTAAAGGAAATACAGAACCAAACACTGCCGGTTGATTTCTTTGCTCAC
CTGCGGTATGGGTTACTGGGTCTCGGTGATTTCAGAAATACACCTACTTTTGCAATGGGGGGAAGATAATTGATAAA
CGACTTCAAGAGCTTGGAGCCCGGCATTTCTATGACACTGGACATGCAGATGACTGTGTAGGTTTAGAACTTGTG
GTTGAGCCGTGGATTGCTGGACTCTGGCCAGCCCTCAGAAAGCATTTTAGGTCAAGCAGAGGACAAGAGGAGATA
AGTGGCGCACTCCCGGTGGCATCACCTGCATCCTCGAGGACAGACCTTGTGAAGTCAGAGCTGCTACACATTGAA
TCTCAAGTCGAGCTTCTGAGATTTCGATGATTTCAGGAAGAAAGGATTCTGAGGTTTGAAGCAAAATGCAGTGAAC
AGCAACCAATCCAATGTTGTAATTGAAGACTTTGAGTCTCACTTACCCGTTCCGTACCCCACTCTCACAAAGCC
TCTCTGAATATTCTGGTTTACCCCAAGAAATTTACAGGTACATCTGCAGGAGTCTCTTGGCCAGGAGGAAAGC
CAAGTATCTGTGACTTCAGCAGATCCAGTTTTTCAAGTGCCAATTTCAAAGGCAGTTCACTTACTACGAATGAT
GCCATAAAAAACCACTCTGCTGGTAGAATTGGACATTTCAAATACAGACTTTTCTATCAGCCTGGAGATGCCTTC
AGCGTGATCTGCCCTAACAGTGATTCTGAGGTACAAAGCCTACTCCAAAGACTGCAGCTTGAAGATAAAAGAGAG
CACTGCGTCCTTTTGAATAAAGGCAGACACAAAGAAAGAGGAGCTACCTTACCCAGCATATACCTGCGGGA
TGTTCTCTCCAGTTTCATTTTTACCTGGTGTCTTGAATCCGAGCAATTCCTAAAAAGGCATTTTTCGAGCCCTT
GTGGACTATACAGTGACAGTGCTGAAAAGCGCAGGCTACAGGAGCTGTGCAGTAAACAAGGGGCAGCCGATTAT
AGCCGCTTTGTACGAGATGCCTGTGCCTGCTTGTGGATCTCCTCCTCGCTTTCCCTTCTTGCCAGCCACCCTC
AGTCTCCTGCTCGAACATCTTCTAACTTCAACCCAGACCATATTCTGTGTGCAAGCTCAAGTTTATTTACCCA
GGAAAGCTCCATTTTGTCTTCAACATTGTGGAATTTCTGTCTACTGCCACAACAGAGGTTCTGCGGAAGGGAGTA
TGTAAGGCTGGCTGGCCTTGTGGTTGCTTCAGTTCTTCAGCCAAACATACATGCATCCCATGAAGACAGCGGG
AAAGCCCTGGCTCCTAAGATATCCATCTCTCTCGAACAACAAATTTCTTCCACTTACCAGATGACCCCTCAATC
CCCATCATAATGGTGGGTCCAGGAACCGGCATAGCCCGTTTTATTGGGTTCTTACAACATAGAGAGAAACTCCAA
GAACAACACCCAGATGGAATTTTGGAGCAATGTGGTTGTTTTTGGCTGCAGGCATAAGGATAGGGATTATCTA
TTCAGAAAAGAGCTCAGACATTTCTTAAGCATGGGATCTTAACCTATCTAAAGGTTTCTTCTCAAGAGATGCT
CCTGTTGGGGAGGAGGAAGCCCAAGTATGTGCAAGACAACATCCAGCTTCATGGCCAGCAGGTGGCGAGA
ATCCTCCTCCAGGAGAACGGCCATATTTATGTGTGTGGAGATGCAAGAATATGGCCAAGGATGTACATGATGCC
CTTGTGCAAATAATAAGCAAAGAGGTTGGAGTTGAAAAACTAGAAGCAATGAAAACCTGGCCACTTTAAAAGAA
GAAAAACGCTACCTTCAGGATATTTGGTCATTAACCAGAAATTAAGAAAGAGGATTAAGCTTTTTTACTGAA
AGTACTAAAAGTCAGCTTTACTAGTGCCAAACCTTTAAATTTTCAAAGAAAATTTCTTTCAACATTTCTTGAA
GGACATGGAGTGGAGATTGGATCATTTAACAATATAACAAAACCTTCTGATTTGATTTTACGTATCTTCTATCTA
CGCCCTTCTGTGCTGTGACTCTCCCAAAATTGCCCTGTTGCCCTGAGCTCTTCTGAGCTAAGGCAGCCTTCAG
TCCCTATCAGCGCCTCCTTTACTTCCAGAGAACTTCACAGAGACTCTGTCTTCCATGCAAAGGCTTCTGAAA
TAGGGAGACTGACTGAGTAGCTCATTCCTGTGACTTACAGTGCCAAACATTTAAAAAGTATGAAAATGATTTATT
TTTATATGATGTATACCCATAAAGAATGCTCATATTAATGTACTTAAATTACACATGTAGAGCATATCTGTTATA
TGTTTTATGTAACATATCAATGGTTATTTGTTACTAAAGCTATATTTCTGATAAAAAATATTTTAGGATAATTGCC
TACAGAGGGATTTATTTTATGATGCTGGAAATATGAAATGTATTTTAAATTTCACTCTGGCATATGATTTATC
TATCACCATTACTTTTTTTAAGTCACAATTTTCAGAATTTTGGGACATTTCATTTCAATTTACAGGTACCAGTAC
GTACATATTTTATAGAAAGATACAACCTTTTTATTTTCACTCCTTTTATTTCTGCTGCTTGGCACATTTTTGAG
TTTTCCACATTTATTTGTCTCCATGATACCACTCAAGCAGTGTGCTGGACCTAAAAACTGACTTTAGTTAGTAT
CCTTGGATTTTTAGATTCCCACTGTCTAATTCCTGTTATAATTTGCACAAACAAAACAAAATGTTATGATAATC
TTTCTCCACTGTTCTAATATATATTGATTTTTATTTGATAGCTTGGGATTTAAACATCTCTGTTGAAGGCTTT
TGATCCTTTTGAGAAATAAAGATCTGAAAGAAATGGCATAATCTT

5094/5332
FIGURE 4417

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCG
TCATTGGACACGTAGATTCGGCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCCTGTTGGCCGAGTGGAG
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAA
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG
GATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAG
GTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATT
GCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT
CCACCTTTGGGTCGCTTTGCTGTTCTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAGAAAGCTCAGATGGCTAAATTGAATATTATCCCTAATA
C

5095/5332
FIGURE 4418

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTTGGAAATTTGAGACCAGCAAGTACTATGTGACT
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT
CTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGC
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGA
TGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA
ACTCGTCCAAGTACAAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCT
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAT
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

5096/5332
FIGURE 4419

GCCACTGCCTGGCACCCCGACGGGAGGGGCTCCGGATCGTTCGGAGCCGGCTGAACCCCTTCGGCCGCGAGCGAC
CGCATGAGTCGGGGGACTATGCCCCAGCCCGAAGCGTGGCCAGGCGCGAGCTGCGCCGAGACGCCGGCGGGGAG
GCGGCGGCCACGGCGCGGGACGGCGGGAAGGCGGCGGCCAGCGGGCAGCCGCGGCCGAGATGCAGTGCCTGGCC
GAGCAGTGAGAGGACATGTACCGTGCCTGCAGATGAAATAGAAAAGGAGAAAGAATTGCTTATACATGAAAGAGGG
GCATCAGAACCGAGATTAAGCGTAGCTCCTGAAATGGATATCATGGACTACTGCAAAAAAGAATGGAGAGGAAAT
ACACAGAAAGCAACGTGTATGAAAAATGGGCTATGAAGAGGTTTCTCAGAAGTTCACCTCCATACGGCGAGTCCGT
GGTGATAATTACTGTGCACTGAGGGCCACGCTGTTCCAGGCCATGAGCCAGGCTGTGGGGCTGCCGCCCTGGCTG
CAGGACCCGGAGCTCATGCTGTTACCAGAAAACTCATAAGCAAATACAACCTGGATCAAGCAATGGAACCTTGGA
CTGAAATTTGATGGGAAGAATGAGGACCTGGTTGATAAAATTAAAGAGTCCCTTACTCTGCTGAGGAAGAAGTGG
GCAGGCTTGGCTGAAATGAGAACTGCTGAAGCAAGACAGATAGCTTGTGATGAACTATTACAAATGAGGCGGAG
GAATATAGCCTCTATGAAGCTGTAAATTTCTAATGCTAAACAGAGCCATTGAACTATATAATGATAAAGAGAAA
GGAAAGGAAGTACCATTTTTCTCTGTGCTTCTGTTTGCTCGGGACACATCAAATGACCCAGGACAGCTTCTGAGG
AACCACCTCAACCAGGTGGGACACACTGGTGGTCTTGAACAGGTTGAAATGTTTCCTTCTTGCCCTATGCTGTGCGC
CACACCATCCAGGTGTACCGGCTCTCCAAGTACAACACGGAAGAATTCATCACAGTCTACCCACCGACCCACCC
AAGGACTGGCCAGTGGTAACGCTCATTTGCTGAGGACGATCGGCACTATAACATCCCCGTCAGAGTGTGTGAGGAG
ACCAGTCTATGAGAGACGCATGCTCCTGACAGCCTGGCGACGTGGCGAAGATGCACAGGTGGCTCCTGGGCTTGG
GCTGCAGGTTTGGGGGTCTCTAAGAACAATCTCTGAGAAGAACCCTTGGGCCCCCTGGGAGCCAAGTTGGACAGGA
TGTCCTGAAGACTAGCTTTTGATAAGAGAAATTAACCAAGTCTTTCCCTCATCTATGATGCAATATATTTTCACT
GGGGGCCTTCAGAGCACACCTGTTGGACGGTGCAAACCATATCTTCCAGAAGGCAAATACTTTTGTATCAGAG
GAAACTCAGTTTTGGAGAGGAATATGTTCTTTATATCTCAAAATCAAACTCTCTCTAATGGTAACTGGCTTCTA
ATTTTTTTAAGTACAGTATTTTTTTTTCCCTTTTAGTAGTAACGGGTTTCTATAGATCTTCTATACAGTCTGCT
TTAACTCAGGACCTTGAGATTATGAGACTGACGTGCTGCCACTGCACTGAGGGGGCTTCTAACAGTCTGCTTTA
AGTGGTATAATTCTGGGATAGATCTGTTACTGGCATAGTCATGACAACCTCTGGTAATCTTACCTTCTCCTTTTT
ATGAAGGGAAGAGCAATGGTTTGGACTTACATCTTAATTAAGGCTATTTTAAGCAGATTGTTTTGCAACAGATTA
AGAATTGGGTCCCAAAGTGGGTATTTCAAGGCATTTTTGAAGACTGGAGGAGCGTAGGAGGGAGTGGTGAGGGA
ACCTAGAACTTCTTGCTCCTTGTGACTATGACAGATGTCTGATGCCCCAGCGCACTGGAGTCTGGGGCTTGGTG
CAGGTGGTGCCCCATCAGTGTGGACAGACACTACTTGCCTTTGTGGTTTAGTGTTGGAAGCTTTAATTATTCTAC
AGTTCCATAGATTACAATTTTATAGCCAAACAGTTTGTATCCACCTGCTTTCAGAGGAGGAACCAAAGGCCAAA
TTACTTTGAGGTAGGGCTTAGCTGGACCTGGGTTTTCTATGCTCTTTTCATGCTGTGTTGGAGGTTGTGCCAC
TGCCAGATCTGTGTAACCCGCTCTGGGTGAGGGGATGAGTGACAGCAAACCATCTTAAATTTTTTCATGAGTACAT
TTAAGCGGAAGCATACGGGAATATGAGTGCAAAAGTGTGGCTGAGCCGCGTATGCCCTTGATTGGTTTTGGGAAG
CCTGAGGGAGGCAGCCTTCTTGCTATGAGCCATCGCCTGCCAATCAGGCTAAGGGTGGTGACTGGGGTGGTGA
AGGGGCAGCTCTGCTGAGCATGGTCTGCCTTATGGCTGAATTGTCCTCAAGGGGTGGGACTGCAGATGGTGT
CACATGAACCGGAGACATCACTCTTTAGGATTCTACTGGCAGCCCCCTGAATTGGCTCAACGTTTGTGGAGGTGGT
ATTTCCCTGAAGTACTGAGCTTTGTTTTATAATAATTAATCCTTATTTGGTCCAATTTAATATAGTTTAGAAG
CTATTTTTTTTGGAGGCAAACCGTTTTTGAATGTAATTTTGTTTTTAATTAATAAATAAGTCTTAGTTAAGAA
AACTCAGGATGCACAAAATATTAGACTGTTACTTTAGCTTCTCCCATACCTCATCAGTAATATTACCACACA
TTTTGCTAAATATTTATTGATTAGAGTGTGAAATCAAATCTGCTCTAAATGTGTGTGAATATGTTGGAGAGGC
TTTGTGTTCTTCACTGTGAAATGCAATTGTGCCTTGAATAAGAAGGTACCTAGAAGCCAAATTAAGTAATAATG
ACTTCTT

5097/5332
FIGURE 4420A

CTCTTTTTTTTCCCGGCAGATCTTTGTTGTGTGGGAGGGCAGCAGGGATGGACTTGAGCTTGCGGATCCCTTGCT
AGAGCAGCCGCGCTCGGAGAAGGCGCCGAGCCGCGAGGAGGAGCCGCGCCGCGCGCCGAGGCCCGCGGCC
CGCGGCCCTCTGTGGCCCGCGCCCGCTCGCCCCGTCGCCCCGTCGCCCCCTCGCCTCCCCGAGAGTCCCTCGC
GGCAGCAGATGTGTGTGGGGTCAGCCCACGGCGGGGACTATGGTGAAATTCGCGGCGCTCACGCACTACTGGCCC
CTGATCCGGTTCTTGGTGCCCCCTGGGCATCACCACATAGCCATCGACTTCGGGGAGCAGGCCTTGAACCGGGGC
ATTGCTGCTGTCAAGGAGGATGCAGTCGAGATGTGGCCAGCTACGGGCTGGCGTACTCCCTCATGAAGTTCTTC
ACGGGTCCCATGAGTGACTTCAAAAATGTGGGCTGGTGTGTTGTGAACAGCAAGAGAGACAGGACCAAGCCGTC
CTGTGTATGGTGGTGGCAGGGGCCATCGCTGCCGTCTTTCACACACTGATAGCTTATAGTGATTTAGGATACTAC
ATTATCAATAAACTGCACCATGTGGACGAGTCGGTGGGGAGCAAGACGAGAAGGGCCTTCCTGTACCTCGCCGCC
TTTCTTTTCATGGACGCAATGGCATGGACCCATGCTGGCATTCTCTTAAACACAAATACAGTTTCTCGGTGGGA
TGTGCCTCAATCTCAGATGTCATAGCTCAGGTTGTTTTGTAGCCATTTTGCTTCACAGTCACCTGGAATGCCGG
GAGCCCCGTGCTCATCCCGATCCTCTCCTGTACATGGGCGCACTTGTGCGCTGCACCACCCTGTGCCTGGGCTAC
TACAAGAACATTACGACATCATCCCTGACAGAAGTGGCCCGGAGCTGGGGGGAGATGCAACAATAAGAAAGATG
CTGAGCTTCTGGTGGCCTTTGGCTCTAATCTGGCCACACAGAGAATCAGTCGGCCTATTGTCAACCTCTTTGTT
TCCCGGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACAGCCACATACCCTGTGGGTAC
ATGCCATACGGCTGGTTGACGGAAATCCGTGCTGTGTATCCTGCTTTCGACAAGAATAACCCAGCAACAACTG
GTGAGCACGAGCAACACAGTCACGGCAGCCACATCAAGAAGTTCACCTTCGTCTGCATGGCTCTGTCACTCACG
CTCTGTTTCGTGATGTTTTGGACACCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGACTTTGCC
TTTGCAGAACTCTGTGTTGTTCCCTTTCGCGATCTTCTCCTTCTTCCAGTTCAGTCACAGTGAGGGCGCATCTC
ACCGGGTGGCTGATGACACTGAAGAAAACCTTCGTCTTGGCCCCAGCTCTGTGCTGCGGATCATCGTCCTCATC
GCCAGCCTCGTGGTCTTACCCTACCTGGGGGTGCACGGTGCAGCCCTGGGCGTGGGCTCCCTCCTGGCGGGCTTT
GTGGGAGAATCCACCATGGTTCGCCATCGCTGCGTGCTATGTCTACCGGAAGCAGAAAAAGAAGATGGAGAATGAG
TCGGCCACGGAGGGGGGAAGACTCTGCCATGACAGACATGCCTCCGACAGAGGAGGTGACAGACATCGTGGAATG
AGAGAGGAGAATGAATAAGGCACGGGACGCCATGGGCAGTGCAGGGACAGTCAGTCAGGATGACACTTCGGCATC
ATCTCTTCCCTCTCCCATCGTATTTTGTTCCTTTTTTTTTGTTTTGTTTTGGTAATGAAAGAGGCCTTGATTTAA
AGGTTTCGTGTCAATTCTCTAGCATACTGGGTATGCTCACACTGACGGGGGACCTAGTGAATGGTCTTTACTGT
TGCTATGTAAAAACAAACGAAACAACTGACTTCATACCCCTGCCTCACGAAAACCCAAAAGACACAGCTGCCTCA
CGGTTGACGTTGTGTCCTCTCCCTGGACAATCTCCTCTTGAACCAAAGGACTGCAGCTGTGCCATCGCGCCT
CGGTACCCCTGCACAGCAGGCCACAGACTCTCCTGTCCCCCTTCATCGCTCTTAAGAATCAACAGGTTAAACTC
GGCTTCCTTTGATTTGCTTCCCAGTCACATGGCCGTACAAAGAGATGGAGCCCCGGTGGCCTCTTAAATTTCCCT
TCCGCCACGGAGTTCGAAACCATCTACTCCACACATGCAGGAGGCGGGTGGCACGCTGCAGCCCGGAGTCCCCGT
TCACACTGAGGAACGGAGACCTGTGACCACAGCAGGCTGACAGATGGACAGAATCTCCCGTAGAAAGGTTTGGTT
TGAAATGCCCCGGGGGCAGCAAACTGACATGGTTGAATGATAGCATTTCAGTCTGCGTTCTCCTAGATCTGAGCA
AGCTGTCACTTCTACCCCCACCGTGTATATACATGAGCTAACTTTTTTAAATGTACAAAAGCGCATCTCCAG
ATTCCAGACCCTGCCGCATGACTTTTCTGAAGGCTTGCTTTTCCCTCGCCTTTCCTGAAGGTGCGATTAGAGCG
AGTCACATGGAGCATCCTAACTTTGCATTTTAGTTTTTACAGTGAAGCTTTAAGTCTCATCCAGCATTCT
AATGCCAGGTTGCTGTAGGGTAACCTTTGAAGTAGATATATTACCTGGTTCTGCTATCCTTAGTCATAACTCTGC
GGTACAGGTAATTGAGAATGTACTACGGTACTTCCCTCCCACACCATACGATAAAGCAAGACATTTTATAACGAT
ACCAGAGTCACATATGTGGTCCCTCCCTGAAATAACGCATTTCGAAATCCATGCAGTGCAGTATATTTTCTAAGTTT
TGGAAGCAGGTTTTTCCCTTTAAAAAATATATAGACACGGTTCATAAATTGATTTAGTCAGAATTCCTAGACT
GAAAGAACCTAAACAAAAAATATTTTAAAGATATAAATATATGCTGTATATGTTATGTAATTTATTTTAGGCTA
TAATACATTTCTTATTTTCGCATTTTCAATAAAATGTCTCTAATACAATACGGTGATTGCTTGTGTGCTCAACAT
ACCTGCAGTTGAAACGTATTGTATCAATGAACATTGTACCTTATTGGCAGCAGTTTATAAAGTCCGTCATTGTC
ATTTGAATGTAAGGCTCAGTAAATGACAGAACTATTTTTTCATTATGGGTAAGTGGGGAATAAATGGGTCAGTGA
GTAGGAATAGAAGTGCAAGCTGGAAAGGCAAAAATGAGAAAGAAAGGCAGGCCCTTTGTGTCTACCGTTTTCA
GTGCTGTGTGATCATATTGTTCCCTACAGCAAAAAAGAATGCAAGGGCATAATGTTAGCTGTGAACATGCCAGGG
TTGCATTACATTCCCTGGGTACCCAGTGCTGATGGGGTGTGCCACGTGGGGACATGTCCTTGGCGTGTCTCCTC
AGAGTGGCTTTTCTCCATTAATACATATATGAGTACTGAAAAATTAAGTTGCATAGCTGCTTTGCAGTGGTTTC

5098/5332

FIGURE 4420B

AGAGGCAGATCTGAGAAGATTAAAAAAAATCTCAAATGTATCAGCTTTTTTTAAAGGACATTACTAGAAAATTA
AACAGTATTTTTTAACATGTGTGACTTTCATGCTTCTGGGGTTGGAGCTTAAAGATCCAACTGAGAAAGCAGGC
CGGGCATGGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCCAAGGAGGGTGGATCACTTAAGGTCAGGAGT
TTGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTAAAAACATAAAAATTAGCTGGGGGTGGTAGCAC
ATACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTTGCTTGATCCTGGGAGGCAGAGGTTGTAGTG
AGCCGAGATCGCGCCATCGCACTCCAGCCTGGGTGACAAGAGCAAACTCCATCTC

5099/5332
FIGURE 4421

CGCGTGCGCAGAGCGAACGCCTGCAGCCTCCCTGCCCCCTCCACAAACGCTCGACCCAGGATTCCCCCGGCTCGC
CTGCCCGCCATGCCCGACAAGGAAGCAGCCTTTGACAACACAGTGGAAGAATGAGTGATCAACAAGGAATACAAA
ATATGGAAAAAGAACACCCCTTTTCTTTATAATTTGGTGATGACCCATGCTCTGGAGTGGCCAGCCTAACTGCC
CAGTGGCTTCCAGATGTAACCAGACCAGAAGGGAAAGATTTACGCCCTTCATCGACTTGTCTGGGGACACACACA
TCGGATGAACAAAACCATCTTGTTATAGCCAGTGTGCAGCTGCCTGATGATGATGCTCAGTTTGATGCATCACAC
TACGACAGAGAGAAAGGAGAATTTGGAGGTTTTGGTTCAGTTAGTGGAATAATTGAAATAGAAATCAAGATCAAC
CATGAAGGAAAAGTAAACAGGGCCCGTTATATGCCCCAGAACCCTTGATATCATCACAAAGACTCCTTCCAGT
GATATTCTTGCTTTGACTATACAAAACATCCTTCTAAACCAGATCCTTCTGGAGAATGCAACCCAGACTTGCGT
CTCCGTGGACATCAGAAGGAAGGCTATGGGCTTTCTTGGAACCTAAATCTCAGTGGGCACTTACTTAGTGCTTCA
GATGACCACACCATCTGCCTGTGGGACATCAGTGCCGTTCCAAAGGAGGGAAAAGTGGTAGATGCGAAGACCATC
TTTACAGGGCATACGGCAATAGTAGAAGATGTTTCTGGCATCTACTCTGTGAGTCTCTGTTTGGGTCAGTTGCT
GATGATCAGAACTGATGATTTGGGATACTCGTTCAAACAATACTTCCAAACCAAGCCACTCAGTTGACACTCAC
ACTGCTGAAGTGAAGTGCCTTTCTTTTTCAGTCCCTATAGTGAGTTTATTCTTGCCACAGGATCAGCTGACAAGACT
GTTGCCTTGTGGGATCTGAGAAATCTGAAACTTAAAGTTGCATTCTTTTGAGTCACATAAGGATGAAATATTCCAG
GTTTCAGTGGTCACCTCACAATGAGACTATTTTAGCTTCCAGTGGTACTGATCACAGACCGAATGTCTAGGATTTA
AGTAAATTTGGAGAGGAACAATCCCCAGAAGATGCAGAAGACAGGCCACCAGAGTTGTTGTTTATTCATGGTGGT
CACACTGCCAAGATACCTGATTTCTCCTGGAATCCCAGTGAACCTTGAGTGATGTGTTCTGTATCGGAAGACAAT
ATCATGCAAGTGTGGCAATGGCAGAGAACATTTATAATGATGAAGACCCTGAAGGAAGCATGGATCCAGAAGGA
CAAGGGTCCTAAAATATGTCTTTACTTCTTGATTTTAGACTCCCCCTTTTTCTTCTCAACCCCGAGAGTGATTT
AACACTGGTTCTGAGACAGATTTTATTCAGCTATCCCTCTATATAATAGGTACCACCGATAATGCTATTAGCCCA
AACAGTGGGTGTTTTCTAAATATTAATGGGGGGCTTGATTCAACAAAGCTACAGAGTTATGTTGAAATTTTCTTC
AGGAATTTTCTAGTAACCCAGGTCTAAAGTAGCTACAGAAAGGGGAATATTATGTGTGATTATTTTCTTCTTAT
GCTATATCCCCAAGTTTTTTGGACTCATTTAAGTAAAGGCTAGAGTGAGTAAGGAGAATAGAGCCAAATGAGGTA
GGTGTCTGAGCCATGAAGTATAAATACTGAAAGATGTCACCTTTTATTTCAGGAAATAGGGGAGATTCAAGTCATAT
AGATTCTACTCGAAAATCTCGACACCTGAGTTCCAGGATGCACATTTTCATACGTAGACCAGTTTCTCTTG
TTTCTTCAGTTAAGTCAAAACAGCACGTTCTCTTTCCCCATATATTCATATATTTTGTCTGTTAGTGATTTTC
TTGAGCTGTTTTTTCATGTTGTTTATTTCTGTCTGTGAAATGGTGTTTTTTTTTTTTTTTTGTTGGTGTGTGTTTTT
TTTTTTAACTTGGGACCGCCAAGTTGTAAAGATGTATGTTTTTACCTGACAGGTATACCACAGGTAGATTGTCAA
GTTGAGAAGAGTGAATCGATAAATTGTATTTGTTTTAAAAATTAATTAATCCTTGATAAGAGTTGCTTTTTTTT
TAGGAGTTTGTCTTGACCACTAGTTTGATGCCATCTCCATTTTGGGTGACCTGTTTACCAGCAGGCCTATTAC
TCTCCATGACTAACTGTGTAAGTGCTTAAATGGAATAAATTGCTTTTCTACATT

5100/5332
FIGURE 4422

AGGAATGCAGCGGCTGCCACGGAGCTCGTAGCTGCAGCTTTGGAGGAGTAAGCGGCGTGGTAGCGAAGGTCGCCG
AACCCGCCTGGCTAGCCGGCGAGTTGAGTGGCGACTCTTTTGAAACAGATGGTCACCATGTTTAGATATTAGCAG
TCCCGTATGTGCATGTCTGCATTGAAAATGGAAGAGGGAAACAACAATGAAGAGGTAATTCACCTGAACAACCTT
TCACTGCCATCGGGGACAAGACTTTGTAATTTCTTCTGGAAAACCCAGATTATCCAAAGAGAGAAGACAGAATC
ATTATAAATCCCAGTAGCAGTCTGCTGGCCAGCCAAGATGAGACAAAGTTGCCTAAAATAAGACTTTTTTGA
TTCTAAATTGACTCCTCTTGACCAGCACTGCTTCATCCAAGCTGCTGACCTCCTCATGGCCGACTTCAAAGTGCT
CAGTAGTCAGGACATCATGTGGGCCCTGCACGAGCTCAAAGGACACTATGCAATCACCCGAAAGGGGTTGGCATC
TGCACATCCTTCCTGGGCATCTCGTGGGCACTGCTCGATTACCACCAGGCCTTGCACACCTGCCTCCCCCTCCAAG
CCCCCTCCTGGGCCTGGGCTCCTCTGTGATCTACGTCCTGTGGAACCTGCTGCTACTGTGGCCCCGAGTCCTAGCT
GTGGCCCTGTTCTCAGCCCTCTCCCCAGTATGTAGCCCTGCATTTCTGGGCCTGTGGCTGGTACTGCTGCTCT
GGGTTTGGCTTCAAGGCACAGACTTCATGCTGGACCCAGTTCCGAGTATCCTCTATTTCTCCTGGTTCAACGTG
GCTGAGGG

5101/5332
FIGURE 4423

GTGCGTCGCGGGGGCGGGGCCGCGCAGGCGTACCGGGTGCCCCGGCTCTGGAGCATAAAACAAGAGCGGGGACGGG
ATGAGGCGGCGGTTGATCCAGGGTGGCGAGTGGCGGCGACCGAGGCGGCGAGCGGGGCCCCGGCGCCGACCCTGA
GTGCAGCCTGACCCGCCCTCGCGCGCGGCCCTCCCCGGCCGGGCCCACTCGCCGCGCGCCAGCCATGAACCTG
GCGAGCCAGAGCGGGGAGGCCGGCGCGGCCAGCTGCTCTTCGCCAACTTCAACCAGGACAACACAGAAGTGAAA
GGGGCATCAAGAGCAGCTGGTCTTGGCCGTGCGCTGTTGTCTGGTCCCTAGCTGTTGGTAGTAAGTCCGGTTAT
AAATTTTTCTCCCTTTCTTCTGTGGATAAGCTGGAACAGATCTATGAATGCACCGATACGGAAGATGTTGTCATT
GTAGAGAGATTGTTCTCCAGCAGCCTAGTGGCCTATCGTCAGCCTTAAAGCACCAAGGAAGCTAAAGGTTTGCCAC
TTTAAGAAGGGAACTGAGATCTGCAACTACAGCTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGG
CTGATAGTATGCCTGGAGGAGTCCCTGTACATCCACAACATTGGGGACATGAAGGTGCTGCATACGATCAGGGAG
ACGCCTCCAAACCCTGCAGGCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGC
GCGACCATCGGAGAGGTGCAGGTCTTCGATACCATTAAATTTGAGAGCTGCAAAACATGATTCCGGCTCACGACAGT
CCTTTAGCGGCACTGGCCTTTGACGCAAGTGGAATAAATTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGG
GTATTTTCCATTCCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCC
CTGGCCTTCAGCATGGACGGCATGTTCTCTCCGCCTCCAGCAACACTGAGACCGTGACATCTTCAAACCTCGAG
ACTGTGAAAGAAAAAECGCCAGAGGAGCCACCACCTGGACCGGGTACTTCGGGAAAGTGCTCATGGCCTCCACC
AGCTACCTGCCTTCCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCCTTCGCCACGGTCCGCCTGCCATTCTGC
GGCCACAAAAACATCTGCTCGCTAGCCACAATTGAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCCGACGGGTAC
CTGTACATGTACAACCTGGACCCCCAGGAGGGCGGCGAGTGTGCCCTGATGAAGCAGCACCGGCTGGACGGCAGT
CTGGAACGACCAATGAGATCTTGGACTCTGCCTCTCACGACTGCCCCCTAGTCACTCAGACATACGGCGCAGCT
GCAGGAAAAGGTACTTACGTGCCTTCATCCCCAACGAGACTTGCTTACACAGACGACCTGGGTGCTGTGGGTGGC
GCCTGCCTGGAGGACGAGGCCAGCGCCCTGCGCCTGGATGAGGACAGCGAGCACCCGCCCATGATTCTTCGGACT
GACTGAAACTTGACCTGTGACCTCTGACCCGGGGAGCAGAGAACACTGGCTTCACAGAGGACTTTGTGCATTGCTG
CTATGAACCTTTGACCTGAGTCGGGGGAGAGGATGGCAGAGACTTTATTAATAAAAAAAAAAAGATTGTAGTGCTAG
TCTAACTCCATAACGCTGAGGAAATACATCATTTTCACTTCAGTGGCTTTTAAATCCTGCTTATGAATTTTAGCT
TTTTGTTTGTGTTTTCTCTTTTTTGCCAAAATTAAGTGTGTTGGTGAAGCCCGCAAACCTCCTCGCTTTGCATG
CATGAACGTGCCAAGCCAGCATAGGGGAGCTAGAAGCCACTTTCAGCCACCTGCCGTTGGGTTTTTTCATATCT
GTACATAATGCCGAGTGCCTAAGGAAACCGTGCGCTCGCGCACAGTGGGCTGCTTGTCAAGGCCAGTCTGCAG
TGACAGGCCCCAGGGGCTGCCCACCAGGTGTGCTGGGCAGACTTCAGCTGGGACAGAAGTCCGATCTCCCTAGGGC
CCCACCTGGACATTTTCCCTCCGTTTTATTTTGTTAATTAAATTTCTTTCCAAATTGGATCGCTCTGGGATTTCT
TCCATGGTGGACTTTTGTCTTGATCTTGTCTTCCCTGTGGATATTGGAGGACAGCGAGGTTCTTTCTGATACTA
AAAACCTTTCTTTTCAGGCAGCAAATGAACCTGAAAGGTTGCCTGGACTCGCTGGAGCAAAGGAAAGCGATTTTGT
TTGTATAATTAAATGATCTGTTCTTCTACTTCACTCTT

5102/5332
FIGURE 4424A

CGCCTGGCACTCTCACCCGAAGACAAGCCCATCCGCTTGTCCCCCTCCAAGATCACAGAGCCGCTGCGGGAGGGC
CCGGAGGAAGAACCGCTGGCTGAGCGGGAGGTGAAGGCAGAGGTGGAGGACATGGACGAGGGGCCCCACAGAGCTG
CCGCCTCTGGAGTCGCCGCTGCCACTGCCCGCCGCGGAAGCCATGGCTACCCCCAGCCCTGCAGGGGGTTGTGGA
GGTGGCCTGTTGGAGGCCAGGCGCTGAGTGCCACCGGGCAGAGCTGCGCAGAGCCCTCTGAGTGTCCAGACTTT
GTGGAGGGGCTGAACCACGGGTGGATTCCCCGGGCCGGACAGAACCCTGCACCGCCGCCCTGGACCTGGGGGTG
CAGCTGACACCCGAGACACTGGTGGAGGCCAAGGAGGAGCCGGTGGAGGTGCCTGTGGCGGTGCCCGTGGTGGAG
GCAGTGCCCCGAGGAAGGCCTGGCGCAGGTGGCACCAGCGAGTCCCAGCCACCCTAGAAAATGTCAGACTGTGAC
GTGCCCCGCCGGGAGGGACAGTGCCGAGCCTGGAGCCCCAAGAGGCCGTGCCTGTACTCGGCAGCACCTGCTTC
CTGGAAGAGGCAAGCTCTGACCAGTTCCTGCCAGTCTGGAGGACCCACTGGCTGGCATGAACGCCCTGGCGGCA
GCTGCGGAGCTGCCCCAGGCCAGGCCTCTGCCCTCCCCGGGTGCTGCTGGAGCCAGGCCTTGGAAGCTGGAA
GCAGCCGAGAGCCTTGTCTTGGAGCAGAGCTTCTGTCATGGCATCACCTGCTAAGTGAGATCGCAGAGCTGGAG
CTGGAGAGGAGGAGCCAAGAGATGGGAGGTGCGGAGCGGGCCCTGGTGGCGCGGCCCTCCCTGGAGAGTCTGCTG
GCAGCTGGCAGCCACATGCTGAGGGAGGTGCTGGATGGGCCCGTGGTGGACCCACTCAAGAACCTGCGGCTCCCG
CGGGAGCTGAAGCCCCAACAAGTACAGCTGGATGCGCAAGAAGGAGGAGCGGATGTATGCCATGAAGTCTCTCC
CTGGAGGACATGGACGCCCTGGAGCTGGACTTCCGGATGCGGCTGGCCGAGGTGCAGCGCCAGTACAAGGAGAAG
CAGCGTGAGCTGGTGAAGCTGCAGCGCCGCCGGGACTCCGAGGACAGGCGCGAGGAACCCCATAGAAGCTTGGA
CGCAGAGGCCCTGGCAGGCCGCGGAAACGGAACCCAGCCCGAGCGCCCTGTGCCCCCCCCGCAAGAGAGGGAAG
AGCGGCCACAGTAGCGGAAAGCTGAGCAGCAAGTCTCTGCTGACATCAGATGATTATGAGCTGGGAGCAGGGATA
AGAAAGAGACACAAGGGGTCTGAGGAGGAACATGATGCCCTCATCGGAATGGGGAAGCCAGGGGGAGGAACAG
ACTTGGGATGAACATGAGGCCTCGTCGACTTCATCAGTCAGCTAAAGATTAAGAAGAAGAAGATGGCCAGCGAC
CAGGAGCAGTTGGCAAGCAAGCTCGACAAGGCCCTCTCCCTCACCAGCAGGACAAGTTGAAGTCGCCCTTCAAG
TTTTCGGACAGTGCTGGGGGAAATCGAAAAGTAGCGGGGGCTGCGGCAGGTACTTGACTCCTTACGACAGCCTG
CTGGGGAAGAACAGGAAGGCGCTGGCCAAGGGCCTCGGCCTGTCTCTGAAATCCTCCAGAGAAGGTAAACACAAA
AGGGCAGCCAAAACCAGGAAGATGGAGGTGGGGTTCAAGGCCAGAGGCCAGCCCAAGTCGGCCCATTCCTCGTTT
GCCTCGGAAGTGAGCAGCTACTCTTACAATACGGACTCAGAGGAAGACGAAGAATTCCTGAAGGACGAGTGGCCC
GCCCCAAGGCCCTCCAGCTCCAACTGACGCCCTTCCCTCCTGTGTAGCATGGTGGCAAAGAACAGCAAGGCAGCT
GGTGGCCCCAAGCTGACCAAGAGGGGCTGGCGGGCCCCCGGACTCTGAAACCAAGCCGGCCACCAGCAGGAAG
CAGCCGTTTTGTCTGCTGCTTCGAGAGGCCGAGGCGCGTTCCTCCTTCAGCGACTCTTCGGAGGAATCGTTTGAC
CAAGATGAGAGCTCGGAGGAGGAGGACGAGGAGGAGGAGCTCGAGGAGGAGGACGAGGCCAGCGGTGGTGGCTAC
AGGCTGGGTGCCCGGGAGCGGGCCCTGTACCGGGCCTGGAGGAGAGTGGGCTGGGCCTGCTGGCACGCTTCGCC
GCCAGCGCCCTCCCCAGCCCCACGGTGGGTCCATCCCTGTCTGTGGTACAGCTGGAGGCCAAGCAGAAGGCCGGG
AAGAAAGAGGAGCGGCAGAGCCTGCTGGGCACAGAGTTCGAGTACACCGACTCAGAGAGCGAGGTCAAGGTGCGC
AAGCGGTGCGCTGCGGGGCTGTGCGGCCCAAGAAGGGGCTGGGGGAGCCGGGACCCCTCCCTGGCCGACCCACG
CCTGGCGCCCGCGGTCCCGACCCAGCAGCCAGACAAGGCCAAGCTGGCGGTGGAGAAGGGGCGCAAGGCCCGG
AAGCTGCGGGGCCCAAGGAGCCTGGCTTCGAGGCGGGGCCGAGGCCAGCGACGACCTGTGGACGCGGCGC
CGCAGCGAGCGCATCTTCCTGCACGACGCTCGGCTGCTGCACCTGCGCCCGTCAGCACCGCGCCCGCCACCAAG
ACCAGCCGCTGCGCCAAGGGCGGCCCCCTGAGCCCGCGCAAGGACGCGGGCGTGCAAAGGACAGGAAGGACCCC
AGGAAGAAGAAGAAAGGGAAAGAGGCTGGGCCAGGAGCTGGGCTGCCGCCGCCCGAGCTCCTGCCTTGCCCTCT
GAGGCCAGGGCTCCT
CCT
CCT
CTGGCCCTTCCGCGCAGGCGGCGCTCCCCACCAAGGCCACCAAGCAGGCCGGAAGGCGCGGCCCTCGGCCACT
CCCCAGGCAAGAAGACGCGCGCCCCAGCCCCAGGCGCCTCCTCCGACCCACACAGCCTCTGCAGCCCAAGG
CTCAGGCCGGGGCAAGAGCCGACCCAAGAAGAGAGGGGCTCCACCTCCCACCACCAAGGAGCTGGCCAAGC
GGCAGCGCTGCGCTCCGTGGAGAACCGGCCCAAGATCGCGCCTTCTGCCAGCCCGCAGCTCTGGAAGTGGT
TCGGCAAGCCCACCCAGCGCGTGGCATGAAGGGCAAGGCCCGCAAGCTCTTCTACAAGCCATCGTGCGGGCA
AGGAGATGATCCGTATCGGGGACTGTGCCGTGTTCTCTCTGCCGGCGCCCCAACCTGCCCTACATCGGCCGCA
TCCAGAGCATGTGGGAGTCGTGGGGCAACAACATGGTGGTCCGCGTCAAGTGGTCTACCAACCCGAGGAGACCA

5103/5332
FIGURE 4424B

GCCCCGGCAAGCAGTTCCACCAGGGCCAGCACTGGGACCAGAAGTCCAGCCGAGCCTCCCGGGCGGCCCTGCGGG
TCTCCAGCCAGAGGAAGGACTTCATGGAGCGCGCGCTATACCAGTCCTCGCATGTGGACGAAAATGACGTGCAGA
CGGTGTGCGACAAGTGCCTGGTGGTGGGCGCTGGAGCAGTATGAGCAGATGCTGAAGACCAAGAAGTACCAGGACA
GCGAGGGCCTGTACTACCTCGCGGGCACCTACGAGCCCCACCACGGGCATGATCTTCTCCACGGACGGCGTGCCCG
TGCTCTGCTGAGCCCCGCGGGGCCCTGCGGGCCACCTGTGCCCCGAGGGCGGCCAGGGACCCATCTCCATCACTGC
CATGGCGCGGAGACCACGTGCGTTGTGTGCATGCGAGCGCTCCTGCAGGCGTGTGCATGGGGCCAGGTGTGCACG
TGGATGCCCCGGGTGAGTGTGTGTGCATGCACGTGTGTGCACGCATGTGCACATGCCTCCAGCCCCACCTTCCAAC
CCCTCAGTGCCCCCAGGACAGGGGGCCCCCTCTTAGCTATCAGGGTATGGCCGGACCGGCCCTTCCTGCCCAGCACG
TTGCAAGCACTTGCCAGGCCGGGCCCTCCAGGCTGCTGCTGCGTGGGGGCCCGGGTGCCCCCAGGTCCATGCAGA
CTGGGGATTGCGGTGGGGAGGGGCGCTTCTAAGGAACCAAACTGACGCTCACTCTGGGCTTCCCAAGCACCCCTTAG
CATGGAGCCCACCCCAAGGCCTCCCACCGTGCATGGGACAGGGCAGCCCGATGCCAGCTGGCCTACCTGACTGTG
CCAGGGGGCCCTGCCCCCACCCTCTCAGGATGGCCTAGACTTGGGGAACAGAGCCGGGTGGGGTGCAGCCCCGAG
TGTCTGTCAAAGGCACCAGGTGGAGAGGGCCCGGCACAGGCCACCCTGGTCCAAACCCTCAGCTACAGAAAAC
CCCAATGGTGCTGAAACTGTCGCCCCGCCACGCCTGGCCCCCTCCCCACCCAGGAGGGAGGTGGCACTTCTTAACC
TGTACAGTTTTATTGTACCAAGAGACTCGCCCCGCCCTGTATCATAAGCCTTTAAATGGAGTCAACTTTTTAAT
TATATATATAAAGATAAATATATATAAATATATATATAAACTTTTTAAACTGTGAAAAATAGCTATGAAATTAT
AAAAAAAACATTCTGACGTGCAGAAATATTATTTTTTTTCTTGTAGATTATAGTGTCTAGCACCGGCTTCAC
CGGCCTCCCAGTCCCCAGCACACCCCCCGCCACCCCAAGTGTACTGTACTACCCCCCAGGATAGAGAAGT
GTTTGTAGGGAGAGAAGAGGGAGAGGCAGGAGCCGGCCCCAAGCCAGGGTCCCTGCTTGGGCCCCAGAAAGCAC
TTAACCAGGCCCCAAGCCTTCAAGGGAACCAAGGCCTCAACCAGACAATCTTGAGGGAAGGAAAAGCCAGACTT
TGGGTTTGTTTTTTGGGGGAATTATTGGTTTTTTTTTTATGTTTCTTTTGAATTTTGTGTGGCAAATTCT
GTGTGATCTTTTTTCATAAAAAAAGAAAAGATTTAATTGGAAAAAT

GTGACGAAACCTTTGCTCTCTGGCCAGAGGGACCCTTCIGCAGGCTGATTCCAGCAGTGCCCGATGGTGGGACCCA
CACCAGACCAAGCCTTCGCTCCCAGAGGCCTCCTGGCCCTCCTGTGCATGGCCTGTGAGAGCCACACCCTAGGC
CCCGTCTCCTAGTCTGCAGGCCGAGGACCAGCTGCCACGGCCCCAGGGGGCAGGGGCTGTAGATGAGGGTCTC
AGAGGTGGTGGGAGCACCCCCCCCCACCCACAGTTCTTGGGCATTTCTTTAGAGCTTTAAATGGCACCTGGAGAC
CACCAGGCGCGGCGATCAGATCGGGTGGTGTGGTGCCTCCTGGGACTGACCACTTCTTGCTCTCCGACCAGGCAG
GGGCGAGTGGCCTGGGAGGTTCCCGGACCCTCAGGGGGCCTGTGTCTCTGGGCACCGCAGCTCCGCCCCACTCCT
TCCTCCAGAACATTCCCCACTCGGGCTAGAGAATTGCGTCTGCTCCAGGAATGCATCCTAGCGTGTGTACGATCG
CGCTGGGTGTCTGTCTCATGAGCAAGCGGTTTTAAACCAGCAGCATAATTTATACTCATAGACAGGACTGGG
GAAGGGCTGTTCCTGAGGCTGGGGTGCAGTGCCTTGGAAAGCACCCCTGAAACAGTGGACCTTGTATTTTTAGTG
TCCCCTGCAACCATCCTCTGACTTAGAGCAAGAATTTCCGCTGCTGCTACCCCCGAGATGGGCTTCACCAGATGT
TAATAACGTGCTTATTTTTCTCTAAGTGCTATTTTGGCACCAGCGTTAGTTGCAATTTATATTCTGCAGCATTGTA
TGCTGGGAAAAGAACCACCCCTAATGGTCCCCAATTGGCAGAGCTCGGCTGTAAAGCAGCAGACCATATGCTGCC
TGCTGGAGGAGCGTGGTCAGCACTTGTCCCCGTGCCTGCGTGCCTGCGTGCCTGCGTGCACGTGTGCCTGCGGGTAC
CTGTGCCCTGTGTGTGCACATGTGCCTGCATGCGTGTGCCTGCGTGCACGTGTGCCTGTGTGTACATGTGCCTGC
GTGTACCTGTGCCCTGTGTGTGCACGTGTGCCTTCGTGTACCTGTGCCCTGTGTGTGCATGTGTGTGTGAGTCAC
GTCTTCGTGTGTGTATGTGAGGGAGAGACTGTGGGGTTGGAGGGAGGGAGGGGAAAGGGTATGTATCCCTT
TGTTCTTTAAAGGGAGAGCCCCAACCTCTCTGGCTGCCCCCTCCTGCCTGTGCTCCAGCTCACCACACCTA
GCTGCTATTTATTCTCCTGACCCCCCTTCCCGGCCCTGCAGCCCCGTGTCCCGCAGCCTCCGCCCCGECTCCTGCT
CCACGTCAACCAGGCAACACTCGGCTCCACCAGGCTTCCGAAGGTGGCCCAGAGCAGGCACCTTGAGCCTGATGACC
CAGAGCAAAGCTGCCTTTCTGGGCCTTGAGTACTCCTTTCTGCTATGGAAGGCTTTTCTTGTTTTCAACGGCCCCG
TCCAGCCCAGGGGGGCTGGGTGAGGGCCGCTTCCCTTCTGCAGCAGAGGGGGCGGGCTCTATCCTTGCCATCTGCT
GCCCCCAGAGGCCCTGCCAGGACATGGGCCTGAGCGGTTTTCTTCTCCAAGAGGCCCTCCTGGGACCTGTCTGTGC
ACAGGGCGGGAAGACACTTGCTGCTTCGACCCAGGACGGCAGCCAGGACGGGCTGAGCTCCTCTTGCGCTGCAAA
CACACAAGGGTTGCCTGCCAGCTCAGCAGCGCCCTCCCTCAACCACACCCTGGGTCCGGACCCAGAGCCACAGGC
CGTTGGACCCAGGGGACCGGGGCTGGGCTCAGGCGTGGGCCTGGAGGGCTTGTGGAGGGGCCAGACCTAGAGCCG
TAGGGCTCCAACAGCTGAGGGCTGGGCCCCCTGCCGGCCAATGAAGCTCCAGACCAGTGCTCCGGCCTTGCGCGTG
CCAGCAGTGCTCCTGCAGGGATGGAGGGTGTGGAGGCCGATGCGGGGACCTTGATCCCCCAGCAGGCAGCGC
TGTGGTCCCAGCCACTCAGGAGGCTGAGGCAGGAGAAATGGCATGAACCTGGGAGGCGGAGCTTGCAGTGAGCTGA
GATCGCACCACTGCATTCCAGCCTGGGCGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAGAAGTTT
CTAGATCTACTGGGCATGATGAACACAAACCCACAGACACTGAGGAACCCAGTGAGTGGTGGCAGTGACTCGGGCTCC
TCTGCTCTCTAAAGCTCCTTTGAGAAACATGGGAGGGGCCGGGCGTGGTGGTTACGCCTGTATCCACGACTT
TGGGAGGCTGGGGCAGGAGGATCGCTTGAGCCAGGAGTTGAGAGACCAGCCTGGGCAACATAGTGAGACTGTATC
GCTACATAAAATAAAAAAAAAAAGTTAGCTGGGCATTGTACATGTGCCTGTGGTCCCAGCTACTCAGGAGGCTGAG
GCAGGAGGATTGCTTGAGCCCAGGAGTTGGATGTTGCAGTGAGCCAAGATCGCACCAATTGCCCTCCACTCTGGGC
CACGGAGCAATACCTGTCTCAGAAAAACAAACAACAAAAAGCAGAAACGCTGAAGGGGTGCGTTTACGGGAAAAA
CGCTGTGAGAACACTTGGCTACTCCTACCCAGATCAGTGGACCTGGGAATGAGGGTTGGTCCCGGGAGGCTTT
TCTCAAGCTGTTGCCACGACACCGCCCATGGGAACCCTGGCCACAGAAGCCTCCCGGGGAGTGAGCCAGAGCCT
GGACCGCTGTGCTGATGTGCTGAGGGTGGAGGGAGGGTGGGAGTGTGCAAGGGTGTGTGTGTGTCGCCGGGGGGTG
TTCATGGGCAAGCATGTGCGTGCCTGTGTGTGTCGCTGCCCTCCCCTGCAGCCGTGGTGGTATCTCCCTCCAG
CCCCTTCGCCACCTTCTGAGCATTGTCTGTCCAGCTGAGACTGCCCAGAGACGACAGAGCTCCACGTGGTTTTAA
GGGAGGACCTTTCCCTGGACCTGGGGGTCTCGCCGTATCTCATGACCAGGTGCTAAATGACACGACATGCATCAC
TGCCCTTCGATGACCAACCTCCCTGTCCCCGTCCCGCTGACCTGCCCCCGTGGCGTCTCACGGTGATGTGCTGCT
CCTGACATTGGTGTTCCTGTAGCAAACTACATTCTGGATGGGAATTTTCATGTACATGTGTGGCATGTGGAAAA
TTTCAAAATAAAATGGACTTGATTTAG

5105/5332
FIGURE 4426

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT
GGATGATGATATCGCCGCGCTCGTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC
CCCCGGGGCCGTCTTCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTCAGAAGGA
TTCCTATGTGGGCGACGAGGCCAGAGCAAGAGAGGCATCCTCACCTGAAGTACCCCATCGAGCACGGCATCGT
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCA
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACCGCGAGAAGATGACCCAGATCATGTTTGAGAC
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCTCTGGCCGTACCACTGGCAT
CGTGATGGACTCCGGTGACGGGGTCACCCACACTGTGCCCATCTACGAGGGGTATGCCCTCCCCATGCCATCCT
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCGAGCGCGGTACAGCTTCAC
CACCACGGCCGAGCGGGAAATCGTGCGTGACATTAAAGGAGAAGCTGTGCTACGTCGCCCTGGACTTCGAGCAAGA
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCTGGGCATGGAGTCCTGTGGCATCCACGA
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCTGTCTGG
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCACAGCACAATGAA
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCAC
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTA
GGCGGACTATGACTTAGTTGCGTTACACCCCTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG
CATGGCTTTATTTGTTTTTTTTTGTGTTTTGTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG
CACATTGTTGTTTTTTTAAATAGTCATTCCAAATATGAGATGCGTTGTTACAGGAAGTCCCTTGCCATCCTAAAAG
CCACCCCACTTCTCTCTAAGGAGAATGGCCCAGTCTCTCCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT
CGTGTAATATGTAATGCAAAATTTTTTAATCTTCGCCTTAATACTTTTTTATTTTGTGTTTTATTTGAATGAT
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCCAACTTGAGATGTATGAAGGC¶TTTGGTCTCCCTGGGA
GTGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

5106/5332
FIGURE 4427

GCGGAGGGTGCGTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCCGCCGAGGGACCCGCCACCCACCTC
CCGGGGCCGCGCAGCGGCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG
TTGGGCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC
AGCCACCTGGGCGCGTACCTGGCGGCGGACAAGGACGGCAACGTGACCTGCGAGCGCGAGGTGCCCGGTCCCGAC
TGCCGTTTCCTCATCTGTGGCGCACGACGCGGTGCTGGTCTGCTGACGTCCGAGGCGCACCGGCGCTACTTCGGC
GGCACCGAGGACCGCCTGTCTGCTTCGCGCAGACGGTGTCCCCCGCGAGAAGTGGAGCGTGACATCGCCATG
CACCTCAGGTCAACATCTACAGCGTCACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGCCGCGCCGACGAGATC
GCCGTGGACCGCGACGTGCCCTGGGGCGTCGACTCGCTCATCACCTCGCCTTCAGGACCAGCGCTACAGCGTG
CAGACGCGCGACACCGCTTCCTGCGCCACGACGGGCGCCTGGTGGCGCGCCCCGAGCCGGCCACTGGCTACACG
CTGGAGTTCCGCTCCGGCAAGGTGGCCTTCGCGACTGCGAGGGCCGTTACCTGGCGCCGTGGGGCCCCAGCGGC
ACGCTCAAGGCGGGCAAGGCCACCAAGGTGGGCAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCCAGGTC
GTGCTGCAGGCGGCCAACGAGAGGAACGTGTCCACGCGCCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG
ACCGACCAGGAGACCTTCCAGCTGGAGATCGACCGCGACACCAAAAAGTGTGCCTTCCGTACCCACACGGGCAAG
TACTGGACGCTGACGGCCACCGGGGGCGTGCACTCCACCGCCTCCAGCAAGAATGCCAGCTGCTACTTTGACATC
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG
GCCGCTCGGTGGAGACAGCAGGGGACTCAGAGCTCTTCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTC
CGCGGGGAGCATGGCTTCATCGGCTGCCGAAGGTACGCGGACCCCTGGACGCCAACCGCTCCAGCTATGACGTC
TTCCAGCTGGAGTTCAACGATGGCGCTACAACATCAAAGACTCCACAGGCAATACTGGACGGTGGGCAGTGAC
TCCGCGGTACACAGCAGCGCGACACTCCTGTGGACTTCTTCTTCGAGTTCTGCGACTATAACAAGGTGGCCATC
AAGGTGGGCGGGCGCTACCTGAAGGGCGACCACGACGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC
TCGCTCTGGGAGTACTAGGGCGGGCCGTCCTTCCCCGCCCCTGCCACATGGCGGCTCCTGCCAACCTCCCTG
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCCTTTCAAACCTGGAAACCCAGAG
AAAACGGTGCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCCTCCGCCCCGGTTCCCTACTCCCCCTCGGG
TCAGCGGCTGCGGCCTGGCCCTGGGAGGGATTTCAGATGCCCCCTGCCCTCTTGTCTGCCACGGGGCGAGTCTGGC
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG
AGCCCTGGGCGTGTAGTGTAACTGGAATCTTTGCCTCTCCAGCCACCTCCTCCAGCCCCCAGGAGAGCTGG
GCACATGTCCCAAGCCTGTGAGTGGCCCTCCCTGGTGCAGTGTCCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT
CGGGTGGGCTAGGACTGACCCTTGTGGTGTTCCTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGCAGA
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCCGTCTTCTCCTGTCTCTTTCTTTACCCCTAGCCTGACTG
GAAGCAGAAAATGACCAAATCAGTATTTTTTTAATGAAATATTATTGCTGGAGGCGTCCAGGCAAGCCTGGCT
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGTGCATCTCAGCCCCCTCTTTCCGTC
CTTCCCGTCCAGCCCCAGCCCTGGGCTGGGCTGCCGACACCTGGGCCAGAGCCCCCTGCTGTGATTGGTGCTCCC
TGGGCCTCCCGGGTGGATGAAGCCAGGCGTCGCCCCCTCCGGGAGCCCTGGGGTGAGCCGCCGGGGCCCCCTGC
TGCCAGCCTCCCCCGTCCCCAACATGCATCTCACTCTGGGTGTCTTGGTCTTTTATTTTTTGTAAAGTGTCAATTG
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAAATAGCGAAATAAAATAACTCAGTCTGC

5107/5332
FIGURE 4428

GTCTCTGGGCGGGCCGTGGGAGGCTCCCGAGGTGGGGGCCGGGCGGGATGGCTGCAGCGGGCCGGGGCCGGG
AGCGGGCCCTGGGCGGCCAGGAGAAGCAGTTCCCGCCGGCGCTGCTGAGTTTCTTCATCTACAACCCGCGCTTC
GGGCCGCGCGAAGGACAGGAGGAAAATAAGATTTTATTTTATCATCCAAATGAGGTAGAAAAGAAATGAGAAGATT
AGAAATGTCCGATTGTGTGAAGCTATTGTACAGTTTACAAGGACATTTAGCCCATCAAAACCTGCAAAATCTTTA
CATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTGGATGGTCATGGTTGTTCCGGAATCCT
ATAATTGAAAAACAGAGTAAAGATGGAAAACCAAGTTATTGAATATCAAGAGGAGGAGTTGTTGGACAAGGTTTAT
AGCTCGGTGCTGCGGCAGTGCTACAGCATGTACAAGCTTTTAAATGGTACATTTCTGAAAGCCATGGAAGACGGA
GGCGTCAAGCTTCTGAAAGAAAGATTAGAGAAATTTCTTCAATCGGTATTTGCAAACGCTACATTTGCAGTCATGT
GACCTACTTGACATTTTGGTGGAATCAGCTTCTTCCCGTTGGATAAAATGACTTATTTGAAAATCCAGTCCTTT
ATTAATAGAATGGAGGAAAGCCTGAATATAGTCAAAATACACTGCTTTTCTCTATAACGATCAGCTCATCTGGAGT
GGATTAGAACAAGATGACATGAGAATTTTATACAAATACCTTACCACCTCCCTTTTTCCAAGGCACATCGAACCT
GAGTTAGCAGGAAGGGATTCTCCAATAAGAGCAGAAATGCCAGGAAATCTTCAACACTATGGAAGATTCTTACC
GGACCTTGAACCTCAATGATCCAGATGCAAAATGCAGATTCCCCAAAATTTTGTAAATACAGATGACACTTAT
GAAGAGCTCCATTTAATCGTTTATAAGGCCATGAGTGGGCTGTGTGCTTTATGATCGACGCTCTGTCCACCCA
ACGTTGGATTTTGGCGAAGACTGGACAGCATCGTTGGGCCCCAGCTCACAGTGTGGCCTCTGACATCTGTGAA
CAGTTTAACATCAACAAGAGGATGTCCGGTCTGAGAAAGAACCCAGTTTAAGTTTATCTACTTCAACCACATG
AATCTCGCCGAGAAGAGCACAGTTTACATGAGGAAAACGCCAGCGTGTGCTCACTTCCGTGCACCCGGATTTA
ATGAAGATTCTCGGTGACATCAACAGTGACTTTACCAGAGTGGATGAAGATGAGGAGATCATTGTGAAGCCCATG
AGTGATTACTGGGTTGTTGAAAGAAAGTCTGATCGGCGGGAGCTCTATGTTATTTTGAATCAAAAAAATGCAAAC
CTGATTGAAGTAAATGAAGAGGTCAAGAACTTTGTGCAACGCAGTTCAACAACATCTTCTTCTGGATTGACGG
ATGACGGCTCACCGAGAGCATATCTAAAAAACACTCTGCAAACATTTGGTCCATGCAAGTTAGTGGTCATATGA
CGGACTGCATTACAGGACAAGGGTAAAGCAATACTTGCTTTGAAGAATCACATTTGACTCGGTCTGCTGATCTGA
GGTTTTTAGATTTTAAATATTTATGTGGAATTAATTAAGGTAGTTGGCTATATCGCTATCATTTCATTCTTTTG
ACATTATGTGAATATTTTACTGGAATAAAGACTAATAAATTGTTAAAAGTTTTTAAATTTCTGGTTTGGTGTG
AGTCTCTCTCTGCTGCCTATTTATAGATTACACTGGCCACCAGCTCCGTGACCCAGGCTGGAATGCAATGGCTC
ACTGCAGCCTCAACCTCCTGAGCTCAAGCAATCCTCCCACCTCAGCCTCCCAAGAAGCTAGAACCACATGTACAC
ACCACCACGGTCGGCTGATGTTTTAATTTTGCAGAGATGGGGGGTCTCACTATGTTGCCCAGGCTGGTCTCGAA
CTCCCGTAATCCAGCCATGTAGGAAACCTGAGATGCAGTGGGCCAAGGGGTATGTTAAAACACTGTGACGAGTTC
AGTGCTAAGAAGTGAATGCTCAGGAAATCTTACAGCACGTGCCATCCTAAGCCTGTGTGTGTCTCTCGTGTCT
CTCTACTTTTTCTTCTTCTTGCTGGTGATGGTCTTGCTGGATGGGGACACGGTCACATCCTCCTTGGGAGGGTCC
AGTATGAGGTGAGAGGATGACACGTCTGCCGGCTCCTTGAGCACTGTGATGTCCACCTCATAGTCATGTCTCTTG
GCCTCTTCTCTCTCAAGATGAAGATGTTACGCT

5108/5332
FIGURE 4429

CGAGGCGGATCGGGTGTTCATCCATGAGCGAGCTGAGAGCTCGAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCAGGTGGTACTGAGTCTAAGCACTGCGGTAAAGGAGTTA
GTAGAAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTTATTGAA
GTTTCAGACAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAAGCTCTGAAACATCACACATCTAAGATT
CAAGAGTTTGCCGACCTAACTCAGGTTGAAACTTTTGGCTTTCGGGGGGAAGCTCTGAGCTCACTTTGTGCACTG
AGCGATGTCACCATTTCTACCTGCCACGCATCGGCCAAGGTTGGAAGCTCGACTGATGTTTGATCACAATGGGAAA
ATTATCCAGAAAACCCCTACCCCGCCCCAGAGGGACCACAGTCAGCGTGCAGCAGTTATTTTCCACACTACCT
GTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGGAGTATGCCAAAATGGTCCAGGTCTTACATGCATACTGT
ATCATTTCAGCAGGCATCCGTGTAAGTTGCACCAATCAGCTTGGACAAGGAAAACGACAGCCTGTGGTATGCACA
GGTGAAGCCCCAGCATAAAGGAAAATATCGGCTCTGTGTTTGGGCAGAAGCAGTTGCAAAGCCTCATTCTTTTT
GTTGAGCTGCCCCCTAGTGACTCCGTGTGTGAAGAGTACGGTTTGAAGCTGTTCCGATGCTCTGCATAATCTTTTT
TACATCTCAGGTTTTCATTTACAATGCACGCATGGAGTTGGAAGGAGTTCAACAGACAGACAGTTTCTTTATC
AACC GGCGGCTTGTGACCCAGCAAAGGCTGCAGACTCGTGAATGAGGTCTACCACATGTATAATCGACACCAG
TATCCATTTGTTGTTCTTAACATTTCTGTTGATTGAGATGCGTTGATATCAATGTTACTCCAGATAAAAGGCAA
ATTTTGCTACAAGAGGAAAAGCTTTTGTGGCAGTTTAAAGACCTCTTTGATAGGAATGTTTGATAGTATGTC
AACAAGCTAAATGTCAGTCAGCAGCCACTGCTGGATGTTGAAGGTAAGTTAATAAAAATGCATGCAGCGGATTTG
GAAAAGCCCATGGTAGAAAAGCAGGATCAATCCCTTCATTAAGGACTGGAGAAGAAAAAAGACGTGTCCATT
TCCAGACTGCGAGAGGCCTTTTCTCTTCGTACACACAACAGAGAACAAGCCTCACAGCCCAAAGACTCCAGAACCA
AGAAGGAGCCCTCTAGGACAGAAAAGGGGTATGCTGTCTTCTAGCACTTCAGGTGCCATCTCTGACAAAAGCGTC
CTGAGACCTCAGAAAGAGGCAGTGAGTTCCAGTCACGGACCCAGTGACCCTACGGACAGAGCGGAGGTGGAGAAG
GACTCGGGGCACGGCAGCACTTCCGTGGATTCTGAGGGGTTTTCAGCATCCCAGACACGGGCAGTCACTGCAGCAGC
GAGTATGCGGCCAGCTCCCCAGGGGACAGGGGCTCGCAGGAACATGTGGACTCTCAGGAGAAAGCGCTAAAACT
GACGACTCTTTTTTCAGATGTGGACTGCCATTCAAACCAGGAAGATAACGGATGTAAATTTTCAGTTTTGCCTCAG
CCAACTAATCTCGCAACCCCAAACACAAAGCGTTTTAAAAAAGAAGAAATTCTTTCCAGTTCTGACATTTGTCAA
AAGTTAGTAAATACTCAGGACATGTCAGCCTCTCAGGTTGATGTAGCTGTGAAAATTAATAAGAAAGTTGTGCCC
CTGGACTTTTCTATGAGTTCTTTAGCTAAACGAATAAAGCAGTTACATCATGAAGCACAGCAAAGTGAAAGGGGAA
CAGAATTACAGGAAGTTTAGGGCAAAGATTTGTCTTGAGAAAATCAAGCAGCCGAAGATGAACTAAGAAAAGAG
ATAAGGTAACACGATGTTTGCAGAAATGGAATCATTGGTCAGTTTAACTGGGATTTATAATAACCAAAGTAA
TGAGGATATCTTCATAGTGACAGCATGCCACGGACGAGAAGTATAACTTCGAGATGCTGCAGCAGCACACCGT
GCTCCAGGGGCAGAGGCTCATAGCACCTCAGACTCTCAACTTAAGTCTGTTAATGAAGCTGTTCTGATAGAAAA
TCTGGAATATTTAGAAAGAATGGCTTTGATTTTGTATCGATGAAAATGCTCCAGTCACTGAAAGGGCTAACT
GATTTCTTTGCCAACTAGTAAAACTGGACCTTCGGACCCAGGACGTCGATGAACTGATCTTCATGCTGAGCGA
CAGCCCTGGGGTCATGTGCCGGCTTCCCGAGTCAAGCAGATGTTTGCCTCCAGAGCCTGCCGGAAGTCGGTGAT
GATTGGGACTGCTCTTAACACAAGCGAGATGAAGAACTGATCACCCACATGGGGGAGATGGACCACCCCTGGAA
CTGTCCCATGGAAGGCCAACCATGAGACACATCGCCAACCTGGGTGTCAATTTCTCAGAACTGACCGTAGTCACT
GTATGGAATAATTGGTTTTATCGCAGATTTTATGTTTTGAAAGACAGAGTCTTCACTAACCTTTTTGTTTTAA
AATGAACCTGCTACTTAAAAAAAATACACATCACACCCATTTAAAGTGATCTTGAGAACCTTTTCAAACC

5109/5332
FIGURE 4430

CCGAACGCCCCGAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCTGACCTCTGACGGTTTCTGAGCGTTGGC
CTTTGGCACGCGCTACCCCTTTTGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG
GCGCGCTCTCCGTGTGGAGCTTCCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCCAG
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT
TAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG
ATGTAACCAACATAATCCAAGCGGATGAGCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCTCCCTCTCCCTGCTTGTC
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGCACACGCACTCCTCGGTCAAGAGCGTGCCTG
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCCAAGACTATCAGCTGGGATTCACTTTAA
TTTGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA
TTGCACGTTTCTTGTTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCTTATAGATAGCTGGGTAG
ATATTGCGATTTTTAGTTAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACCTCTGCTC
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTCACCGTAGCAGACGTGGTGCTGTGGTCTGTACTCCAGCAGA
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAAGTATTTTAAAGGGTTTAGATTTTAAGAATGGTGCTCTT
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTTATTTAGGCCAGTTGTCAAGTGTCAT
AAAAGCATCATGTAATTTA

5110/5332
FIGURE 4431A

GTTACTTCCGGGTCGGACGGCGCTAGCTGCAGCATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTG
CGGCCCCGCGCGCGGCCGGCGATGCGAGGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGGGCGACGGGGCTG
GGGCTGTGGCTGCGCCGCCGGCCATCGACTTCCCGCCGAGGGCCCCGACCCCGAATATGACGAATCTGATGTTT
CAGCAGAAATCCAGGTGTTAAAGAACCCCTACAACAGCCAACCTTCCCTTTTGCAGTTGCAAACCAACTCTTGC
TGGTTTCTTTGCTGGAGCACTTGAGCCACGTGCATGAACCAAACCCACTTCGTTCAAGACAGGTGTTTAAGCTAC
TTTGCCAGACGTTTATCAAAATGGGGCTGCTGTCTTCTTTCACTTGTAGTGACGAGTTTAGCTCATTGAGACTAC
ATCACAACAGAGCTATTACTCACTTAATGAGGTCTGCTAAAGAGAGAGTTTCGTCAGGATCCTTGTGAGGATATTT
CTCGTATCCAGAAATCAGATCAAGGGAAGTAGCCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAG
AACTTGCCATCTTAGGAAAAGGTGGATACGGAAGAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATG
CAATAAAAAAATCCTGATTAAGGGTGCAACTAAAACAGTTTGCATGAAGGTCCTACGGGAAGTGAAGGTGCTGG
CAGGTCTTCAGCACCCCAATATTGTTGGCTATCACACCGCGTGGATAGAACATGTTCAITGTGATTTCAGCCACGAG
CAGACAGAGCTGCCATTGAGTTGCCATCTCTGGAAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTG
TTAAAAATGATGAAAGTAGCAGCTCATCCATTATCTTTGCTGAGCCACCCAGAAAAAGAAAAACGCTTTGGAG
AATCTGACACTGAAAATCAGAATAACAAGTCGGTGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAAC
TTGAGTCGACCCTGGAGCTCCAGGAAAATGGCTTGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGC
CACTCAGGCGTAATTTCCACCTAGAGGAGAGTTTCACATCCACCGAAGAATCTTCCGAAGAAAATGTCAACTTTT
TGGGTTCAGACAGAGGCACAGTACCACCTGATGCTGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATT
GGATAGTCGAGAGAAACAAGCGGGGCCGGGAGTATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAATGTTG
CAACAAAAATTTTTCAAGAATTGGTAGAAGGTGTGTTTTACATACATAACATGGGAATTGTGCACCGAGATCTGA
AGCCAAGAAATATTTTTCTTCATGGCCCTGATCAGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGCACAGACA
TCCTACAGAAGAACACAGACTGGACCAACAGAAACGGGAAGAGAACACCAACACATACGTCCAGAGTGGGTACTT
GTCTGTACGCTTCACCCGAACAGTTGGAAGGATCTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGG
TCCTGCTAGAGCTCTTTCAGCCGTTTGGAAACAGAAATGGAGCGAGCAGAAGTTCTAACAGGTTTAAAGAACTGGTC
AGTTGCCGGAATCCCTCCGTAAAGGTGTCCAGTGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACATCAT
CGCAGAGACCATCTGCCATTACGTGCTGCAGAGTGAACTTTTCCAAAATTCTGGAAATGTTAACCTCACCCCTAC
AGATGAAGATAATAGAGCAAGAAAAAGAAATTGCAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAG
GGGTGAGGGATGACGGAAGGATGGGGGCGTGGGATGAAAGTGGACTTAACTTTTAAGGTAGTTAACTGGAATGT
AAATTTTTTAATCTTTATTAGGGTATAGTTGGTACAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTTA
AAGATGTCAGAGTGCCCCAAGCTGCCGTTCCCTTCCCTTCCCTGCCCCACAAGCTCCTTTTCTGAAATTTCTACCT
AAATATTAACCATATGCCTAGTCTCTGAAACTAAAACTTGGACCTCATCCTCAATTATTTCTCCTTTCAACTC
TGTTGACCCTCTGTCTGGTCTTCTCTAGAAGGTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCC
CAAGCCCGGGCCTGCACATACTCACTGGACTGTTCCAGTTTTGACAGCTGCCAGTCTTCCCTGCCCTTTTACACT
GCAGCTGAAGTTTATTACCTGAAGGACGCCTCATCTTTTATTCCTTGGCTCCAAACCTTCTGCTGCCTCTAAGA
TAAAAGCTCAACTTCTTAACAGTGACAGTGTGCAACTTCCAACCTTTTTATCTGTTCTCTCCACCTTCAGTTTA
GCGTCATTCCAAAACCACACCCCTTGCAAAGCTTTGTACTCCGCACCCAGATGATCTCCAGGCAGCTCAGATCTC
TTTCTGCTTTTGGCCTGCACTGTTCCCGGTACTTCTCCTTTATTGTAGCACTCAGCTCCCCAGCCAATCTGT
ACATCCCTCAGAGGCAGCGATCTGATGAATTGGTTTTTGAATCCAGAAAGGGTCTGCCATGGAGTTGGCAGTCA
TCACGGTAGATGGCGTATGATTTTGCTGAATTTTAAATAAAATGAAAACCATAAATTACATGATGCTTTTATTGA
CACTTGACAACCTGGCCTAAATAAAAAGACTCTGACTCTAATACAAGTCCCTTACTGATAATAGGCATGAAAGAG
CACCATTCTTAAATCTAAACCCTTTAAATCAGTTACGGCAATTCACTTAAGGAGCTTGAGGGCCGTGTTAAAA
GGAGCCAGGTTTTACAAGACCTCATCCACCTCTGCACATTGGCTGGCACTGTCACACTGCAGCCTCCGATCTGC
TGGAGTACAGACCACAGCACCACGTCTGCTACGGTGAGTTTCAATCCAGCGAGCCAAGGGCTCTTCCCAAGAGCA
GAGTTTCATGGAGCGGAAAACAGCGGCTTTTTCTTTACTGCTTCCCTCTTTTAACTGAAAAATCGCAATATCTACC
CAGCTATCTATAAGGGTTGCGTTGACAGCATTATGCTTCTGGCCAAACAGAGAGAACAAGAAACGTGCAATGTTT
CCTTCGCCTTCGATGGGGCAGATCGTCTGGATGCTGAATTTTCATCTGCGTCTTCGGCACTGAAAAGAAAAACAC
GCCAGGTAGCATACCAGAGCAGCCCTGAGGGAAGTACTCGCAGTGGGGAAGGGGACAGTCACCAACACCAC
AGACTGATGACATGGGAAAGGGTGTTCAGAAAGAATCATCATTTTCAGTCTGTCTCTAAGATGCTTACTACT
GAAAAGGGTTTAAAGTGCAAACTATGTTAAAAAAGTAACCAAGAGTCATTCCTGGTATTTGATTATGACACTTCT

5111/5332
FIGURE 4431B

GAAGCTAGAAGGGACCTCAGACCACCTGCTCCAATCCCTGCTGCCTAAGGTTTTGGGGGCTGAGGGCTGGAAACC
CAGGAGCTGCATCTCCCAGGCTCTTGGCCTCATAATCGCCTTCTGTGAGACTGAGGGCAATTAAGATATGAATGA
CATGAACTCGCTTATCTCCATATCAACATAAACCAGAAGAGGCATACATCTGTGGGATAGTCAATACATAACATC
CTATCTTTATATGGCCATATGAGAAGATAACTTCAGTGTCCCTATGATGGTAAGTTCTTGAATGTGAGGGCAAGA
TGGCTGTGATAGCCATGACTCCCCGCTTTGCCTGGTTGGACAGAACCCCTTCCCCAAATGCTCACAGTCCCCC
CTTGA'GCTGTGTCTCACTCAGAGACCCTAAATTTTGCAGACGAACAAGGGCATCTTTGCGTTGCTTCATCTCTGC
TCCTCCTCTAGAACTATCCACAGGCTTTCTAGACTTAGAATATCTGACCTGATGCAAATCGCTATGTGGCCAGT
ATGCCACAGAATGTCCTAAACCCTTGCTGCCTCTTATCAAAACCATGTTGCACATCTCATCATATAGTACAGCTA
ACCCTTGAACAGTGGGGGGTTAGGGACACTGACCCCGACTGCTGTGCAGTCGAAAATCCACATAAACTTCTG
ACTCCTTCAAACTTAAGCACTAATAGCCTACTATTTCATGGGAAGCCTTACCCATCACAGTTGATTAACACGTTT
TGTATGGTCTGTATATTATATGCTATATTCTTACAATAAAGTTGAGAAAATGTTAAGAAAAT

5112/5332
FIGURE 4432

CGGCCAGGCTGGTACAGGCGGCTGCTCGCGGAGGCCTTCTCCGAGCGTGACGTGCGGACTCCGCTCCACTGCGG
CCCGCCCGCCCGCCGGTCTAGCCGCCGCTCCTTCGCTCCCTGAGCACGCCAGGCGAGGGTCAGCTGCCGGGGCG
ACGCGGCGCGGAGAGGGCGGGCGGGGGGCTGTGGGAGCGCCGGTCTCTATATGGCGGCGGCTCTGTGCGGCCTG
GCTGTCCGGCTCTCGCGCTCGGCCGCCGCCGCTCCTATGGGGTCTTCTGCAAGGGGCTGACTCGCACGCTGCTC
ATCTTCTTCGACCTGGCCTGGCGGCTGCGTATCAACTTCCCTACCTCTACATCGTGGCTTCCATGATGCTCAAC
GTCCGCCTGCAGGTTCAATTGAGATCCATTGAAGGCCCTCCAGACTGACGAAGGCGTGACCTCAGGCCACCG
CATCCAAGAACACGAAGCATGAGGGACAGAAGAGGGGCCCTCGGCACCTGCCTGGCACAAGTGCAGCAGGCCGGA
GGAGGTGACTCGGACAACTATCATGCAGCCTTAAGAAAAAGAAATGCCGGAGGGGCCCTTGGCCTGCAGATGCACCC
TCCTGGATGAATAAGCCTGTGGTTGATGGAATTACAAAAGTGAGGCATTATCACTGGAATGAGAAAGGATCCG
AGCGGGGCTGGCCTCTGGCTTACAGTGGCGGCCAGTGCTTCCATATGTGAGAGAATCAGTAAGAAGAAATCCA
GCCTCAGCAGCCACTCCGAGCACAGCCGTGGGTTTGTTCCTGCTCCAACAGAGTGTGTTGCTCGGGTGTCTGCTG
AGTGGTGTGAAGCTCTGGGGCGGCGAGACTGGCTGGGAGGAGGGCCAGGGCCACTGACGGCCACAGAGGACAG
TGCCCCAAAGGAGAGCCTCGGGTGTACGACTGCCACGCCATCAAAAAGTGCCGGAATGGGAAGTTTTTCAGGAT
GACCCACCAAGTGCTTTTCCCAAGGGTCTGGGCTCTGAGTTGGAACCCGCTTGCTGCACTCCATCCTGTCTGCA
ACGCTGCACGTGTATCCCGAAGTGCTCCTGAGTGAGGAGACAAAACGCATTTTCTTGACCGTTTAAAGCCCATG
TTTTCAAAGCAAACAATAGAATTCAAGAAATGCTTAAAAGCACCTCAGATGGTCTGCAGATAACACTGGGGTTA
CTGGCTCTGCAACCTTTTGAATTAGCAAATACATTATGCCATAGTTAAGGTACAAGCAGAACAATACCAATAGAT
TAATTTTAAGAGTTGTCTTAGAATGATTTCTTTCGCATTAAGTCTGGATGCAAACTGTGCAGCCCTTAGGTTCT
GCTGTAGTTTTGTACGACCTGGCAGACTTAAAGTAAATTGAGTTTAAATTCAAAGCCAGTTGATGCGGAAGGAAC
TTTTTTGGCATGTGTAAATTGTGCTTTAAAAGACATATAAAGAATTGGGAAACATTTTCAGGAGACGATCATAGC
CTGTATAAAATACCAGATTAGAACATACGGATTTACCATGAAGTTCTGTCTTCAACATCCATTCTAAAGGGCTACT
GTCCCAAATCCTGTGTGTCCTTTTGACTTGTCTGATCACCCAATGGAAGTGGATACTTGTAAGTCTACACCACT
GTACTTGGCGTTAAATCTTGCTGAATTCGTGGTAAGCTGTTACCATGTCTACATTTTGTAGAATGATTTTGGTCT
GCAGCAAAATTCGATTTCACTTCTCATACCCCTTTCTTCCACTTGAAATGCAATTTAGACAGAGGCCCTGTGGT
GAAAGTTGCAATATTAAGTTTACCTTTAGAAGATCCCTTCTCAAACCTCAGAACCCTAGCAGTGTTACCTTAAACA
AAAATGAGCTCGAGAAAAAAGTAGCTCAGTTACAGAGAAGCAAATCGAGTTATTTCCACATAAAAAGTTTCCCA
GATTTCTAAGATTGCAGTATCCTGTACCCTAAAATTTTCAAGGTGACTCCTGTTGTCGTCTGTTGATAACTTTA
ATAAAGGTCATTTAAGGACATAAGTTTTTAAAGACTCCCAAAGTGAAACTTAAACATTTTTCGGGATTATCGATTG
CATATATCAGTTTATGCTGTGTGCTGAATTACTATGCCATGTGCTATTTTAGTGTTTGGGGAAAATGAAAAATAA
AATTTGTTCTTTAGCTT

5113/5332
FIGURE 4433

CTGCCGGGCATCGGCTTCCCGTCCGCCGCGCCCCGAGCCCGCGCTTCCTATCTCAGCGCCCTGCCGCCGCCGCC
GCGGCCCAGCGAGCGGCCCTGATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAAACTTGC
CTACTGATCAGTTACACAACCAATGCATTTCCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAAT
GTTATGGTAGATGGAAAACCGGTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGC
CCCCTATCCTATCCGCAAACAGATGTGTTCTTAATTTGCTTTTCCCTTGTGAGTCCTGCATCATTGAAAAATGTC
CGTGCAAAGTGGTATCCTGAGGTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAACATAAATTGAT
CTTAGGGATGATAAAGACACGATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTA
GCCATGGCTAAGGAGATTGGTGCTGTAAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTG
TTTGACGAAGCGATCCGAGCAGTCCTCTGCCCGCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

ATGCTCAGCCCTCGTTCTTGGTCCTGTCCCTTGGAACCTTTGTACGCTTTGCTCAAAAAAAAAAAAAAAAAA
AAACAAAAAA

5114/5332
FIGURE 4434

GC GTT TGC GCT TGA GCG CCG ATA AATT TGG TGG CGG CGT CCG GAG GGT GCT GGT TTT GTT TCT CGG TGA ACG GCG CGC
GGG GTCT CTCT CCG AGT GCG AGCT ACG GGAC CTT CGCC ATG CCG GGG GAT GGT ACT CTT CGG CCG GCG CT GGG CCA T
CG CCAG CGAC GACT TGG TCT TCC AGG GTT CTT CGAG CTGG TCG TCG AGT GCT GTG GTG GAT TGG CATT CTG AC
GTT GTAT CT CAT GCA CAG AGG AAA GCT GGA CTGT GCT GGT GGA GCG CTT GCT CAG CAG TTA CTT GAT CGT CCT CAT
GATT CTCT TGG CAG TTGT CAT ATGT ACT GTGT CAG CCA TCAT GTGT GT CAG CAT GAG AGG AAC GATT TGT AAC CC
TGG ACC GCG GAA GTCT ATGT CTA AGCT GCT TTT ACAT CCG CCT GGG CGT GTT TTT TCC AGA GAT GGT CT GGG CCT C
TCT GGG GGT GCG CT GGG TGG CAG ATGG TGT CAG TGG CAG CAG GAT TGT AAA CCG CAT CAT CGC AAC CGT CGT
GGT CAG TTGG ATCAT CAT CGT GCC CAG TGG TTT CCA TTAT CATT GTCT TTT GACC CTCT TGG GGG GAAA ATGG C
TCC ATATT CCT CTGCC GGG CCG CAG CAC CTGG ATAG TCAT GATT CAAG CCG ATTACT TAA TGG CCT CAAG ACAG C
AGCT ACA AGCG TGT GGG AAA CCA GAAT CAAG CTCT GTGT GTT GCA TTGG GAA AGAC GAC CATA CTGG GTT GC
TTTT TCG AGTAC GGC CAG AGCT TTT TCT CAAC CTACT TTT CAG ACAC AGAT CTGG TGG CCG CAG CAG ATT GCG GCG GGG
CCT CGC CTG CTT CAT CAG CAAC AGG ACA ATAT CAG GAA CAAC CAAG AGC CTGCC CAG GTGG TCTGCC ATGCC C
AGG GAG CTCCC AGG AAG CTG ATCT GGAT GCAGA ATTAG AAA ACTGCC ATCATT ACAT GCAG TTTGC AGC AGCG GC
CTAT GGG TGG CCCC CTCT ACAT CTAC AGA ACCCC CTAC GGG GGTGT GCAG GATTGG TGG TGA CTGCT GCAGA AG
CAGA ACCAC AGACT ATG ACT TGG TCG GAG GCG ATCAG CTCA ACTGT CACT TCGG CTCC ATCCT GCAC ACCAC AGG
GCT GCAG TACAG GGA CTT CAT CCAC GT CAG CTTC ATGACA AGG TTTAC GAG CTGCC GTTTT TAG TGG CTCTG GA
TCAC AGG AAA GAG TCTG TTTG TGG TCGT GTG AGGG GACC ATGT CTCT GCAG GATGT CTTAC GGAC CTGT CAG C
GGAG AGT GAG GTGCT GGA CGT GGA GTGT GAG GTGCAG GACCG CTTGG CACACA AGGG TATTTCT CAAG CTGCC AG
ATAC GTTTAC CAAC GACT CATCA AC GAC GGG ATTTT GAG CCA AGC CTT CAG CATTGCT CCTGAG TACCG GTGG T
CATAG TGG GCG CAC AGC CTGCC GGG GCG GGG CGCC CTGCT GGG CACC ATGCT CAG AGCC GCTAC CCG CAG GT
CAG GTGCTAC GCCTTCT CCCC ACCCG GGG GGTGT GGA GCA AAG CTCTGC AGGA ATATTCT CAG AGCTT CATCG T
GTC ACTCGT CCTGG GGA AGG ATGTG ATTCC AGG CT CAG TGTG ACCA ACTTGA AGATCTGA AGAGA AGA ATCTT
GCG AGTGG TCG CGCA CTGCA ATAA ACCCA AGTACA AGATCTT GCTGCAC GGT TGTGG TACGA ACTGTTTGG AGG
AAAC CCAACA ACTTGG CCA CGG AGCTGG AC GGG GGG CAG CAG GAAG TCCTGAC ACAG CCTCTTCTGG GGG GAG CA
GAG CCTACTGAC GCG CTGG TCCCC GGCCTAC AGCTTCTCC AGCG ACTCCCC ACTGG ACTCTTCTCC CAAGTAC CC
CCCTCTCTAC CCTCCCC GGCAGG ATCATCC ACCTGCAG GAGGAG GGG CGCCTCG GGG GCG GTTGG CTGCTGCTCTGC
TGCTACT ATAG CGCA AGTGG TCACAC GAAG CGGA ATT CAG CAAA ATACTCATAG GTCCGA AGATGCTC ACCGA
CCACATGCC AGACATCTG ATGCG GGCCTTGG ACAG CGTGG TCTCC GACAG AGCGG CTTGCGTCTCTGTCC AGC
ACAAG GGGTCTCC AGTGTGG ACGTGG CCT TGAC CAG GGG CCA CTG GAA ACTGTCC AGGAAC GATGG ACTCAC GCTT
TTGTCTTAA ACTGACTTACCATCC GAGG AGTTCCCATGAC GCG CAAAACAG CGAATGTCCATCAACAG GAATCGG
ATGGGAACAGA ATTCCATGG TCTCAATGACTTAA GTTTATGG GAAGTCATTGTGG CCATAATGG TAGCAGA AGTA
GTGAGCAGCTCAGGTGATAGGAC GACTCCTGAG ACCCAGCG ACCGTGGAGACAG CCTCGGGAAG CCCTGG CCGG
TGGATGGATCCCTTGG CTGTCTGAG GACTGCTCCAGA AGTGC GGG AATCCAG GGG CCA CCGCAG AAGACCGTGAAC
AGTTCTTTAG CCTCCAC CCCC AAGG CAGCTCTTTT CATCCA ACTCAG TTTACAG GCGTGG TTTGTTTTCAAAC
TGGGCTTCTTGATGTACAAATGGA ACTGTGG TGAGGG TGCGGG CTGGG TTTTCTCTGG GCGTCA CCAAGGGC
AGCCCTGGGCTCTGGCTGGGGATGAAGACGAAA CCGGATCGGG AAAAGTAAGTGGAG CCCCCG CCGG CCGAGCC
ACAG CCCCCCAACTGCCTATTTCCACTG CCGAGTTGTTTGTCCACATCAGGAGTTGCTGATTGAATCTTGTCTAC
TCTTCTGGCTCTGGGGTCGGCCAGTGATT CAGGAGTTGAAACAATAAAGCGCGCTCAC

5115/5332
FIGURE 4435

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAAC
CGTTACCTGGATCTTTTTACTTCAATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCTGCTCC
TATGCCACAGTGTACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTATTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATAACTGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAACT
TAACTCTTTTGTGTCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTATTACTGTGTACAAAGATTTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATATATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTGGCAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

5116/5332
FIGURE 4436

ATTAATTACGCCAAGAAAATCACTGACGACCTCTCGGCAAGCCCCTCCCCAGCGGTGTGATCCTGGACCCAAGGG
CTTGGGTGATGCCCACACAACACTTAAGGACAGGTCTGACCCGACCCCACTACACCACACCTAGAGCCCGGTCTT
GCACGGGCAGGGTGGGGAGCCGAGTGACCTCTCCCGGCGCCCGCCCCACCTCCCGAGCTGGCTGGGCTGCCACGT
CAGGCGCAGCCGGCCACGATCCTGCCCATCCTCCTCCCGCCCGTCCCATTTGATTTCGCGGGTTTCTTGCAACCCCG
GGACCCCCACGGGAGATCCCGGCCGAGAAAGCGCCCCATTCAAGCCCAGAGAGGGGCCACGCCTGTCGGACCCC
CCGTCCCACGCCAACTTTTTAGACACAGCAGGCCCCCGCGCAGCCGGGTGCGCTCCGACAGCTCAAGTTCACGCG
GGGACCGACTGCAGAGCGGGGTCCCGCGCTGCGACACCCGGCCCGAGCCACCCCGAGGGCCCGCAGGCCGCTG
CCCCCGGGTCCGGGCACCCGTTAGGCGCGCCGAGGGGGTGTGTGCGGCCGGCGCAGGCCCGCGAGCCGTGGGG
TGGCCGAGGTCCGGCGGGTCTCGGCGAGACCCGGCCCCACGCCCGAGCCTCTCCGGGCCCTCCCCCGCCGCTCA
CCGGCGCAGGAGCGCGTCTTCCAGATCTTCAGCAGCAGGATGACGATGGCCGCCAGGTGGGACAGGTCCCCAGTC
AGCCGGAAAAATGTTTCATGGCGGCGCGCGGTGGCGGTGCGCGCAGCGCGCGGCCCGGGGCTGGGCGGCTCAG
GAGGCGGCGGCCCTGAGAGGAAGCGGCGAAGATGGCGAGATCGCCCGCAGCTGGCCAGGGACGTGGCCGAACCT
GCCGGCGCGCGCGCGCGCGGGGCACCCCTGGGAGAGCGGGGCCAGGCCCGGCCCTTAAAGGGGCGCGCCCCAGC
GCAGGCTCAGCAGGTGAGCTCGCAGGGACTCCCTTGCAAGAAGACCCCGGACTCTGCCAAATTTTCCCTGCCGGG
TTTCCGGCTTCTCCTCGGGTGCCAGCAGTTTCTTTTACTTTTTTGAATTAACACTCCCTGGGGATCTTTTCTTTC
CTCCACATATCAAAAGAGCTCTACAGGCCTATTGTATGAAAAAGTGTAAGAGAAAGGCCGGGTGCGGTGGCTCAT
GCCTGAAATTCTAGCAGTTTGAGAGGCCGAAACAGGAGGATCCTTTGAGCCTAGGAGTTCGAGACCAGCCTGGGC
AACCTAATGAGAGTTCTCCACCCCCCGTCTCTACAAAAATTTTTTAAAAAATTAGCCAGGCCTGATGGTGGGTG
CCTGTAGTACCAGCTATTTTAAAGGCTAAGGCAGGAGGATTGCTTGAGCCCAGGACATCGAGGCTGCGGTGAACC
ATGATTGTACCACTGTATTCCAGCCTGGACGACTGAGTGAGACCCTGTCTCAAACAAAACAAAACAAAACAAAAC
AAAAAAAAGTACAAGAGGAAAAAAATTGATTTCTGATTGCCTCACTCAAGATAAGGTCAACATTGAAGGTGGAGG
TGGAAGATGCAGTTTATGTAGGGGTCTGAAGATTTTACCATTCTGGGGACTGTCTTTAAGAAAGAGAATCCAAAA
TTAGGTAGAAAAGTGAACGTCTGACCGGGCGCGGTGGCTCATCCCTGTAATCCCAGCACTTAAGGAGTACGAGAC
GGGAGGATCACGAGGTCAAGAGATCGACAGCATGCTGGCCAACGTGGTGAAACCCCGTCTCTACTGAAAATACAA
AAATTAGCCGGGCGTGGTGGCACGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGGAGAATCGCTTGAA
CCTGGGAGGAGAAGGTTGCAGTGAGCTGAGATGGTGCCACTGCACTCCAGCCTGGCGACAGAGCAAGACTCCATC
TC

5117/5332
FIGURE 4437

AAGTCTCGTATCGCGCCCGGAGGCGCCGGAGCCAGCGGCTGGCGCCAGATCCAGGCTCCTGGAAGAACCATGT
CCGGCAGCTACTGGTCATGCCAGGCACACACTGCTGCCAAGAGGAGCTGCTGTTTGAATTATCTGTGAATGTTG
GGAAGAGGAATGCCAGAGCTGCCGGCTGAAAATTACCCAACCAAGAGAAATCTGCAGGATGGACTTTCTGGTCCT
CTTCTTGTTCTACCTGGCTTCGGTGCTGATGGGTCTTGTTCTTATCTGCGTCTGCTCGAAAACCCATAGCTTGAA
AGGCCTGGCCAGGGGAGGAGCACAGATATTTTCCTGTATAATTCCAGAATGTCTTCAGAGAGCCGTGCATGGATT
GCTTCATTACCTTTTCCATACGAGAAACCACACCTTCATTGTCCTGCACCTGGTCTTGCAAGGGATGGTTTATAC
TGAGTACACCTGGGAAGTATTTGGCTACTGTCAGGAGCTGGAGTTGTCCTTGCAATTACCTTCTTCTGCCCTATCT
GCTGCTAGGTGTAAACCTGTTTTTTTTTACCCTGACTTGTTGGAACCAATCCTGGCATTATAACAAAAGCAAATGA
ATTATTATTTCTTCATGTTTATGAATTTGATGAAGTGATGTTTCCAAAGAACGTGAGGTGCTCTACTTGTGATTT
AAGGAAACCAGCTCGATCCAAGCACTGCAGTGTGTGTAAGTGGTGTGTGCACCGTTTCGACCATCACTGTGTTTG
GGTGAACAACCTGCATCGGGGCCTGGAACATCAGGTACTTCCTCATCTACGTCTTGACCTTGACGGCCTCGGCTGC
CACCGTCGCCATTGTGAGCACCACCTTTCTGGTCCACTTGGTGGTGATGTCAGATTTATACCAGGAGACTTACAT
CGATGACCTTGACACCTCCATGTTATGGACACGGTCTTTCTTATTACAGTACCTGTTCTGACTTTTCCACGGAT
TGTCTTCATGCTGGGCTTTGTCGTGGTTCTGAGCTTCCTCCTGGGTGGCTACCTGTTGTTTGTCTGTATCTGGC
GGCCACCAACCAGACTACTAACGAGTGGTACAGAGGTGACTGGGCCTGGTGCCAGCGTTGTCCCTTGTGGCCTG
GCCTCCGTGAGCAGAGCCCCAAGTCCACCGGAACATTCACTCCCATGGGCTTCGGAGCAACCTTCAAGAGATCTT
TCTACCTGCCTTTCCATGTCATGAGAGGAAGAAACAAGAATGACAAGTGTATGACTGCC

5118/5332
FIGURE 4438

GGAGGAGGAAGAGGTGGAGCTGGAGCTCATGCGGTGGACCTGGGGTCAGAGCAGGAGCTGGAGCAGCAGCGGCA
GGAGTTGGAGCGGCAGCAGGAGCTGGAACGGCAGCAGGAGCAGCGGCAGCTGCAGCTCAAAGTGCAGGAGGAGCT
GCAGCAGCTGGAGCAACAGCTGGAGCAGCAGCAGCAGCAGCTGGAGCAGCAGGAGGTGCAGCTGGAGCTGACCCC
GGTGGAGCTAGGCGCCCAGCAGCAGGAGGTGCAGCTGGAGCTGACCCCCGTGCAGCCGGAGCTGCAGCTGGAAGT
GGTGCCAGCCGCAGGGGGCGGCGGAGCGGCGGTCCCGGGGGCTCCGGCCGCGGTTCGTGGTGGCTCCCCGGGCTA
CGTGGTGGTGCAGGAGCTCATGGTGCTGCCCGCCGTGGCAGCGCCGGCCGTGGTGGCCATCCCGGGCCCGGCAGG
CAGCGCGGCGTTGACCCCTGCACGGCAGCGGCGGCGGCGCGCTCGGGACCGCCGACCATCTGCGGGGAGTG
CGGCAAGGGCTTCAGCCGCAGCAGGACCTGGTGCGCCACCAGGCCACGCACACGGGTGAGCGGCCACACCGCTG
CGGCGAGTGCGGCAAGGGCTTCTCGCAGCACTCGAATCTGGTGACGCACCAACGCATCCACACGGGCGAGAAACC
CTACGCTGCTCCTACTGCGCCAAGCGCTTCAGCGAGAGCTCGGCGCTCGTGACGACACCAGCGCACGCACACCGG
GGAGCGACCCTACGCCTGCGGGGACTGTGGCAAGCGCTTCAGCGTCTCCTCCAACCTGCTGCGCCACCGGCGCAC
GCACTCGGGCGAGCGGCCCTACGTGTGCGAGGACTGTGGCGAGCGCTTCCGACACAAGGTGCAGATCCGCCGCCA
CGAGCGCCAGCTGCACGGCGCGGGCCGCTCCAGGGGCTCGGCTGCTGCGCGCCTCGCGGCCGGCGGCCCTCGG
TGGCCAGCCCGCGCGGAGCAGGCCGCTACAGCCACTGCGCCCGCAGACAAGGCGCTGTGAGGGCCGTGATCGGG
GCTGCCTGGCCGGGAGGGGACCCCCACCCGCTCCACCTGAAAAGCTCCTTGACCCGGGTTTCATGGGCGCTGGA
GGCGTCTTGAATATCCCTGGAGTAAAAGGCTTCCACCATCATCATCATCATCTTCCGGATTCCCTGAGAAA
ATACCAGGTTACAGATTTACCGCCAGAAAAATCCATCCGCCAAAAGAGAAGTGGACCGGGGCTGAAACAGCAC
ACGGGACACGTTTGTCTGCCCTTTGAGGGGTCTGCCAAAGGTTTTCCCTCCGGGAAAAGTGGACTTACTACGAAC
GAGGAAAAACCCCAAGTGGCGAGACGATTAATGACACTGGCCGAGGACTGGACACCCACCAGGGAATCAAGACGT
GGTGAGACACACGTGAAAAATCTCGATCCTGGTGAATATGATCGCAAGGAGAAATTCGGGAGGAAGCAAACTT
GTTTGCACTATGTAGAACTGACCAAGGCATCGAATCGTCCTCAGACACTGTGCCATTGCTGGGGCTGGGGAAAG
AATATCTGAGACGACGTTTGGGAGCAATGCTCTTTACCACGTTACCAAGTCGTCTGGGGCAGGGGTTGTGAGCT
GCAGCAGTTGCTGGTGCCTTGTGGGAAGGTGGGGCAGGGAGGAGGCTGCCCGCCACCTCTGCCCCAGTCACTTC
CTGCTTGACCTGACTCTTCACATGTGGCTGCTTAATTCCTGCCCTCTCCCCCAGCTGCTTCTCTTTACTAAC
ACACCTGCTACATTTTACACATGTGTTGGTAAGTGAGAAACAGAAACGAAAAATAAATTAAATGTCAG

5119/5332
FIGURE 4439

TACTCTAAATGAAGAAAGTCTTTATCAGAAAAATTCGTATTTTGGAGAAACCTTTTGAATATATTGAATGCCAGAA
AGCCTTCCAAAAGGACACTGTTTTTGTAAATCACATGGAAGAAAAGCCCTATAAGTGGAATGGATCTGAAATAGC
CTTTCTCCAGATGTCGGACCTCACTGTACATCAGACATCTCATATGGAAATGAAGCCCTATGAATGCAGTGAATG
TGGGAAATCCTTCTGTAAAAAGTCAAAATTTATTATACATCAGAGGACTCACACAGGAGAGAAACCTTACGAATG
TAATCAGTGTGGGAAATCCTTCTGCCAGAAGGGAACCTTACTGTGCATCAGAGAACACACACAGGGGAGAAGCC
CTATGAATGTAATGAATGTGGGAAGAACTTTTACCAGAAGTTACACCTCATTTCAGCATCAGAGAACTCACTCAGG
AGAGAAGCCCTATGAATGTAGTTATTGTGGAAAATCCTTTTGGCAGAAGACACACCTCACACAACATCAGAGAAC
ACATTTCAGGAGAGAGACCTTATGTTTGTCACTGTGGGAAAACCTTCTCGCAGAAGTCAGCACTTAATGACCA
TCAGAAAATTCACACAGGTGTGAACTCTACAAGTGTAGTGAATGTGGGAAATGCTTCTGCCGCAAGTCTACTCT
CACGACCCACCTGAGGACCCACACAGGAGAGAAAACCGTATGAATGTAATGAGTGTGGAAAATTCCTTCTCTCGGTT
GTCATATCTCACTGTACATTATAGAATCATTTCAGGAGAGAAAACCTTATGAATGTAATGAATGTGGAAAACCTT
CTACCTGAATTCAGCCCTCATGAGACATCAGAGAGTGCACACAGGAGAGAAAACCTTACGAATGTAATGAATGTGG
AAAGTTATTCTCCAGTTGTCATACCTCACTATCCATCATAGAATCATTTCAGGAGTAAAACCTTATGAATGTAG
TGAATGTGGGAAAACCTTCTACCAGAACTCAGCCCTTTGTAGACATCGGAGAATACACAAAGGAGAGAAGCCCTA
TGAATGCTATATATGTGGAAAATTCCTTCTCTCAGATGTCATACCTCACTATACATCATAGAATTCATTTCAGGAGA
GAAGCCCTATGAATGTAGTGAATGTGGGAAAACCTTCTGCCAGAATTCAGCCCTTAATCGACATCAGAGAACACA
CACAGGAGAGAAAAGCCTACGAATGTTATGAATGTGGGAAGTGCTTCTCTCAGATGTCCTATCTCACTATACATCA
TCGAATTCATTTCAGGAGAGAAAACCTTTGAATGTAATGAGTGTGGAAAAGCCTTCTCTCGGATGTCATACCTCAC
TGTACATTATAGAATCATTTCAGGAGAGAAAACCTTATGAGTGTACTGAATGTGGAAAAAAATTCATACCACAAATC
AGCATTCAACAGCCATCAGAGAATTCATAGGAGAGGCAATATGAATGTAATAGATGTGGGAAGGCTTCTCTGAAG
TCAGACCTCATTATATATCAGAGAACCCTTTTCAGTATAGTGAATCAGAACTCCTGCCTGAAGTCAAACACCTTG
TACATCAGAGAGTTCACACAGGTTAGTGTGGACATCCCCCTTGTGTGTTGGACTCATAATCTGAAGACTCACAGAA
TGGAAACCATGATTATAACAAGACCACATGGTATAACAATACTAGACTATAGACAAGTAAAAATTTATAAATATT
AAGAATGTATATACATGTCACCATGGATTGGAAGTGTGTTGTCATATCAGGGAAATCATAGCCAAGGGGAAATCTA
TCAGTATAAGGAATGTGGAAGACATAATCCTTTGGAAGTGTAAATACTAAAAGATATGTTTCTGATACAATAGC
AACTTG

5120/5332
FIGURE 4440

GTCTCTGGGCGGGCCGTGGGAGGCTCCCGAGGTGGGGGCGGGGCGGGATGGCTGCAGCGGCGGCCGGGGCCGGG
AGCGGGCCCTGGGCGGCCCAGGAGAAGCAGTTCCCGCCGGCGCTGCTGAGTTTCTTCATCTACAACCCGCGCTTC
GGGCCGCGCGAAGGACAGGAGGAAAATAAGATTTTATTTTATCATCCAATGAGGTAGAAAAGAATGAGAAGATT
AGAAATGTCCGATTGTGTGAAGCTATTGTACAGTTTACAAGGACATTTAGCCCATCAAAACCTGCAAAATCTTTA
CATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTGGATGGTCATGGTTGTTTCGGAATCCT
ATAATTGAAAAACAGAGTAAAGATGGAAAACCAGTTATTGAATATCAAGAGGAGGAGTTGTTGGACAAGGTTTAT
AGCTCGGTGCTGCGGCAGTGCTACAGCATGTACAAGCTTTTTAATGGTACATTTCTGAAAGCCATGGAAGACGGA
GGCGTCAAGCTTCTGAAAGAAAGATTAGAGAAATTTCTCCATCGGTATTTGCAAACGCTACATTTGCAGTCATGT
GACCTACTTGACATTTTTTGGTGGAATCAGCTTCTTCCCGTTGGATAAAATGACTTATTTGAAAATCCAGTCCTTT
ATTAATAGAATGGAGGAAAGCCTGAATATAGTCAAATACACTGCTTTTTCTCTATAACGATCAGCTCATCTGGAGT
GGATTAGAACAAGATGACATGAGAATTTTATACAAATACCTTACCACCTCCCTTTTCCCAAGGCACATCGAACCT
GAGTTAGCAGGAAGGGATTCTCCAATAAGAGCAGAAATGCCAGGAAATCTTCAACACTATGGAAGATTTCTTACC
GGACCCTTGAACCTCAATGATCCAGATGCAAAATGCAGATTCCCCAAAATTTTTGTAAATACAGATGACACTTAT
GAAGAGCTCCATTTAATCGTTTTATAAGGCCATGAGTGGGCTGTGTGCTTTATGATCGACGCTCTGTCCACCCA
ACGTTGGATTTTTTGGCAAGACTGGACAGCATCGTTGGGCCCCAGCTCACAGTGCTGGCCTCTGACATCTGTGAA
CAGTTTAACATCAACAAGAGGATGTCTGGGTCTGAGAAAGAACCCAGTTTAAAGTTTATCTACTTCAACCACATG
AATCTCGCCGAGAAGAGCACAGTTCACATGAGGAAAACGCCCAGCGTGTGCTCACTTCCGTGCACCCGGATTTA
ATGAAGATTCTCGGTGACATCAACAGTGACTTTACCAGAGTGGATGAAGATGAGGAGATCATTGTGAAGGCCATG
AGTGATTACTGGGTGTTGGAAAGAAGTCTGATCGGCGGGAGCTCTATGTTATTTTGAATCAAAAAAATGCAAAC
CTGATTGAAGTAAATGAAGAGGTCAAGAACTTTGTGCAACGCAGTTCAACAACATCTTCTTCTTGATTGACGG
ATGACGGCTCACCGAGAGCATATCTAAAAAACAATCTGCAAAACATTTGGTCACATGCAAGTTAGTGGTCATATGA
CGGACTGCATTCAAGACAAGGGTAAAGCAATACTTGCTTTGAAGAATCAGATTTGACTCGGTCTGCTGATCTGA
GGTTTTTAGATTTTAAATATTTATGTGGAATTAATFAAAGGTAGTTGGCTATATCGCTATCATTTTCTTTTG
ACATTATTTGAATATTTTACTGGAAAATAAGACTAATAAATTGTTAAAAGTTTTTAAAATTTCTGGTTTGGTGTG
AGTCTCTCTCTGCTGCCTATTTATAGATTACACTGGCCACCAGCTCCGTGACCCAGGCTGGAATGCAATGGCTC
ACTGCAGCCTCAACCTCCTGAGCTCAAGCAATCCTCCACCTCAGCCTCCCAAGAAGCTAGAACCACATGTACAC
ACCACCACGGTCGGCTGATGTTTTAATTTTGCAGAGATGGGGGGGTCTCACTATGTTGCCCAGGCTGGTCTCGAA
CTCCCGTAATCCAGCCATGTAGGAAACCTGAGATGCAGTGGGCCAAGGGGTATGTTAAAACACTGTGACGAGTTC
AGTGCTAAGAACTGTAATGCTCAGGAAATCTTACAGCAGTGCCATCCTAAGCCTGTGTGTGTGTCCCTCGTGTCT
CTCTACTTTTTCTTCTTCTTGCTGGTGATGGTCTTGCTGGATGGGGACACGGTCACATCCTCCTTGGGAGGGTCC
AGTATGAGGTGAGAGGATGACACGTCTGCCGGCTCCTTGAGCACTGTGATGTCCACCTCATAGTCATGTCTCTTG
GCCTCTTCTCTCTCAAGATAAAGATGTTTCAGCCT

5121/5332
FIGURE 4441

CCTCAGCTGCGATGCCCCAAGAGAAACAGGCTGGTGGAGGGGCAGACCCCTACAAGGCCTGAAGGTGCCGTTCT
CCACCCGCTCCTCTTGTGGCCAGAGGAGAGGGACACCCCGCCATGAAAGAGCTCTGAACGGTTGGAACCTCTCAGG
GGATCCAGAACTGCAGCTGGTCCTCGCTGGGCTGTTCTGTCCATCTGCCTGGTCATGGTGCTGGGGAACCTGCT
CATCATCCTGGCCATCAGCCCTGACTCCCACCTCCACACCCCGTGTACTTCTTCTCTCCAACCTGTCCTTGCC
TGACATCAGTTTCACCTCCACCACAGTCCCCAAGATGATTGTGGACATCCAATCTCACAGCAGAGCATGGAAGAG
AGGCATGCTCCTGAGTGTGATGGCCTATGACTGGTTTGTAGCCATCTGTCACCCTCTATATCATTAGCCATCAT
GAACCCCTCTTTTAGATGCCCAGCTGCACAACCTGATTGCCTTACAAGTGACCTGCTTCAAGGATGTGGAAATTCC
TAATTTCTTCTGTGACCCTTCTCAACTCCCCATCTTGCATGTTGTGACACCTTCACCATTAAACATAATCATGTA
TTTCCCTGCCGCCATATTTGGTTTTCTTCCCATCTCGGGGACCCTTTTCTTTACTCTAAAATTGTTTCCTCCAT
TCTGAGGGTTTCATCGTCAGGTGGGAGAAAGGGTGCACTGGCCTCAGTGATGTACGCGGTTGTCACCCCATGCT
GAACCCCTTCGTCTACAGCCTGAGAAACAGGGATGTTAAAGGTGTCCTGCGGCGGCCACACGGCAGCACAGTCTTA
A

5122/5332

FIGURE 4442

GGGTTATGGTGTGTGCTCGGTGGGGCTGGAGTGGCTGGCTTACCTCCTCGTGGCTTACAGCCTGGGCGCCTCAGC
CGCCTCACTCCTGGTTCTGCTGGGCCTGTGGCTGCCACACCCGGTGCCCCCTCGTGGCTGGAGAAGGGGTGCACCT
GCTGCTCACCTTCATCCTCTTTTTCTGGGCCCCCTGTGCCTCAGGTCTGCAACACAGCTGGATCCTCTGTGTGGC
AGCCGCCCTTTGGGGTGTGGGCAGCGCCCTGAACAAGACTGGACTCAGCACACTCCTGGGAATCTTGTACGAAGA
CAAGGAGAGACAGGACTTCATCTTCACCATCTACCACTGGTGGCAGGCTGTGGCCATCTTCACCGTGTACCTGGG
CTCCAGCCTGCACATGAAGGCTAAGCTGGCGGTGCTGCTGGTGACGCTGGTGGTGGCCGCGGTCTCCTACCTGCG
GATGGAGCAGAAGCTGCGGCGGGGCGTGGCCCCGCGCCAGCCCCGCATCCCGCGGCCCCAGCACAAAGGTGCGCGG
TGACGGCTACTTGGAGGAGGACAACCTCGGACGAGAGCGACGCGGAGGGCGAGCATGGGGACGGCGCGGAGGAGGA
GGCGCCGCCCCCGGGGCCAGGCCTGGCCCCGAGCCCGCTGGACTCGGCCCGCGGCCCTGCCCGTACGAACAGGC
GCAGGGGGGCGACGGGCCGGAGGAGCAGTGAGGGGGCCGCTGGTCCCCGGACTCAGCCTCGCTCCTCGCCGGCCT
CAGTTTACCACGTCTTAGGTCGGGGGGACCCCTCCGAGTCTCGCGCTGTCTTCGAAGGCCCTGTCTCCCTTCC
CCCACGTTGGGGACGCCCCCTCCAGAGCCCGGGTCACCTCCGGGCTTCCGAGCCCCCTCCAAGGCGGAGTGAG
CCTTGGGAACCTCCCCGGCCAAGCACAGGGGTTTGAAAATACAGCTTGATACCCCGCGGGCCCTTAGCACGCGCCCC
AGCGCCGGAGCAGGGTCAGGGTCTTCTTGCGACCCGGCCCCGCTCCAGATCCCCCAGCTCTCGGCCGCGGACCC
GGGCCGCGTGTGAGCGCCCTTTGCACCTCCTATCTCCAGGGTCCGCCGAGAGCCACGATTTTTTACAGAAAATGA
GCGATAAAGAGATTTTGTACTGTC

5123/5332
FIGURE 4443

ATGAGAGCTACTGCAGGCTGGGCTGTGACCGTCTATGACAAGCCGGCATCTTTCTTTAAAGGGACACCTCTGGAC
CTGCAGCACAGGCTCTTCATGAAGCTGGGCGGCATGCACTCTCCGTTTCAGGGCCCGTTTAGAACCTGAGGAACCA
GCCACGGAGCCGTCGGCCTTCATGGAGCGGGATGCTGGGAGCGGGCTGGTGATGTGTCTCTGCGAGTGGCCAGCC
CTGCTGGTCAGCAGCACAGGCTGGACAGAGGACGAAGACTTCTCCATCCTGCTGGCAGCTTTAGAAAGTAGGGGT
GTAGCTGTGCATGTTCTGTCCCGGGCCACTGGGTGGGGCAGCCTGGGGACAGCGGAGGTGGTGGAGAGTTTGAG
CAACTGACTCTTGATGGACACAACCTTCCTTCTCTCGTCTGTATAACAGGCTCCCAGGAGTGGTTTGGAGCCCGC
GCCATGTGCTCTGGAGGCTGTGGCAGGGCAGGGGGAGTCTCGTGTCCCTGTGCACAACACAGACAAAAGGCTG
GGTCCACCCAGTGGGGGCCCCGAGGCCAGCTGGCTGCAAGTGCAGGGCTGTGCGTCAGGGGTGAGGGTGCACACAC
CCCTGCGGGTCTCGGGGCTCCTGGGATGCTTCCCGAAGGGCCCGGATGGGGCCTGACTGGAGCTGCCGAGGGGTG
GAGCTTCTGGGAAAGGGATCCCTCCTAGCGGGGAGTGTCTTGGGCCCTGGGGCCACTTGGTAGGGTCAGAGACGGG
TCCATAGCAGTATCTGCTCTTCTGTGAAGGCAAAGGGCCTCTGACGGAGTATTACAGCTGCCTCATCCACCAG
AAGCATTTCAGCACATCCAGGAGGGCTGGGCCTGGGGTTGGGGCACTGTTGCCCAGGTGTGGGAGGGCAGTGGC
TTTGGGAGGTACAGGGACGATGTGTCAAACAGCGTCGCTTCTCCAGTGAGATGGTTCTCCTTTGCCTCCGTCTC
TTTCCCCGATTGATTTTTCCAAATGGGGAGTCTGTGGCTTGGTCTGATGCGTCTCTAGAGCTGCATCTTCCAGCT
TCAAGGTCGGTGGACCTGGGTGTCTGTCTGCACACGTTCTCCAGTGGCCTGGACCTGCCCATGAAGGTGGTGGAC
ATGTTCCGGTGCTATTGCTGCGTGTGCCGTGAACCTCAAGTGTAAATGAGCTGGTGAAACATGAAGAAAAT
GGCCTGGTCTTTGAGGACTCAGAGGAAGTGGCAGCTCAGCTGCAGATGCTTTCTCAAACCTTCTGATCCTGCA
GGCAAGCTAAACCAGTCCGGAAGAACCTGCGGTAA

5124/5332
FIGURE 4444

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCAATTGGACACGTAGATTCAGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACCTAATTGTCGGTGTAAACAAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTAAGA
AAATTGGCTACAACCCCGACACAGTAGCATTGTTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA
GTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTG
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCCTGCTGCTCTCCAGGATGTCTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTG
GGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTCGCTGGTGACAGCA
AAAATGACCCACCAATGGAAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA
CCGGCTATGCCCCGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGA
GACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAA
TGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC
GTAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTGCCTGTGGCAGTTTTAAG
TTATTAGTTTTTAAATCAGTACTTTTTAATGGAAACAACCTGGACCAAAAATTTGTACAGAATTTTGAGACCCA
TT

5125/5332
FIGURE 4445

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCAATTCGA
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCGCACGTCCCCACCAAAGCCCATGTAAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAATGGACATTGTACTTAAAAAAAACA
AAAAAAAAAAAAAAAAAAAAA

5126/5332
FIGURE 4446

CCGTGTGTGGCGCCTGCGCACCTCCTTTCCCTTTTCGGATTCCCGACGCTGTGGTTGCTGTAAGGGGTCCTCCCTG
CGCCACACGGCCGTCGCCATGGTGAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGC
CAGTTTGCCATTGCTGGGGCTTTATCCCTCTTGTGATTTACCTGGGATTTAAGAGGGGTGCAGATCCCGGAATG
CCTGAACCAACTGTTTTGAGCCTACTTTGGGGATTAAAGGATTATTTGGTCTTCTGGATTTGGAGGCAATCAGCGG
ACAGCATGGAAGATGTGTGCTCTGGCTCGGATAAGAGATGGGACATCATTCACTACTAGTTGGATGGCACAAGG
CTCTTCACAGACGCATCTGTAGCAGAGTGGAACCTTGACTAACTTATGATAGAATGTATCAGAATAAATGTTTTT
AACAGTGT

5127/5332

FIGURE 4447

ATGAACGACACATGGTTGATGGCAGAGTTCAGACAACAATTATTTGGAGCAGACCAGGAGCAAAGACAGCTGATT
AGAGGATCAGTACCCAGGGCGGTACCACTCACCAACCAGCTGGCCTCTGTTGTCACCCGTCAGCTCACGATCCAG
TCCCTCTGGATGGTGACGGTCAGCGCCGTGCCGGCCAGGTTTGCCAAGGCCACTAGGGTGGTCACCAGTGACAG
CAGGCCACCTACCGAAGGAGGGGAAAGGGTCTTACAAACAAGCTGTTATTCCAAGAATCTCTTCAAAAAACAGCA
ACAAGGCTTTTCTAGCTTTTCTAGCTGGGAGGAGGCCAAGGTGCAACTTTCTTGGGTCGTCCTGAATCTAGCCACCTCT
GCCATGCTGCCGAAGTTCTACCCCAATGAGATCAAAGTCACATACCTAAGGTGTACTGGGGATGAAGTGGGTGCC
ACGTCTGTGTTGGCCCCCAAGATCAGCCCCCTAGGTCTGTCTTCAGAAAAGAACAGAGAGGCCCCAGATTGAGGTG
GTGACTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCGCCAAGAGACAGAAAAGAACAGAAAAACATT
AAACACAGTGGAATATCACTTTTGTGATGAGATTGTCAATGTTGCTCAACACATGTGGCACCAGATCTTTAGCCAGA
GAACTCTCTGGAATCATTAAAGAGATCCTGGGGACTCCCCAGTCTGTGGGCTGCAATGTTGATGGCTGCCACCCT
CATGATATCATAGATGACATCAACGGTGGTGTGTGGAATGCCAGCTAATTTAA

5128/5332
FIGURE 4448

ATCACGATGCCAGTTATATTTAATGAGCCTCTGAGCTTCCTACAGCGCCTAACTGAATACATGGAGCATACTTAC
CTCATCCACAAGGCCAGTTCACTCTCTGATCCTGTGGAAAGGATGCAGTGTGTAGCTGCGTTTGTGTATCTGCT
GTTGCTTCTCAGTGGGAACGGACTGGAAAACCTTTCAACCCACTGCTGGGAGAGACTTATGAATTAGTGGGAGAT
GACCTTGGATTTAGACTCATCTCCGAACAGGTCAGCCATCACCCACCAATCAGTGCATTTTCATGCTGAAGGATTA
AACAATGACTTCATCTTTTCATGGCTCTATCTATCCCAAACCTGAAATTCTGGGGGAAGAGTGTAGAAGCAGAACCC
AAAGGAACCATCACCTTGGAGCTCCTTGAACACAATGAGGCATATACATGGACAAATCCCACCTGCTGTGTGCAT
AATATCATTGTGGGTAAACTGTGGATCGAACAGTATGGCAATGTGGAAATTATAAACCACAAGACTGGGGACAAA
TGTGTGTTGAATTTTAAGCCATGTGGCCTTTTTGGTAAGGAATTACACAAAGTTGAAGGCTACATTCAAGATAAA
AGCAAAAAGAAGCTCTGTGCCCTCTATGGGAAGTGGACTGAATGTTTATACAGTGTGACCCTGCCACGTTTGAC
GCTTACAAAAAAAATGATAAGAAAAATACAGAAGAGAAGAAGAACAGCAAAACAGATGAGCACCTCTGAGGAGTTG
GATGAAATGCCAGTGCCGATTCTGAAAGTGTATTTCATTATCCCTGGAAGCGTTCTTCTATGGCGAATAGCCCCA
CGGCCTCCAAATTCTGCCAGATGTATAATTTTACTAGTTTGTCAATGGTTTTGAATGAAGTAGACAAAGACATG
GAGAGTGTGATTCCCAAGACAGACTGCAGGTTACGGCCTGACATCAGAGCCATGGAAAATGGAGAGATAGATCAA
GCTAGTGAAGAAAAAAAACGACTTGAGGAAAAACAAAGAGCAGCCCGCAAAAACAGGTCCAAGTCAGAAGAGGAC
TGGAAGACGAGGTGGTTCCATCAAGGTCCTAATCCCTACAATGGAGCACAGGACTGGATTTACTCTGGCAGCTAC
TGGGACAGAAATTACTTCAATTTGCCTGACATTTATTAATGCATACAAGTCAGGGTGTGTTGGCTAATCTACAA
ATAAGTCTTAAACCTATGTTTTTAAATTTTTTCCCTTGGTTTCTACTTATCTTTTAAAAAAAATGAAAAAA
CACTCATGAGATAACTGCATTTACCCAACAAAAGCAGGGTATAAGGCGATATTGGTGATGA

5129/5332
FIGURE 4449

GCCCACTCCCACCGCCAGCTGGAACCCCTGGGGACTACGACGTCCCTCAAACCTTGCTTCTAGGAGATAAAAAGAA
CATCCAGTCAATGGATAAAAAATGAGCTGGTTCAAGAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGACATG
GCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCT
TATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCT
GAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTA
CTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAA
GGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGGATTGTCGATCAGTCACAACAA
GCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTT
AACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGAT
GAAGCCATTGCTGAACCTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACTGAGA
GACAACCTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAACCG
GCCCTCCAACCTTTTGTCTGCCCTCATTCTAAAATTTACACAGTAGACCATTGTGCATCCATGCTGTCCCACAAATA
GTTTTTTGTTTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATATTTCCCATGTGTTGGTTTTATG
TTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGG
ATGTGGAATTTTTATACAAGTTATAAGTGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCAAAGGGCCAGTG
TAAAACTGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATACTGGTTTGTCTGGCGGGGAATAAAAGGGATCA
TTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAATCAT
ACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTACAGCTGCA
GAAGTGTTCCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTTACATTCCATTATTT
GTAAAGTTACCTGCTGTTAGCTTTTCAATTATTTTTGCTACACTCATTTTTATTTGTATTTAAATGTTTTAGGCAACC
TAAGAACAAATGTAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTACTTTCATGTATATCAAGCAC
AGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGATTTTTTGCTTTTGTGATTTTTTTTTTTTTTTTT
GATACTTGCCTAACATGCAATGTGCTGTAAAAATAGTTAACAGGGAAATAACTTGAGATGATGGCTAGCTTTGTTT
AATGTCTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTGGA
ATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTTCATGTAAATTAGTCTTGGTTCTGAAAC
TTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCCTTATTCCCTCTTGGCAGCTAATGGGCTCTTACCAAG
TTTAAACACAAAATTTATCATAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCCCTCTCT
TCCTCCCCACCCTGAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGGGATTGATTAGAAAAAATGTAGTG
TGTTCCATTTAAATTTTGGCATATGGCATTCTTAACCTTAGGAAGCCACAATGTTCTTGGCCCATCATGACATT
GGGTAGCATTAACTGTAAGTTTTGTGCTTCCAATCACTTTTGGTTTTTAAGAATTTCTTGATACTCTTATAGC
CTGCCCTTCAATTTTGATCCTTTATCTTCTATTGTGTCAGGTGCACAAGATTACCTTCCTGTTTTAGCCTTCTGT
CTTGTCACCAACCATTCTTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTCTGGCTCCACTCAGT
GTCTAAGGCACCCTGCTTCCTTTGCTTGCAATCCACAGACTATTTCCCTCATCCTATTACTGCAGCAAATCTCT
CCTTAGTTGATGAGACTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTCAATTGTCTGCCTTT
AAAATCCTTCCTCTTTCTTCCTCCTCTATTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCTCACTTTAC
AAAATATTTCTCAGTACTTTGCAGAAAACACCAACAAAAATGCCATTTTAAAAAAGGTGTATTTTTTCTTTTA
GAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTCAA
TAAATATTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCC

5130/5332
FIGURE 4450

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCGAAAC
ATAGTGGAGGCCGCGCAGCAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTGAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTGTTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

5131/5332
FIGURE 4451

CCTTCTCCCCGGCGGTTAGTGCTGAGAGTGCGGAGTGTTGCTCCGGGCTCGGAACACACATTATTATTAAAAA
ATCCAAAAAAATCTAAAAAATCTTTAAAAAACCACAAAAAATTTACAAAAATCCGCGTCTCCCCCGCGG
AGACTTTTATTTTTTTCTTCTCTTTTATAAAATAACCCGGTGAAGCAGCCGAGACCGACCCGCCCGCCGCGG
CCCCGCAGCAGCTCCAAGAAGGAACCAAGAGACCGAGGCCCTTCCCGCTGCCCGGACCCGACACCGCCACCCCTCGC
TCCCCGCCGGCAGCCGGCAGCCAGCGGCAGTGGATCGACCCCGTTCTGCGGCCGTTGAGTAGTTTCAATTCCGG
TTGATTTTTGTCCCTCTGCGCTTGCTCCCCGCTCCCTCCCCCGGCTCCGGCCCCAGCCCCGGCACTCGCTCT
CCTCCTCTCACGGAAGGTGCGGCCCTGTGGCCCTGCGGGCAGCCGTGCCGAGATGAACCCAGTGCCCCAGCT
ACCCCATGGCCTCGCTCTACGTGGGGGACCTCCACCCCGAGCTGACCGAGGCGATGCTCTACGAGAAGTTTCAGCC
CGGCCGGGCCATCCTCTCCATCCGGGTCTGCAGGGACATGATACCCGCCGCTCCTTGGGCTACGCGTATGTGA
ACTTCCAGCAGCCGGCGGACGCGGAGCGTGCTTTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTAC
GCATCATGTGGTCTCAGCGTGATCCATCACTTCGCAAAAGTGAGTAGGCAACATATTCATTAATAATCTGGACA
AATCCATTGATAATAAAGCACTGTATGATACATTTTCTGCTTTTGGTAACATCCTTTTCATGTAAGGTGGTTGTG
ATGAAAAATGGTTCCAAGGGCTATGGATTGTACACTTTGAGACGCAGGAAGCAGCTGAAAGAGCTATTGAAAAA
TGAATGGAATGCTCCTAAATGATCGCAAAGTATTGTTGGACGATTAAAGTCTCGTAAAGAACGAGAAGCTGAAC
TTGGAGCTAGGGCAAAAGAATTCACCAATGTTTACATCAAGAATTTTGGAGAAGACATGGATGATGAGCGCCTTA
AGGATCTCTTTGGGCCTGCCTTAAGTGTGAAAGTAATGACTGATGAAAGTGGAATCCAAAGGATTGGATTG
TAAGCTTTGAAAGGCATGAAGATGCACAGAAAGCTGTGGATGAGATGAACGGAAGGAGCTCAATGAAAAACAA
TTTATGTTGGTCGAGCTCAGAAAAAGGTGGAACGGCAGACGGAACCTTAAGCGCAAATTTGAACAGATGAAACAAG
ATAGGATCACCAGATACCAGGGTGTAACTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGTCTCC
GGAAAGAGTTTTCTCCATTTGGTACAATCACTAGTGCAAAGGTTATGATGGAGGGTGGTTCGCAGCAAAGGGTTG
GTTTTGTATGTTTTCTCTCCCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAA
AGCCATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACAGTATATGCAGAGAA
TGGCAAGGTACGAGCTGTTCCCAACCCTGTAATCAACCCCTACCAGCCAGCACCTCCTTCAGGTIACCTCATGG
CAGCTATCCACAGACTCAGAACCCTGCTGCATACTATCCTCCTAGCCAAATTGCTCAACTAAGACCAAGTCCTC
GCTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCAGCTGCTCCTAGAC
CACCATTAGTACTATGAGACCAGCTTCTTCACAGGTTCACGAGTCATGTCAACACAGCGTGTGTGCTAACACAT
CAACACAGACAATGGGTCCACGTCTGCAGCTGCAGCCGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGT
ATAAATATGCTGCAGGAGTTTCGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAATGCAACAGCCTG
CTGTTTCATGTACAAGGTGAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCTCCTCAAGAGCAAAAGCAAA
TGTGGGTGAACGGCTGTTTCCTCTTATTCAAGCCATGCACCCCTACTCTTGCTGGTAAATCACTGGCATGTTGT
TGGAGATTGATAATTCAGAACTTCTTCATATGCTCGAGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTG
TAGCTGTACTACAAGCCACCAAGCTAAAGAGGCTGCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACCTG
TTTAAATTTGATCAGGGACCATGAAAAGAACTTGTGCTTACCGAAGAAAAATATCTAAACATCGAAAACTTA
AATATTATGAAAAAAACATTGCAAAATATAAAATAAAATAAAAAAAGGAAAGGAACTTTGAACCTTATGTACC
GAGCAATGCCAGGTCTAGCAACATAATGCTAGTCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAA
AAATAGTAAATATAAAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTTCAGCAAAGTACAAAAATT
TAAAGCATTCCTTTCTTTAATTTTGTAACTTTTACTGTGGAATAGCTCAGAAATGTCAGTTCTGTTTTAAGTAAC
AGAATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATCTTGCTTTAATAAAAAATTCCTTAAACAGTG

5132/5332
FIGURE 4452

ATGGTGCAGCGCATGTGGGCCGAGGCGGCCGGGCCTGCTGGCGGCCGCCGAGCCGCTGTTCCGGGCTCCCGGCGG
AGCCGCAGCGTGTGGGACGCCGTGCGCCTGGAGGTGGGCGTCCCCGACAGCTGCCCGGTGGTGCTGCACAGCTTC
ACGCAGCTAGACCCCGACCTGCCGCGCCCGGAGGTGGGTGGGGTTCGGGGCCTTCTGCAGAAATCAGCCAGCAGG
GTGGGCAGTGGGGGCTGCCGCGCCGCCCCGTCCAACAGTAGGGACCACGGCTGGGGTTTTCGCCCCCTCAATACC
GTTCCAGGGCCTGCTGTACCAAGGCCGCTGCAGCCCAGGTGGACCTTTTTCTGCGGCACTGTCCCTGTTTACAT
CGGTGGCCTGTGCCTTATTTCACTCAGTTCACCCAGGGCCCGCAGCGCTCGTTAGCCTTTACGATGCAGCCC
AGCATCCGTCGCCGGCCCCAGGGGATATGATGTGAGGTGTTGTCCGGTACCACGCCATCAGGTCCCAGTGCCGG
TCACCGAGCTGTGTGATTCTCTGTGACCCCCACTGTTGCCTGTGACAGCCAGGGACACGGCATCCTGCTGGCC
TGTAAGTCTGAGAAGGCTGATCAGGCTGTAGGTCTGTGACGCGCCAGTCTGTGCCCTATCTGGGAAACAGGTTA
CACAGGTGCATCCCTGCACGGTGGCCAGGCAGGCCCTTGACGTCCCGCGCCCGGCTGCCGGCGTTGTCTTCA
CAGAGCTCCACGCAGGAGATCGGTGAGGAGCTGATCAACGGAGTCATCTACTCCATCTCCCTGCGCAAGGTGCAG
CTGCACCACGGAGGCAACAAGGGGACGCGCTGGCTCGGGTATGAGAATGAGTCGGCCCTGAACCTTTATGAGACT
TGCAAGGTGCGGACCGTGAAGGCTGGCACGCTGGAGAAGCTGGTGGAGCACCTGGTGCCAGCCTTCCAGGGCAGC
GACCTCTCCTACGTACCATCTTCTCTGTGTACCTATAGAGCCTTACCACCACCCAAACAGGTCTGGACCTGCTG
TTCAAAGATACGGCTGCATCCTCCCTATTCCGACGAGGATGGTGGACCCAGGACCAACTTAAAAATGCCATC
TCCTCCATCCTGGGCACCTGGCTGGACCACTGCTCGGAGGATTTCTGTCAACCTCCGGACTTTCCCTGCCTCAAG
CAGCTGGTGGCCTACGTGCAGCTCAACATGCCAGGCTCAGACCTGGAGCGCCGTGCCACCTTCTCCTGGCCCAG
CTGGAGCACTCGGAACCCATTGAGGCAGAGCCTGAGGGTGAAGGAGGACTGGGCGCCAGCTCTGGAAGTAGAGCCA
GCTCCAGAACAGGATCCAGCTCCCTCACAACCTCTAGAGCTGGAGCCAGCTCCAGCACCAGTTCCATCATTACAG
CCTTCTGCGCCTTACCTGTGGTTGCAGAGAACGGGCTGAGTGAGGAGAAGCCTCACCTCTGGTGTTCCTCCA
GATCTGGTGGCAGAGCAGTTTACACTGATGGATGCGGAAGTGTTCAGAAGGTGGTGCCCTACCCTGCCTGGGC
TCCATCTGGTCCCAGCGGGACAAGAAGGCAAGGAGCACCTGGCGCCACCATCCGCGCCACTGTCAACCAAGTTC
AACAGTGTGGCCAAGTGTGTATCACCACCTGCCTCGGGAACCGAAGCACGAAGCCCCAGACAGGGCCAGGGTG
GTGGAGCACTGGATCGAGGTGGCCAGGGAGTGCCGATCCTCAAGAAGTTCCTGTCAGTGTATGCCATCCTCTCT
GCCCTGCAGAGCAACTCCATCCACCGTCTGAAGAAGACGTGGGAAGACGTTTCCAGGGACAGTTTCCGGATCTTT
CAGAAGCTGTGAGAGATCTTCTCAGATGAGAACAAGTACTCATTGAGCCGGGAGCTGCTCATCAAGAGGGGCACC
TCCAAGTTTGCCACCCTGGAGATGAACCCCAAGAGAGCCAGAAACGGCCGAAGGAGACGGGCATCATCCAGGGC
ACCGTTCCCTACCTGGGCACGTTCCTCACCAGCTGGTGATGCTGGACACTGCCATGAAGGACTATCTGTATGGC
AGACTCATCAACTTTGAGAAGAGGAGGAAGGAGTTCGAGGTGATCGCCAGATCAAGCTGCTGCAGTCGGCCTGC
AACAAGTACAGCATCGCGCCAGATGAGCAATTTGGGGCCTGGTTCCGGGCCGTGGAGCGGCTCAGCGAGACTGAG
AGCTACAACCTGTCTGCGAGCTGGAGCCCCATCCGAGTCAGCCAGCAACACCCTCAGGACCAAGAAGACACA
GCCATTGTCAAGCGCTGGAGCGACCGCCAGGCCCCCAGCACTGAGCTCAGTACCAGTGGCAGCTCCCACTCCAAG
TCCTGTGACCAGCTCAGGTGTGGCCCTACCTCAGCAGCGGGGACATCGCTGACGCGCTCAGCGTGCAGTCCGGC
GGCTCCTCTAGCTCCGACGTGGAGGAGATCAACATCAGCTTCGTCCCGGAGTCTCCTGATGGCCAGGAAAAGAAG
TTCTGGGAATCAGCCTCACAGTCATCCCCGAGACCTCCGGCATCAGCTCAGCCTCCAGCAGCACCTCGTCTCC
TCAGCCTCCACCACGCCCCTGGCTGCCACACGCACCCACAAGCGCTCTGTCTCAGGGCTCTGCAACTCCAGCTCC
GCGCTGCCGCTCTACAACCAGCAGGTGGGCGACTGCTGTATCATCCGCGTCAGCCTGGACGTGGACAATGGCAAC
ATGTACAAGAGCATCCTGGTGACCAGCCAAGATAAGGCTCCGGCTGTAATCCGCAAGGCCATGGACAAACACAAC
CTGGAGGAGGAGGAGCCGGAGGACTATGAGCTGCTGCAGATTCTCTCAGATGACCGGAGCGTGAACAGGCAGTTC
AAAGCTCACATCAGTGAGGAGCAAAGAGAAAAGGCATTTTCACTGGGACAGAGCTGAAGATCCCTGAAAACGCC
AACGCTTCTATGCCATGAAGTCTACCGCCAAGTATGACTTTGTCTCAAGAAGCGGACCTTACCAAGGGAGTG
AAGGTCAAGCACGGAGCCAGCTCCACCCTCCCTCGCATGAAGCAGAAAGGACTCAAGATTGCCAAGGGCATCTTC
TGA

5133/5332
FIGURE 4453

ATGGCGGCGGAGGCGGCCGATTTGGGGCTGGGGGCCGCCGTCCCCGTGGAGCTGAGGCGGGAGCGACGCATGGTG
TGCGTGGAGTACCCGGGAGTGGTGCGTGATGTGGCTAAGATGCTGCCGACTCTGGGCGGCGAGGAAGGCGTCTCC
CGGATCTACGCAGACCCACCAAGAGGCTGGAGCTGTACTTCCGGCCCCAAGGACCATACTGCCACCCAGTGTGC
GCCAACCGCTTCAGTACCAGCAGCCTGCTGCTCCGCATCAGGAAGAGAACGAGGCGGCAGAAAGGGGTGCTGGGC
ACTGAGGCCCCACTCCGAGGTACATTTGACATGGAGATCCTTGGCATCATCTCCACCATTTACAAATTTTCAGGGG
ATGTCTGACTTCCAGTACTTGGCTGTGCATACGGAAGCAGGCGGCAAGCATACGTCAATGTATGACAAGGTGCTC
ATGCTCCGGCCCCGAGAAGGAGGCCTTTTTCCACCAGGAGCTGCCGCTCTACATCCCCCACCCTATCTTCTCCCGG
CTGGACGCCCCGGTGGACTACTTCTACCGACCAGAGACCCAGCACCGGCACCTTTAAAAAGAAGGCCCCAGGCTCGA
TCCCGTCTTTCTAGTTTTGTTTCACAATGTGAAAATTACTGCTATTCTTTGGAAGGCTACAACAATCCCCCATC
TCAGGTGAGAATCTGATTGGCCTGAGCAGAGCCCGGCGCCCCACAATGCCATCTTTGTCAACTTTGAGGATGAG
GAGGTGCCCCAAGCAGCCACTGGAGGCTGCAGCCAGACGTGGAGGAGAGTCTGCACTAACCCCGTGGACCGGAAG
GTGGAGGAGGAGCTGAGGAAGGCAAGTCCGCGCTGCGCCTGGCCCCGCTGTTTGACATCCGTCCCATCTGGTCC
CGAAATGCTGTCAAGGCCAACATCAGCGTCCACCCAGACAAGCTCAAGGTCTTGCTTCCCTTCATAGCCTATTAC
ATGATAACAGGCCCCCTGGCGCAGCCTATGGATTTCGATTGGGTATGACCCCCGAAAAAACCAGATGCCAAGATT
TATCAAGTCCTCGATTTCCGAATCCGTTGTGGAATGAAACACGGTTACGCCCCCAGTGACTTGCCGGTCAAAGCA
AAGCGCAGCACCTACAATACTACAGCCTCCCCATCACCGTCAAGAAGACATCCAGCCAGCTTGTCAACATGCATGAC
CTGAAGCAGGGCCTGGGCCCCGTCGGGGACGAGTGGTGCTCGGAAACCAGCTTCCAGCAAGTACAAGCTCAAGGAC
TCTGTCTACATCTTCCGGGAAGGGGCCCTTGCCACCCTATCGGCAGATGTTCTACCAGTTATGCGACTTGAATGTG
GAAGAGTTGCAGAAGATCATTACCGCAATGACGGGGCAGAGAATTCCTGCACAGAACGGGATGGGTGGTGCCCTC
CCCAAGACCAGCGACGAGCTCAGGGACACCATGTCCCTCATGATCCGGCAGACCATCCGCTCCAAGAGGCCTGAG
GGCTGTGCGGTGGCTGGAGCTGCCACTGAGTGTCTCGGTGAGGGTGACCTCACACTGGCTGAGCTTAAAGGCCCC
ATCTGA

5134/5332
FIGURE 4454

AGGATGGCAATGCCAGTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCEGGCTATGCCCCGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAATGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATTGAA
TATTATCCCTAATACCTGCCACCCCACTCTTAATC

5135/5332
FIGURE 4455

GCCAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATGGCTACAACCCCGACACAGTAGCATTGTGCCAAATTCTTGAAGTCTGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTC

5136/5332
FIGURE 4456

AAATTGTTAAGGAAGTCAGCACTTACATTAAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTGTCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTTCGTGATATTGAGACAGACAGTTGCGGTGGG

5137/5332
FIGURE 4457

CTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCC
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCT
GCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATC
ACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGA
GACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGT
GAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAA
CAACTAATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGG

5138/5332
FIGURE 4458

GGGCCAGGCCTCCAAGCCGGCCTTACACCCAATCCAAGGAGGACAGACCGGACACAGAGGGACGGAGCGAGCAAG
GAGACATGGCCTTCATCATTCCCTGCCCCGCGGGGGCCATCACCGGCGACAGCGGTGGAGAGCTGAGCTCAGGGGACG
ACTCCGGGGAGGTGGAGTTCCTCCCATAGCCCTGAGATCGAGGAGACCAGTTGCCTGGCCGAGCTGTTTGAGAAGG
CTGCCGCGCACCTGCAAGGCCTGATTGAGGTGGCCAGCAGGGAGCAGCTCTTGTTACCTGTATGCCAGGTACAAAC
AGGTCAAAGTTGGAAATTGTAATACTCCTAAACCAAGCTTCTTTGATTTTGAAGGAAAGCAAAAATGGGAAGCTT
GGAAAGCACTTGGTGATTCAAGCCCCAGCCAAGCAATGCAGGAATATATCGCAGTAGTTAAAAAACTAGATCCAG
GTTGGAATCCTCAGATACCAGAGAAGAAAGGAAAAAGAAGCAAATACAGGTTTTGGTGGGCCAGTTATTAGTTCTC
TATATCATGAAGAAACCATCAGGGAAGAAGACAAAAATATATTTGATTACTGCAGGGAAAAACAACATTGACCATA
TAACCAAAGCCATCAAATCGAAAAATGTGGATGTGAATGTGAAAGATGAAGAGGGTAGGGCTCTACTTCACTGGG
CCTGTGATCGAGGACATAAGGAACTAGTCACAGTGTTGCTGCAACATAGAGCTGACATTAACTGTCAGGACAATG
AAGGCCAAACAGCTCTACATTATGCCTCTGCCTGTGAGTTTCTGGATATTGTAGAGCTGCTGCTCCAGTCTGGTG
CTGACCCCACTCTCCGAGACCAGGATGGCTGCCTGCCAGAGGAGGTGACAGGCTGCAAAACAGTTTCTTTGGTGC
TGCAGCGGCACACAACCTGGCAAGGCTTAATCAAAGACTGGAAAACAGTCTGTAATAGCATAAGGCTTCCAT
TATGAAAGAAAACACAAAAATAATACTTCTTTCCACCCGCTCTTTGGTATGTATTGGCTAATAAAATCAGTTCT
GTGGAACCTGGG

5139/5332
FIGURE 4459

AATAAATTATTTTTGTTAAGGCAAGCATTGGTGTGTTCTTTAACTTGCTACTTGGAGACCTAGTGTCCAGTCTGG
ACAGAAATGCACAGAGACCAGCCTCACCTGGAATGCAGCCAGACTCGATGTCCCTCAGCACACACAGCTCCTGGCC
ACAGACTGCCCATAGAACTGTCTGCACCCAAACCCCATGGCCTTTTCATGCACGGAGACAGGCCTCTGGATGTGC
AGCCTTGCCACCCCTGCCCAATCCTCCCTGAGAGCTCCTGCCTCAGTGCCCTGGGCTGGTGAGGGAGAAGCCT
GTCTGCACCTGCCTAATTCAGCTCCTCCAGGAAGCAAGGGCTTGTTTGTCTAGAGCTGCAGGGTTGGCCACTCGG
TGGGGAGGAGTCAGCCAGGATTAGAGAGCCTGCCCCAATCCGGCCTGCTGGGTTTACAAGGATCAGAGCTGCT
GATAATGAACCTCATTAAGGGGGAGCAGGAGCCTCAATCCGATTGGTTTTCTCTTTGACATCTTCACTCTGCTC
AGATGGCCTGGGTGCTATGTGGAGCAGGTGGGATGCCAAGGCCACTCCTGCTATGGGGCAGCTGGGGCTGGGGAG
GGATGGCAGTCTCCCTGCATGTTCCCTCGACCTCTTTAGCTGCAGCGCCTTGCTGGGCTCCTGGGTTGGACTCC
CTCTCTGTGCCCCTGCTCCAGGCACCCATTGGCTCCATCCTCCTGGTTGTGCTCTGCACCCCTGCTCCCTTGGG
CTGGCCCTGGCTGGGGCGGTGCCCCGTGTGTGCCCACTGCACCAAGGCCGCTGAATAAGCCTGCCCTTACCCCTA
CAGAGGCTCCCAGGGCCGCTGCCCTGTGTGCCCACTGCACCAAGGCCGCTGAATAAGCCTGCCCTTACCCCTA
AGGGCTCCTTGCCCAATGCCAAGTGTGGGGATTCTGTCTAGCAAGCCCTGTGGCTCCAGTGACGGTATTTCTAA
AGCCAAACTTAGTTACCTAGAAATTAGCGCCATGTTGGAAACACTGTCTGCAGCAGCCCGGGCTGCACAGTGTGTAG
CCCAGCCTCCAGGTCCACGGAGTGGTGTGGACCTCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGC
CCGGCCCCAGCCCTCTGGTTGATAAACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTACCTTGATTTCCCC
AGGGCTCTCGGCAACATCGATAAACAGCCTCGCCACAGCTGGGCCCTCCCCACCCAGTCTGCCAGGCTGGG
AGCTGGAGCTTGCTGAGTCTTGAATGCCCTTCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCA
AGGGGAGCCCTGCAAAGCAAAGGCTCCTTGTCTGGGGCGGGATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCT
ACTGGGGGCACAGGAACAATTTCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAGTAGGTGTTAGCAAGG
AAATAAGGAGGAACGGGGGTTACGGGCAGAGGAGAAAGCACATGCCAAGTCAGCAAAGAAAAGTAGAATTCGAAA
ACTTTTTAAAAATATTACTAAGGATTTTCACAATGCTGCACTGGGCTAGAACTGAAGCTAAAACAGATACGTGG
TCCCTGTCTATGGGGCTTCCGTTCTAGAGGCAAGGACAGGTTGTGATGAGGGTTCTGAAGGATAGAGACCAAG
CAGGGAGGGTGTGAGGAGGCTTCTGCGAGACCTGAAGGATGGGAAGCCAGGAAGTGGGAGGGGTGGGGGTCCAG
GCTGGAGGGGCCCAATGTAGGTGTAGAGGGACTACAGCCCTGAGGGGCTGCTCCATGCGGCATTCTTGGAGGTCC
AAGAGGGGCAGCGCCACCTTGGGCCAGGCTCCTCTCCAGCAGCCTTGATGGGGTGGGGGTGGGAAGACCCCTG
ATGCAGCCTGTCTCTGGGTGTGGGGGTGGAGGAGAGGGCTCCAGGGGACCCAGCCAGCCTTGACCTTGGAGGAA
AGTCAGGTGGGCTCAGAGAGAGCCCTCAAATCTGGGCCCTGGGTGAGGGTGGGGTCAAGTCCAGCCTTGAAGAGA
ATGGACTCTGGAATCTGACGTCTGGGTTTGAATCCAGCTTCCAACACTCACTGGCTGTGTGACTTTGGGCAAGAT
AACTTATCCCTTGTCCCATGTGTATTGGAGATAAACTACCCACCTACCAGATTGTTGTACCATGCTGGGCAA
ACACTAAGTGCTTAATAATGGTAGCCCACTGCTC

5140/5332
FIGURE 4460

[illegible]

5141/5332
FIGURE 4461A

CCCGGAGCCGGTGCGAGGAGGGCACCCGGTGCGTCCCGGAGCGGGGAGGCCAGGCCGGGCAGCCCTGGGGCCGG
TCGGGGCGGGCTCACTGCACCCTCCGCCAGGCTCCGCGGGATGCACCGTGGTAGCCGAGGGCGGAGGCGACACTC
TCAGGTAAATTGGCAGGATGAGGAGCAGCAAATCAAAAGAGGTGCCTTTACCAAATCCAAGGAAGCTCTCAAAGCA
AGGATACTGTTCAAGCAGATATAACCACATCGTGGGATGCACTTTCTCAAACCAAGGCTGCTCTGAGACACATTG
AAAATAAATTAGAAGTAGCCCTACAAGTACAGCTGTGTGTGATTCTGTCATGGATACCAAGAAGTCTTCTACAA
GTGCTACTCGAAAAATAAGTAGAAAAGATGGTAGATACCTGGATGATTCTTGGGTTAATGCTCCAATCTCCAAAT
CCACTAAATCACGAAAAGAGAAATCTCGTAGTCTCTCAGGGCCACCACCTGGAGAGTAATGTGAAGAAAAATA
ATCGTGTGGAATTTCTGTGAACCTTTGGTTTCTTATAGGGAATCCATGGTGACCTTCCAATTTTCAGTTCCAGCC
ATCTGGAATCAAAGCACGTATACTGTGTAGATGTTAATGAAGAAAGACTGAGAGCGGTAAGTGGATGATAGGCA
GTCGAGAAGAACGGAATATACGAGCTGTGATTTTGAGAGCTCCCAATCATCTGTCATCAATGATACAGTTGTTA
GGTTTTTAAATGATCGACCAGCAATTGATGCATTGCAAAATCTGAATGTTGATTAGGATGGGAGCTTCTATGA
GAACTGAGGAAGAAATGCCTAACAGAACAAAAGGAAGTGAGAATAATTTGAAGCTTTCTGTGAATAACATGGCCC
ATGATACTGATCCAAAAGCGTTACGACTAAGTACTCTTCTCCATCTCTACTAGTACTTCTAATTTCCAAAGAT
TAGATATTCTAAAGCGGCGACAAACATGATGTCAAAGTGGAAAACTTAAGGAACGGATTAGAAAACAGTGGGAAC
ACTCAGAAGAAACAAATGGCCGGGGCCAGAAGCTGGGTCATATTGACCATCCAGTAATGGTTGTTAATGTTGATA
ACTCAGTAACAGCAAAAGTCAAGAAAGTGGCAACAGCACCTGCTCCAGCATATAAAGGTTTCAACCCTTCAG
AGACCAAGATTGCAACACCTGATGGGAAAGTGTGGCAGGAGGCTGAGTTTCAAAACATGAGTAGAGAAGTGTATC
GAGATTTAGCACTTCACTTTGCAGATGATATTTCTATAAAGGAGAAACCTGCTGAAAAAAGTAAAGAGAAGAAAG
TAGTCAAGCCAGTACGAAAAGTCCAAAAAGTAGCACAGTTATCAAGTACAGAATGCAGAACAGGTAGTAGTCATC
TTATAAGTACATCTTCTTGGCGAGATGGACAAAAATTAGTAAAGAAGATTCTGGGACCTGCTCCCAGAATGGAGC
CAAAAGAGCAAAAGAACAGCATCAAGTGACAGAGGTGGAAGAGAAAGAACTGCTAAATCTGGGGGTACATTGGAA
GAGCAGAATCTGATCCCAGGTTGGACGTTTTACATAGACATCTTCAAAGAACTCAGAACGTTGAGAAGTAAAT
CTCGGTCTGAAAATAATATAAAGAACTAGCTTCATCTCTTCCAGATAATAAGCAGGAGGAAAATACTGCCTTAA
ATAAGGACTTTTTACCTATTGAAATTCGTGGCATTCTTGATGACCTACAGCTGGATTCTACAGCTCACACTGCAA
AGCAAGATACTGTAGAGTTACAGAACCAGAAGTCATCAGCACCAGTACATGCTCCTAGGAGTCACAGCCCAGTAA
AAAGAAAACCTGACAAAATAACAGCTAATGAAGATCCCCCTGTTATTTCCAAAAGGCCCACTATGACACAGATG
AGGTACGACAGTACATTGTTAGGCAGCAGGAGGAAAGGAAGAGAAAGCAAAATGAAGAGAAGAAGGCTCAAAAGG
AGGCTACAGAACAGAAAAACAAACGATTACAAGAGCTCTACCGGAAGCAGAAGGAAGCCTTTACTAAAGTAAAAA
ATGTCCCTCCTTCTGAGCCATCAGCAACTAGGCGACTACAGGAACTTACTCCAAATTGCTACTAGAAAAGACCT
TGCTTGAAGAGCCATCTCATCAACATGTTACGCAGGAAACACAGGCCAAACCAGGGTATCAGCCATCTGGAGAAT
CTGACAAAGAAAACAAAGTACAGGAACGTCCCCCAAGTGCATCTTCCAGTAGTGACATGTCTCTCTCAGAACCTC
CACAGCCTCTTGCAAGAAAAGACTTGATGGAATCTACATGGATGCAGCCTGAAAGATTGAGCCCAAGTTCCACC
ATTCTCAACCACAGCCTTTTGCTGGAACAGCTGGAAGTTTACTCTCCCATCTCTTGAGTTTAGAGCATGTAGGAA
TTTTGCATAAGGATTTTGAATCTATTTTACCAACCAGGAAGAATCATAATATGGCTTCAAGGCCATTAACTTTTA
CACCTCAACCATATGTGACCTCACCAGCTGCTTATACAGATGCCTTGTTAAAACCTAGTGCCAGCCAATATAAGA
GTAAACTGGATCGTATTGAAGCCTTGAAAGCAACAGCTGCTTCTTTGTCCAGCAGAATTGAAAGTGAAGCCAAGA
AATTAGCTGGGGCCAGCATTAACTATGGGTGAGCATGGAACACTGAGTATGATGTGCAGCAGGCACCTCAAGAAG
ATGGACCTTGGACCAAGGCTGTAAGTCCACCTGTGAAAGATGATAATGAAGATGTTTTCTCTGCCAGAATTCAGA
AGATGCTGGGAAGCTGTGTATCTCATGCAACTTTTGATGATGATCTTCTGGTGTAGGCAATCTTAGTGAATTTA
AAAAGCTTCTGAGATGATAAGACCACAGAGTGCCATATCAAGCTTTAGAGTGAGATCCCTGGTCCCAAACCAG
AAGGGCTACTGGCACAGTTATGTAAAGGCAGACTGACTCTTCTAGCTCTGATATGCAAGCCTGTTCTCAAGACA
AAGCCAAAATATCTCTTGGTTCCAGCATAGATTCAAGTCAAGTGAAGGGCCTCTTCTTAGTGAGGGGAGTCTCTCTG
AAGAAGAGGGGAGACCAGGATGGACAGCCCCCTTTGAAAGTAGCAGAAATTTTAAAGAAAAGGAATTTTGTCTCTG
GAGAAAGAAATAGTTATGAACCATCAAAGAGTTTCAAGAAAGAGCTGAAAAATTTCTTGCCACTTTTTGGGCACA
TAGGTGGTACACAAAGCAAAGGACCATGGGAAGAATTGGCAAAGGGAAGTCCACATAGCGTCATTAATATTTTGA
CAAAATCCTATCAGTTATATGAAAAGGGTTTGAAGACAAGTTGGACAGAGGAACATCAACATCACGGCCTTTGA
ATGCCACCGCAACTCCTCTAAGTGGTGTTCATATGAAGATGATTTTGTCTCCTCTCCAGGGACTGGGACTTCGA
CAGAAAAAAATCAACTCTTGAACCTCATAGCACTTTAAGCCCTCAGGAGGACCATTCTAACAGAAAGTCTGCCT

5142/5332
FIGURE 4461B

ATGATCCTTCCTCTGTGGATGTTACCTCCCAGCATTTCATCAGGAGCCCAGTCTGCTGCATCGTCTCGTTCATCTA
CTTCTTTCTAAAGGAAAAAGGAAAAAGGAAAAAGACAGAATGGTTGGATTCATTCAGTGGAAATGTTTCAGAACT
CACTTCTTGATGAGGAAAAAGCAGAACGTGGCTCCCATCAAGGAAAGAAATCTGGGACCAGCAGCAAACTTTCTG
TTAAAGATTTTGAGCAGACTCTTGATACAGATAGCACTTTGGAGGATCTTCTGGACATTCTGTGAGTGTCTCAT
CAGATAAGGGAAGATCTCAGAAAACCTCAACTTCTCCCCTGTACCAGTTCACAGAAATCATTGCAGTTTGACG
TTGCAGGAACCTTCTCAGAAAAGATCTAAGTCGTCAGTAATGCCTCCAACTATAACAGGATTTAAGCCTAATGCAC
CTCTCACTGATCTGAACCCGCGCAGCCAGCAGAACACGACAGAGAACATGGCTCCAATACCAGGTTCTAAGCGCT
TTTCTCCTGCTGGCCTCCATCATCGTATGGCAGCAGAACTCAGTTATCTGAACGCCATTGAGGAGTCGGTGCGCC
AACTGTCAGATGTAGAAAAGAGTTAGAGGCATTTCACTTGCTCAGCAGGAGAGTGTGTCTCTAGCTCAGATAATAA
AGGCACAACAGCAACGCCATGAAAAGAGACTTGGCCCTCTTGAACTAAAGGCTGAACAAGAGGCTCTGGAGAGTC
AGAGACAATTAGAAGAAACCCGAAACAAAGCAGCTCAGGTCCATGCAGAATCATTACAGCAGGTGGTTCAATCAC
AACGGGAAGTAAGTGAAGTCTGTCAGGAAGCAACGTGTAAGTAAAGTACAGCTCAGCAGTCAGAACTGCTCGCCTCA
CCACAGACGCAGCACGTCAAATCTGTGAGATGGCAGAGTTGACTAGAACTCATATCTCAGATGCTGTCTGCTGGCTT
CAGGAGCTCCCCTTGCAATACTGTATGACCACCAACGGCAGCACCTTCCAGACTTTGTGAAACAGCTGAGGACCA
GAACTGAAACAGATAGGAAAAGTCCATCTGTTTCACTCTCTCAGAGTAAAGAAGGGACCTTGACTCAAAGCATC
AGAAGTATTCTGCTTCATATGATAGTTATTCTGAGTCTTCAGGATACAAGAATCATGATAGAAGAAGTAGCAGTG
GTAGCAGCCGCCAAGAAAGTCCCTCAGTTCCATCTTGTAAGGAAATGAGAAGAACTTAATGGTGAAGATAG
AGAGTTCCATTGATGAACAGGTTTCAGACTGCTGCAGATGATTCTCTACGAAGTGATAGTGTTCATCTCTTCTG
ATGAAAAGACTCAACGTCTATTGCAACAGAATATTCTCTGAAATTTGATGAATCCATGACAGAAGATGAAATAG
AAGAACAATCATTTTCGATCATTACTACCTTCAGAGAGTCACCGCAGATTTAACATGGAAAAGAGAAGAGGTCATC
ATGATGACTCTGATGAAGAAGCTTCTCCAGAAAAAACTACACTGTCTACTGCCAAGGAAGTGAACATGCCATTCT
CAGGAGGACAAGATAGCTTTTCTAAATTTACTATGGAGATGGTTCGACAGTATATGAAAGAGGAAGAAATGAGGG
CAGCTCACCAGTCTTCACTCCTGCGTCTCCGTGAAAAGGCCTTGAAGGAGAAGACTAAGGCTGAATTGGCCTGGT
TAGAGCATCAAAAAAACATCTACGAGACAAAGGAGAGGATGATAAATGCCCCGCTCCGGAAGAAACAGCGTG
GTTTGCTTTTAAAGGTTGCAGCAAGAAAAGGCAGAAATAAAACGTCTTCAAGAAGCCAATAAGGCAGCTCGGAAGG
AAAGACAGCTGATTCTTAAACAGCAGGAGGAGATAGAAAAGATCCGACAGACCACCATAAACTACAGGAGAAAT
TGAAGTCTGCAGGGGAGAGTAAATTGGACTCTCATAGTGATGATGATACAAAGGATAATAAGGCAACCAGTCTG
GTCCAAGTCACTTGGAGACCCGAGTCTTCTCCCATTTCAATCTCCAGCAGTGAAGTACAGCATTATGCAGA
AACTGAAGAAAATGAGAAGCCGATGGATGAAAAGTTTCTGACAAAGCGGGAGCAAAAATTAATGCAACGGCGAC
AACATGCAGAGGAGCTCCTAGAGTGGAAGCGACGTTTAGATGCAGAAGAAGCAGAAATTCGTCAAATGGAAGAAC
AAGCTTTGGCTGCCTGGGACAAAGAAATTAATAAAACCCAAAACCTCCTAAGAAAGAACTGGAGGACCAGAGAACAG
AACAGAAAGAAATAGCAAGTGAAGAGGAATCTCCAGTACCTCTGTACTCTCATCTAAACAGTGAAAGCTCCATT
CAGAAGAATTAGGCAGCCCTGCTGTTGAATATGTACCATCCGAGTCTATAGGACAGGAGCAGCCAGGGAGTCCAG
ATCACAGTATACTTACTGAAGAAATGATTTGTTTACAGGAAGTGAATCTTCTACCTCTCCTAGTAAACATTAC
TTCCCAAAAGCTGCACATCTGTGTCAAAGCAGGAGTCTAGCAAAGGAAGTCATAGGACTGGAGGACAATGTCACC
TGCTATCAAGTCCCATCAGCACTGTATAGTTGGTCAGATGAGTCATTATCTATGACACAGTCAGAACTACAT
CTGACCAGAGTGATATTGAAGGTAGGATCAGAGCTCTGAAGGATGAGTTGCGGAAAAGAAAATCAGTTGTGAACC
AGCTGAAGAAGGAACAGAAAAAAGGCAAAAGGAAAGACTGAAAGCCCAAGAGCCAGTCTGATCAAGCAGTTAG
AGTCATATGATGAATTTATTAAGAAAAGTGAAGCCGAGCTTAGCCAAGATTTGGTAAACATACCAACAGCCAAGC
CTCAGATTAAACGCTCTCCTCAGCTTCTGAAAAACCCAAAGATCAAACCCCTCACACCACTACACAGATCTGAAA
CGGCAAGAATTGGAAATCACTAACAGAGTCAGAACGTTCCAGAGGATCCCTGGAGTCTATTGCTGAACATGTTG
ATGCTTCACTGTCTGGTTCTGAGAGATCAGTATCAGAAAGGTCTTTATCTGCATATGCAAAGAGAGTAAATGAAT
GGGACAGTGAACAGAAGATTTTCAGACCCCATCTCCAGTTCTCAGATCATCAAGGAAAATCAGAGAAGAATCTG
GAGATTCTCTAGAAAATGTACCTGCATTACATCTTCTCAAAGAATTAATGCCACTAGTAGAATCTTGTATATGT
CAGATGGCAAGGTTGGAGAATCTAGTAAAAAATCAGAAATAAAAGAAATAGAGTATACAAAATGAAGAAGAGTA
AGATTGAAGATGCCTTTTCTAAAGAAGGTAAATCTGATGTCTTACTGAAATTAGTCTTAGAACAGGGAGATTTCAT
CTGAAATCTTTCAAAGAAGATCTTCTTTAGATTCTGAAAATGTTTCAGAAAGACCTAGTTGGATTAGCTATTG
AAAATCTCCATAAAAGTGAGGAAATGTTGAAAGAGAGACAGTCAGATCAAGATATGAATCATAGTCCAAACATCC

5143/5332
FIGURE 4461C

AATCAGGAAAAGACATTACGAACAAAAGAACACAAAGGAAAAAGATTTGTCTTGGTCAGAACATCTTTTTGCTC
CTAAAGAGATACCATACTCTGAAGATTTTGAAGTGTCTTCTTTCAAGAAAGAAATTTTCAGCTGAATTGTACAAAG
ATGATTTTGAGGTGTCTATCTTTGCTGTCTCAGGAAAAGACTCTCAGTCTTGCAGAGATAAGCCACAGCCAATGA
GGAGCTCTACAAGTGGAGCCACTAGCTTTGGTAGTAATGAGGAAATCAGTGAGTGCCTAAGTGAGAAAAGCCTTT
CTATCCATAGCAATGTTCTATTCTGACAGGCTGTTGGAACCTCAAGTCCCCTACTGAGCTGATGAAAAGTAAGGAGC
GCAGTGATGTGGAGCATGAACAGCAAGTTACTGAATCCCCTTCTTGGCTTCAGTTCCTACTGCAGACGAGTTAT
TTGATTTCCACATTGGTGATAGGGTGTGATTGGAAATGTTTCAGCCAGGAATTCTTCGATTCAAAGGTGAGACTA
GTTTTGCTAAAGGATTTTGGGCCGGAGTGGAGTTAGATAAACCTGAAGGAAATAACAATGGAACATATGATGGTA
TTGCATATTTTGAGTGCAAAGAAAAGCATGGTATTTTGTCTCTCTCAAAAAATATCTCACATTCCAGAAAACCT
TTGATGACTATGTAGACATTAATGAAGATGAAGACTGTTACTCAGATGAACGATATCAGTGCTATAATCAAGAGC
AAAATGATACAGAGGGTCCAAAAGACAGAGAAAAGGATGTCAGTGAATATTTTTATGAGAAATCCCTACCTAGTG
TGAATGATATAGAAGCCTCAGTTAATAGAAGTAGAAGCCTTAAAATAGAAACAGACAATGTACAGGACATTTCTG
GGGTACTTGAAGCCCATGTTTACCAGCAGTCTTCAGTGATTTCACAGATTTCTTCAAAGGAAAACAAAGACCTCA
TTTCTGATGCCACAGAAAAGGTTTCCATCGCTGCAGAAGATGACACTTTAGACAATACCTTTTCCGAAGAATTGG
AGAAGCAACAGCAGTTTACAGAAGAGGAAGACAACCTATATGCTGAAGCTTCAGAAAAGCTTTGTACACCACTTC
TGGATCTTTTAACAAGAGAAAAAAACCAACTGGAAGCCAGCTGAAGTCATCACTAAATGAGGAAAAAAAGTCAA
AACAACTGGAAAAAATCAGCTTACTGACAGACAGTTTACTAAAAGTCTTTGTAAAGGACACAGTCAATCAAC
TACAACAAATCAAAAAAACAGGGATGAGAAAATCCAGCTTAGCAATCAGGAGCTTCTTGGTGATGACCAAAAGA
AAGTAACACCCCAAGACCTATCCCAAATGTTGAGGAACAGTCGCCAAGTATTTTCAGGTTGCTTCTTAAGTTCTG
AATTGGAAGATGAAAAAGAAGAGATTTCTCTCCAGATATGTGTCCAGACCGGAGAGCCAGTATTTGGTGCCA
GTGGGCAGGAAGAACTTGCTAAGAGACTTGCTGAACCTGAACCTCAGCCGGGAGTTCTTGAGCGCTTAGGAGATG
ATCAAGACTGGTTTGATGAAGACTTTGGTTTGAGCTCTTCTCACAAGATCCAAAAAATAAGGCAGAAGAAACCA
TTGTACCTCTAATGGCAGAACCTAAAAGAGTAACCCAACAACCATGTGAAACATTATTGGCAGTCCCCATACTG
CAGAAGAAGTAGAGATTCTTGACATAATGCAGCAGAAGAACTTTGGAAATGGAAAGAATTAGGCCACGATCTTC
ATAGCATCAGTATTTCTACAAAACCTGCTTGGCTGTGCCAGTAAAGGTCTAGATATAGAAAGCACTAGTAAAAGGG
TCTACAAACAGGCGGTTTTTGTATTTAACAAAAGAGATTTTGTAGGAAATATTTGCTGAGGATCCCACTTAAATC
AACCTGTCTGGATGAAGCCATGTAGAATCAACTCTAGTTATTTCCGACGAGTGAAAAATCCAAATAACCTTGATG
AAATCAAGAGCTTCATAGCAAGTGAAGTACTCAAGTTGTTTCAGTCTTAAAAAGGAGCCAAACCACAAAACAGATT
GGCAGAAAAATGATGAAATTTGGAAGAAAGAAAAGAGACCGAGTGGATCATATCCTGGTTTCAGGAGCTCCATGAGG
AGGAGGCACAGTGGGTGAACTATGATGAGGATGAGTTGTGTGTGAAAATGCAGCTAGCCGACGGGATCTTTGAGA
CCCTGATCAAAAGATACTATTGATGTTCTGAATCAGATCAGTGAAAAGCAGGGGAGAAATGCTACTTGTGTGACATC
TTGCAATAAAATCGAACGCTGAGTGCTAATGTGAGTCCCTGGGCCCTTCTGCCTCCTGATGTACACCCATCGCCAT
CATAGCAAGAGTGCTTCTGGACCTTGTAATTTCTTAAAGACTACCAGTATGGAGTTTCATAGGACAATGTGGTA
CACCTGGTATTACAGCCTTTGCCTTTTCGAGACTATCCACTGGATTAATGGGTTATTTTCAGTGGGCAGGGTTGCA
CAGTGTAATCCTACACCTTTTGCTAACACCCCTACTAGGTCCAGAGGGCCAGAAACACCTGACTTACCTCTGAG
TTTAGACTAGGGTATCACTTCTTTGAGTCTGAAGTCAAGTGAGAGAGGTATAGATAAATGCATCACATCACTTTT
GAAATGTAATTTCTGGTCTATACCATGGAAGTCATAAATGGACATTATAGTCTCTAAACAGTATTAACCCCTAAC
CACTTCTAAAAATAGGCAAGCTCAATAATGTCTGCCAAGTTTCACATTCTGGAGTTTATTTTCATTTCTTTTGAAGA
CCATTTTCTCCATTATTGTAGTTGAGCAGCACCAAGTGGACTGTCAGGCTAACAGGAATAAGTGGTAGCCTTGC
TTTCTGAGCACCATCTAAAGAATTTTAAACCTCTGCATTATGTTTAGTGTTCTCTGTGTGGGCATGAAAACAAAG
AAATGCCCTACTGAAGACTGGGCTCAAAGGACCAATGCAGGGCTGGTTCTTTTACCCCTTGGTTTACTCCTGCA
CTTGTCTTACTCTGAATCTCTACCAGCTGCTCCAGAATCACAGATACTCAGGACCATCTCAGGCATCCAG
GCATGGCAAAGTGGAAATAATTCATTTTGGCCTGCAAACCTTCAACTCCCATCTTTCCCAAGAAGTCAGAGATG
CTGTTACTTGAATGATTAGGAAATGAGTGTGTGCACCAAGACAAAAAGATATTGTCTATTGTTTGTGTGCTTG
TTTTGCGCTATGGAACATTTTAAATTTATTTTAAAGATAAATTATTAAGTTGAAATGTGTGTCCCTATTTCAGAA
GTGAAAGATTCTCTGTAATAGTTAAACCTCCATCTTGAAGCTTCTATGGTTTCATAGTCTTTGCACAGGAACCT
GTGGTTTTTAAACAAACCAATACACATATTGAAGAAGTCATTTTAAATTCAGTGAAACGAAGATGGGCTTTTCCAGAT
CACCTGCAATAGCAGCAGTGGGATAAAATGATTTAAAAACACTGTACAATTTAACTCTGCCTCTCTTGCAGCATT

5144/5332
FIGURE 4461D

GCTTCTCACAACCTATTACCTGCATCTGAAAAAAATCTATAGACTCCAGCTGCTACATTAGAGCATAAGAGATGC
TCTCCTGGGACCTCAGTACCCTGCCTTCTTGACTGGTTTCCGTTTCATCAGTCCTGTCCCTCTTCAAGTAATCTAG
AAGAATGTGGATACTCTTAGGCGTGAATGTAAATGCCTTAATATTGAAGGTCCTGGTTAGAAGCATGATACAAGA
CATCTACTGGATTTCATATTTACAAATATCCTGGAATGTTATAGCTTCAAAGTATATTAGAAAAACCCCAAAGATG
GTATAATCTTTAAGTGTGCACGTTTCGTTTATTTCTGCATCTTCCCTCCAAACTTGCCTTTGCATCTTAAATATTT
CACTATGCACACTCCCATTCCTCTTGGGTTTCATCTTGTCGTTTAAGAAATGTACTGAAATAATCATTGGAATAT
TTGCATTTTGCACAATGACTGGTATGATAGCTCTTGACAAATAAGGAAAGCACTGAAATGTTGTGATTGGGTCTC
GGGAAATGCTCAGATTGATGTCTTACCAGCATTTCTTCTGGGCTTGTGATGTTGAGCTGTAGTCTTGTAGCCATA
ATGAGCAAATTGACTAAGAGAAGCAAAGGTTTCTTGGGGTTATTAACCAGTAGTGTGGAAATACTAGTTTTATGT
GGCCAAGGAAAAGCAAAGGCTTTTCTTTTCAGTTTGTGTTATTTGGAAGACAGAAAAACATCTTGTCTACATCCT
TTGGCTGTTTGTAGGATCACGTTGTCCTTACGATACTGAACTTTACAGCTGCTGTAAATTTTTTATAAATGAAT
TTCAAAATGTTATAATGGGACTGTAGGTTGTTTTTCTACATCTTCATTATTTGGACCTAAAACCAGTTTTTAATA
AGAAAGTTTATCTTTACTCTTTCTGAAATTATGACTCCAG

5145/5332
FIGURE 4462

ATGTCGGACACGTGGAGCTCTATCCAGGCCACAAGAAGCAGCTGGACTCTCTGCGGGAGAGGCTGCAGCGGAGG
CGGAAGCAGGACTCGGGGCACTTGATCTACGGAATCCAGAGGCAGCATTGTCTCCAACCTTCCGTAGTGACAGC
CCAGTGCCTACTGCACCCACCTCTGGTGGCCCTAAGCCCAGCACAGCTTCAGCAGTTCTGAATTAGCTACAGAT
CCTGAGTTAGAGAAGAAGTTGCTACACCACCTCTCTGATCTGGCCTTAACATTGCCCCACTGATGCTGTGTCCATC
TGTCTTGCCATCTCCACGCCAGATGCTCCTGCCACTCAAGATGGGGTAGAAAGCCTCCTGCAGAAGTTTGAGCT
CAGGAGTTGATTGAGGTAAAGCGAGGTCTCCTACAAGATGATGCACATCCTACTCTTGTAACCTATGCTGACCAT
TCCAAGCTCTCTGCCATGATGGGTGCTGTGGCAGAAAAGAAGGGCCCTGGGGAGGTAGCAGGGACTGTCACAGGG
CAGAAGCGGCGTGCAGAACAGGACTCGACTACAGTAGCTGCCTTTGCCAGTTCGTTAGTCTCTGGTCTGAACCTCT
TCAGCATCGGAACCAGCAAAGGAGCCAGCCAAGAAATCAAGGAAACATGCTGCCTCAGATGTTGATCTGGAGATA
GAGAGCCTTCTGAACCAACAGTCCACTAAGGAACAACAGAGCAAGAAGGTCAGTCAGGAGATCCTAGAGCTATTA
AATACTACAACAGCCAAGGAACAATCCATTGTTGAAAAATTTTCGCTCTCGAGGTCGGGCCCAAGTGCAAGAATTC
TGTGACTATGGAACCAAGGAGGAGTGATGAAAGCCAGTGATGCTGATCGACCCTGTCGCAAGCTGCACCTTCAGA
CGAATTATCAATAAACACACTGATGAGTCTTTAGGTGACTGCTCTTTCCTTAATACATGTTTCCACATGGATACC
TGCAAGTATGTTCACTATGAAATTGATGCTTGCATGGATTCTGAGGCCCTGGCAGCAAAGACCACACGCCAAGC
CAGGAGCTTGCTCTTACACAGAGTGTCGGAGGTGATTCCAGTGCAGACCGACTCTTCCCACCTCAGTGGATCTGT
TGTGATATCCGCTACCTGGACGTCAGTATCTTGGGCAAGTTTGAGTTGTGATGGCTGACCCACCCTGGGATATT
CACATGGAAGTGCCTATGGGACCCTGACAGATGATGAGATGCGCAGGCTCAACATACCCGTACTACAGGATGAT
GGCTTTCTCTTCTCTGGGTACAGGCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAA
CGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCATTTCGGACAGGCCGTACAGGTCAGTGG
TTGAACCATGGGAAGGAACACTGCTTGGTTGGTGTCAAAGGAAATCCCCAAGGCTTCAACCAGGGTCTGGATTGT
GATGTGATCGTAGCTGAGGTTTCGTTCCACCAGTCATAAACCAGATGAAATCTATGGCATGATTGAAAGACTATCT
CCTGGCACTCGCAAGATTGAGTTATTTGGACGACCACACAATGTGCAACCCAACTGGATCACCTTGGAACCAA
CTGGATGGGATCCACCTACTAGACCCAGATGTGGTTGCACGGTTCAAGCAAAGGTACCCAGATGGTATCATCTCT
AAACCTAAGAATTTATAG

5146/5332
FIGURE 4463A

GGGTCTGAGACGGTGGGAGCGGTTGTGTGAAGATGGAGTTTCCCGGAGGAAATGACAATTACCTGACGATCACAG
GGCCTTCGACCCCTTCTGTGAGGGGCCGAGACATTCATACACCAAGCTTGGGTGATGAGGAATTTGAAATCC
CACCTATCTCCTTGGATTCTGATCCCTCATTGGCTGTCTCAGATGTGGTTGGCCACTTTGATGACCTGGCAGACC
CTTCCTCTTCACAGGATGGCAGTTTTTTCAGCCCAGTATGGGGTCCAGACATTGGACATGCCTGTGGGCATGACCC
ATGGCTTGATGGAGCAGGGCGGGGGGCTCCTGAGTGGGGGCTTGACCATGGACTTGGACCACTCTATAGGAACTC
AGTATAGTGCCAACCCACCTGTTACAATTGATGTACCAATGACAGACATGACATCTGGCTTGATGGGCATAGCC
AGTTGACCACCATTGATCAGTCAGAAGTGGTTCCAGCTGGGTTTGGAGCCTAGGGGGTGGCACCATCCTGCCAC
CTGCCAGTCACTGAAGATCGTCTTTCAACCACCCCTTCACCTACTAGTTCACTTCACGAGGATGTTGTTGAGG
ATTTCCGGAGGCAACTTCCAGCCAGAAGACAGTCTGGTGGAAAGCAGGGGAAAAGCAGAAGGCCCAAGAAAGA
GAAAAAGAAAAGATCCTAATGAACCTCAGAAACAGTTTCAGCATATGCTTTATTCTTTCTGTATACACAGGCTG
CCATCAAGGGACAGAATCCTAATGCCACTTTTGGTGAGGTTTCAAAAATTGTGGCCTCCATGTGGGATAGTCTTG
GAGAGGAGCAAAAACAGGTATATAAGAGGAAAACAGGCTGCCAAGAAAGAGTATCTGAAGGCACTGGCTGCTT
ACAAAGACAACCAGGAGTGTGAGGCCACTGTGGAAACAGTGGAAATTGGATCCAGCACCACCATCACAACTCCTT
CTCCACCTCCTATGGCTACTGTTGACCCAGCATCTCCAGCACCAGCTTCAATAGAGCCCCCTGCCCTGTCCCCAT
CCATTGTTGTTAACTCCACCCTTTCAICCTATGTGGCAAACAGGCATCTTCTGGAGCTGGGGGTGACCCCAATA
TCACCAAGTTGATTATTACCAACAAATGTTGCCCTCTTCTATTACTATGTCTCAAGGAGGGATGGTTACTGTTA
TCCCAGCCACAGTGGTGACCTCCCGGGGGCTCCAAGTGGCCAAACAGTACAGCTACTATCCAGCCAGTCAAC
AAGCCCAGATTGTCACTCGGTCAAGTGTGAGGCAGCAGCAGCTGCTGCTGCTGCTGCTTCTATGCAACTGCCTC
CACCCGACTACAGCCCCCTCCATTACAACAGATGCCACAGCCCCGACTCAGCAGCAAGTTACCATTCTGCAGC
AGCCTCCTCCACTCCAGGCCATGCAACAGCCTCCACCTCAGAAAGTTGCAATCAATTTACAGCAACAGCCTCCTC
CTCTGCAGATCAAGAGTGTGCTCTACCCACTTTGAAAATGCAGACTACCTTAGTCCCACCAACTGTGGAAGTA
GTCCTGAGCGGCTATGAACAACAGCCCTGAGGCCCATACAGTGGAGGCACCTTCTCCTGAGACTATCTGTGAGA
TGATCACAGATGTAGTTCCTGAGGTTGAGTCTCCTTCTCAGATGGATGTTGAATTGGTGAGTGGGTCTCCTGTGG
CACTCTCACCCAGCCTCGATGTGTGAGGTCTGGTTGTGAGAACCCTCCCATTGTGAGTAAGGACTGGGACAATG
AATACTGCAGCAATGAGTGTGTGGTGAAGCACTGCAGGGATGTATTCTTGGCCTGGGTAGCCTCTAGAAATTCAA
ACACAGTGGTGTTGTGAAATAGTCTTCTTCTCCAAGCCAGTGAAGAGTTATCTGCTGGGAAAGTGTCCAA
GAGCCTGTTTTTGAAACACAAGCTGGGCTTCTGGTAGTGCTCATCACAAACCATGATGGCTGTTATGTTTAC
CCTTTTCTTCTTTCAGCAGAGGCCAGGCTATGGAGCAGGGCCACTGAATTTGCTGTAATCTGGAGATGCTTTTT
ACTTTCAACCATAGCGGTAATAGCAGAGGAAAGGGTGAAGGGAGTCTGGGCAAGCAAAGCATAGAGATGGTGGG
GTGGTGGTGGGGTTGAAGAAACTTGTGGTATAATTGTCTATAGGACTTGCCATAAATATTATTAAATTTACGGGA
GTGTACTCAGCTTTGAGCCTAGGAGAAAATGCCACTGTGTGCATCCATTTTAAAGGGTTCCCTCATAAAAAATG
TTATTCCCCATTATCACATCAGTACACTGCTTTGAAAACAAAACCTTTTCAACATGGGCATACTGGGCTACATGGA
AAATGACATCACCCAGGAGTGATTTCTCTTTATATATATTATTCTGCAGTTACCATCCTTATCTGAGTTATCAC
AGTTCATGAATCTAAGAGGCGGAACTCTACATCATTAGTAAGAGGTTCCACCAAAGTCTAAAGTTGTATTCACTT
GTGTTTGATGAACTATCTTTAAAAGACCATAGGTCTATCATTATTTCTTAGACATAATCTAAAGAAAAACAGA
AGAGAAGCCACCTGGTTGTAACAGAATAAGCAGAAGTTTACAGCATGATAGTCCAAGTGGTGATAACTTTAAATA
AAACTCAAATTTTACTGTTTGTAGACAGGAATGCTGTCTAGAGAACCCTCCTCCTCAACCAGCTACGTACATAG
TTTATCCTATGCATTCTGTTTTCTGTGTGTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTC
GCTGTGTCACCCAGGCTGGAGTGCAGTGGTGCAGCTCAGCTCACTGAAACCTCTGCCTCCCGGGTTCAAGCGAT
TCTCCTGCATCAGCCTCCCGAGTAGCTAGGATTACAGGCGCCCGCCACTACGCCCAGCTAATTTGTGGTATTTT
AGTAGAGACAGGGTTTACCATTGTTGGCCAGGCTGGTCTCGAATCCTGACCTCATGATCCGCCCCGCTTGACCT
CCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCAGCCTGCATTCCTGTTTTTTTAAATGGTTTTTGAGGG
TAGCAGTAGAGATGGGGTCTCACTATGTTGCCAGTCTAGTCTTGAATCCTGGGCTACAGTTACCTCCTACCT
CGGCTTCCCAAAGTGCTCGGATTACAGGTGTGAGCCACTGTGCCTAGCCTATAATGATCATTTTAAATGTTTCCCA
TGCACTCATTTAGTTTGAACCTTCACAGCAACCCAAATGAGGTAATACTCCATTTCACATATAATACTGAGAGAT
GAGTTGCACAAGATTATACACTGTTAAGTAGCAGAGCCAGAATGGACTTCAGAATCCCAACTACAATACAAATGT
TTATTTAAATAAAGAAGAAAGCTATTGTACAAATATCACTCTTCAGGTTTAGCTTACAGAGCCATGGCTATGGAT
TCTTAGCTCTGTAAGGAAGTGCTTCTATAAATCTTAGGTTTAGAGATGATACCATCTGGGTACCTTTGCTTGAA

5147/5332
FIGURE 4463B

CCGTGCAACCACATCTGGGTCTAGTAGGTGGATCCCATCCAGTTGGTTTCCAAGGGTGATCCTGAAACAGTGTA
AAGGAGGGGCAAACCAGAAATCCTGGAATTAGAGGGTTTAATATTGTTAAAAATGCATACCAAATGAAGACTGC
CTATCATCATATCAAATATGCCAATTCTAAAAAGAGCTTAACATTAGAATAGTATATGGTAGAATTACTAGTTCA
GAATTGGCATAGATTCTGGTGTAAAAATAGACTGGATCTGTATTATCTGAGGGTTAGTAACTAATGCTTAGCCAG
GCCTGCTTCACAGAGTTGCTACCAGGGAGTATTCTTTGGATAAGCAAATGCTAGCAGCATGTGTTTTAAGCTCT
GTTAAGGGGTGAAAGATGTAATTATTGACAGATTAAATAGATAACTTCGTAACCACCAGGGGGCAGATTCAATAC
ATCACAGAAATGGCTGAGGAAGATCCTTGGGTGTGAAGAGAGTAGAAACCCTAGGGAGCAGTGCTTTTGGGTCTT
AGAACCTGTTGAGTTTCTAATGAATATTGTAGAATCTCATAAAACAGTTTAAATACAAGCTT

5148/5332
FIGURE 4464A

CCAAAGGGGCGAGGTCATACCAACATGCTTAATCTACTTAACACAATGATGGAGTTGCGCAAGTGCTGCAACCACC
CATATCTCATCAATGGTGCTGAAGAAAAATCCTAACAGAATTCCGTGAAGCTTGCCATATTATACCTCATGACT
TTCACCTGCAGGCCATGGTTTCGTTTCAGCCGCAAACTGGTTCTTATTGACAAGTTGCTTCCAAAGCTTAAAGCTG
GTGGCCATAAAGTTCTGATCTTCTCTCAGATGGTGCGCTGCCTAGACATCCTAGAGGATTATTTAATCCAGAGGA
GGTACTTATATGAACGTATTGATGGGCGAGTTAGAGGCAACCTTCGACAGGCTGCCATTGACCGCTTCAGCAAGC
CTGACTCAGACCGCTTTGTCTTCTTACTGTGTACCCGGGCTGGTGGACTTGGTATTAATCTTACAGCTGCTGATA
CCTGCATCATCTTTGATTGAGACTGGAATCCACAAAATGACCTGCAGGCCAGGCACGATGTCATCGAATTGGGC
AGAGCAAAGCTGTGAAGGTGTACCGCCTCATCACTCGTAATTCCTACGAGAGAGAGATGTTTGATAAGGCCAGCC
TCAAGTTGGGGTTGGATAAGGCTGTGCTTCAATCCATGAGTGGTTCGGGATGGCAACATTACTGGAATCCAACAGT
TCTCTAAGAAGGAGATTGAAGATCTTTTAAAGAAAAGGAGCATATGCAGCCATCATGGAGGAAGATGATGAAGGCT
CCAAGTTTTGTGAAGAGGACATTGACCAGATCTTGTAAAGACGAACCTACAACCATCACCATTGAATCTGAAGGAA
AAGGTTCCACCTTTGCTAAGGCAAGCTTTGTTGCTTCTGAAAACAGGACAGATATTTCTTTGGATGACCCCACT
TTTGGCAAAGTGGGCCAAAAAGGCTGACCTAGACATGGATCTGCTCAACAGCAAGAATAATTTGGTAATTGACA
CACCTAGAGTACGAAAACAAACGCGCCACTTTAGCACTCTGAAAGATGATGACCTGGTGGAAATCTCTGATTTGG
AAAGTGAGGATGATGAGCGGCCACGCTCCCGCAGACATGACCGTCATCATGCCTATGGGCGCACTGACTGCTTTC
GGGTGAAAAGCATCTCCTGGTATATGGTTGGGGACGATGGCGAGATATTTTATCTCATGGACGCTTCAAGCGAC
GTATGACTGAACGAGATGTGGAGACCATTGTGCGGGCCATTCTCGTGTACTGTCTTCTACACTACCGTGGGGATG
AAAATATTAAAGGCTTCTCTGGGACTTGATTAGCCAGCTGAAAATGGCAAGACAAAAGAATTGCAGAATCATT
CAGGTCTATCTATCCCTGTGCCTCGTGGACGCAAGGAAAAAAGTAAAGTCACAAAGCACTTTTGATATCCATA
AGGCAGATTGGATCCGGAATATAACCCTGACACTTTGTTCCAAGATGAAAGTTATAAGAAGCACTTGAAACATC
AGTGTAACAAGGTACTGTTGCGGGTACGAATGCTATACTACCTGAGGCAGGAGGTTATTGGAGACCAAGCAGAAA
AGGTGTTAGGGGGTGCGATTGCCAGTGAGATTGACATATGGTTCCAGTAGTGGATCAACTGGAGGTTCCAACAA
CTTGGTGGGACAGTGAGGCTGACAAGTCGCTGCTCATTGGAGTCTTTAAACATGGCTATGAGAAATATAATACCA
TGAGGGCAGACCCAGCCTTATGTTTCTAGAAAAGGCTGGCCGACCAGATGACAAAGCAATTGCAGCAGAACATC
GAGTGTGGATAAATTCTCTGACATAGTAGAAGGGGTTGACTTTGATAAAGATTGTGAAGATCCTGAATATAAAC
CACTCCAAGGTCCCCCAAAGGACCAAGATGATGAGGGTGATCCCTTGATGATGATGGATGAGGAGATCTCAGTGA
TTGATGGAGATGAAGCCAGGTGACCCAACAGCCAGGCCATTTATTCTGGCCTCCGGGCTCTGCCCTAACAGCTA
GGCTTCGGCGTCTAGTAACAGCGTATCAGCGCAGCTACAAGAGAGAACAATGAAGATAGAGGCTGCAGAACGTG
GGGACCGCGGAAGGCGGCGTTGTGAAGCAGCCTTCAAGCTGAAAGAAATTGCACGGCGGGAGAAAACAACAGAT
GGACAAGGCGTGAACAACTGATTTTTATCGAGTGGTGCTACGTTTGGTGTGGAATATGACCTTGACACCATGC
AGTTCCATTGGGATCGCTTCCGCACTTTTGCTCGACTAGACAAAAAGACAGATGAAAGCCTTACCAGTACTTCC
ATGGCTTTGTGGCCATGTGCGCCAAAGTATGCCGCTTCCCCAGCAGCTGGAGATGAACCCCCGACCCTAACCC
TGTTCAATTGAGCCCATCACTGAGGAGAGAGCCTACGGACTCTCTACCGTATAGAATTGCTTCGGCGCTTACGGG
AACAAGTTTTATGCCACCCCTTTTGAAGATCGGCTGGCATTGTGTGAGCCTCCTGGTCTGAATTGCCCAAAT
GGTGGGAGCCTGTTCGGCATGATGGGGAGCTTCTAAGAGGGGCGAGCCCGCCATGGGGTGAGCCAAACAGACTGCA
ACATCATGCAGGACCCAGACTTCTCTTTTCTGGCTGCCGATGAATTATATGCAGAACCATCAAGCAGGAGCAC
CAGCTCCATCCCTTGTCACGCTGCTCTACTCCACTGCTGCACCAGCAGTATACCTCACGCACTGCCTCACCAGTGC
CCCTGCGCCAGATGCTCCTGTTGAAAAGTCACCCGAGGAGACAGCTACCCAGGTCCCAGTCTGGAGAGTCTGA
CTTTAAAGCTAGAGCAGGAGGTGGTGGCCAGGAGCCGACCAACCCCAAGACTATGAGATGCGAGTATCCCCCT
CTGATACTACCCCTCTGGTTTCCCGGAGTGTTCCACCAGTCAAAGTGGAGGATGAGGATGATTGGGACTCTGAGC
TGGACTTGAGCAAGCTGTCAACCATCTTCTTCTTCTTCTCATCTCATCCAGCTCCAGCTCCAGCACTGATGAGA
GTGAGGATGAGAAGGAAGAGAAGCTAACTGACCAAGTCCCGCTCAAAGCTCTATGATGAAGAGAGTCTCTGTCCC
TCACTATGTCCCAAGATGGATTCCCAAATGAAGATGGAGAACAATGACCCCTGAGCTTCTGCTACTGCAAGGAAA
GACAAAGAGCCTCTGAGTGGCCCAAGGATCGTGTCTGTATAAACCGTATTGACCTCGTCTGCCAGGCTGTACTCT
CAGGGAAGTGGCCTTCTAGCCGTAGGAGCCAGGAATGGTAAACAGGAGGAATTTGGGGCCAGGCAACCATTGC
TAGACAGTCCCTCATTGACTCCTGGAGAATATGGTGACTCTCCAGTCCCCACACCACGAAGTAGTAGTGCAGCTT
CCATGGCAGAGGAGGAAGCATCTGCAGTCAGCACAGCGGCCAGTTCACCAAACCTTCGCCGAGGCATGGATG
AAAAGGAGTTTACAGTTCAAATCAAAGATGAGGAAGGATTGAAGTTAACATTCCAGAAGCACAAAGTTGATGGCGA

5149/5332
FIGURE 4464B

ATGGAGTAATGGGAGATGGACATCCACTGTTTCATAAGAAGAAGGGGAACAGAAAGAAGCTAGTAGAGCTGGAGG
TGGAGTGCATGGAAGAGCCTAATCACCTTGATGTGGACCTGGAGACCCGGATCCCTGTCATCAATAAGGTGGATG
GTACTTTGCTGGTGGGTGAGGATGCCCCCTCGCCGGGCTGAACTGGAGATGTGGTTACAGGGTCATCCAGAGTTTG
CTGTTGATCCCCGATTTCTAGCGTATATGGAGGATCGCAGAAAACAGAAGTGGCAAAGATGTAAAAAAATAATA
AGGCAGAATTGAACTGTTTGGGAATGGAACCAGTACAGACAGCTAACTCTAGAAATGGGAAAAGGGTCATCACA
CTGAAACGGTGTTCAACCGGGTTTTGCCAGGGCCTATTGCACCAGAGAGCAGCAAGAAGCGGGCCCGTAGGATGC
GACCAGACCTTTCTAAGATGATGGCCCTCATGCAGGGTGGAAAGCACTGGGTCTCTATCTCTGCATAACACGTTCC
AACACAGCAGTAGTGGCCTACAGTCTGTGTCACTTTGGGTACAGCAGTGCCACTTCTGCATCTTTGCCTTTTA
TGCCATTTGTGATGGGTGGTGCACCATCATCCCCTCATGTAGACTCCAGCACCATGCTTCATCACCACCACCACC
ACCCCCACCCCCACCATCACCACCATCACCATCCAGGCTTGAGAGCCCCCTGGCTACCCCTCTTCACCAGTGACTA
CCGCCTCTGGTACTACCTTGCGGTTGCCACCACTGCAACCTGAGGAGGATGACGATGAGGATGAAGAAGATGATG
ATGACTTATCTCAGGGCTATGATAGCTCAGAAAGGGACTTCTCACTCATTGATGATCCTATGATGCCAGCTAACT
CAGACTCCAGTGAAGATGCTGATGACTGAAGCCCCAGCATGGGCCCCATTGCTTGGGCGGCTGCTGTATTTTCAT
TTACTCTGGCCCTTGGAATATGGAACGTGGGAGGGGCAGGGGAGATGTGGGGAAGTCCAGGACTCCAGGAGGTG
AAAAGGAAAAAAAAAAAAAAAAATGTACCTGATTGCTCCCAATTATGAGAGGATTGGGTGGGCAGGGGAACCTCTAA
AATAATACATGACCACTTCCTCATTTCTGGGGAAGGAAAGGAGACTAGAGCAGCTGGTGTGCTCACCCTCCCTA
GTCACCTCCATTAACCACAGACTATGTAGCGCTGGCCCTAGCCTCTGGCAGAGCCTGTTCTGGCCGAACCTGTGG
ATACAGCTGGAGGGTCAGGAAGTGTACCTTCTTTCCCTTGGCATTAAATAAATTTAAGTTAATCCTT

5150/5332
FIGURE 4465A

GGCAGACCGTCACTGACGACGTCGATTGCGGTGCGGCAGTGGCGAAGTTGACAAAACCCCGCGAAAATCGACTCT
TTGCATCGCACATTTTGTGATTTTCCCTCGTTTTTCTTCTCTTTCCCCCGTCCATCCGAAAGAGGGTTGGA
AAAAAACAAAAACAAACAAACAAACAAAAAAACCTAACGCTGTTGGGACCCGGAAGCGGAAAGGGCATCTTG
AGGTCGATACTTCCGGGTCATTGGGAGAGTGC GG GATTCTTGGGCCGAGAGCGGGTGGCTGAGCCGGGACCTCGC
GTGATTCTCGGAACCCGAGGAGAAGCGGCGTCCGGGGCTATGGCTGTGACTCTGGACAAAGACGCTTATTATCGG
CGAGTGAAGAGACTGTACAGCAATTGGCGGAAAGGAGAAGATGAGTATGCCAACGTTGATGCCATTGTTGTATCA
GTGGGTGTTGATGAAGAAATTGTTTATGCCAAATCAACTGCCTTACAGACATGGCTCTTTGGTTATGAACTAACT
GATACTATCATGGTCTTTTGTGATGACAAAATCATCTTTATGGCCAGCAAGAAAAAGTGGAGTTCTTGAAAACAG
ATTGCCAACACTAAGGGCAATGAGAATGCTAATGGAGCCCTGCCATCACACTGCTAATACGAGAAAAAGAAATGAA
AGTAATAAGAGTAGCTTTGACAAAATGATTGAAGCCATTAAAGAAAGCAAGAATGGCAAGAAGATTGGAGTGTTT
AGCAAAGACAAATTCCTTGGAGAGTTTATGAAGAGCTGGAATGACTGCCTCAACAAAGAAGGCTTTGACAAAATA
GATATCAGTGCAGTTGTGGCATATACCATCGCTGTAAAGGAGGATGGGGAGCTCAACCTAATGAAGAAAGCAGCC
AGCATCACTTCTGAAGTCTTCAACAAATTCTTCAAGGAAAGAGTCATGGAAATAGTTGATGCAGATGAGAAAGTT
CGACACAGCAAACTGGCTGAGTCTGTGAAAAGGCCATTGAAGAGAAAAAATACCTTGCTGGGGCAGACCCTTCT
ACTGTGAAAATGTGTTACCCTCCTATCATTAGAGTGGTGGCAACTATAATCTCAAGTTTCAAGTGTGGTGAGTGAC
AAGAATCATATGCACTTTGGGGCTATCACTTGTGCCATTGGGTATTCGCTTCAAGTCTTACTGCTCCACCTTGT
CGCACTTTGATGGTTGATCCTTCTCAAGAAGTTCAAGAAAAATAACTTTTGTCTCAGCTTCAAGAGGAGCTG
CTGAAGGAATTGAACATGGTGTGAAGATTGTGACGTTATAACCGTGTATGACGCTGGTTAAAAAGCAGAAG
CCAGAAGTGTGACACAAATTTACCAAAAACCTAGGGTTTGGGATGGGAATTGAATTCCGTGAAGGCTCCCTAGTA
ATCAATAGCAAAAAATCAATACAAACTGAAGAAAGGAATGGTTTTACAGCATCAATTTAGGATTCTCAGACCTGACT
AACAAGGAGGGGAAAAAGCCAGAAGAGAAAAACCTATGCCCTGTTTATTGGTGACACAGTGCTTGTGGATGAGGAT
GGCCCAGCTACTGTTCTCACTTCTGTGAAGAAGAAAGTGAAGAATGTGGGGATTTTCTAAAGAATGAAGATGAG
GAAGAAGAGGAGGAGGAGAGAAAGATGAGGCAGAGGACCTTTTGGGAAGAGGTTCTCGGGCAGCATTACTTACAGAA
AGAACAAGAAATGAAATGACTGCAGAAGAGAAGCGAAGAGCACATCAGAAAGAACTAGCGGCTCAACTCAATGAA
GAAGCAAAGAGGCGATTGACTGAACAAAAGGGAGAACAGCAGATTGAGAAAGCTCGCAAGTCTAATGTGTCCTAT
AAAAACCCATCTCTGATGCCTAAGGAACCATATTCGGGAAATGAAGATCTACATCGATAAGAAATATGAGACT
GTAATAATGCCCGTGTGTTGGCATTGCAACACCGTTTACATTGCCACAATCAAGAATATAAGTATGTCCGTGGAA
GGAGATTATACTTACTTGGCAATCACTTTTATTGCCCAGGCAGTGCTCTGGGCAGGAATGAAGGCAACATCTTT
CCTAACCCCTGAAGCGACTTTTGTCAAGGAAATTACATACCGAGCATCAAATATTAAGGCACCCGGAGAACAGACA
GTACCAGCCTTGAACCTTCAGAATGCTTTCCGAATTATTAAAGAAGTACAGAAACGTTATAAACTCGAGAAGCT
GAAGAGAAAGAGAAGGAGGGGATTGTAAACAAAGACTCACTGGTGATCAATCTAAACCGGAGTAATCCGAAACTG
AAAGATCTATACATTGCCCCAAATATTGCCCAAAAGAGGATGCAAGGCTCACTGGAGGCCCATGTCAATGGCTTC
CGCTTCACATCTGTTGAGGAGACAAAGTGGATATTTTGTACAATAATATTAAGCATGCTTTGTTCCAGCCCTGT
GATGGAGAAATGATTATTGTCTTGCACTTTACCTCAAGAATGCCATCATGTTTGGGAAGAAGCGGCACACGGAT
GTGCAGTTCTACACAGAAGTGGGAGAGATAACCAOGGACTTGGGGAAACATCAGCATATGCATGACCGAGATGAC
CTCTATGCTGAGCAGATGGAACGAGAAATGAGGCACAACTGAAAACAGCCTTTAAAAATTTTATTGAGAAAGTA
GAGGCTCTAACTAAGGAGGAACTGGAAATTTGAAGTGCCTTTTAGGGACTTGGGATTTAACGGAGCTCCCTATAGG
AGTACCTGCCTCCTTCAGCCCACTAGTAGTGCGCTGGTAAATGCTACGGAATGGCCACCTTTTGTGGTGACATTG
GATGAGGTAGAGCTGATCCACTTTGAGCGGGTCCAGTTTACCTGAAGAACTTTGATATGGTAATCGTCTACAAG
GACTACAGCAAGAAAGTGACCATGATCAACGCCATTCTGTAGCCTCTTTGACCCCCATCAAGGAATGTTTGAAT
TCCTGCGACCTGAAATACACAGAAGGAGTACAGTCCCTCAACTGGACTGAAATCATGAAGACCATTTGTGATGAC
CCTGAGGGCTTCTTGAACAAAGGTGGCTGGCTTTTCTGAGGCTGAGGGTGAGGGAGTGATGCTGAAGAAGGG
GATTCAAGAGTCTGAAATTGAAGATGAGACTTTTAACTCTTCAGAAGATGACTATGAAGAGGAAGAGGAGGACAGT
GATGAAGATTATTCACTCAGAAGCAGAAGAGTACAGACTATTCTAAGGAGTCACTGGGTAGTGAAGAAGAGAGTGGGA
AAGGATTGGGATGAACTGGAGGAAGAAGCCCGAAAAGCGGACCGAGAAAGTGGTTACGAGGAAGAAGAAGAACAA
AGTCGAAGTATGAGCCGGAAGAGGAAGGCATCTGTGCACAGTTTGGGGCCGTGGCTCTAACCGTGGTTCCAGACAC
AGCTCTGCACCCCCCAAGAAAAAGAGGAAGTAACTTCTGAACTTTGGCCCTGAGCTCCATTCTTCTCCAGCCAA
CCCCTGAAAATTTTACATGACATAGAACTGTATTTTCTTTCTGTTTTTCACTTGAAGTTTGGCATTGTGTTT

5151/5332
FIGURE 4465B

ATGGGTTTAGGGGGCCATTGTGTGGACCAATCTACTCGGGGAATTCCAGGCCACCAGGACACGTGCCAATGGC
CCCATTCAGATGGCAAGGGAGGAGGTGTTCTTGAAGACAGGAGGAGGCTCCCGCTGTAAATAAATATTGTTTCAT
TCTTCTCTCTTCTGTACCTTCTGCCAAGACATTGATGGCTTCTGACATCTTATTTGGTGTCTCAAAGCTGTAT
TTCCAAGACAGTGGTACAAGGTGACCCTTAATTACCCGTATCATGGTTCTTGACCAGCACATTCAATCCTCCAAC
CTACCCTACTGCCATGACCTTCCGCACATCTCTAAGTTTTATCTTTGCAATACTCAAGGTTCTCGGAAATTTGCT
AATGGTTGTGATAAACCATAACAGCTTGAGCCAGTGAGGCAGATTGGGCTGGTGCCTTCGTCTGAGTTTTCTGCT
TTCTGCTCGTGCAGATTCTGAGGTATATCTGCTGCCTTGGAAAGACATAAGAAGCAGTGATACTCCCTGGCTCG
GTTATTTTCTCCATAACAATGCACACATGGTACAATGATAGAAGGCCAAAATTGCCACTGTCTTCTTTTTTTCTCA
TATATCTAAGGAAGATATATCAGGTTGTGCCTCATGTACCGCTTCTAGTGAAATGTAGAGGAAGGCTCAAAGGAG
TCAACATTTATATCTGGAAGGGACAAGTCATGCCTTGGGCCTAGAATACCCTGATGAGAAAAGAGAAGAGGAAGG
GAGGCCATATCTACAACACAGCCTCTCGGCACCTGCTGCTCCTTATTTTAACTTTGTCTTGCAATTGCTCCTGTATTT
ATCACAGTTTCTGTTGAACAGCTTTTCAAGTATTTGGGGAGTTTATCTTGCCATCCTCCCCTTCTGGTTCTCTGC
ACCCACCTGTCCCACTGCAGTTCCTTCCGTGCTCTGTGACTTTAAGAGAAGAAGGGGGAGGGGTCCCGGATTTT
ATGTTTGTGTTTTTTTCTCCTTAGCAGTAGGACTTGATATTTTCAATTTTGGAAGAACTAAAAGATGAATAAAC
TGGGTTTTTTTTGTTGTTTGTGTTTTGT

5152/5332
FIGURE 4466

TTTTGTGAAGAGACGAAGACTGAGCGGTTGTGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCCTTCTTGTGAGATTTTTTGAICTTCAGCTA
CATTTTCGGCTTTGTGAGAAACCTTACCATCAAACACGATGGCCAGCAACGTTACCAACAAGACAGATCCTCGCT
CCATGAACTCCCGTGTATTTCATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTT
CGAAGTATGGCAAAATTGTGGGCTGCTCTGTTTATAAGGGCTTTGCCTTCGTTTCAGTATGTTAATGAGAGAAATG
CCCCGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACTGGCTGCAGAGC
CAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGGTCAGTAACAGAACACCCTT
CTCCGTCCCCTCTACTCAGCTCCTCTTTTGACTTGGACTATGACTTTCAACGGGACTATTATGATAGGATGTACA
GTTACCCAGCAGTGTACCTCCTCCTCCTTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCGTGTATCAG
GAAACACTTTCACGAAGGGGCAAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAATG
AAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTCTCTGGAAAAC
CTGGAAAAAATTGAAAAGGAACAGAGCAAAACAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGCAGAGC
AGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAG
GGGGACCTACTGGATGATGATGATAATGAAGATCGGGGGGATGACAGCTGGAGTTGATCAAGGATGATGAAAAA
GAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAG
AAATCTTATCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCTCTCCCCTAGTA
TCTTCAGCACATGCTCACTGTTCTCCCCATGCTTGTCTTCCCATGTTTATTATTCATATTGCCCCGCGCCTAG
TCCCATTTTCACTTCTTTGACGCTCCTAGTAGTTTTGTGAAGTCTTACCCTGTAATTTTTTGCTTTTAATTTTGA
TACCTCTTTATGACTTAACAATAAAAAGGATGTATGGTTTTTATCAACTGTCTCCAAAATAATCTCTTGTTATGC
AGGGAGTACAGTTCTTTTCATTACATACATAAGTTCAGTAGTTGCTTCCCTAACTGCAAAGGCAATCTCATTTAGT
TGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTACACCCTCACATTAGTGTGCTGTGTGGGGCA
GTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCCTCTAGAAAAATAATT
AGTGTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTTATTTTTGTGAACAGCCTGATGTTTGGGA
CCTTTTTCTCATAAATAAACAAGTCCTTATTAAACCAGGAATTTGGAG

5153/5332
FIGURE 4467

ACACCGGCGTGCTCGCAAGAGGCGGGAAAGCGTTAGGGAGAGACGCGGGTCGCAGGGTCCCTCCCTCTGCCTGCC
CTATCTACCCGCGCTGCCAGCGAGCCTGTCCATCTTCAGCGCCCAGGCCCTAGGGGAGGGGACGAGAAAAGGCCCC
GCGCTTCTGACTCATCATCTCCAACCCCTTTCTCGCGCGCGCTCCAAGTCTCAGGACTTCGGACCTGGGCCCTCC
TGCGAGGGGGGTGCGGCGACAGCATCTGGGAAGCCCCAGCTCTGCCAAGCGTCAGCTCCGAGCCCTCGCCAGTCTC
TGAAGCTGCCAGCGCAGGGCTGGGGACCCAGATCCAGCTCTCTATTGCAGTGGCTGGGGGAGCGGCACGCCAGTG
CAGGACCGCCCCGCGCGCTCCTCCCCGAACGCGGGGCCAGTGGTTCGCGTCCGAGAAAGCGCCAGGCTAGGCCCCG
ACTTCCCCGCGCTCGCGTCACTCAGCACATCCAACAGCGCCCCCTACCGCGGAGAGAAGGCTCTTTATTTCTAGCC
GGTCACGGGCTAGCGGGGCATCCTGGGACTTGTAGTCTCCGCTACAGTAGAAAGGAGATGGATCGAAAGGGGAAC
TGGGGCACTCCTGAATTGGATTAGGGAGTTGGCGTGTGCAGGGTCCGGGATTTGGAGTGGATGGGATTATGAAA
GGTGGACAGAAAAGAAAAGTGCATGAGGCAAATGTGAAGCTGTATGGGGAGGTGACAGGAAGAGAGGATATGGA
TGCAAGGGAGAAAAGCAGCTTTTCAGGGTGGTGAGGTGAGGATATATTCTCGTCCAGGTGTATCTTCCCTAACAG
GGAAGGAACGAAAAAAGGGCCTGCTTTGAGTGAAAAGTGAAGGCACTCCCGGACTTCCTATTGGACTCGAAGGAT
CCCAGCAAGCTTCTGAGTTTGGTGGGGTGGGATGCAGGAATGTCTGGAGAGCATTCTCTCAGGGTGAAGGAGAG
CAGCACGTGTCTGTTCCCGCTGTCCACCCCTCTCATTGTCTCTGTCTGGCCACCGTGGGACCATTCTCCAAAC
CAGGAACCTCTTCCAACCTCAGAGAAGCCCTGAAAACCAGAGACAGGTGTGAGCAAATTGTAGAGGTGAGAAAGGA
GAAACCCAGACAGAAACAAGTCTTCTCCTGCCCAATTTTCTATCCTGTTTCCCATAGTCTGCCAATATTTA
GGCAGCTTCTAATGCTTTCCCACTCTTTAACCTCAATCATTGGATTCCCAGTTTCTCTTACCCACCATTAG
GGGAGAAATGTTCAAAGCCAGAGAAAGCCAATCAGTTTCAATTCTAGGACCTCTTCTTTTCTCTCTGCCCCATTA
TTTTCCCTTAAGTGCCACTGACCAGGATAGGCAGTGGAAAAATTAGTTGGCAGCTAGCTATTCTGTGCTTCTTCC
CTGCCCCCATACTCCTGCAGCTCTTGATAGTGCAGACTCTGGCTCCTGCAGCATCCTGGTTTCTCTGGCTCAG
CAAGAAATAGGGCGTGCACTGAGACCAGCACTCCCCCTAGGGTGAAGGCCTCAGCACTGAGTTCCAGCACCAGCAA
GCCAGCATGCTGCAGGTAGACAGGGCTGAGAATGCAGGGACCCCGCACCTGTTTGCCCCCTGCCCTTTTCCCTTCC
CACCTCCTCTTGCTCCTTATCCTCCCACCTTCTCCTTCATTGACCAGTACCTGGGAGGAGGCAGTTGGGGCAGG
CCCCAAGGCTGTCTTCATCACCTCGACCACCACCCTATGAAACCCAAGATCAAGTTGAAGGTGTTGAATATCAT
CATGGCCCGCACCTGCCAGTGAGCAGCTCAGCCCTGCCAGCCTAGGGGAGTCATTCCAACCTCAATCCCCACT
TGCAGCCTAGCTGAAGACAAAACCTCAGCTTCTGCTTCTCAGCCTCCAAACAGGGCCATAAGCCCTCTTAACTTTT
TTGCTTTCTCCTCAGTGATTGAGGCCAGTCAGTGGTGACAGCTGAGAGAATGAGTCAACACTTAGCCACTTACT
TCTTAGGCTGAGGGTTGTAGGTGTCTGTTTTAGGGAGTGGGAGGACAGTGCTGCGTTTTCTTCCCTCTACCTTC
CAAAGGCGGGGTGCTCTGCGAAGCTCCAGAGTGACAGTCCCAGTGAGGAGACCCTGAATGGTGAGAAGGGCAAGT
GTTGAGCTCTGGTCCCGTTAGGAAGGGGCCCTGGGACCTTCCACCCTCCCTTGTGGTGGGTCTTACTGAGGCTCC
AGGCCAAGAGGCAGCGCTGTGGCCATGTGACAATCAGAGTTCAGGCAGGCGACTGAGACAGCAAGGGGCACCAC
AACCCTGCCAGCCATAGCTGGCTCACCTGGGGTAAGGGTAGGGTAATTGGGGAGGAACTGTCAGGGATTCCCT
CCCTTCTCGTAACTCCTACCTCTTTAGAGATCAGGAAATGGGATTGAATGCAGGGTGGAGGAAAGCAGTCAACCC
AGAGCAAGGACGTGATCATTAAAAATTAAGTATCATT

FIGURE 4468

[illegible]

5155/5332
FIGURE 4469

CGGCCCCCGCATTCCCCGCCCCACCTCCCCGCCTTGTTGTCCAACCTTCTCCCGGAGCAGCCGGAGAGCAGGCG
TCGGGACGCAGCAAAGAGAGGAGAGGCCACCAATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACT
GTTGCCAGGACAGACGCCTGAGGCGGCCAAGGAGGCTGAGTTAGCTGCCGAATCCTCCTGGACCAGGGACAGAC
TCACTCTGTGGAGACACCATAACGGCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAAACGCCAGCGAT
CCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAGTTCGAGGACATGCAGGA
AATCATTAGAACCTTTGTGCGGGTTCATGTGGATGCCCCCTGGAATGGAAGAGGGAGCCCCCTGTGTTCCCTTTGGG
ATATCAGTACCCATCTCTGGACCAGCTTGACAGACATGATCCCTTGCGTCTGCAGTACCTAAATTTCTCTACAAT
AATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGATATGCTCTTAACCAACCCGGACACTGTTGAAGG
TCTTGTCTCATCAACATTGATCCCAATGCCAAGGGTTGGATGGATTGGGCAGCCACAAGCTAACAGGCCTCAC
CTCTTCCATTCCGGAGATGATCCTTGACATCTTTTTCAGCCAGGAAGAGCTCTCTGGAAATTCTGAGTTGATACA
AAAGTACAGAAATATCATTACACATGCACCCAACCTGGATAACATTGAATTGTACTGGAACAGCTACAACAACCG
CCGAGACCTGAACCTTTGAGCGTGGAGGTGATATCACCTCAGGTGTCCTGTGATGCTGGTGGTAGGAGACCAAGC
ACCTCATGAAGATGCAGTGGTGAATGTAACCTCAAACTGGACCCCCACCCAGACCTCGTTCTCAAGATGGCTGA
CTCCGGAGGTGAGCCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCTGCAAGGCATGGG
CTACATGGCCTCATCCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGA
TGGCAACCGGTCCCGCTCTCGCACCCCTGTCCAGAGCAGCGAGTCTGGAACCTTTTCTTCGGGGCCCCCGGGGCA
CACCATGGAGGTCTCCTGTTGAATGGCCCTTGTTGCCCTAGAGTGGGACCCAGCCCTCACCTCCCCCAGAGCTAA
CCTGGGAGGTGCTGAAGGGGCATTGGGCCACCGTAAGCAAGGGAAAAAGGGCAGATCATCGGGGAGATGACCTT
GATCTTTGATTGCTACCCTAACCTTGACCTTTAACCCGTGATTCCCCCAGCTCCTGGAAGAGATGTCCTAATAT
CTCTTAGGGACCCAGACCCCTAAATTCTCCTCCTCCCCATTTTGATGTAAAGGTGGAGAGGGCATATGCATCCT
CTGTCTGATCTAGGTGTCTATAGCTGAGGGGTAAAGAGTTGTTGTAGTTGCTTGGTGCCTCCATCAGACTCTC
CCTA¹CTTGTCCCATATTTGCAAGGGGAGGGGATTGGGGCTGGGGCTCCATTACCAAAGCTGAGGTGGCTTCTC
ATTAACCCCTTTAGGACTCTGAAGGGTATGGACCTACGTGAATGTGTGTCAGGGGGAGACTTGCTGGTGGGTTAGT
GGTCCTCAGGATGTGATAGAAACATCCAGTGTA²AAAAGGAAGTTGGAATGGGAGTTGGCGGGCAGTGAACGAGTG
TGGGGAAGGATTGGTGTGGGGCAACAGGAAGGGGCCTGGGGCCGTTTGGCTGCACTAACTTTGGTAGCTCAGTG
TGCATCTAGAGTGGGACTGGGGAGGGAGCTAAGCTTGGGCTGGGGCTGCTTGGGGCTTGGCATAGGGTGGAAAGGG
CTACCCTGGGGCTCTGACCACACTGTAGTATGTGTGGAGGGTGCCCTCCCGTCTCCCACTTCTGCTATAACA
ATAAACTGTAGAGGAATCTGAGTACCGTT

5156/5332
FIGURE 4470

GTTTCCGGTTTCGCCTCCGGAGCCATGGCGGCGGCACTGAAGTGTCTACTGACATTAGGAAGATGGTGCCCCGGCC
TTGGAGTGGCTCCCCAGGCCCGGGCGCTCGCCGCCCTTAGTACCCGGAGTGACCCAGGTAGATAACAAGTCCGGTT
TCCTGCAGAAGAGGCCTCATCGCCAGCACCCCTGGCATCCTAAAGCTGCCGCACGTGCGGCTGCCACAGGCACTGG
CTAACGGTGCCAGTTATTGCTACTTGGGAGCGCTGGGCCCCACTATGGAGAATCAGGTGCAAACTGACCAGTT
ATCTCTGGAGCAGACATTTGCCTGTAGAGCCAGAGGAGTTGCAAAGACGGGCTAGGCATCTTGAGAAAAAATTCC
TGGAAAACCCAGACTTATCTCAGACAGAGGAGAACTTCGTGGAGCAGTGCTACACGCACTACGTAAAACTACCT
ACCATTGGCAAGAACTGAGCTACACTGAGGGACTGAGCCTGGTGTATATGGCAGCAAGACTGGATGGTGGCTTTG
CAGCAGTCTCCAGAGCATTCCATGAGATCCGGGCTCGAAATCCAGCATTTTCAGCCACAACTTTGATGGACTTTG
GCTCAGGTACTGGTTCTGTACCTGGGCTGCTCACAGTATTTGGGGCCAGAGCCTACGTGAATATATGTGTGTGG
ACAGATCAGCTGCCATGTTGGTTTTTGGCAGAAAACTACTGAAAGGTGGTTCAGAATCTGGGGAGCCTTATATTC
CAGGTGTCTTTTTTCAGACAGTTTCTACCTGTATCACCCAAGGTGCAGTTTGATGTAGTAGTGCAGCTTTTTCTT
TAAGTGAAGTGGCCAGCAAGGCTGACCGCACTGAGGTAGTTCAAACCTTATGGCGTAAGACAGGTCATTTCTTG
TACTGGTGGAGAATGGAACAAAAGCTGGGCACAGCCTTCTCATGGATGCCAGGGATCTGGTCCTTAAGGGAAAAG
AGAAGTCACCTTTGGACCCTCGACCTGGTTTTGTCTTTGCCCCGTGTCCTCATGAACTCCCTTGTCCCCAGTTGA
CCAACCTGGCCTGTAGCTTCTCACAGGCGTACCATCCCATCCCCCTTCAGCTGGAACAAGAAACCAAAGGAAGAAA
AGTTCTCTATGGTGATCCTTGCTCGGGGGTCTCCAGAGGAGGCTCATCGCTGGCCCCGTATCACTCAGCCTGTCC
TTAAACGGCCTCGCCATGTGCATTGTCATTGTGCTGTCCAGATGGGCACATGCAGCATGCTGTGCTCACAGCCC
GCCGGCACGGCAGGGATTTGTATCGTTGTGCCGTGTGCTCCTGGGGAGATCTTTTACCTGTGCTTACTCCGT
CTGCGTTTCTCCATCTACGGCTCAGGATCCCTCTGAGAGTTGATGAGGATGTGTAACAAGTATTTTCTTCTATC
GTGCCTGCCAGGGCTGAAGCTGCCTGGTATCCAGGAGGGGAATGCTGGTATCCCCATATGTCTGTGTTTGTGTTGA
GATTTTAAATAATAATAATAAATTTTTGAAGAATGG

5157/5332
FIGURE 4471

AGAGACTTGGGTTTTGCTCCCTAGGAGCCCTGGAATAGCTTTGGCCAGAATTCCCTATCTCCCATTAGAACCTCT
CCTTTGCGTCCCTTTGTTAACCTCCAAGTCTACTTGGTGAAAACGCCCACGAAGAAGTAACAAGGACTTTGTTCCCT
AGTGTGCCAGGTTTGGGCACCAAGTGCTGTAGTGGCTTTCTCTGCTGCTCCTTGTGCATCAGCAGACAGATGTGGT
TCACATAGGAAGAAAGACTAACGTAGGCAAAGATTTGCTCTTTCTTCAGCAGCCCTAGAAAGACGGCGGCCTGGG
TGATTCACCACTCCTTCCTCACGTCCTTGATTTTATTTGAACTGAGCTCCAGATGCTCCTCCACCCCTTTTCCTC
TTGGAAGCCAAACCCCTTTGTAATCTGTATAAGGTCCACACCCCGGGAGCTGAGTGATTGCAGAACTGGCCTTC
CATCTCTCTCAGACACCAAGCTGCAGATCCAGGCTTTTCTGGGAAAGTGAGGCCACCATGGCTCTGGAGAAGTCT
CTTGTCGGGCTCCTTCTGCTTGTCTGATACTGCTGGTGCTGGGCTGGGTCCAGCCTTCCCTGGGCAAGGAATCC
CGGGCCAAGAAATTCAGCGGCAGCATATGGACTCAGACAGTTCCCCCAGCAGCAGCTCCACCTACTGTAACCAA
ATGATGAGGCGCCGGAATATGACACAGGGGCGGTGCAAACCAGTGAACACCTTTGTGCACGAGCCCTGGTAGAT
GTCCAGAATGTCTGTTTCCAGGAAAAGGTACCTGCAAGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGC
ATGCACATCACAGACTGCCGCCTGACAAACGGCTCCAGGTACCCCAACTGTGCATACCGGACCAGCCCGAAGGAG
AGACACATCATTGTGGCCTGTGAAGGGAGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC
TAAGGTCAGAGCAGCGAGATACCCACCTCCCTCAACCTCATCCTCTCCACAGCTGCCTCTTCCCTCTTCCTTCC
CTGCTGTGAAAGAAGTAACTACAGTTAGGGCTCCTATTCAACACACACATGCTTCCCTTTCCCTGAGTCCCATCCC
TGCGTGATTTTGGGGGTGAAGAGTGGGTTGTGAGGTGGGCCCCATGTTAACCCTCCACTCTTCTTTCAATAAA
ACGCAGTTGCAACACCTGAAAAAAAAAAAAAAAAAAAAAAAAA

5158/5332
FIGURE 4472

CACGCCGACCCCTCCACACCTCACCACGCCCCCATCTCCGTCCGTGTACACACACTCACACAAGGACGCCAACCCC
ACCTAGATGCAAAGCAGGATTCAAAGAACATCTTTGCGTTTTCTACCGGCTCCCCATCATCGTACTAGGGAGGA
AGAAGCGGGTGAGAAACAAAACCTTTTCCATTGTCCTGCCCGTTTCTGCGGACTTGTTCTGAGGCCGAGGCACC
TCTAAGATACTGATGGCTCTGCAGAGGACCCATTTCATTGCTTCTGCTTTTGCTGCTGACCCTGCTGGGGCTGGGG
CTGGTCCAGCCCTCCTATGGCCAGGATGGCATGTACCAGCGATTCTGCGGCAACACGTGCACCCTGAGGAGACA
GGTGGCAGTGATCGCTACTGCAACTTGATGATGCAAAGACGGAAGATGACTTTGTATCACTGCAAGCGCTTCAAC
ACCTTCATCCATGAAGATATCTGGAACATTTCGTAGTATCTGCAGCACCACCAATATCCAATGCAAGAACGGCAAG
ATGAACTGCCATGAGGGTGTAGTGAAGGTCACAGATTGCAGGGACACAGGAAGTTCCAGGGCACCCAACTGCAGA
TATCGGGCCATAGCGAGCACTAGACGTGTTGTCATTGCCTGTGAGGGTAACCCACAGGTGCCTGTGCACCTTTGAC
GGTTAGATGCCACCATGTAGGGATTATCGCGAGTGAGTTGACCTTACACTTACTCCTTAAATAGCAGTGAGTAATG
CATTTGAGCTGTCCAGGCTCTGTCTCCTCAGCTCATTTCCTACTCTTTTTCTCTATATAACTCATTCTATTAAA
TACATTGCACCAAAGAGATATGGAGACATAAACCTGTAATGAATGAGGCTGGGCTTTTTCTGTAATAAGCTTCCTT
TTATAATACTGGTCAGCTTAGCTCTCTCAGATCCTATCCTGTGGAATTTAGTTATTATGTGTATTTATGTAGTAT
TTCAAACATTTCAAATGCTTTTCATCTATGTTTATCACATTTTAATACCACAGCACTTATAATGATGTCACTACA
TATAGAAGCTCAAAGTTAAGGGATTTGCTGAAGACTGTAAAGTTAATGGAAGAATTGAGACAAAATCCAGTGTA
GCTGGCCACTTATCCAGGGCTTTTTCTACTTCATCACAAGGAATGTTTGAAAGTGTCTGCTTTTTTTATCCTTA
AAATTCACCTGTCAGGGAGGCATTAAAAATTTGGAATGTATGCCAGCAAAATGTGAGCTCTGTATTTTTTGGCA
TTCTTATGTTTGGGTTTAATAAGATTAAGAAAATGATACTGGGAATTTCTTTTCTGAACTTTGAATCACCC
TAGTAAGTCAAAGTACTAAAAATGTACTAGATCATTAAAGACTTATGTGCTCTTACTGATTGAAAGATTTTTAT
GTTTTCTTGTATAAAGGACCTAAACCGAAGGTACCTG

5159/5332
FIGURE 4473

ATGATGCCGTGTCAGAGAGCAAAGCTCCTGTCCTTTTGGCCTAATTTGGTGATGCTGTTCTTGGGTCTACCACAC
CTCCTTTTGGCCTCCGCAGGAGCCTGTGTTGGAAGAGATGGTGATGGGCCTGGGCGTTTTGTTGTTGGTCTTCGT
GCTGGGTCTGGGTCTGACCCCAACGACCCTGGCTCAGGATAACTCCAGGTACACACACTTCCTGACCCAGCACTA
TGATGCCAAACCACAGGGCCGGGATGACAGATACTGTGAAAGCATCATGAGGAGACGGGGCCTGACCTCACCTG
CAAAGACATCAACACATTTATTTCATGGCAACAAGCGCAGCATCAAGGCCATCTGTGAAAACAAGAATGGAAACCC
TCACAGAGAAAACCTAAGAATAAGCAAGTCTTCTTTCCAGGTCACCACTTGCAAGCTACATGGAGGTTCCCCCTG
GCCTCCATGCCAGTACCGAGCCACAGCGGGGTTTCAGAAACGTTGTTGTTGCTTGTGAAAATGGCTTACCTGTCCA
CTTGGATCAGTCAATTTTCCGTCGTCCGTAAACAGCGGGCCCTGGTCAAGTGCTGGCTCTGCTGTCCTTGCCTT
CCATTTCCCCTCTGCACCCAGAACAGTGGTGGCAACATTTCATTGCCAAGGGCCCAAAGAAAGAGCTACCTGGACC
TTTTGTTTTCTGTTTGACAACATGTTTAATAAATAAAAAATGTCTTGATATCAGT

5160/5332
FIGURE 4474

AACTGTGCGAACCAGACCCGGCAGCCTTGCTCAGTTCAGCATAGCGGAGCGGATCCGATCGGATCGGAGCGGATC
GGAGCACACCGGAGCAGGCTCATCGAGAAGGCGTCTGCGAGACCATGGGAGAACGGATACACCTATGAAGATTATA
AGAACACTGCAGAATGGCTTCTGTCTCACACTAAGCACCGACCTCAAGTTGCAATAATCTGTGGTTCTGGATTAG
GAGGTCTGACTGATAAATTAACCTCAGGCCAGATCTTTGACTACGGTGAAATCCCCAACTTTCCCCGAAGTACAG
TGCCAGGTCATGCTGGCCGACTGGTGTGTTGGGTTCTGAATGGCAGGGCCTGTGTGATGATGCAGGGCAGGTTCC
ACATGTATGAAGGGTACCCACTCTGGAAGGTGACATTCCCAGTGAGGGTTTTCCACCTTCTGGGTGTGGACACCC
TGGTAGTCACCAATGCAGCAGGAGGGCTGAACCCCAAGTTTGAGGTTGGAGATATCATGCTGATCCGTGACCATA
TCAACCTACCTGGTTTTAGTGGTCAGAACCCTCTCAGAGGGCCCAATGATGAAAGGTTTGGAGATCGTTTCCCTG
CCATGTCTGATGCCTACGACCGGACTATGAGGCAGAGGGCTCTCAGTACCTGGAAACAAATGGGGGAGCAACGTG
AGCTACAGGAAGGCACCTATGTGATGGTGGCAGGCCCCAGCTTTGAGACTGTGGCAGAATGTCGTGTGCTGCAGA
AGCTGGGAGCAGACGCTGTTGGCATGAGTACAGTACCAGAAGTTATCGTTGCACGGCACTGTGGACTTCGAGTCT
TTGGCTTCTCACTCATCACTAACAAGGTCATCATGGATTATGAAAGCCTGGAGAAGGCCAACCATGAAGAAGTCT
TAGCAGCTGGCAAACAAGCTGCACAGAAATTGGAACAGTTTGTCTCCATTCTTATGGCCAGCATTCCACTCCCTG
ACAAAGCCAGTTTGACCTGCCTTGGAGTCGTCTGGCATCTCCACACAAGACCCAAAGTAGCTGCTACCTTCTTTGG
CCCCTTGCTGGAGTCATGTGCCTCTGTCCCTTAGGTTGTAGCAGAAAGGAAAAGATTCTGTCTTACCTTTCCC
ACTTTCTTCTACCAGACCCTTCTGGTGGCAGATCCTCTTCTCAAAGCTGGGATTACAGGTGTGAGCATAGTGAGA
CCTTGGCGCTACAAAATAAAGCTGTTCTCATTCTCTTTCTTACACAAGAGCTGGAGCCCGTGCCCTACCAC
ACATCTGTGGAGATGCCAGGATTTGACTCGGGCCTTAGAACTTTGCATAGCAGCTGCTACTAGCTCTTTGAGAT
AATACATTCCGAGGGGCTCAGTTCTGCCTTATCTAAATCACCAGAGACCAACAAGGACTAATCCAATACCTCTT
GGA

5161/5332
FIGURE 4475

ACTGGTTGCGGAGTGAGCTGGGCGCGCGCGCAGGCGCCCTGGGGACCCGGTAGCGGCGGTGGCGGTGGCGGC
GGTGGCGGTGGCTGCGGCGACGGCAGAGGCGAAGGGAGCCGGATCGCCGACCTGAGCGGGAGGCGGCGGTGGCGG
CCATGGCGGCAGATGGAGAGCGTTCCCGCTGCTGTCTGAGCCCATCGACGGTGGCGCGGGCGGCAACGGTTTAG
TGGGGCCCGGCGGGAGTGGGGCTGGGCCCCGGGGAGGCGCTGACCCCTCCGCACCACCGTACGGAGCCGCATTTT
CCCCGTTTCCCGAGGGGCATCCAGCCGTGTTGCCTGGGGAGGACCCACCCCCCTATTACCCCTTAAGTAGCCCGG
ACAGTGGGAGTGGCCCTATGATCACCTGCCGAGTCTGCCAATCTCTCATCAACGTGGAAGGCAAGATGCATCAGC
ATGTAGTCAAATGTGGTGTCTGCAATGAAGCCACCCCAATCAAGAATGCACCCCGAGGAAAAAATATGTTTCGAT
GCCCCGTGAAGTGTCTCCTTATCTGCAAAGTGACATCCCAACGGATTGCATGCCCTCGGCCCTACTGCAAAAGAA
TCATCAACCTGGGGCCTGTGCATCCCGGACCTCTGAGTCCAGAACCCCAACCCATGGGTGTCAGGGTTATCTGTG
GACATTGCAAGAATACTTTTTCTGTGGACAGAGTTACAGACCGCACTTTGGCACGTTGTCTCTACTGCAGGAAAG
TGTCATCTATTGGGCGCAGATACCCACGTAAGAGATGTATCTGCTGCTTCTTGCTTGGCTTGCTTTTGGCAGTCA
CTGCCACTGGCCTTGCCCTTTGGCACATGGAAGCATGCACGGCGATATGGAGGCATCTATGCAGCCTGGGCATTTG
TCATCCTGTTGGCTGTGCTGTGTTTGGGCCGGGCTCTTTATTGGGCCTGTATGAAGGTCAGCCACCCTGTCCAGA
ACTTCTCCTTGAGCCCTGATGACCCACAGACTGTGCCTGGCCCCCTCCCTGGTGGGGACAGTGACACTACGAAGGGAG
CTGGGGTAGTTAAAGGCTCCCGGGCTTCTAGAAGGAAGCCAAGCAGCTGCCTTCCTTTTCCCTGGGGAGAGGTA
GGAAGGAACCAGGCCCTCACTTAGGTTTGGAGGGGCAGATAAGAGCACTGCTGACCATCTGCTTTTCTTCCAAGGG
TTGCTGTGTCTAGGGTGAAGTAGGCAAAACGTTGCCCTTAAACTGGGCCCTGAAGACGGTTCCAGCCTTGTCTCT
TCCTGTGTGCTCCCTGAGAGCCATTCTGTCCCTTACACATTCCAGGGCAGGGTGGGGGTGGGTAGCCCTGGGGG
TTCCCTCCCTCTTGTGCACCATTAGGACTTTGCTGCTGCTATTGCACTTACCAGAGGTTGGCTCTGGCCTCAG
TACCCTCAGTCTCCTCTCCCCACATTGTGTCTGTGGGGGTGGGGTCAGCCGCTGCTCTGTACAGAACCACAGGA
ACTGATGTGTATATAACTATTTAATGTGGGATATGTTCCCTATTCTGTATTTCCCTTAATTCCTCCTCCCGAC
CTTTTTTACCCCCCAGTTGCAGTATTTAACTGGGCTGGGTAGGGTTGCTCAGTCTTTGGGGGAGGTTAGGGACT
TATCCTGTGCTTGTAATAAATAAGGTCATGACTCT

5162/5332
FIGURE 4476

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCCTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCCTTAATTA
AGATCCTCAATTGGCTGGAGGGGAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCAAGGGCGTTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCAGCCCTGTATGAGGACCCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCT
GCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAAATGTTTCAGAGAACAACTACCAGCTGAACCTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCCCGCCAGTGGCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCCTATGCCTACA
CCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGTTGTCCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCTATCACCCAT
ACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCATTCTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTTAAGCCCAAGATTTTTTATTGAGGGTTTTTTGTTTTTAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTC

5163/5332
FIGURE 4477

AGTGCTATCTGCAGGCTGGCCAGCTTCCTCTGCGCTCCGGAAGCTGCGGCCAGCGCGGACTAGTGAGGACCTC
CACAGCTCCTGACATTGCCAGGAGTCCTGTGCGCGTTTTCTCCAGCCTCCGCCATGCCGCGGGTGCTGGGTTTT
GAAGGCAGCGCCAATAAGATTGGCGTGGCGTGGTGCGGGATGGCAAGGTGCTGGCGAACC CGCGGCGGACTTAC
GTCACGCCCTCCTGGCACAGGATTCTTCCAGGTGATACAGCCAGGCATCACCGAGCTGTTATCCTAGACCTGCTG
CAGGAGGCACTAACAGAGTCTGGATTAACCTCCAGGATATCGACTGCATTGCATACACCAAGGGCCCTGGCATG
GGTGCCCCACTGGTTTTCTGTGGCTGTTGTGGCCCGTACTGTGGCCCAACTGTGGAATAAGCCATTGGTGGGTGTG
AACCCTGTATAGGCCACATTGAGATGGGCCCGCTCATCTGGAGCCACCAGCCCAACCGTGTGTATGTGAGT
GGAGGAAATACGCAGGTGCCTGTAATCCTAGCAACTCCGGAGGCTGGGCAGGAGAATCACTTGAACCCAGGAGGC
GGAAGTTGCGGTGAACCGAGATCGCACCATTGCATTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAACAA
ACAAACAAACAAAAACAAAAACAACTAAAGGACACTACCTGATTTATTATTTTGGGTGATTGCATACTCG
GAACATCGTTACCGTATCTTTGGGGAAACCATCGATATTGCAGTGGGTAATTGTCTGGATCGTTTTGCTCGAGTG
CTGAAGATTTCTAACGACCCAAGTCCAGGATACAACATTGAACAGATGGCAAAGCGAGGCAAGAAGCTAGTTGAG
CTGCCATACTGTAAAGGGGATGGACGTCTCATTCTCAGGGATCCTGTCTTTTATTGAGGATGTAGCCCATCGG
ATGCTGGCCACAGGCGAGTGTA CTCTGAGGATCTGTGTTTTCTCCCTGCAGGAACTGTGTTTGCAATGCTGGTA
GAGATCACAGAGCGAGCCATGGCACATTGTGGCTCCAGGAGGCCCTCATTGTGGGAGGAGTGGGGTGTAATGTG
AGGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGTGGAGCCCCGGCTTTTGCTACAGATGAGAGATTCTGT
ATTGACAATGGAGCGATGATAGCCAGGCTGGCTGGGAGATGTTTCGGGCTGGACACAGGACCCCACTCAGTGAT
TCTGGGGTTACACAGAGGTATCGGACAGATGAAGTAGAGGTGACCTGGAGGGACTAATAAGATCAACAGAATCAG
AGTAGATAGTTCCTTAATCGGAACCCAAAGGACCCCGTGCCTCAATCTCTATCCTGATGTGATGGGAGTCCTAGC
AAAGCTATAGACTCCAAGCAAGGCTTGGGGTCTTTTATGGAACCCCAAGGATGACTCAGCAATAAAATATTTTGG
TTTTTTGGTTTTGTATGTTGGTGATTGGATTGTGTTGTTTTCAGGACCAATGTAGATTTGGTGCTGGATAAATTCTT
GTTGGAGCTTGCTGCTGTGGAACCAAGAATGAGGTATCTTTTTTTTTTTTTTAAGAAACGGAATCTTGCTGTGT
TTCCAGGCTGGTCTCGAACTGGGCTCAAGCAGTCTTACCACCTCAGCCTCCTGAGTAAGGATGCCATTGTGCCT
GGCAACAATAGTAGTATCATACTATTATTATAGCATCGGGTCCCGTGCTAACTGCTTTACATTCACTCTCAT
TTAAATTCTTTGAAGTAGGTGTGCAAGACTTCTCTCAAATAGCCTGGAGGCTCACACCTGTTATCCAGTGCTG
TGGGAGGCCAAGTCAGGAGGATCCCTTGAGCCAGGAGTTTGAGCCAGCCTGGGCAATAGCAAGACACCATCT
ATTTGAAAAATGTAAAAATTATCTGGGCATGGTGGCGCACATCTGTAGTCCAGCTCCAAGGGAGGCTGAGGCGG
GAAGATAGCTTGAGCCAGGAGTTTGAGGTTGCAGTGAGCTGTGATTGAGCCACTGCATTCCAGCCTGAGTGACA
GAACAAAACCTTGTCTCTTAAAAACAAACAAACAAACAGCCTGGAGATTGGTCTAACTTGT

5164/5332
FIGURE 4478

CCATGGCGGCGCGGCGGCGACGGAGCACC GGCGGCGGCAGGGCGAGAGCATTAAATGAAAGCAAAGAGTTAATA
ATGGCAACACGGCTCCAGAAGACTCTTCCCCTGCCAAGAAAACTCGTAGATGCCAGAGACAGGAGTCGAAAAAGA
TGCCCTGTGGCTGGAGGAAAAGCTAATAAGGACAGGACAGAAGACAAGCAAGATGGTATGCCAGGAAGGTCATGGG
CCAGCAAAGGGTCTCTGAATCTGTGAAGGCCTTGCTGTTAAAGGGCAAAGCTCCTGTGGACCCAGAGTGTACAG
CCAAGGTGGGGAAGGCTCATGTGTATTGTGAAGGAAATGATGTCTATGATGTCTATGCTAAATCAGACCAATCTCC
AGTTCAACAACAACAAGTACTATCTGATTTCAGCTATTAGAAGATGATGCCAGAGGAACCTTCAGTGTGTTGGATGA
GATGGGGCCGAGTTGGGAAAATGGGACAGCACAGCCTGGTGGCTTGTTTCAGGCAATCTCAACAAGGCCAAGGAAA
TCTTTCAGAAGAAATTCCTTGACAAAACGAAAAACAATTGGGAAGATCGAGAAAAGTTTGAGAAGGTGCCTGGAA
AATATGATATGCTACAGATGGACTATGCCACCAATACTCAGGATGAAGAGGAAACAAAGAAAGAGGAATCTCTTA
AATCTCCCCTGAAGCCAGAGTCACAGCTAGATCTTCGGGTACAGGAGTTAATAAAGTTGATCTGTAATGTTTCAGG
CCATGGAAGAAATGATGATGGAAATGAAGTATAATACCAAGAAAGCCCCACTTGGGAAGCTGACAGTGGCACAAA
TCAAGGCAGGTTACCAGTCTCTTAAGAAGATTGAGGATTGTATTCGGGCTGGCCAGCATGGACGAGCTCTCATGG
AAGCATGCAATGAATTCTACACCAGGATTCCGCATGACTTTGGACTCCGTACTCCTCCACTAATCCGGACACAGA
AGGAACTGTGAGAAAAAATACAATTACTAGAGGCTTTGGGAGACATTGAAATTGCTATTAAGCTGGTGAAAACAG
AGCTACAAAGCCCAGAACACCCATTGGACCAACACTATAGAAACCTACATTGTGCCTTGCGCCCCCTTGACCATG
AAAGTTATGAGTTCAAAGTGATTTCCAGTACCTACAATCTACCCATGCTCCACACACAGCGACTATACCATGA
CCTTGCTGGATTTGTTTGAAGTGGAGAAGGATGGTGAGAAAGAAGCCTTCAGAGAGGACCTTCATAACAGGATGC
TTCTATGGCATGGTTCCAGGATGAGTAAGTGGGTGGGAATCTTGAGCCATGGGCTTCGAATTGCCCCACCTGAAG
CTCCCATCACAGGTTACATGTTTGGGAAAGGAATCTACTTTGCTGACATGTCTTCCAAGAGTGCCAATTACTGCT
TTGCCTCTCGCCTAAAGAATACAGGACTGCTGCTCTTATCAGAGGTAGCTCTAGGTCAGTGTAATGAACTACTAG
AGGCCAATCCTAAGGCCGAAGGATTGCTTCAAGGTAAACATAGCACCAAGGGGCTGGGCAAGATGGCTCCCAGTT
CTGCCCCTTCGTCACCCTGAATGGGAGTACAGTGCCATTAGGACCAGCAAGTGACACAGGAATTCTGAATCCAG
ATGGTTATACCCTCAACTACAATGAATATATTGTATATAACCCCAACCAGGTCCGTATGCGGTACCTTTTAAAGG
TTCAGTTTAATTTCTTCAGCTGTGGTGAATGTTGATATTAATAAACCAGAGATCTGATCTTCAAGCAAGAAAA
TAAGCAGTGTTGTACTTGTGAATTTTGTGATATTTTATGTAATAAAACTGTACAGGTCT

5165/5332
FIGURE 4479

CTCCACTTTCTTTCCCTCTCCGTTTTGGTGGGCTGGTTGAAGATGAAATCCACTGAGGAGGGAAGTCCAGCACCC
TGTGTGCCAGTCCAGAAGTGGCCCATCTGTAGACCCCTGAAAATCATATGGGCTTGGATTTGGATATTCTCAAC
AGAAAGGGTTAAAGGCTGATGGTACCTAAAGCCTGGTACTTGAATTTTGATCAAGATAAGCTGCCTTAAGTTCTC
TTCATTACACAAATGATCCTAGATAATTGATAGATCCTGTGGTTCAACTGGATTTCTAGATAGAAGCTGGATTCA
TGTGATGCCAGAGGAGTAAAATTTCAAGAGACTGAAACCAGATCTGAGTTTCGCTGTTCCAGTCTGGACCTCTTT
GGTGCTGTAAATCCTGGATATACTGTAGATGAGTACTGCGTTTTTCTTTTATGGACTCTCTTCAGCTTCTGGAGA
CCTCACTATCCTATTATGTCCTTTGTGTGAAGACATGCTGCTTTGTAATTATCGAAAGTGTGCGATCAAACCTCTCT
GGCTATGTCATGGGTCAGTGCCTGCTCTCACATCTTCTGTGATCAGCATGGCAGTGGTGAGTTTAGTCGCTCACCA
GCTATCTGTCCTGCCTGCAACAGTACCCTTTCTGGAAAGCTAGATATTGTCCGCACAGAAGTCACTCCATCAGAG
GAATATAAAGCTATGGTATTGGCAGGACTGCGACCAGAGATCGTGTTGGACATTAGCTCCCAGCGCTGGCCTTC
TGGACATATCAGGTACATCAGGAACGTCTCTATCAAGAATACAATTTAGCAAGGCTGAGGGCCATCTGAAACAG
ATGGAGAAGATATATACTCAGCAAATACAAAGCAAGGATGTAGAATTGACCTCTATGAAAGGGGAGGTTACCTCC
ATGAAGAAAGTACTAGAAGAATACAAGAAAAAGTTTCAGTGACATCTCTGAGAAACTTATGGAGCGCAATCGTCAG
TATCAAAAAGCTCCAAGGCCTCTATGATAGCCTTAGGCTACGAAACATCACTATTGCTAACCATGAAGGCACCCTT
GAACCATCCATGATTGCACAGTCTGGTGTTCTTGGCTTCCCATTAGGTAACAAGTCAAGTTTCTTTGGATAAT
ACACCTGTTTCGAAATCGGGGCGATGGAGATGGAGATTTTCAGTTCAGACCATTTTTTGCGGGTTCTCCCACAGCA
CCTGAACCCAGCAACAGCTTTTTTAGTTTTGTCTCTCCAAGTCGTGAATTAGAGCAGCAGCAAGTTTCTAGCAGG
GCCTTCAAAGTAAAAAGAATTTGAGCCACGCATAGTGTACGCACCTGTGATCCCAGCTACTTAGGAGGTTGAGG
CTGGGAGGATCACTTGAGCCCAGGAGTCTGAGGCTTTAGTGATCTAAGATCATGCCACTGCACTCCAGCCTGGGC
AACAGAGTGAGACCCTGTTTCTAAAAAAAATAAAGATAATTTAGCTAACTT

5166/5332
FIGURE 4480

GTATGAACGCAGCGGCGGACCTGTGAGGGGATCCGACTTGCCGGCAGAACTTACGCTGCGGGACCCGGGCACTG
TTGCTGCTGCGGGAGACTGTGGGCTGTTAGTGCCATGCACCCTTTACAGTGTGTCCTCCAAGTGCAGAGGTCTC
TGGGGTGGGGACCATTGGCCTCTGTGTCTTGGCTGTGCTGAGGATGTGCAGGGCACACAGCAGTCTCTCTAGTA
CCATGTGTCCCAGTCCAGAGAGGCAGGAGGATGGAGCTCGGAAGGATTTACAGCTCCAGGCTGGCTGCTGGACCGA
CTTTTCAACATTTTTTAAAAAGTGCCCTCAGCTCCTCAGGAGAAGCTGTCTTCAGAAGTGGAAAGACCCACCTCCCT
ATCTCATGATGGATGAACCTTCTTGGAAAGCAGAGAAAAAGTCTACCTCGAGACCTATGGCTGCCAGATGAATGTGA
ATGACACAGAGATAGCCTGGTCCATCTTACAGAAGAGTGGCTACCTGCGGACCAGTAACCTCCAAGAGGCAGATG
TGATTCTCCTTGTACATGCTCTATCAGGGAGAAGGCTGAGCAGACCATCTGGAACCGTTTACATCAGCTTAAAG
CCTTGAAGACAAGGCGGCCCGCTCCCGGGTTCTCTGAGGATTGGAATTCTAGGCTGCATGGCTGAGAGGTTGA
AGGAGGAGATTCTCAACAGAGAGAAAAATGGTAGATATTTGGCTGGTCTGATGCCTACCGGGACCTTCCCCGGC
TGCTGGCTGTTGCTGAGTCGGGGCCAGCAAGCTGCCAACGTGCTGCTCTCTCTGGACGAGACCTATGCTGATGTCA
TGCCAGTCCAGACAAGCGCCAGTGCCACGTCTGCCTTTGTGTCAATCATGCGAGGCTGTGACAACATGTGTAGCT
ACTGCATTGTTCTTTTACCCGGGGCAGGGAGAGGAGTCGGCCTATTGCCTCCATTCTAGAGGAAGTGAAGAAGC
TTTCTGAGCAGGGGCTGAAAGAAGTGACACTTCTTGGTCAGAATGTTAATAGTTTTTCGGGACAATTTCGGAGGTCC
AGTTCAACAGTGCAGTGCCTACCAATCTCAGTCGTGGCTTTACCACCAACTATAAAACCAAGCAAGGAGGACTTC
GTTTTGCTCATCTTCTGGATCAGGTCTCCAGAGTAGATCCTGAAATGAGGATCCGTTTTACCTCTCCCCACCCCA
AGGATTTTCTGATGAGGTTCTGCAGCTGATTCATGAGAGAGATAACATCTGTAAACAGATCCACCTGCCAGCCC
AGAGTGGAAAGCAGCCGTGTGTTGGAGGCCATGCGGAGGGGATATTCAAGAGAAGCTTATGTGGAGTTAGTTCACC
ATATTAGAGAATCTATTCCAGGTGTGAGCCTCAGCAGCGATTTCAATTGCTGGCTTTTGTGGTGAGACGGAGGAAG
ATCACGTCCAGACAGTCTCTTTGCTCCGGGAAGTTTCAGTACAACATGGGCTTCTCTTTGCCTACAGCATGAGAC
AGAAGACACGGGCATATCATAGGCTGAAGGATGATGTCCCGGAAGAGGTAAATTAAGGCGTTTGGAGGAACTCA
TCACTATCTTCCGAGAAGAAGCAACAAAAGCCAATCAGACCTCTGTGGGCTGTACCCAGTTGGTGCTAGTGGAAG
GGCTCAGTAAACGCTCTGCCACTGACCTGTGTGGCAGGAATGATGGAAACCTTAAGGTGATCTTCCCTGATGCAG
AGATGGAGGATGTCAATAACCTGGGCTCAGGGTCAGAGCCCAGCCTGGGGACTATGTGCTGGTGAAGATCACCT
CAGCCAGTTCTCAGACACTTAGGGGACATGTTCTCTGCAGGACCCTCTGAGGGACTCTTCTGCATATTGCTTGAC
CTGAGAGGATGGCCTCAGAGCTGACTTGGGCAATCCTCCCCAACAGGAAGGGGAGACATTGCCTGCCACTGAGGA
AACAGGTCATGAAGGTGGAGATAAGCTGCAAGGGGCGAAGCAACTTTATGTCAGTGGAACGTTCTCTTTTAA
GCTGCTATGTGAACAGCTTTTACAGTCATTAAATTTACCTAACTAAGGTT

5167/5332
FIGURE 4481

CCCTTCTGACCCACCCCGCTAGGTAGTCCACACGGCGGCCCTCGGCTCCCGGGCCCCGCCCCGGCCTCCTGCAT
TTGCCCCGAGGCCCCCTCCCCAGCACTGGCCACACCCAGGGTAGCCCCGCCCCCAGAGCTCCTCCCCAGCGGCC
GGGGTAGGGTGGCGGCTGGCCAGCCGGGCCCCCGCTGCCCTCTGCCCTGGGCGCTTGGTCGGAGCGGGCTGGGC
AAAGCGGGACAGGGCGAGCGCGGGCGGCCCGGGGGCTCGGAGGCGAAGATGGCGTCCGGCAGGCGCGCCCCGCGCA
CCGGGCTGCTGGAGCTGCGCGCCGGGGCGGGCTCGGGGGCCGGCGGCGAGCGATGGCAGCGGGTGTCTGAGTC
TGGCGGAGGACGTGTGACCGTGAGCCCCGCCGACGGCGACCCCTGGTCCCAGCCCGGCGCTCCGCGGGAGCAGG
AGCCCCGCGCAGCTCAACGGCGCCGCGGAGCCGGGCGCCGGGCCCCCCGAGCTGCCAGAGGCGCTACTGTCCAGC
GGCGCCGCGTGACGGTGCAGCAAGGCCGACGCCGGTGGGCTGGGCATCAGCATCAAAGGCGGCCGGAGAACAAGA
TGCCTATTCTCATTTCCAAGATCTTCAAGGGATTGGCAGCTGACCAGACAGAGGCCCTTTTTGTGGGGATGCCA
TCCTGTCTGTGAATGGGGAAGACTTGTCTCTGCTACCCATGATGAGGCGGTGCAGGTCTCAAGAAGACAGGCA
AGGAGGTGGTGTGGAGGTCAAGTATATGAAGGACGTCTACCGTATTTCAAGAACTCTACTGGTGGGACCTCGG
TCGGCTGGGACTCACCTCCTGCCTCACCCCTTACGCGGCAGCCTTCCTCCCCTGGCCCCACACCCCGAACTTCA
GCGAGGCCAAACACATGTCTTGAAGATGGCATATGTCTCGAAGAGGTGCACCCCCAATGACCCGGAGCCCAAGT
ATCTGGAGATCTGCTCGGCAGATGGTCAAGACACCCTCTCTGAGGGCCAAGGATGAGGCTAGTGCGAGGTCTGT
GGGCGACTGCCATCCAAGCCCAGGTCAATACTCTGACGCCGCGGGTCAAGGATGAGCTGCAGGCACTGTTGGCAG
CCACCAGCACAGCTGGGAGCCAGGACATCAAGCAGATTGGCTGGCTAACTGAGCAGCTGCCAGTGGGGGCACAG
CCCCACCCTGGCCCTGCTAACTGAAAAGGAAGTGTCTCTACTTGTCTCTCCCCGAGACCCGCGAGGCCCTGA
GCCGGCCAGCCGCTACTGCCCCACTCATCGCCACCAGACTGGTGCAGTCCAGGCCCCCTCCAAGGGCTCAGTGCCCT
ACGATGCAGAGCTCTCTTTTGGCCCTGCGCACGGGCACGCGTCACGGTGTGGACACTCACCTGTTACGCGTGGAGT
CACCGCAGGAGCTGGCTGCCTGGACCCGCCAGCTTGTGGATGGCTGTACCCGGGCGCCGAGGGTGTGCAGGAGG
TGTCTACAGCCTGCACGTGGAATGGGCGTCCCTGCAGCCTGTCTGTGCACATCGACAAGGGCTTCACACTGTGGG
CGGCTGAGCCAGGTGCAGCCCCGAGCTGTGCTCCTGCGACAGCCCTTCGAGAAGCTGCAGATGTCTTCAGATGACG
GTGCCAGTCTCCTTTTCTGGATTTTGGAGGTGCTGAAGGCGAGATCCAGCTGGACCTGCACTCGTGTCCAAAA
CCATAGTCTTCATCATCCACTCCTTCTGTGCGCCAAAGTCAACCCGCTCGGGCTGTTGGCCTAGAAAGTCGCCGG
ATGCACTAGCCCTGAAGAGGGGTGTCCATGACATGGCCTGAGCTGGGCCTCCACCGACTGCCTGCTCACCCCTGG
GCTGAGGGAAGGGAGAGGAGAGGAACAAGGGCCTCCGAAACCCCAACCCTGAGGGAGACTGGATTGGTCTTGGGG
CCCAGGACCCAGACGCGAGGACAGAGTGGACTCTGCCTGTGATGGGGTGGCCTTCTGCTGCCCCCTCCACCAGT
GCCTTTTGCAGAGAGATATTTGTGTACACAGAAGCCATTCCGAGTCTGGGACCTGCCCCTGTGCGGATCCTGAC
CCCAGCCAACAGCTGAGCTGCCGGGCCTCCTCGAGGCCCTAAGCCACCCCAAGAGGTCCCATCTGAAGCTGGAG
TACCCTGGGGTCAGCAGCAAGAGAAAGAAGAGGAGATTTCTGTTTGTTCCTCAGCCCTGCCACCGTGGG
GAGTCTGGTTTTCTCTTCATCCTGTCTCTCTCCTTACTCTTGGATAAATAAACAGCCTGTGAGCACACAGG
CAGCCCGGCCAGTG

5168/5332
FIGURE 4482A

GGAAGGGTAGTGGAGAGAGAGGAAGCAGGAGGGAGGGAGAAAAAGAGAGAGACTGACTGTATCTGGGGATTCTGG
CAAGGTGAAGAGCTGGTCTGTTTGGCAGGACCTTCCCATCTGGGATCCATCTGTGTTCCCTGGAATGGGACAGG
CAGCTCTAGTCAGTGAGAAATCGCAGATGTGAGAGAGCTGACACATGTCCAGCTAATGAAAGGAGGAGGAAGGCT
GGTCTCCGATTGAGCTTTGAAGATTAGGAGGAGAAAAAGAGGAGCTTTGGAATATCTATTTCAAATAAAATTTGGT
GTATTTAAGAATCTGGATTGTTTATAATTTGGGCATTTGGGTTGGTCCCTGAGAAAAGGGTGCCAGCGATGCTGG
ATCGCCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCCACCATGCCACCCCTCCCACCAATAAATCCTGG
AGGACCGAGGCCAGTGTCTTCACTCCTACTGCATTAAGCAATGGCATCAACCATTCCTCCTACCCTGAATGG
TGCCCCATCACCGCCACAGAGATTCAGCAATGGTCTGCTCCTCCACATCATCTGCACTCACAAATCAGCAATT
GCCAGCCACTTGTGGTGTCTCGACAACCTCAGCAAGTTGAAACGCTTTCTTACCCTCTGCAACAGTTTGGCAATGA
CATCTCCCCTGAGATTGGGGAGAAGGTGCGGACTCTTGTCTTGCAGTGGTGAACCTCAACAGTGACAATTGAGGA
ATTCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCTTCGTCTTTTGTGATTCCATTTCTCAAGGCCAACCT
GCCCCTGCTGCAGCGGGAACCTGCTGCACTGCGCTCGGGCGGCCAAGCAGACCCCATCCCAGTACCTGGCTCAGCA
CGAACACCTTCTGCTCAACACAAGCATTGCATCGCCTGCTGACTCGTCAGAGTTGCTCATGGAGGTGCACGGAAA
TGGGAAGAGGCCAGTCCAGAGAGGAGAGAAGAGAATAGTTTTGATAGAGACACAATTGCTCCTGAGCCTCCTGC
CAAGAGAGTATGTACCATCAGCCCTGCTCCTCGGCACAGTCTGCTCTCACTGTGCCCCCTCATGAATCCCGGGGG
CCAATTCCATCCTACCCCTCCACCTCTTCAGCATTACACCTTAGAGGATATTGCAACTTCTCACCTGTATCGGGA
ACCCAACAAGATGCTAGAGCATCGAGAAGTTTCGTGATAGACACCACAGTCTTGGTCTAAATGGAGGCTATCAAGA
TGAGTTGGTAGATCATCGTTTGACAGAAAGGGAATGGGCTGATGAATGGAAACATCTTGACCATGCGCTGAATTG
CATTATGGAAATGGTAGAGAAAAACAAGGCGCTCTATGGCAGTTCTGCGGCGCTGTGAGGAATCAGATCGTGAAGA
ACTCAACTACTGGAAAAAGACGGTACAATGAAAACACAGAGCTGAGGAAAAACGGGGACCGAGTTGGTCTCCAGGCA
GCACAGCCCTGGGAGTGCAGATTCTCTCAGCAATGATTCTCAGAGAGAGTTCAACAGCAGGCCAGGTACAGGATA
CGTACCTGTGGAGTTTGGAAAAAACAGAAGAAGCTGTGAATAAGGTGAAAATTGAGGCCATGTCAGAAGTACA
GAAGGCCGTGCTGAGGCAGAGCAGAAAGCCTTTGAAGTGATTGCAACAGAGAGAGCAGCAATGGAGCAAACCAT
AGCGGATGTCAAGCGGCAGGCCGAGAGATGCTTTCCTCGTCATCAATGAGCAAGAGGAGTCCACGGAGAACTG
CTGGAAGTGTGGCCGCAAAGCCAGCGAGACATGCAGTGGCTGCAATATCGCGCGATACTGTGGCTCTTTCTGCCA
GCACAAGGACTGGGAGCGGCACACCGCCTCTGTGGTCAGAACCTGCATGGCCAGAGCCCCACGGCCAGGGCCG
GCCGCTGCTTCTGTAGGCAGGGGCTCCTCTGCCAGGTCGCCGACTGCAGCGTGGCCAGCCAGCCCTCGACAA
GACCTCGGCAACCATCGCGTTCTCTCAACACCTGCTTCTGTGACAGCTATCGACACCAACGGACTCTGAGCCCC
GGACTCTGCTTACCCTGATGGCTGCTCAGCACCACAGAGTGCTTGGGCTGAGGGACTGACTGTTGGAACCCGTGC
ATGTAGCTGCCGGGTCTCAGCAAGAATGAATTGGAGGCAGGAAGAGTCCAAGCCTGAATAATAACACCCCA
GCCTCTCTGTGCTGCTGTCTGCTGCGGAGCCAGTGTGCCATTCTCTGCACATGGGCAGCCAGCCTGAGCTGCCTC
CTCCATGGCTTTCCTGGTTTGTCTCTCTCCTCAAGCTGACTTAGCCGGCCCCCTTTTCACTGTAGACCACCA
GCTCCCCCTCCCCATCTCCTTGAGTCAGCAGACTGTCCAATGTGCTCAGCCAGGCTGGAGGCGGCAGGCGGCAGGC
AGCAGGCTGTGGAGGAGGCCCTCGGTGAGGAGCGGCTGCCTACCCCTGAATAGCTCCTTCGGCCCCATCTC
CATCCTCAGCAGATGACACTGATTGGCCTCACGGGGACTTGGGTAAGCAACAGGCGGCATTGAGACTCTTCTCA
ACCTGCTGTTTCACTTGTATAAGATCTCAGAGTCCACAGGAAAGAAGTCACTGTTGCAATAAAGCACCCGTAG
TAGCAAAAACATAAAACAAATAAACTTCCCCACATCAGATGATTTTGGACAAGATTTTCCAACCTTGCTGG
CTACTTTAGTTTGGGACCTGTTTTTTTTTCTCATTTGATTTTGCTTGTGCAAAAATAGTTTCCAGCACATGGATT
GATCTGAGAGAGAATGAGGCTCAGTTGTGGATAGTCTGTTTTCTCTGAGCATGTTGGCCAACCTAGTATCGTCAAA
TTATTGAGTGGAATCATCTCTTGGAAATGCAGAACTTCTGCCACCCTTGGCTATTTGCACAGTCACTTGTCTG
TGCTCTTTTATCTCTCAGACCACACACATCTGGAACGCTGTGGGCATCTTCTGCCCATGGGCTCCATTTGGCACC
TGCTGAGCCACAGTTGTCTGCTGGATGTGCTGTGCAAGTTGGTAGGACTTGGCCCCACTGTCAAGGCCTGGTCT
CATCTGAAAAGCCCTCCTGGACCTCAAAGAATTCTTCAGACCTCATAGTTACAGGTCAATTATATCTACTATGTTG
ATTTATCATCAGGCACACAACCTTCTGTTTCTTCTTGTGTTATCTGATAGCGTCCCTCCTTGAGCTCATCAGA
AAGGTTTTATGAAATGTGAACCATTTTGGGAAAAGCTGATCAATTTTTCTTCTAGCTTCCCATTTTCAAATGGG
ACATCACTCATATCCCTTTCAGAATGTTAGGAACTGCCTCCACATTCTTCCCTGTCTTTTTGGGTTTTGTTTTT
TGTTGTGTGGTGGTTTTTTTAAACAAAACCTGGGCAACAGAGCAAACTCTGTCTCAAAAAAAAAAAAAAAAAAGG
CAAAATTAAAGAATTTCAAGTCCCTAATTTACTCTAACCAAGCATTTTTCAGTCTTACAAAGAAATCTAGTGCAG

5169/5332
FIGURE 4482B

ACACCTTTAAATGCCTAGATTTCATTGCCTAAAGTAAGGTGTGACCAGTGAAACAACAGCAGAGAATCATGTT
CCTTTGCTGTGGAACACATAAGCCCCACAGTTTTTCCAGTCAGCCTAATACATGGGTATCCCCGACCCCATCTGC
CTCCTTAAGCCACAGTCCTTGGTGGGAACCTCTAAGGGGACGGAGTCAGTACCCCGACAGGGCCACATTTGCA
TGAGACATGGCTGTCTCACAGGTCACAGAGCCATTACAACAGCTTACTAGTTTTTCATGGATTTGTTGGATTAAC
ACCTTAAGCAGGTTTTTTATTGTTATTTTGTGTTGTTGTTGTTTGTGACGGGAGTTTCTCTCTTGTCTCCCAG
GCTGGAGTGCAATCGCGCAATCTCGGCTCACGGTAACCTCTGCCTCCCAGGTTCAAGCGAGTCTCCTGCCTCAGC
CTTCTGAGTAGCTGGGATTACAGGCATGCGCCACCACGCCCAACTAATTTTGTATTTTGTAGTAGAGACGGGGTTT
CTCCTTGTGGTTCAGGCTGGTCTCAAACCCCGACCTCAGGTGATCCCCCACCTTGGCCTCCCAAAGTGCCAGG
ATTACAGGCATGAGCCACTGTGTCGGTCTTGAGCAGGTTTTTAAATCTCCAGTGGCCATAAACTAGCCAGGG
TAGCTCATGCTTTTACTGGTTGGAATAAGGAGCCAAAACCAACAAAATAATATTTATTAGGGCTCGATGCCCAT
TCTGTGGCTAAGGCTTAGGTTTGGTGTGCAGAGCCTGGCCTGCTCTTGTGGGCTGTGGTTGCTGTGACAGTTTCG
TTTTCTGAATCTTTGTAATGCTCTTCCACCCTGCTCGTGTGCTGCCAGAGGCTGATCTGCAAACCTGGGCAGTATT
CCACACTGAAGCTCAGTTTGCAAACCTTCTGCTGTGTTAATTCTGGTCAGTTTCACACAGAAGTCACGAGGGCCT
CTGCCCAGGACCTTCTATTACATTTCAAGAATCCCTTTCTGAAATTCTCCAACCTCTCTGGTCAGGAGGAGGAGC
ACCATTGGGGCGGGGTAGGCAGCTAGAGGCGCAGGAGCGAATCCAGGTTCCCTTGCCTGGTTCACAGCCTCTGCTG
ACAGCACCTCAGCTACCAGGTGGGGAGTGGAATTCAGCCTGCTTAGAGGACTGACCTCTACAGTTTATATTTGC
AGTGACATAAAAGGCAAAGAGGAGCTGGCATGGTGGTACAGAAGGTATCAGTCAAGCGCAGGCTCTTCAGAAACC
TAGAAACTAAAAAGAGATGCAACATGTGACTGGCCATCAGCCAGACATGTCTAGGGTGAGACCAGTGCTCAGCAC
CACCCGCCAAGGAACACTGATGAGTTGTGGACATTATGGTGGGCCAAGTGAGGAATGATTGCAGGGACCAGAGA
AGACCAAAGATGCCAGATGTCCCAGAGTTCTTGAGGGCTGGGTTTACGCTCTTGTCTGTCTTTTGTCCCC
ACTTGCCTGCACCGTGCCTGACTCATCCAGTGGGGAAGGTGACTCAAGAAGTTGTTTAAGCCTAGGCCTAGGCAG
TCCACTTCGGGAGGTGGGGGCACTCCACACTGGGGGGCCCTGCAGCTCCAGGGCTGGTGCTCTAGCAGATCCGCT
CAGGCACGGTTGGGTGACCGTGGGGTCACCGATTGCGTAGATTATTTCTAGGGCAGTGCTGGGTTAGAAATGTCT
GTCTGGAAACAGGACACATCTTGCCACCACAAGTCCACACCTGGCCTTGGCTGCTGCCCCGCTCTCTGCAGCGTGG
ATTTCCCTTTGCCCATTTGGGCCAGAAGGTACCCAGGAGTTTCACTGCTTAGTGTCAACTTGACATCTTCAGCT
TCCAGACAGAAAACCCATGCTTTACTTTGTACAGCCCTGTCCCAGAGTTAGTAAGCCTCGGCTTGTACCTGCTT
GCAAAGGGTATAGACATCATTCTGGGTAGTTCTAGAGGATATCGCAACAAGTGCGTTTGAAGGTTACGACAGCT
GGAATTGTACGGTAGTGAGCTCTTCAAATGAAAAACAGAATGACCGGATGGCCATCTGTCTGGAAACTGTAGAA
TTGAATAAATCACTGAAAATAGAACACTTCTTGGAGGCTTTCTTCAGAACTGAAC TAGAAACAAGGTTTCCAGGC
TCCCAGGTCAGTAGACCAAACCAACTTCCCTTAGATTTTTTTTTTTAAGCTGTTTGCAGAAAACCTGGGTGGTAGCG
TGTCTGAACCAAACGGAAGAATAGCCAGCGGAGCATGGACTGTTCCAGCACGGGCCAGATGGCCAGCTGTGAGAG
GCAGCCCTGCCCAGATTGCGGTGGGGGCTGTGCCAGCGGCTCCGACGGGCCCTTCCAACCTCTGGAGTGTCTGTAG
TTCTTGTGAACCAAACGTTGACTACCTGCCTCTTTCTCGGGCATCGACGTGCTCATTTCCAAAGATGATGGT
GCAGGTGACCTTTTCCATCGTGAGCTAAGAGAAGGTTAGGAGGCCTGAGGGCGGGCCTTGTGTCCCCTCCTCCC
CCTCCACAGCCCCTGAGGTGGAGCTTCCCTCACAGACCCCATCTGGTCGAGCCTACGGCTGCCAGTGTAACCTC
AGTGATGCTTATACCAAATAGGGCATGTGCGCTGGTGTCTGTTGGGGACAGCCCCATCCCTACCTTGGAGTCGGC
AGAGAAGCAGCAATAAGCATTAGGCGAATGATTGAAAGGGCTGCTGCGCCAAGAGGCCTTCAGTCCCCCTAACGT
GGCTTTCCAACCTTCTGACGAGGCTACAAAGGCTCCGCTCACAAAAGAAAGCCAATAATGTAAATAAATAGAAAA
CGAAGCCTCCACGCGTGGTTTTTAAAGGGGATGATGAATGTGACACCACCCACAGAATGCATTAGAATCTGGTT
TTTCTGTGCTTTGTCAATTTTACTCTGATAGGAATTTTGTGTACCTAACTCTGTGCATAACTTATTTAATGTACTG
TATAAATGAACCAAACCTGTTAAATATGATTTAGTTTGTCTACTTAAAGTAGTCAATAAAAAGGCTATATTCC

T

5170/5332
FIGURE 4483

GGCGCCGGCGCCAAGGGGCGGCCTCTAGCCACACCGAGTCCGCCGCGGCGTCCAGGGTCCGGCAGCAACCGCAGCC
GAGCCCCGAGCGGGTGGCGGCGCCATGGCGTGCGCGGGGCTGCTCACCCTGTGCTGCTCCGGCCGCCCGCGCCCC
AGCCCCAGCCCCAGACCCCGCGGCACCCCCAGCTCGCGCCCCGACCCGGGGCCCGCCGGACACACGCTCTTCCAGG
ACGTTTTCCGCAGAGCAGACAAGAATGATGATGGGAAGCTCTCATTGAGGAATTCCAGAATTACTTTGCCGATG
GGGTTCTCAGCCTGGGGGAGCTGCAGGAAGTGTTCAGCGGCATTGATGGGCATCTCACCAGACAATTTAGAAACAG
AAAAACTGTGTGACTACTTCTCAGAGCACCTGGGTGTCTACCGCCGGTGCTGGCTGCATTGGAATCGCTGAACC
GTGCAGTGCTCGCTGCCATGGATGCCACCAAGCTGGAGTACGAGAGGGCCTCCAAAGTGGACCAGTTTGTGACGC
GCTTCCTGCTGCGGGAGACGGTGAGCCAGCTGCAAGCCCTTCAGAGCTCGCTGGAGGGGGCGTCAGATACCCTGG
AGGCCCAGGCCCATGGCTGGCGGTGAGATGCAGAGAGCGTGGAGGCGCAGAGCAGGCTCTGCGGCAGCCGGCGGG
CAGGACGCCGAGCCCTGAGGAGTGTGAGCCGGTCATCCACCTGGTCCCCCGGCTCTTCTGACACAGGGCGCAGCT
CAGAGGCCGAGATGCAGTGGCGGCTCCAGGTGAACCGCCTCCAGGAGCTCATCGACCAGCTCGAGTGAAGGCC
CCCGGCTGGAACCCCTGCGTGAAGAGGACCTGGCCAAGGGGCTGACTGCACATCCTCATGGCCCAGAGGCAGG
TCCAGGTGGCAGAGGAAGGCCTGCAGGACTTCCACCGAGCCCTGCGCTGCTATGTGGACTTCACAGGGGCCCAGA
GCCATTGTCTGCAGTGAAGTCCGCCCAGAAGATGCTGGACGGTGCCTCCTTCACCCTGTATGAGTTCTGGCAGGAT
GAGGCCTCCTGGAGAAGGCACCGAGCAGTCGCCTGGCAGCAAGGCCTTCCAGCGCATCCTCATCGACCACCTGCGG
GCCCCGGACACCCTCACCCTGTGTTCTTCCAGCCTCCTGGTGGATAATGAATAACAAGTGAAGCCAGACCTGCA
CACGCCGAGGGCCCCGGGACCCCTGCCTGCCTCCCTCTGGAGCCTTCTGGACTGGCCAGCCAGCGCAAAGACCAG
GACTTGTCTCCTCCTGGACTTGGGCCTGGTGGAAAGGGCTCTCAGCCCAGGGATCAGGGACTGGGCTGCTTGCTTT
CTATTTATTATTGATTTATTTATCCCTGTATTTTATTGTTTGTCACTTCAGCCTCCAAGCTACTTTGGCTTCTGC
CTGGCTCAGGAGACCTGGATTCTGGTCCCTGCTGTCCCTGCTGGCTGAGCGACCCAGGGCAGGTCCCCTCCCTG
TCTGGGTGGGCCTCAGGCCATCTGGCCGCCTAGCGAGGGTCTGCTTTCTTCTGCTGTCTTGGGACCAGGCTTC
TGCTCCTCCTCAGCCAGCGGCAGAAGCAGGGCTGATGCTCAGGGACCCCCCAACCCTCAAACCTTGCTCCGAGG
CTGGGCCTGAGCTGGGTGCCCCGTCGCCCTCCCAGGCCACTAGGCTCTGACTCTTCCAGCACCCATGGATGTGCC
AGAGGCCTCTGGGTGGTTGGTTTGCATGTCATTTGCATATCGTTTGCATGCCCTCATCCACCCATTCTCAGGGCAGT
ATGGGAAGCCCCAAGGTGACCTGGCCAAGTAGCAATAATTGGGTCCAGGGTCACCTATTGCCCCCAGAGGCCTC
TGAACCCAGGCTGGGACCCAGCACAGAGGCAATAAAGGCAGTGGTCCCTTCC

5171/5332
FIGURE 4484

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGGACGAGGACCGCCTGTCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGC**ATGT**GCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACAGGGTTTCCAGAGATGCTCACCTTGCTCTGTCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGGAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCT**AGG**AGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACCTTCGGCCCTTTTGCTCTGGGGGTCCACAAGGCCAGGGCAGTGCCTGCTCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAAGTGAAGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGA**CT**GA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCCATCTCTCACTTC
CCTTCTCCCTGTCCGTGCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTGTGT

5172/5332
FIGURE 4485

CAGCTGCGGGGCGGAGGCGGAGGCGGAGGAGAGGCCTGCGGCGGCAGGGAGCGGCGGGACTGGGAGCGGGCGCCG
GAGCCGACCCGAGCCGAGCCGAGCCGAGCCGAGCGGGCGGCGAAGGCCGGCGCGGCGAGCAGCAACCAT
GTCGGTGTTTCGGGAAGCTGTTTCGGGGCTGGAGGGGGTAAGGCCGGCAAGGGCGGCCCCGACCCCCAGGAGGCCAT
CCAGCGGCTGCGGGACACGGAAGAGATGTTAAGCAAGAAACAGGAGTTCTTGAGAAGAAAATCGAGCAGGAGCT
GACGGCCGCCAAGAAGCACGGCACCAAAAACAAGCGCGCGGCCCTCCAGGCACTGAAGCGTAAGAAGAGGTATGA
GAAGCAGCTGGCGCAGATCGACGGCACATTATCAACCATCGAGTTCCAGCGGGAGGCCCTGGAGAATGCCAACAC
CAACACCGAGGTGCTCAAGAACATGGGCTATGCCGCCAAGGCCATGAAGGCGGCCCATGACAACATGGACATCGA
TAAAGTTGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAAGTTGCAGAGGAGATTTCAACAGCAATTTCGAA
ACCTGTAGGGTTTGGAGAAGAGTTTGACGAGGATGAGCTCATGGCGGAATTAGAAGAACTAGAACAGGAGGAAGT
AGACAAGAATTTGCTGGAAATCAGTGGACCCGAAACAGTCCCTCTACCAAATGTTCCCTCTATAGCCCTACCATC
AAAACCCGCCAAGAAGAAAGAAGAGGAGGACGACGACATGAAGGAATTGGAGAAGTGGGCTGGATCCATGTAATG
GGGTCCAGCGCTGGCTGGGCCCAGACAGACTGTGGTGGCCTGCGCAGCGAGCAGGCGTGTGCGTGTGTGGGGCAG
GCAGGATGTGGTGCAGGCAGGTTCCATCGCTTTTCGACTCTCACTCCAAAGCAGTAGGGCCGCGTTGCTGCTCACT
CTCTGCATAGCATGGTCTGCACCTGGGAGATGGGCGGGGGAGGGGGCGGGCGGGGTGGGAAGTGCCTGCTGTT
TATAATGTTGAATTTCTGTAAAATAAACTGTATTTGCAATCCAACATTGAGCTTCTGGACTACGCTGACTCCAC
TGCTGAATCCTCAATGGAAAGGGTCGACTGGTTGCAGTTGAAATGACCTGAAATGTAGCCTCTGTCCTTGTAAGT
CAGTTGACTTGCCGCACATCTCTTTGTGTACTTGTACGGTACTGGCAGAAAAGTCATTTTCAAAGCCATAGGC
TTTTCTTGCCCTTAGCTGTAATAATGCATCTGATTTTGATTTCTCCAGAGCTGTGTTCTGTCCATCACCTGT
GTATTGGCCCTGTGTTTACCACTCTGGCCCACTCCTCACCCCTTGCTCCCTGGTCTTCTGGAGTTTGTGACAT
TGATTTGAAATGGATGGTGTCTCTTGAGAGCAAGTGAGATTGTTAGAATTAAGTTCCAACATACAGTTTTCTA
ACATAGCTATAAGGTCCTTGTGCTGTTGTGATAACTGATAGATAACTCATTGGAACGTGCATACATTTATAT
TCAGATGAAATTATGTTTTGCACTGTCTATTAAATATCTCGATTAATTTTC

5173/5332
FIGURE 4486

CGCGCGAGCGGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGGCGGCACGGCGACGA
CGACGACTCCCGCGCGTGTGCCAGCCTCTTCCCGCCGCGAGCCGCCCTTTTCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCAGCCGCGCGGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCGGTCTGTGCGCCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACCAACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGGCGGGCGGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACAACACTTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGGGA
TGATGGGGCCTTGCATAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCC

5174/5332
FIGURE 4487

GGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCCGGGGGCCTGGGGCTGACCCGCTGACTTCCCGTCCGT
GCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAG
AAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCAGCCTTCAGAAACAAAA
GAAGTGGAGCCAGAGCCAACCTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCT
GATGATCTAGATGACTTGAACCTCTTTAATCAAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGAT
GAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTT
GACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGGATGAAATACTAGAGAAA
GATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTAGTAATCAGACAGGCCCTGCTTGG
GCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGAAAAGAATCCA
GATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCGAGTAGGAACCAAGAAAACCT
TCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCCTTGCATTTTGTGGCT
GAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATA
GAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTCACACATGCCGATCACCGGACACAATCCTGCAG
AAGGACACACGACTCTATTTCCCTACAGTGCAGAACTTGTCATTCTAGATGTTCTGTTGCCAGTATCAAAACCGGC
TTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTTAATTGCTAATCACTGATTTTGCAAA
GCTTGTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTATTAAAAACAAGATAAAAA
AGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTC
ATTGCCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATCGTTCATAGACT
TCTGTAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

5175/5332
FIGURE 4488

CTGAGGCCAGCCCCCTTCGCCGTTTCCATCAGAGTGCCGCCAGCATGTCTGACAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCCCTCGTCACCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCCTGACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCCGCGTCATCATCCGAGATTGACCCCATCAACGCACCTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCTTTGGCC
GGTAGGTGCCAGATGGGGGGTCCCGGGAGTGAGGGAGGAGGGCAGAGTTGGGACAGCTTTCTGTCCCTGACAAT
CTCCCACGGTCTTGGGCTGCCTGACAGGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACA
CTTTGACGTGGAGATCGATGTCAAGTGGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGA
CCGGTATCGGTTGAAGAATGGGCGCCGCATCATCCTGCTGGCCGAGGGTCCGGCTGGTCAACCTGGGTTGTGCCAT
GGGCCACCCAGCTTCGTGATGAGTAACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCC
AGACAAGTACCCCGTTGGGGTTTCACTTTCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCCACCTGGGCAA
GCTGAATGTGAAGTTGACCAAGCTAACTGAGAAGCAAGCCCAGTACCTGGGCATGTCTGTGATGGCCCCCTTCAA
GCCGGATCACTACCGCTACTGAGAGCCAGGTCTGCGTTTACCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCT
CTCCTCCCTAAGAGCTAATGGCACCAACTTTGTGATTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGAT
CACTTAGTTTTTTGGCCTCTGCTGCAGCCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCTCTTCAA
GCCCCGGTCATGATGGAGGTCCCAGCCACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGT
CCTTCCTTAGCCTGGAAGTCAGTAGTGGAGTCACAAAGCCCATGTGTTTTGCCATCTAGGCCTTACCTGGTCTG
TGGACTTATACCTGTGTGCTTGGTTTACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATT
GAAGGGCAAAGAGGAAGTGTGTTTTGAATTTTCCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTAAACCTCAT
TACAATGAGGTAGTACTTTTAGTCCCTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAA
CAGAGAAGTGACAGCTAGGGGTTGAGAGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTGAAATCTGCCACC
ACTTTATAACCAGATGGTTCCTTTTACAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTAAAAGAAA
GCAGGAAGGTGGGTAAATAAAAATCTTGGTGCCTGG

5176/5332
FIGURE 4489

AGTTCCCGACCGCGGGCGATGGCTGCCGCTGGGGGCGCCCGGCTGCTGCGCGCCGCTTCTGCGGTCTCGGGCAG
CCGGCCGGCCGGTGGCTGCACCACGCCGGGTCCCGCGCTGGAGCCAGCGGCCTGCTGAGGAGCCGGGGACCGGGC
CGGAGCGCGGAGGCGAGCCGGCCGCTGAGCGTGTCCGCAGGGGCGCGGAGCAGCTCAGAAGATAAAGTGACAGTC
CACTTTATAAACTGTGATGGTGAACATTAAACAACCAAAGGAAAAGTTGGTGATTCTCTGCTAGACGTTGTGGTT
GAAAATAATCCAGATATTGATGGCTTTGGTGCATGTGAGGGAACCTGGCTTGTTTAACCTGTCATCTCATCTTT
GAAGATCACATATATGAGAAGTTAGATGCAATCACTGATGAGGAGAATCACATGCTCGATCTGGCATATGGACTA
ACAGATCACAGTTGGGCTGCCAAATCTGTTTGACAAAATCTATGGACAATATGACTGTTTCGAGTGCCTGAAACAG
TGGCTGATGCCAGACAATCCATTGATGTGGGCAAGACCTCCTGAAC TAGAACAAATAGGAATATTTTCATGGAAT
TTTACCTATTTTTATAATTATTATTTAAGTGATAAAATGAGTACATGGATGAGTGGATTCTGTATTATGACTAGC
TTTACTATTTTAATTCACCTTGTATAACTACTAAATTTTGTCAATCTTGAAAGTATGCAATTTTTATTTTGGTTA
TATTACAAAAATGTCAGTCAGATATTAAAAAATAGTTAATGTGATAGAAAAACCTTACATATTTTTCTTATGTT
TGTTTAGCGACTTTAGCAAAATGTTTTCATATAATCTCATCTGTTTACCTAGAAGATAGGTTAAGGAAATATATT
ATTATTCCTGTTTGATGTAGGTGAAGGCAGAGATCTAACCTGGCTTGTTTAGGGCCATACCACTAATTGGAAAAAT
CTGTACTAGAACCTGTGTCTTATTACTATAAGCTATTATGTTTCAGACTGAACTGGAGAAATTACGACAATTTAT
AGCAGTAGTTAAATCTGAATGTGTATGGACAAAAATATTTAATTGCTCAGTAAACTGCTTAACTTCAAAGATAGT
TATTAACCTCATAAATATTTCAAATTTTGATTCTGAAGTCTAAGTCTGAACACAGACATAACACTATCAAAGAA
GTTTGATCTCTGTTTGA CTCAACTAGAGGAAAAATGATGGATGGGTTTATTCTTTTCTAAGCAGAATGGTTTA
ACTTTGTACTCTTTGAAAAACAATGCTGATTTCTAAATCTCTGCCTATAACAGAATGG

5177/5332
FIGURE 4490

GGACTCGCTAAGTGTTTCGCTACGCGGGGCTACCGGATCGGTCGGAAATGGCAGAGGTGGAGGAGACACTGAAGCG
ACTGCAGAGCCAGAAGGGAGTGCAGGGAATCATCGTCGTGAACACAGAAGGCATTCCCATCAAGAGCACCATGGA
CAACCCACCACCACCAGTATGCCAGCCTCATGCACAGCTTCATCCTGAAGGCACGGAGCACCGTGCGTGACAT
CGACCCCCAGAACGATCTCACCTTCCTTCGAATTCGCTCCAAGAAAAATGAAATTATGGTTGCACCAGATAAAGA
CTATTTCTTGATTGTGATTCAGAATCCAACCGAATAAGCCACTCTCTTGGCTCCCTGTGTCATTCCTTAATTTAA
TGCCCCCAAGAATGTTAATGTCAATCATGTGAGTGGACTAGCACATGGCAGTCGCTTGGAAACCCACTCACACCA
ATCCAGTGACCGTGTGTGGGCTGGCGGCTCTTCTCCCCACCAACGGAACCCCTGTGTGCACCAACCTTCCCCAG
AGCTCCGGAGCGCCCTCTCCTCACTTCCAGGTTTTGGAGCAAGAGCTTGCAGGAAGCCCGCACCCAGCTTCCTTC
TGACCTTCAGTTCACCTTTGTGCGCCCTTGGAGAAAGCTGTTTTTCTTTAACTAAAAATAACCAAAATGCT

5178/5332
FIGURE 4491

GAGTTA~~CCT~~CCCGCAGCCGCAGCCGCCGTGCTCAGCGCGAGCCCCGGAGCCCTTGAGCGCGAGGCGCGGAGCCCC
CGGAGCCCCCAAACCGCAGACACATCCCCGCGCCCCAGAGCCCCGGCCTGCGCGCCCAGCCGGGCCCGCGCG~~ATG~~

CCCTCAGACCGGCCTTTCAA~~GC~~CAGCGGCGGAGCTTCGCCGACCGCTGTAAGGAGGTACAGCAGATCCGCGACCAG
CACCCCAGCAAAATCCCGGTGATCATCGAGCGCTACAAGGGTGAGAAGCAGCTGCCCGTCCTGGACAAGACCAAG
TTTTTGGTCCCGGACCATGTCAACATGAGCGAGTTGGTCAAGATCATCCGGCGCCGCTGCAGCTGAACCCACG
CAGGCCTTCTTCTGCTGGTGAACCAGCACAGCATGGTGAGTGTGTCCACGCCCATCGCGGACATCTACGAGCAG
GAGAAAGACGAGGACGGCTTCCTCTATATGGTCTACGCCTCCAGGAAACCTTCGGCTTCT~~TG~~AGCCAGCAGTAGG
GGGGCTCGGCCTGGGAGTCGGGCGGCCCCGGTCAGGCCCTGCCAGAGAGCTCCTGGTTCTGAACTGAGCTGCC
TCTACCGTGGTGGGCTGGGCAGGCATGTGCCCCCTAGTCAGAGGGCACCAACCCACCTACTCTGCCCCTGGGTG
GATCCTGGGCGGTCGTGTTAGGGTTGTCCCTCTGGGTGCTGGCTGGTGGGATGGGGGAGGGTGGGGAGCAGCTC
CCAGCACCCCTGCTGTGTGGTTCATCTTTTTTTTAGGCCCTGCCTGTCTGCCATCTGCCCCTCACCACCCGA
GGCTCTGCCACCGCCTGGACCTGCCACCCCTGAAAGACTGGCCCCTGGCTCCCCGCCCTCGGTCTCCACGTG
GTGTATGGATCTGTGGTCATTGTCCCTCTGCAGAATAAAGATTGCTCAGGCCTGCCTGGC

5179/5332
FIGURE 4492

ATGGCGGCTCCCTTGGTCCTGGTGCTGGTGGTGGCTGTGACAGTGCGGGCGGCCTTGTTCCGCTCCAGTCTGGCC
GAGTTCATTTCCGAGCGGGTGGAGGTGGTGTCCCCACTGAGCTCTTGGAAGAGAGTGGTTGAAGGCCTTTCAGTG
TTGGACTTGGGAGTATCTCCGTATTCTGGAGCAGTATTTTCATGAAACTCCATTAATAATATACCTCTTTTCAATTC
CTAATTGACTATGCTGAATTGGTGTATGATAACTGATGCACTCACTGCTATTGCCCTGTATTTTGCAATCCAG
GACTTCAATAAAAGTTGTGTTTAAAAAGCAGAACTCCTCCTAGAACTGGACCAGTATGCCCCAGATGTGGCCGAA
CTCATCCGGACCCCTATGGAAATGCGTTACATCCCTTTGAAAGTGGCCCTGTTCTATCTCTTAAATCCTTACACG
ATTTTGTCTTGTGTTGCCAAGTCTACCTGTGCCATCAACAACACCCTCATTGCTTTCTTCATTTTGACTACGATA
AAAGGCAGTGCTTTCCCTCAGTGCTATTTTCTTGCCCTTAGCGACATACCAGTCTCTGTACCCACTCACCTTGTTT
GTCCCAGGACTCCTCTATCTCCTCCAGCGGCAGTACATACCTGTGAAAATGAAGAGCAAAGCCTTCTGGATCTTT
TCTTGGGAGTATGCCATGATGTATGTGGGAAGCCTAGTGGTAATCATTGCTCTCCTTCTTCTTCTCAGCTCT
TGGGATTTTCATCCCCGAGTCTATGGCTTTATACCTTCTGTTCCAGATCTCACTCCAAACATTGGTCTTTTCTGG
TACTTCTTTGCAGAGATGTTTGAGCACTTCAGCCTCTTCTTTGTATGTGTGTTTCAGATCAACGTCTTCTTCTAC
ACCATCCCCCTTAGCCATAAAGCTAAAGGAGCACCCCATCTTCTTCATGTTTATCCAGATCGCTGTCATCGCCATC
TTTAAGTCCTACCCGACAGTGGGGGACGTGGCGCTCTACATGGCCTTCTTCCCCGTGGGAACCATCTCTACAGA
TTCTTGAGAAACATCTTTGTCCTCACCTGCATCATCATCGTCTGTTCCCTGCTCTTCCCTGTCTGTGGCACCTC
TGGATTTATGCAGGAAGTGCCAACTCTAATTTCTTTTATGCCATCACACTGACCTTCAACGTTGGGCAGATCCTG
CTCATCTCTGATTACTTCTATGCCTTCCCTGCGGCGGGAGTACTACCTCACACATGGCCTCTACTTGACCGCCAAG
GATGGCACAGAGGCCATGCTCGTGCTCAAGTAG

5180/5332
FIGURE 4493

CCCTCACTCCTGGTCCCATAACCCAGCATCTAATCATCCATGCCCCCTACTCCTGGCCCCCTCCATCCTTTCTTCT
CTGGTCCCCATCCCTGTCTCTCCCTTTTACCCTTGCCCTCCAGTCTCTACCTCTGGCCTGCCCTATTTCTGAA
AGCTTCTTCCAGTCCCTGATCTGGCTCATTCCCCACCTTCAACTCCCACCTTACATGTCTCACACTATCCCATGG
TTGGCATTACACTCACTCCTGTTCCTTATTCTTCATTCCCAGTAATTCCCTACCAAATGGTGGGGACCTGAGC
CCAGCTCTGACCAGGTAGAGCCTGTGCAGCCTGGGCTGCTGTTCATTGCCCTCCAGTAAGGGCTCAGGGTTTTGCT
TTTAGTCTCCCTTTCCTTCTGCCTTGGGGGCGTACTCTGTGGAGCTGCTTAGGCCTGGAAAGGTACAGTATGTA
GAAGAGGACTGTGAGACGTGAGTTAGAGGGAGAAGATGGAGGGAATCTAGGGAACGAGGCAGCCTATTGGAGATG
CGGACAGGACAGACACGTTGAGAAGCTGCAGGGAGCAGGGCACCAAGGGAGTGTGCACTGTGCTTGCTCAGAGAG
GCCAAACCCTGCTCCCAGGCTGAAGCCTGGAGTCTGCCCCACTTCCCTTTTCTATAATCCACCCTTCTGCAGGC
CCTGAAATCTGAAGGGCTTAGTTAGTACCTTGCCACTCTACCCCCAACACGTACCCGAGTAGAAGCTGGGCAAG
GCCCTACCATCCTGGCCGTCTGTTCAAGCCCAAGGTGCTAGAACTAGCTTAGGAGACATGCAGGCCACAGGGC
TTCTAGGCAGGGAAAGGGCACACACCCTAGGTCAGCGTCAGAGCAGTGTGCTGGAGGACACACCATGGGGTGA
AGCCATCCCAAGGCTGACAGCTCAGTCTTACCTTGCCCTCTGGCCTTGATTTTACACCCTGCTCAGTATGGCTA
GCCAGCAGTCTGAGTAGGAGTCCAGGACTCCCACTGTCTCAATCTGCAAATTGTTTCTATCCAGGTTTCAGGGCC
TTCAGGGGGCCTCTTTTCAATTTTCTCCCACAGGCCTCTCTTCTTTCTAGGTTGCTGGGGAGAAATGGGTACCC
ATGATCCCCCTCCCCTTCTCCTCCAGTAAATACCTGGAAGAGGGAACCTGAATCCCTGGGGGAGACAGAAGGGGC
AGGGGCCACCAGCCTCCCCTTCTTGTGGTGAGACTGAATTTTGGGCTCAGACACCAGCAACAGCCTCTTGGGATG
CCCTGAGTTGCTTCCCATTTCTCTTTCTAGCCGTCTTTCTAGTGTGTGCTCACTCTTCTAGGAACCTTTTAA
GACTTCTTGGTACCTATGAACATAGGTCTCCCTCACCCCACTCTAGGTTTCCAGGCCTCACAGCCAAGCTGA
AGCTTGGAGAAAATCTGCATTCCCATGAGGGCAAAGGCAGCTGCCCTCCCTGACCCTATAGCCCCAGGCCTCAT
GGGGGGTATGTGGGGAAGGGATGGGGTATCCCCATGGATGCTGGGATGAGGACAGAGGAAGACCTGATGGGGTCT
CCTATTCCAGGGAATAAGCCAAATTAACACTAAAAACGGATCAAAGCTCCCACGCCAGTCCACTAGGGCCCCAGT
AGTTGACAGCCTTGCTCCTCTCCCAAGTTCTCCTTCAGAACCTAGTTGCTTTTATTCTTCCAGCTACCACTTGGG
CACTTCACAGCCAGCCTAGGGTCTTCGGCACCTCCAAGAGCTGAATCTCCCTCCAACCCTTCTTGCCCTACTCCTC
ACTGCCAGCTGGGACCTAGGCTCAGTCTGTGTGGTGCCCATGATCCTTCTGGTGGGGGAAGAGTTTAAAGTTATA
GGGCATTTGGCTCAAATTTTAAAGGCCTTTTGTTTACCTATATTTCTGGAGGCTCCTGTATTCTAGAACCCAAT
CTCTCACCTGCTTGGTTGCAAGGCTCATATTTTTTTGTACCTTTCCTATAGATTCTGTAGCATTGAGTGTGGCA
ATATTTTAAATTGTGTATAGATTTCTAAGAACCAACACTACTCAGTCTCCTGCTAGTCTGACTCCTGAAGCATCAG
CCCTTGTCATACTGTATTGACTGTGTACGTGCCTTTCACCTTGAGCATGCTTCAGGATTTTTTTTTTAAACCACAG
AAGTTGAATACATGAGGGAACCAAGAGTTCAAAGTCTATGCAACCTTAGGAGGGGGTTAGAGAGTCTGTTTTGAT
TGATGTTTTCTGAGGCCCTAGAGGAGTTTGTATCAATTTGTGAGTATTAATGTCAGTACTACCAGCACTTTGCCA
AAACTGTCAGAGGGACCCGTTTCTAGAGTGAGTCCCAGTTACATCAAACAGTGACTTCCAGTTATTCCCCAGTAA
GTCTGAGTGGTTCTTCAAGCTGGGTGTCTTTCCAGCCTTTGCCAGTCTAGCCCCAGCAGGGCACCGTGTATGAA
TGCAGTTTGGTGTGTTTTAGAGTATGCCTGCTCCCCAGCCCCCTGCCTGGAACCCCTCTGAGCAACTTGCTCTGA
CCTATAATGTCTTAGGTGCAACACGGACCCCAACAGAGCTCTTGATACCCCCCTAGATCCATGTGGCTTTATGT
GAGGGGACTGAATGCAGACACACCATAGCCCCCTTCTACTACTTTCCCTCTCGCCCTGCCACCTAGTTCCACATG
GAACCAACAAGTTGAGTGCATCCCTGTTGGGTGTTTTGTGTTGAGACTGGCTGAAATGAGGAGACTTTGACCATG
TGACGTGTCAACAGACTCAAGGAGACAACCACTCAACTGGGTGATGTGGCATGCCTGTGTATGTGTGTAACAGA
ATTCTGATTGTTAGACTGTAATGCTATTCTCTATGGGAGAAAAAATTAATATAAAGAAAAACAAATAAAAAATA
TATTTAAAGC

5181/5332
FIGURE 4494A

CTCCAGCCCAGGCAACAGAGCGTGA CTCTCAAAAAAAAAAAAAAAAAAGTGAAAGGAAAATGAGGGGAGAATT
CTCATTGATAATAAGGGCGAAAAGGTTTTTTTGGCAGAGTAATAGAGTTTTTGAAACCATTGCAAAGCTGTCAAG
TGTGGTGTAGTTTTTGGTTAAGGAAATCAGAGGTGTCAGCAGACATAAAAGACAGGGGAAAACATGGGAAGTGTC
CTACCTATAGTGTAGAAAAAGCACAACTATCTATGTCAGAGGTGTCAGAGACTGTGGTCCATAGGTCAAATCTGGC
CCACGATCTGTTTTGTAAATAACGTTTTATTGGAACATAGCCACACTCATTTATTTATATATTGTCCATATCTT
CTTTGTGGTACCAATAGCAGAGTTGAGTAGTCGTGACAGAGATGTGTTGTGTCAGCTCACAAAGCTGGAAATAC
TCTTTACAAAAACATTTGCCAACCCCTGATCTATGTGTTGAGTGTGGATGTTCAACCTCTAATTTGCCATCCA
ATGCTCTATATGATGATAGAGAATGAATAAACGCTCTGGCTCTGCCCTTTGGGCTGGATTACCCATGCTCTGTGTA
CCTGCAGCATAACACAGACCCCTGAATATTTATATCAGTCAGTGATGGCAAGGTCTATTGTTCTGGAGTGTACTG
TGTGGTAACTGTGGTAGTGCCAGCTTTACACGGATTAGATAATGCTCGGGCTTGTTTTGCCATTTTTTTTATTGG
GTTGCTCTTTTACAAAAGATTTATTTATATATTCTGATTATTAATCCTTTGTTGTTGGTAGATATTACAGATGTCA
TTTCCAGTTTTCTTGCTTATTTTAATTTTTTTTTTTTTTTTTTTTGTAGATGAAGTCTTGCTCTGTCGCCAGGCTG
GAGTGCAGTCGTGCCATCTCAGCTCATTGTAACCTCCGTCTCCAGGTTCAAGTGATTCTCTGCCTCAGCCTCC
CAAGTAGCTGGGACTACAGGCATGTGCCACCACACCTGGCTGATTTTTGTGTTTTTAGTAGGGATGGGGTTTCAT
CATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTGATCCACCCGTCTTGCCCTCTAAAGTGCTGGGATT
ACAGGTGTGAGCCACTGCGCCTGGCCTGTTGCTTATTTTAAAACATCTGTTTTAAGGTGTCATTTGTTAAAAAGT
TCTGAATTTTAGTATCAACTTTATCAATCTTTTCCTTTAAGATTTGCAGTTATTCTTTGTTTTGAGGCAGGGTCT
CGCTCTGTACCCGAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAGCCTCAACCTCCTGGGCTCAAGCAA
CCCTCCCACCTCCCATGCCAGTTGAGACCACAGGCATGCGCCACCATGCCCTGCTACTTTTTGCATTTTTTTGTAG
AGGCGGGGTTTTCGCCATGTTGCCCAGGCTAGTCTGGAACCTCCTGAGCTCAAGCAGTCCACAAAGTGCTGGGATTA
CAGGTGTGAGCTACTGTGCCCAGCCTGCAATTATTCTTTATATTCTGGAATACCTACTGTTGTTTTCAATGGTTA
GATCTTTAATGTATCTGGAATGGATTCTTATGTGTAGTGTAAGGTGCGGTCCAGTTTCATTTTTTTTCCCTATGT
ATAACCAGTGATCCCAGCATCATTATTGAATGGGGCTTGCTTTCAAATTGTGAGCTCTTTTTGGTGGAGTCTGT
CTCAGGTCTTTATTAAGCACTGCTGCTTGCTGATTGTGTGACCTTGGACAAATAAAACCTCATTGCGCCTCAGTC
TTTAAGGATAATAGTAATCTCATAGGGTTTTGTGAGGATTAATGAGTCAATATACATAACGTGTAAACAGTGC
TTGGCACCTAGAACATGCTCAATAAATATTAGCTGTACTTTAGCACTACTGTTCAATTTCTGATTCTCAGCACCT
GGTACAGAGCAGGGGCTCATTGTCTCAATTAAATTGCCAAATTAATTTGGTTTTTCAGGTCAATCAGAATGGTGA
GAGTTGGGCTGAGTGTGTCAGGAGATGCTTCCAAGGAGCTACTTAGTTTTAGGGGCTGCCTTAGATTATCTGCTA
GGATAGAACTCTTCTACGCCATCACTTTTGCAGAGAACTTCTGTAGCAGAGGTTGCAAACCTGGCAACCTGTGGT
TGGATTTGACCTGTATAAGTATTTGTTTGGTTTACACAATATTTTAAATGTCTTAAAAATGTACACAGACCTCT
GAGTTTCTGACTTAACCTTGAAAAATTGGAAGATCTGTCAACAGCAAGCCCATATTCAATTTATAGCGGTAACCA
CTGAAACTTTTAGTGCTGGGAGGAATGGAGAGGGGTCCCACTGACTAAGTTTCTGAGAGTGGTCAGAGAGTTC
TTAAGCAGAATTTTGATTGGCTGCTGGGCTGCTACCTTGAATCCAAGCCCTAAAAATGCCAGCTTCTTTGGAC
TTAGAAGATGACCTGGATAAATGATAAAAAATTAAGAAAGAGATTTTGAAGTTTCTTATTGTCTCTTGGCATAT
GCTTCTGGAATAATATTCACCATGGTTTTTGGATGACCTTCCAACTTAGAAGACATCTATACTTCTTGTGTTCA
TCAACAATGGAAGACTCAGAGATGGATTTTGACTCTGGACTAGAAGATGATGACACAAAAGTGATAGTATTTTG
GAGGATTCCACAATTTTTGTGGCCTTCAAAGGAAATATAGATGATAAAGACTTCAAATGGAAATTAGATGCAATA
TTGAAAAACGTGCCCAATTTGTTACACATGGAGTCCAGCAAGCTAAAAGTACAGAAGGTGGAGCCCTGGAACAGC
GTGCGTGTGACATTCAACATCCCCCGGAAGCAGCGGAGCGGCTACGGATCCTTGCTCAGAGCAACAACAGCAG
CTTCGGGATTTAGGGATTCTCTCCGTTTCAAGTTGAAGGGGAAGGTGCTATTAACCTGGCTTTGGCTCAGAACCGA
AGCCAAGATGTGAGAAATGAATGGACCCATGGGAGCTGGAAATTCAAGTTAGGATGGAGGCGGGATTTCCTATGGCA
AGTGGTCCAGGAATAATAAGGATGAACAACCTGCCACTGTTATGATACCCCCGGGTGGAAATGTGTCATCTTCC
ATGATGGCACCAGGCCCAATCCAGAGCTGCAGCCCAGGACTCCTCGCCCTGCTTCTCAGTCAGATGCAATGGAT
CCACTCCTCTCTGGGCTCCATATACAGCAGCAAAGTCATCCCTCAGGATCTTTAGCTCCCCACATCACCCAATG
CAGCCTGTCTCTGTGAACAGACAAATGAACCCAGCTAATTTTCCCCAGCTGCAGCAGCAGCAGCAACAACAACAA
CAGCAGCAGCAGCAGCAGCAGCAACAACAGCAACAGCAGCAACAACAGTTGCAGGCAAGACCCCCACAGCAA
CATCAGCAGCAACAGCCACAGGGAATTCGACCCAGTTTACTGCCCAACTCAGGTGCCTGTTCTCCAGGCTGG
AACCAGCTGCCTTCTGAGGCCCTTCAACCTCCTCCAGCCCAGGGTTCTCTGGGCACAATGACTGCAAAACCAAGGG

5182/5332
FIGURE 4494B

TGGAAGAAGGCTCCCTTGCCCGGCCAATGCAACAGCAACTCCAGGCAAGACCATCCTTAGCCACGGTACAGACG
CCTTCCCACCCTCCCCCTCCATATCCCTTTGGCAGCCAGCAAGCCTCACAAGCCCACACAACTTTCTCAGATG
AGCAACCCAGGCCAGTTACAGCTCCTCAGATGAAGAGTTTGCAGGGAGGGCCCTCTAGGGTCCCAACTCCCTTG
CAGCAGCCCCACCTCACCAACAAGTCTCCTGCCTCCTCACCTCCTCCTTCCAGCAGGGATCCCCGTCATCCTCC
CCAACGGTTAACCAAACTCAGCAGCAGATGGGACCAAGGCCACCTCAAAAATAACCCACTTCCCCAGGGATTTCAG
CAGCCTGTCAGCTCTCCGGGTCGGAATCCTATGGTTCAACAGGGAATGTGCCACCTAACTTTCATGGTGATGCAG
CAGCAACCACCAACCAGGGGCCACAGAGTTTACATCCAGGCCTAGGAGGAATGCCTAAACGCCTCCACCTGGC
TTCTCAGCAGGACAGGCCAATCCGAACCTTTATGCAAGGTCAGGTGCCCTTCGACCACAGCAACCACCCCTGGGAAT
TCAGGAGCCCCCTCAGCTGCAAGCAAATCAAAATGTCCAGCATGCAGGTGGTCAAGGAGCTGGTCTCTCAAAAC
CAGATGCAGGTGTCCACGGGCCGCAAATATGATGCAGCCAGCCTCATGGGAATTCATGGCAACATGAACAAT
CAGCAGGCTGGTACTTCTGGGGTTCTCAAGTGAACCTCAGCAACATGCAAGGCCAGCCCCAGCAGGGGCCACCA
TCTCAGCTGATGGGCATGCACCAGCAAATCGTGCCCTCCCAGGGCCAGATGGTCCAGCAACAAGGAACCTTGAAC
CCTCAGAACCCTATGATCCTTTCAAGGGCCCAGCTTATGCCACAGGGCCAGATGATGGTGAACCCCCGAGCCAA
AATCTTGGGGCCTCGCCCCAAAGGATGACCCACCCAAGCAGATGCTTTCCAGCAGGGCCCACAAATGATGGCG
CCACATAACCAGATGATGGGGCCTCAGGGGCAGGTTTGTCTCAACAGAACCCAATGATAGAGCAGATTATGACC
AATCAAATGCAGGGGAATAAGCAGCAGTTTAACTCAGAACAGTCCAATGTCATGCCGGGACCAGCCAGATA
ATGAGGGGACCAACTCCAAACATGCAAGGAAATATGGTGCAGTTTACGGGACAGATGTCAGGACAGATGCTGCCC
CAGCAAGGGCCTGTGAACAACAGTCCATCTCAGGTTATGGGCATTAGGGACAGGTCTGCGGCCACCAGGGCCC
AGCCACACATGGCCAGCAGCATGGTGATCCTGCTACTACAGCAAATAACGATGTCAGTTTATCTCAGATGATG
CCTGATGTTAGCATTCAACAAACCAACATGGTCCCCCTCATGTGCAGGCCATGCAGGGAAACAGTGCCTCGGGA
AACCATTCTCAGGCCATGGGATGTCTTCAATGCACCTTTAGTGGAGCTCCCAATGGAAATCAGATGTCTGT
GGTCAAAATCCAGGCTTCCAGTCAATAAGGATGTCACGCTAACGAGCCCATTTGTTGGTCAACTTATTGCAGAGT
GACATATCTGCAGGCCATTTTGGGGTAAACAATAAGCAAAATAATACCAACGCAAATAAACCGAAGAAGAAGAAA
CCCCCTCGGAAGAAGAAAAATAGTCAGCAAGATCTAAACACCCCAGATACTCGCCCAGCTGGTCTGGAAGAGGCT
GATCAGCCACCGTTGCTGGAGAACAAGGAATTAAGTGGATAACTCAGGCCCTAACTGCCAGAATTTTCAAAC
CGGCCACCAGGTTATCCTTCTCAACCAGTTGAACAGAGGCCACTTCAGCAGATGCCTCCTCAACTCATGCAGCAT
GTGGCACCCCCACCACAGCCACCACAGCAGCAGCCACAGCCACAACCTGCCTCAGCAGCAGCAGCCACCACCTCCC
AGTCAGCCACAGTCTCAGCAGCAGCAGCAGCAGCAGCAACAAATGATGATGATGCTCATGATGCAGCAGGATCCC
AAATCAGTTAGGCTTCCAGTCTCTCAAAATGTCCATCCTCCAAGGGGCCCCCTGAACCCGACTCCCAGAGAATG
CCCATGCAACAGAGTGGCAGTGTGCCTGTCATGGTCACTGTGCAAGGACCTGCCTCCGTGCCACCATCACCTGAT
AAACAAAGAATGCCAATGCCTGTGAATACTCCCTTGGGAAGCAATTCAAGGAAATGGTCTATCAGGAGAGCCCCG
CAGAACTCCTTCCAGCTCGCCACTGGCGGAGATGGCCTCACTCCCTGAAGCAAGTGGCAGTGAAGCACCATCTGTC
CCAGGAGGCCCCAAACAACATGCCTTCACATGTAGTACTTCCCCAGAATCAGTTAATGATGACAGGGCCAAAACCT
GGACCATCGCCCCCTTTCAGCAACTCAAGGTGCAACTCCCCAGCAACCCCTGTAAATTCCTGCCCAGCTCTCAC
GGCCACCACTTCCCAAATGTGGCTGCGCCAACCCAGACATCTAGGCCCAAAACACCAACAGAGCCAGCCCCAGA
CCCTATTATCCTCAGACACCAACAACCGCCCTCCCAGCACAGAACCTTCAGAAATCAGTCTGTCAACAGAAAGA
CTCAATGCCCTCCATAGCAGGACTCTTCCCTCCACAGATTAATATTCTTTACCTCCTAGGCCAAATTTAAACAGG
GGCTTTGATCAACAAGGCCTAAATCCAACAACCTTGAAGGCCATCGGGCAAGCACTTCAAATCTTACCATGAAT
CCTTCCAATTTTGCTACCCCAAACTCACAATTAGATTCTGTGGTAGTGAATCTGGAAAGCAGTCTAATTCT
GGAGCAACAAAACGGGCAAGTCCAAGCAACAGTCGCAGGTCTAGTCCTGGGTCCAGTAGGAAAACCACTCCAAGC
CCTGGGAGGCAAAATTCAAAAGCCCCCTAACTTACTCTGGCCTCTCAGACAAATGCAGCCCTATTGCAGAAATGTG
GAGTTGCCGAGAAATGATTGGTCAGTCCCCTCTCTGGCTGCAATGGGGGTGTTGTTGAGGATAACAAGGAGAGC
TTGAATGTGCCTCAGGACAGTGATTGCCAGAATTTCCAGAGTAGGAAGGAACAGGTAAACATTGAACATAAAGCA
GTCCCTGCCCAAGAAGTTAAATGGTTGTCCCTGAAGATCAGTCCAAAAAGGATGGGCAGCCTTCGGATCCTAAC
AACTTCCCAGTGTGGAAGAGAAAAAATTTGGTGTCTCCTGCTATGAGGGAAGCACCAACATCGTTAAGTCAA
CTTCTTGACAACCTCTGGAGCTCCCAATGTGACAATTAACCCCCCTGGGCTTACAGATCTGGAAGTAACACCTCCA
GTAGTTTCTGGGAGGACCTCAAAAAGCATCTGTCAATCCACACTGCAGGATCTGTCTTCTTCTAAAGAACCT

5183/5332
FIGURE 4494C

TCTAATTC CCTAAACTTACCTCACAGTAATGAGCTGTGTTTCATCCCTTGTGCATCCCGAATTGAGTGAGGTCAGT
TCTAACGTTGCACCAAGCATCCCTCCAGTAATGTCAAGACCTGTTAGCTCTTCCCTCCATTTCCTACTCCCTTGCCC
CCAAATCAAATAACTGTATTTGTCACTTCCAATCCCATCACAACCTTCAGCTAACACATCAGCAGCTTTGCCAACT
CACTTGCAGTCTGCATTGATGTCAACAGTTGTCACAATGCCCAATGCGGGTAGCAAGGTTATGGTTTTCTGAGGGA
CAGTCAGCTGCTCAGTCTAATGCCCGGCTCAGTTTATTACACCTGTCTTTATCAATTCATCTCAATAATTACAG
GTTATGAAAGGATCACAGCCAAGCACAAATTCCTGCAGCCCCACTGACAACCAACTCTGGCCTGATGCCTCCCTCT
GTTGCAGTTGTTGGCCCTTTACACATACCTCAGAACATAAAATTTTCTTCTGCTCCTGTACCGCTAATGCCCTC
TCCAGTAGTCTGCTCCAAACATCCAGACAGGTCGACCTTTGGTCCCTTAGCTCAGCAGCCACCCCTGTTTCAGCTT
CCTTCCCCCTCCTTGTACGTCTTCTCCAGTTGTCCCTTCTCATCCCCCTGTGCAGCAAGTGAAAGAATTGAATCCA
GATGAGGCTAGCCCTCAGGTGAACACCTCAGCAGATCAGAACACTCTTCCCTCTTCACAGTCAACCACAATGGTT
TCTCCCTTTTGACCAATAGTCCAGGGTCTCTGGCAACCGGCGAAGCCAGTCTCGTCTAGTAAGGGCAAAGGA
AAAGTGGACAAAATTGGCCAAATTTTGTGACCAAGGCATGTAAGAAAGTTACAGGCTCTCTTGAGAAAGGGGAA
GAACAATATGGTGCAGATGGAGAGACTGAAGGCCAAGGGCTAGACACCACAGCTCCGGGGCTCATGGGAACAGAG
CAGTTATCCACAGAGCTGGACAGTAAACCCCAACGCCCCCAGCACCCTCTGCTAAAAATGACCTCTAGCCCT
GTGGGCCCCGGGCACTGCCTCAGCAGGACCCAGCTTACCTGGCGGTGCTCTCCCCACCAGTGACGCTCGATAGTA
ACCACTCTGGTACCCTCCGAGCTCATCTCCGCCGTACCGACCACAAAAGCAATCATGGTGGCATAGCATCTGAG
TCACCTGCGGGTGGCCTAGTGGAGGAGAAGGTGGGATCCCATCCAGAACTTCTACCCAGCATAGCCCCGTGCGAG
AATTTAGTCTCAAAGGAACTTCAACCACAGCACTGCAGGCCTCTGTTGCCAGACCAGAGCTGGAGGTAAATGCT
GCCATAGTCTCTGGACAAAGCAGTGAGCCCAAAGAGATAGTTGAAAAGTCCAAAATCCCAGGCCGAAGAACTCC
CGAACTGAAGAGCCAACCTGTGGCCTCTGAAAGTGTGGAAAATGGACATCGTAAACGATCTTCTCGACCTGCTTCA
GCCTCCAGCTCTACTAAAGACATAACCAGTGCGGTGCAATCCAAGCGAAGAAAATCCAAGTAAACAAGCAGGACT
GCGACTTGATACTTGGAATGTGTGTGACTTTTACAAAGAGCAATTTTGAGCTGTGACTTTTTTAAATCAATTTT
TGTACAGTTAGTAATTTTAATAATGTGGCCCTTTTCTAGTCCCTGCAACCTGTTTCATAAAGTGCAATGGGGAA
AGCAGGACTGTTGAGCCCTTTTGGTGTGCGAGTTGAAGTTCAAGGTTTCTAAAATGTTGTCTTGTATTGAAAGG
AGCTAATGCCATTATAAATGTTACTAGTTTTACATTTCCCTAAGCAGCCTAGAGTACAGGGTGAGCATTTTTAGA
TCTCCTAATGATGATTGTGCCGTGGAAGTACTGTGTGTGAATAGCAGTAGTGGGGGCAAAGCAATCTTCTCAT
TTGGAAATGTTGAAATAATTTTATTATATAGTGTGTTGGATGTATTGTTGTAGAAATGGACCAGTGAATAAAG
AGAATCTAAGGATTTGTACAATGTGAAATAACGTGTTAAATAAATGTCATTGTGCATAGAACATAAAGTTATGTTA
TTGGTAAGGG

5184/5332
FIGURE 4495

ATGGCGGCGGAGAACGAGGCCAGCCAGGAGAGCGCCCTGGGCGCCTACTCGCCAGTGGACTACATGAGCATCACC
AGCTTCCCGCGGCTGCCCGAGGACGAGCCGGCGCCCGCGGCCCGCTGAGGGGCGCAAGGACGAGGACGCCTTT
CTGGGAGACCCCGACACCGACCCGGACTCCTTCCCTGAAGTCTGCACGGCTGCAGCGGCTGCCATCGTCGTCGTCG
GAGATGGGCAGCCAAGACGGGTGCGCGCTACGCGAGACGCGCAAAGACCCGTTCTCCGCCGCAGCGGCCGAGTGC
TCCTGCCGCCAGGATGGGCTCACGGTCATCGTCACGGCCTGTCTACCTTCGCTACCGGTGTACCGTGGCGCTG
GTCATGCAGATCTACTTCGGGGACCCCCAGATCTTCCAGCAGGGTGCCGTGGTGACCGATGCTGCCCGCTGCACT
TCACTGGGCATCGAGGTGCTCAGTAAACAGGGATCTTCTGTGGACGCAGCGGTGGCAGCAGCCTTGTGTTTGGGT
ATCGTGGCTCCACACAGTTCTGGCCTGGGCGGTGGGGGCGTGATGTGGTACATGACATCCGACGAAATGAGAGC
CACCTAATTGATTTCCGGGAGTCCGCACCAGGGGCCCTCAGGGAAGAGACCCTGCAAAGATCCTGGGAGACCAAG
GTGGGGACCCCTGCCTGGGCTCTTGGTGGGGGTTCGCGAATGGTGAAGGGGCTACATGAAGCTCACCAGCTCTAT
GGCAGGCTGCCATGGTCCCAAGTCTGGCCTTTCAGCAGCTGTGGCCCAAGATGGCTTCAACGTGACTCATGAT
CTAGCCCGTGCCCTGGCTGAACAGCTGCCACCCAACATGTCCGAGCGCTTCCGGGAGACGTTCTGCCATCGGGC
CGCCCCGCCACTACCTGGCTCGTTGCTGCATCGGCCCGACCTGGCTGAGGTGCTGGATGTACTTGGCACCTCCGGC
CCGGCTGCCTTCTACGCAGGTGGCAACCTCACACTGGAGATGGTGGCCGAGGCTCAGCACGCAGGGGGGTGTCATA
ACCGAAGAGGACTTCAGCAATTACAGCGCCCTTGTGGAGAAGCCTGTGTGTGGCGTGTACAGAGGCCACCTGGTT
CTTAGTCCCCCACCTCCGCACACGGGCCCTGCCCTCATCAGTGCTCTCAACATCCTGGAGGGCTTCAATCTCACC
AGCCTGGTATCCCGAGAACAGGCTCTTCACTGGGTGGCAGAGACCCTGAAGATTGCATTAGCCCTGGCCAGCAGA
CTGGGAGATCCCGTCTATGATTCTACCATCACTGAGAGCATGGATGACATGCTCAGCAAGGTGGAGGCCGCTTAC
CTCCGGGGCCATATCAATGACTCCAGGCAGCCCCCTGCCCACTCCTGCCTGTCTATGAAC TAGACGGAGCTCCC
ACGGCTGCCCAGGTGCTGATCATGGGACCTGATGACTTCATTGTGGCCATGGTTAGCTCCCTGAACCAGCCCTTT
GGCAGCGGCCTTATCACCCCTCGGGGATCCTGTCTAACAGCCAGATGCTGGACTTCTCCTGGCCCAACCGGACA
GCTAACCACTCTGCACCCAGCCTGGAGAATTCACTGCAGCCAGGGAAGCGGCCACTCTCTTTTCTGCTGCCACA
GTGGTCCGACCCGCGGAGGGGCTCTGTGGAACCTACCTCGCTCTGGGGGCCAATGGAGCTGCGCGGGGCCTCAGC
GGCCTGACACAGGTTCTGCTGAATGTCCTGACCTTGAACCGGAACCTGAGTGACAGCCTGGCCCGCGGCCGCTA
CACCCGGACCTGCAGTCCAACCTCCTGCAGGTGGACAGTGAGTTCACAGAGGAAGAGATTGAGTTCCTGGAAGCC
AGGGGTACCCACGTGGAGAAAGTAGATGTCTTATCCTGGGTCCATGGCAGCCGAAGGACCAACAACCTTCATCATC
GCTGTTAAGGACCCTCGGAGCCCAGATGCAGCTGGAGCCACCATCCTGTAG

5185/5332
FIGURE 4496

ATGGGGCTTCCTGAGGAGCGGGTCCGGAGCGGCAGCGGGAGCCGGGGCCAGGAGGAAGCTGGAGCCGGAGGGCCGG
GCGCGGAGTTGGTCTCCGCCGCCCGAGGTTCAGCCGCTCCGCGCACGTCCCCTCGCTGCAGCGCTACCGCGAGCTG
CACCGGCGCTCCGTGGAGGAGCCGCGGGAATTCTGGGGAGACATTGCCAAGGAATTTTACTGGAAGACTCCATGC
CCTGGCCCATTCCTTCGGTACAACCTTTGATGTGACTAAAGGGAAAAATCTTCATTGAGTGGATGAAAGGAGCAACT
ACCAACATCTGCTACAATGFACTGGATCGAAATGTCCATGAGAAAAAGCTTGGAGATAAAGTTGCTTTTTACTGG
GAGGGCAATGAGCCAGGGGAGACCACTCAGATCACATACCATCAGCTTCTGGTCCAAGTGTGTGAGTTTCAAGCAAT
GTTCTCCGAAAAACAGGGCATTTCAGAAGGGGGACCGAGTGGCCATCTACATGCCTATGATCCCAGAGCTTGTGGTG
GCCATGCTGGCATGTGCCCCGCAATTGGGGCTTTGCACTCCATTGTGTTTGCAGGCTTCTCTTCAGAGTCTCTATGT
GAACGGATCTTGGATTCCAGCTGCAGTCTTCTCATCACTACAGATGCCTTCTACAGGGGGGAAAAGCTTGTGAAC
CTGAAGGAGCTGGCTGACGAGGCCCTGCAGAAGTGTGAGGAGAAGGGTTTCCCAGTAAGATGCTGCATTGTGGTC
AAGCACCTGGGGCGGGCAGAGCTCGGCATGGGTGACTCCACCAGCCAGTCCCCCAATTAAGAGGTTCATGCCCA
GATGTGCAGATCTCATGGAACCAAGGGATTGACTTGTGGTGGCATGAGCTCATGAAGAGGCAGGGGATGAGTGT
GAGCCCGAGTGGTGTGATGCCGAGGACCACTCTTCATCCTGTACACCAGTGGCTCCACAGGCAAACCAAGGGG
TGTGGTTCACACAGTTGGGGGCTACATGCTCTATGTAGCCACAACCTTCAAGTATGTGTTTGACTTCCATGCAGA
GGATGTGTTCTGGTGCACGGCAGACATTGGTTGGATCACTGGTCATTCTACGTACCTATGGGCCACTGGCCAA
TGGTGCCACCAGTGTGTTTGTGTTGAGGGGATTCCACATATCCGGACGTGAACCGCCTGTGGAGCATTGTGGACAA
ATACAAGGTGACCAAGTTCTACACAGCACCCACAGCCATCCGTCTGCTCATGAAGTTTGGAGATGAGCCTGTCAC
CAAGCATAGCCGGGCATCCTTGCAGGTGTTAGGCACAGTGGGTGAACCCATCAACCTTGAGGCCTGGCTATGGTA
CCACCGGGTGGTAGGTGCCAGCGCTGCCCCATCGTGGACACCTTCTGGCAAACAGAGACAGGTGGCCACATGTT
GACTCCCCTTCCGTGGTGCCACACCCATGAAACCCGGTTCTGCTACTTTCCCATTCCTTTGGTGTAGCTCCTGCAAT
CCTGAATGAGTCCGGGAAGAGTTGGAAGGTGAAGCTGAAGGTTATCTGGTGTTCAGCAGCCCTGGCCAGGGAT
CATGCGCACAGTCTATGGGAACACGAACGCTTTGAGACAACCTACTTTAAGAAGTTTCTGGATACTATGTTAC
AGGAGATGGCTGCCAGCGGGACCAAGGATGGCTATTACTGGATCACTGGCAGGATTGATGACATGCTCAATGTATC
TGGACACCTGCTGAGTACAGCAGAGGTGGAGTCAGCACTTGTGGAACATGAGGCTGTTGCAGAGGCAGCTGTGGT
GGGCCACCCTCATCCTGTGAAGGGTGAATGCCTCTACTGCTTTGTACCTTGTGTGATGGCCACACCTTCAGCCC
CAAGCTCACCGAGGAGCTCAAGAAGCAGATTAGAGAAAAGATTGGCCCCATTGCCACACCAGACTACATCCAGAA
TGCACCTGGCTTGCTTAAACCCGCTCAGGGAAAATCATGAGGCGAGTGCTTCGGAAGATTGCTCAGAATGACCA
TGACCTCGGGGACATGTCTACTGTGGCTGACCCATCTGTATCAGTCACCTCTTCAGCCACCGCTGCCTGACCAT
CCAG**TGA**

5186/5332
FIGURE 4497

GGGAGAACCGTTCGCGGAGGAAAGGCGAACTAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTGCAAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTGCAGCCAGAACGCTGCCTTCCTGGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCCAGACTGTGTTCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCTGGCCTCCCGGACCCCACTGT
GCACCGACATGTTCTCAGTGTCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCCTCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCGAGTGGTCCAGTGCATTTAGAGCTGGGCATCTTTGGGGTCTATGTGAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCCCTGGACAACCCATACCCTGTGTGAGGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCAATTCCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCCTGCCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTG

5187/5332
FIGURE 4498

GACATGGCGGCGGCGCCGGTAGCGGCTGGGTCTGGAGCCGGCCGAGGGAGACGGTCGGCAGCCACAGTGGCGGGCT
TGGGGCGGATGGGGCGGCCGGCCGCGGCCTGGTAACATTCTGCTGCAGCTGCGGCAGGGCCAGCTGACCGGGCCGG
GGCCTGGTCCGGGCGGTGCAGTTCACTGAGACTTTTTTGACGGAGAGGGACAAACAATCCAAGTGGAGTGGAAATT
CCTCAGCTGCTCCTCAAGCTGCACACCACCAGCCACCTCCACAGTGACTTTGTTGAGTGTCAAAACATCCTCAAG
GAAATTTCTCCTCTCTCTCCATGGAGGCTATGGCATTGTGTTACTGAAGAGAGGAAACTTACCCAAGAAACCACT
TATCCAAATACTTACATTTTTGACTTGTGTTGGAGGTGTTGATCTTCTGTAGAAAATTCTTATGAGGCCTACGATC
TCTATCCGGGGACAGAACTGAAAAGTAATGATGAAATGTCCAAGGACTGCTTGAGTATCCTGTATAATACCTGT
GTCTGTACAGAGGGAGTTACAAAGCGTTTGGCAGAAAAGAATGACTTTGTGATCTTCTGTTTACATTGATGACA
AGTAAGAAGACATTCTTACAAACAGCAACCCTCATTGAAGATATTTGGGTGTTAAAAAGGAAATGATCCGACTA
GATGAAGTCCCCAATCTGAGTTCCTTAGTATCCAATTTGATCAGCAGCAGCTCGCTAATTTCTGCCGGATTCTG
GCTGTCAACATTTAGAGATGGATACAGGGAATGATGACAAGCACACGCTTCTGCCAAAAATGCTCAACAGAAG
AAGAGCTTGAGTTTGGGGCCTTCTGCAGCTGAAATCAATCAAGCGGCCCTTCTCAGCATTCTGGCTTTGTTGAG
CGGCTTTGCAAACCTGGCGACTCGAAAGGTGTGAGAGTCAACGGGCACAGCCAGCTTCCTTCAGGAGTTGGAAGAG
TGGTACACATGGCTAGACAATGCTTTGGTGCTAGATGCCCTGATGCGAGTGGCCAATGAGGAGTCAGAGCACAAT
CAAGCCTCCATTGTGTTCCCTCCTCCAGGGGCTTCTGAGGAGAATGGCCTGCCTCACACGTGAGCCAGAACCCAG
CTGCCCCAGTCAATGAAGATTATGCATGAGATCATGTACAACTGGAAGTGCTCTATGTCTCTGCGTGCTGCTG
ATGGGGCGTCAGCGAAACCAGGTTACAGAATGATTGCAGAGTTCAAGCTGATCCCTGGACTTAATAATTTGTTT
GACAACTGATTTGGAGGAAGCATTACAGCATCTGCCCTTGTCTCTCATGGTCAACAACAGAACTGTGACTGTAGC
CCGGACATCACCTTGAAGATACAGTTTTTGAGGCTTCTTCAGAGCTTCAGTGACCACCACGAGAACAAGTACTTG
TTACTCAACAACAGGAGCTGAATGAACTCAGTGCCATCTCTCTCAAGGCCAACATCCCTGAGGTGGAAGCTGTC
CTCAACACCGACAGGAGTTTGGTGTGTGATGGGAAGAGGGGCTTATTAACCTCGTCTGCTGCAGGTGATGAAGAAG
GAGCCAGCAGAGTCGTCTTTAGGTTTTGGCAAGCTCGGGCTGTGGAGAGTTTCTCCGAGGGACCACTCCTAT
GCAGACCAGATGTTTCTGCTGAAGCGAGGCCTCTTGAGACATCCTTTACTGCATTGTGGACAGCGAGTGTAAG
TCAAGGGATGTGCTCCAGAGTTACTTTGACCTCCTGGGGGAGCTGATGAAGTTCAACGTTGATGCATTCAAGAGA
TTCAATAAATATATCAACACCGATGCAAAGTTCCAGGTATTCCTGAAGCAGATCAACAGCTCCCTGGTGGACTCC
AACATGCTGGTGCCTGTGTCACTCTGTCCCTGGACCGATTTGAAAACCAGGTGGATATGAAAGTTGCCGAGGTA
CTGTCTGAATGCCGCTGCTCGCCTACATATCCCAGGTGCCACGCAGATGTCCTTCTCTTCCGCTCATCAAC
ATCATCCACGTGCAGACGCTGACCCAGGAGAACGTCAGCTGCCTCAACACCAGCCTGGTGATCCTGATGCTGGCC
CGACGGAAAGAGCGGCTGCCCTGTACCTGCGGCTGCTGCAGCGGATGGAGCACAGCAAGAAGTACCCCGGCTTC
CTGCTCAACAACCTTCCACAACCTGCTGCGCTTCTGGCAGCAGCAGTACCTGCACAAGGACAAGGACAGCACCTGC
CTAGAGAACAGCTCCTGCATCAGCTTCTCATACTGGAAGGAGACAGTGTCCATCCTGTTGAACCCGACCGGCAG
TCACCTCTGCTCTCGTTAGCTACATTGAGGAGCCCTACATGGACATAGACAGGGACTTCACTGAGGAGTGACCT
TGGGCCAGGCCTCGGGAGGCTGCTGGGCCAGTGTGGGTGAGCGTGGGTACGATGCCACACGCCCTGCCCTGTTC
CGTTCTCCTGCTGCTCTCTGCTGCCCCAGGTCTTTGGGTACAGGCTTGGTGGGAGGGAAGTCTAGAAGCCC
TTGGTCCCCCTGGGTCTGAGGGCCCTAGGTTCATGGAGAGCCTCAGTCCCCATAATGAGGACAGGGTACCATGCC
ACCTTTCTCTCAGAACCCTGGGGCCAGGGCCACCCAGAGGTAAGAGGACATTTAGCATTAGCTCTGTGTGAGCT
CCTGCCGGTTTCTTGGCTGTGAGTCACTCCAGAGTGGGGAGGAAGATATGGGTGACCCCAACCCCACTCTGTG
AGCCAAGCCTCCCTTGTCCCTGGCCTTTGGACCCAGGCAAAGGCTTCTGAGCCCTGGGCAGGGGTGGTGGGTACC
AGAGAATGCTGCCTTCCCCAAGCCTGCCCCCTGCTCATTTTCTGTAGCTCCTCTGTTTCTGTTTGTCTATT
GGCCGCTGTGTTTATCAAGGGGGTTCTCCAGAAGTGAGGGGCTTTCCCTCCATCCCTTGGGGCACGGGGCAG
CTGTGCTGCTGCTGCTGCTGCTGAGGCAGCCGCTCCTGCTGAGCCTGGACATGGGGCCCTTCTTGTGTTGCC
AATTTATTAACAGCAAATAAACCAATTAATGAGAGACTATTAAATAACTTTATTTT

5188/5332
FIGURE 4499

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTTTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCGAAAACCTCTCCAGCCTTTCAGACCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTTGTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCTTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCCCTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCAACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAAT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGCAGATTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACGCGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGTACATCTT
CAACACAGAAGCTCACCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGAGCAGGTGAAATTTTCAGAAAAACACTGTTAGTTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGTCCCACCTTCTCAGCTGCCCCAGTCAGCCCTTACCCTCCAAGTTGGCATTACTGGGACAGGT
TTTCTAGACTCCTCATAACTGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

5189/5332
FIGURE 4500

CAGGTCCGGAGCCTCAACTTCAGGATGTTGACAACATTGCTGCCGATACTGCTGCTGTCTGGCTGGGCCTTTTGT
AGCCAAGACGCCTCAGATGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTG
TGGTACCAGGGCAACGCGTCGCTGGGGGGACACCTAACGCACGTGCTGGAAGGCCCAGACACCAACACCACGATC
ATTCAGCTGCAGCCCTTGCAGGAGCCCGAGAGCTGGGCGCGCACGCAGAGTGGCCTGCAGTCCTACCTGCTCCAG
TTCCACGGCCTCGTGCCTGGTGCACCAGGAGCGGACCTTGGCCTTTCTCTGACCATCCGCTGCTTCCTGGGC
TGTGAGCTGCCTCCCGAGGGCTCTAGAGCCCATGTCTTCTTTCGAAGTGGCTGTGAATGGGAGCTCCTTTGTGAGT
TTCCGGCCGGAGAGAGCCTTGTGGCAGGCAGACACCCAGGTCACCTCCGGAGTGGTCACCTTCACCTGCAGCAG
CTCAATGCCTACAACCGCACTCGGTATGAACTGCGGGAATTCTGGAGGACACCTGTGTGCAGTATGTGCAGAAA
CATATTTCCGCGGAAAACACGAAAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTG
GGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCTGTGCACAGGTGGACGGCGATGTAAATTACTCTCC
AGCCCCCTCAGAAGGGGCTGGATTGATGGAGGCTGGCAAGGGAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCC
AACTGAAACACCAGAAGGTTTGGAGTGACAGCTCCTTTCTTCTCCACATCTGCCCACTGAAGATTGAGGGAGG
GGAGATGGAGAGGAGAGGTGGACAAAGTACTTGGTTTGCTAAGAACCTAAGAACGTGTATGCTTTGCTGAATTAG
TCTGATAAGTGAATGTTTATCTATCTTTGTGAAAACAGATAATGGAGTTGGGGCAGGAAGCCTATGGCCCATCC
TCAAAGACAGACAGAATCACCTGAGGCGTTCAAAGATATAACCAAATAAACAAGTCATCCACAATCAAAATAC
AACATTCAATACTTCAGGTGTGTCAGACTTGGGATGGGACGCTGATATAATAGGGTAGAAAGAAGTAACACGAA
GAAGTGGTGAAATGTAAATCCAAGTCATATGGCAGTGATCAATTATTAATCAATTAATAATATTAATAAATTT
CTTATATTT

5190/5332
FIGURE 4501

TCAC TGAGGAGCCCTAGACAAGGCCAATGGGTT CATCAATGCCCACTGGCTCTCTGCCAAAGCCAAAAAGGTGTC
AGGCAGTCTCCAGCGTGCTGGCCGGGTCTCGGATGCCACCCCTGCTCACTGAGCCTGCATGGGCCTTGCCCCCGA
CCCTGTGGTCTCTGGGATTGGGGTCGGCTTACCCTGTAGCACAGACAGGGACTCCTGCTGCCCTGGGAGCTGTCT
CAAGCAAAATCTCTTGTCCCAGAGGTGCCCATGTGGGTCCGCTGTGTCCCCTGTCATCATCCTTGTTTTTCTCA
TTTTGGCCAAGGGCAGGCTCCCTGGGACAGGCAGGGAACAAC TCGGAGATATTAGTGATT CATAGGTTTGTACA
GTGTTTTATACTTTGCAAAGCACTTTATTAGCTCACACCTGTCCACTCACATGAAACTCGTGTTAGGCCCTGGGA
GGCCGACGGTAAC TCTCACCGTGCCCTCAGATGAAGCACAGAGAGGTTGTTACTTGCCCGGGCCATCCAGTGGGC
TGGCTGGGTCTTGTGTCCCCATCTGTGGACCCCTCTAGGGTCTGAGATGAGATGAGAAGTGTCTCCTGTATCCAC
CTCTTCCTGGCCTCCCTTCCCCCACTTCCTGGTCCCTGTCCACTCCTCAGGTTGGTGCTCTCACTTCTTGAAAGC
TCTAGGCACCCCGCCTCCCGCCAGGCTCCCCATTGGCTCCTGGCAGGCCAGCTGAGAATGAACAGGAGATGGAG
GCAGGCTGGGGTGTAGACTGCGAAGGCGGCCCTGCCGGGACTTCTTTCCAGTCCCCGGCGACCTCTTCGAATTCT
CTGCTATCTCTGGGGAGCCTCGGGTGGGAGGGGGTGTAAAGAGACGCAGGGACGTGGGGAGAGGAGACAAGGCAGG
CAAGAACCACAGGGGACGGCGGACAGACGGGCGACATCCTGCGGAGGACGCCGTCAGTACCAGGAAGTGCAGGCG
ATGAGGAAGCGCACGTCGTCCAGCGGCCCCACGGGCTGGGCTCGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGG
GGCTGGGGCGGATGCCGGGGCTGTTCCGGGCCCTCCGGCGCCGCAGGCTGGGGCTGGGGCTGGGGCTGGGTTTGC
GCAGGCTCCGGGGCGCCGCGGCCG

5191/5332
FIGURE 4502

GGTGGTGGCGTCACGGCGCCAGCTCCTCCCGACGCCGAGACCATGGGGGCTCAGCTAAGCGGGCGGCCGGCGCC
CCGGAGCCTGCGCAAACCCAGCCCCAGCCCCAGCCCCAGCCTGCGGGCGCCGGAGGGCCCCGAACAGCCCCGGCAT
CCGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCGTGGGGGCGCTGGACGACGTG
CGTTCCCTCATCGCCTGCACTTCCTGGTACTGACGGCGTCCTCCGCAGGATGTCGCCCCGTCTGTCCGCGTCCCC
TGTGGTTCTTGCCTGCCTTGTCTCCTCTCCCCACGTCCCTGCGTCTCTTACACCCCCCTCCACCCGAGGCTCCCC
AGAGATAGCAGAGAATTCGAAGAGGTCGCCCGGGGACTGGAAAGAAGTCCCGGCAGGGCCGCCTTCGCAGTCTACA
CCCCAGCCTGCTTCCCAGCCTACACCCAGACCCAGCTCAGACCTTCGTGACCACCCCATCCCTTTCTCCGGCTGG
CTGGGTCGGGGGCATCCCTCTCTGTGCGCTGGCTTCCAGAGGCAGGACAGGCCTCCTGGTCATGTCCCAGGTCATG
GAGAAGCCCGTGCCACAGTGACCCTCCCCATACTCCTGGGGGGGCTGCTCTCCATCCTGGATCGTAAGGAGGCAT
CATCAGGCTGTGTTCCCTGGAACCCCAATAACCCTGGGCCCCCAGGGCCAGCCTGTTGTAGAGGGAGGCTATCTGA
CCGCCGGTCTGGCAGAGGAGATGGGTGGGCAGCTCCCAGACACCCCAAAGGACCCGGTCTCTTCCCAGAGCGTC
CTAAGGTTACTCTTGGAACCTGATCTTTGTTCCCTCATCCCAGGGAAATGACACACTCTGTATTTCTGTTTTATT
TAGAAATGATTTAAAAAACATTATACAAAGGCTGATCAGTTTAAATGTGACTGACACTGAAATGCTGTGATGTC
CCCCAGGCTGAGGGGAAGCTAGGCTCTGGGGCCCCCAGTGCTTTGCCCCTCTGTCTGCCCTGTCTGGGGTGATG
GACAAACAGATGACCACAGGCAGGAGAATCTGAGATTGGAAGCCTCTAGGCTGAGCCCTCTGGGCCTGGCCCCAC
ATCCCTCACCTCTGCAGCCTGGGCTGCCTGCCTCCATCTCCTGTTTATTCTCAGCTGGCCTGCCAGGAGCCAATG
GGGAGCCTGGCGGGAGGCGGGGTGCCTAGAGCTTTCAAGAAGTGAGAGCACCAACCTGAGGAGTGACAGGGAC
CAGGAAGTGGGGGAAGGGAGGCCAGGAAGAGGTGGATACAGGAGACACTTCTCATCTCATCTCAGACCCTAGAGG
GGTCCACAGATGGGGACACAAGACCCAGCCAGCCCACTGGATGGCCCGGGCAAGTAACAACCTCTCTGTGCTTCA
TCTGAGGGCACGGTGAGAGTTACCGTCGGCCTCCCAGGGCCTAACACGAGTTTTCATGTGAGTGGACAGGTGTGAG
CTAATAAAGTGCTTTGCAAAGTAT

5192/5332
FIGURE 4503

ACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCAACACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGCTTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCAATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCCTCCGG

5193/5332
FIGURE 4504

AGGAACCAGACTAGCATTCTCAGTGGGTTCAGTATGCAGCCGATTGATACCTGTGTCTCCTACCCAAGGACAG
GGGGACAGGGCTCTGTCTCGCACTTCCCAGTGGCCCCAGATGAGCCAGTCCCGAGCATGTGGTGGATCAGAACAG
ATTCTTGGAATAGACATACAGCTGAATAGGAAGTATCACACCACACGTAAGCTTTCTACTACCAAAGATTCCCCA
CAGCCTGTTGAGGAGAAGGTTGGTGCTTTCACAAAGATAATAGAAGCCATGGGATTACGGGACCTTTGAAATAC
AGTAAATGGAAGATTAAAGATTGCGGCCCTGCGCATGTATACTAGCTGTGTGGAGAAAAGTACTTCGAGGAATTC
TTTCTAAGGTGTCAGATGCCTGATACATTCAATTCATGGTTTCTTATAACCCTACTCCACGTCTGGATGTGTCTA
GTCCGAATGAAGCAGGAAGGCCGAGTGGGAAGTACATGTGTCTGATCATAGTTTCATTTTATGTGGGAGGATGTT
CAGCAGCGCGGCAGAGTCATGGGGGTTAATCCCTATATCCTGAAGAAGAACATGATCCTCATGACAAATCATTTT
TATGCAGCGATCTTGGGATATGATGAGGGGATCCTTTCAGATGATCATGGGCTGGCCGCTGCCCTCTGGAGAACC
TTCTTCAACCGGAAATGTGAAGACCCTCGACATCTTGAATTGCTGGTAGAGTATGTGAGGAAACAGATACAGTAC
CTGGACTCCATGAACGGGGAGGATCTGCTTCTGACAGGGGAGGTGAGCTGGCGCCCTCTAGTGGAGAAGAATCCT
CAGAGCATCCTGAAGCCCCATTCTCCGACTTACAACGACGAGGGACTTGTGATGGGCTGGGCCCTCCGCACGGCCC
GCCAGCTGGCTTCGAGGAACCTCCAGGAGAGAAGTGCCTGTTGGTCCAGGACCCTGCAGAAAGTGGCCTGAAGT
ACCTCTGAACAGCATCTGTCAAATACCTGGCCCCATTTGTGTTGAGTTTCTCTTAGTGTGCCCAGGAGTCTGAT
CTGCTGGGGTACAGGGCTGGGAGAACCCCTAGCTCTCCCGGGGTGTCCTCTCCCTTAGGGGAAGCCCCGAGTGAG
AGTCCCCCAGCACACACTCCCCAACCCCTCCAGCAACTACATGTGACTGATAGCTTTTCCCAAAGGCCAAGGAA
GGGATGGTGTAGGTTCAAAGGGAAACCCCCAGGGCCTGCTGTGGCCTAGGAGCAGATTGTAATGCTGCCGAGT
CCGGTCGGTGACCACGCGTTGTCCCTCGGCTTTCAGCCATGGGGTTGAGTTGGCCATTAAAAGAAACAGAGACTT
CTCTCTGCCATGGCCCTTCTTTATTCCAGGGACTTAGAACTTGCCCTGAGATGGTGGACGCAGTAATGAGGGCAC
CGCGCAGCTCAGTTAGAGACGGAGAAAGGGAAGAGGCTGGGATGGTCTCTGCTGCTCTTGCTCTAGTTCATGGA
GATGTGTCTCTGTTTCAGGCCAAGATACAGCCAGCCAGGCCTGTGCTCTGGGACCCAGGAGGCCTCTGATGACCAA
GGGCTTTCACATCCTAAGTCATTTGGAAGGAGGCCTTGAGAACAAAGTCACCTTTGTCACTCCCAGTGAAGTGA
TGAGGAACATGCTGTCTCCTGTCTTGGCCTCCCCCTTTCATGAGATACTGGGGAGAAGAGAACATTCCCTCCTGGCT
TAGTTGTAGCAGACCCAGACCTGTGCCCAGCTTTGGTCCCCCTTCCCAACTTCTGAAGCACGTGCTGCAGAGCCA
CCTTGGTCTGAGCACCTGAGGACCAGCCCCCTCCTCCCTCAGTGCGGGTCATCTCTTGGGGGATTTTCTTAAAGTG
AAGAAAGGGGGTGGGGAACCATATTGCCCTCCCTCCCCCATCAAACCTTCCTTCAATTAAGTGTCTATAAAATGA
GTCATATAAAGAACTCTATATGGGTGAGGTATATCCCACTTCTGTGAAAACATTACAAATCAAACCGCTTCTCT
CAGTTTATTTAAGATGCTTTTGTGCGAGCGGAGCTCTAGAGTGAAGCCTCCTGTGTGTGTGTGAGATAATAACA
CCTTGTAATCATTACAGCTGGGCACTATTTACATAAACAGAGCTGAGCCAGGCAGGAATTTGCTGATTAATTT
ATTTTAAATGGAGTGAAGTATACCATGCACCAAAATAAACTTTACTGTGTGTACCTAACTGCTCCTGG

5195/5332
FIGURE 4505B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCCCAGA
GGCTGGTGGAGCAGGAGGTTTACAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTTCAGAAGGAGCTGGAGA
GAGAGAAAGCCAGCCTGACTCTGTCTACTGATGGAAAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGAGAGCAGCAGCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGAGAGCAGGCCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAAGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGCAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCAGGTGGAACACCTGCAAGCAGCTGTCGTAGAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAAGTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAAGTGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTTCAGGAGCTAGAGAAGTGTAGGTCTGTTTATAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGCTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGAGTCCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT
TGTTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAAGATGGAGTGCCAGCAAAAAGTATCA
AGGAGCTGGAGGGCCAGAGGGAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCGTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTCAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCAGCGAG
AGCAGGAAATAGTGGTCTGTCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCATA
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGCAGTGCTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCAGTCTC
CCCGGCATCAGGAGGAGGCTGCCCCGGGCCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGCAAGGCTCATGCTGCCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCTG
AAGCCTCCCTGGATGCTGCCAGGCACACAGTCGGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCCTTCATCAGAGTGTAAGGGAGCTACAGCTGA
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCCAATGGAGGAACAATCTCTAAACTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGGAGAAGGCCAGGACTTGG

5196/5332
FIGURE 4505C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGTCAGCAGTCTGCAGGAGGTAGCCATGTTCTTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTCACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCCAGGCCC
CTGAGGCCACTGTCTTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCTTGCTACACCCCAGCCCCAGCACTACCCAAGCCGCTCCAGGTACCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTCATGGGTGATGGCCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CAGGAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCAACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCAGGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTC

5197/5332
FIGURE 4506

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGGCCACCGTGACCATTGTCAGTGGCCTTCTCATGCTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAAACTTCCACTTT
GCCCCTGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGACAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCAGTGCGCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCTCTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTACCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTGAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGT

5198/5332
FIGURE 4507

ATCAAGGCCCTGGGCTGGAGGAAGACATCCAGATCCAGAGGAGCTCGACTGGGGGTCCAAGTACTATGCGTCGC
TGCAGGAGCTCCAGGGGCAGCACAACTTTGATGAAGATGAAATGGATGATCCTGGAGATTAGATGGGGTCAACC
TCATTTCTATGGTTGGGGAGATCCAAGACCAGGGTGAGGCTGAAGTCAAAGGCACTGTGTCCCCAAAAAAGCAG
TTGCCACCCTGAAGATCTACAACAGGTCCCTGAAGGAAGAATTTAACCACTTTGAAGACTGGCTGAATGTGTTTC
CTCTGTACCGAGGGCAAGGGGGCCAGGATGGAGGTGGAGAAGAGGAAGGATCTGGACACCTTGTGGGCAAGTTCA
AGGGCTCCTTCCTCATTTACCTGAATCAGAGGCAGTGTGTTCTCTGAGCCCCAGATCTCCCGGGGGATCCCAC
AGAACCGGCCATCAAGCTCCTGGTCAGAGTGTATGTTGTAAAGGCTACCAACCTGGCTCCTGCAGACCCCAATG
GCAAAGCAGACCTTACGTGGTGGTGAGCGCTGGCCGGGAGCGGCAGGACACCAAGGAACGCTACATCCCCAAGC
AGCTCAACCCCATCTTTGGAGAGATCCTGGAGCTAAGCATCTCTCTCCAGCTGAGACGGAGCTGACGGTCGCCG
TATTTGATCATGACCTCGTGGGTTCTGACGACCTCATCGGGGAGACCCACATTGATCTGGAAAACCGATTCTATA
GCCACCACAGAGCAAATCTGGGCTGGCCTCCAGTATGAAGTGTGGGTCCAGCAGGGCCCACAGGAGCCATTCT
GAGTTTTCTGGCCAAACACATTCAAGCTCACATTCCCTTTTGTGTCTCCAGATCCTATGATTTTCATGGAAGGGGAC
CCTCCACCCACCGCCACTGCCAACCAAGACATAGCTCAGTGGTCAAGACTTGGGCTTGGGAGTCGGGATCCTGT
AACGAATGTCACTTGACCGCTTTCTTTTTTATGAAACAGTCTCGCTCTGTCTCCAGGTTGGAGTGCAGTGGCA
CGATCTCGGCTGACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGA
TTACAGGCGTGGGCCCCCATGTCCAGCTAATTTTTATATTTTCGCTCTGTCTCCAGGTTGGAGTGCAGTGGCAC
GATCTCGGCTGACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGAT
TACAGGCGTGGGCCCCCATGTCCAGCTAATTTTTATATTTTAGTAGAGACAGGGTTTACCATGTTGTCCAGGC
TGGTCTTGAACCCCTGACCTCAAGTGATCCACCCACCTCTGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCA
CCATGCCAGGCCCTCTTAACCTCTTCAAGTCTGTTTTCTCATCTGCAAAACAGAGGTAATAAGATCAGTATCTTC
TTAATGGAAGCACCTGGACTACATTTTTTTCATTATTGTTATCATAAATGAGGACTAACCTGTCTCCCGTTGGG
AGTTTTGAACCTAGACCTCATGTCTTCATGACGTCATCACTGCCCCAGGCCAGCTGTGTCCCTACACCAGCCCC
AGCTGACGCATCTTCTTTTTCTGCCTGTAGAGATGGTTACAATGCCTGGCGTGATGCATTCTGGCCTTCGCAGAT
CCTGGCGGGGCTGTGCCAACGCTGTGGCCTCCCTGCCCCCTGAATACCGAGCCGGTGCTGTCAAGGTGGGCAGCAA
AGTCTTCTGACACCACCGGAGACCTGCCCCCAGGGATCTCTTCACATGTGGATTGACATCTTCTCTCAAGATG
TGCCTGTCTCCACCCCAAGTTGACATCAAGCCTCGGCAGCCAATCAGCTATGAGCTCAGAGTTGTATCTGGAACA
CGGAGGATGTGGTTCTGGATGACGAGAATCCACTCACCGGAGAGATGTGAGTGACATCTATGTGAAGAGCTGGG
TGAAGGGGTTGGAGCATGACAAGCAGGAGACAGACGTTCACTTCAACTCCCTGACTGGGGAGGGGAACCTCAATT
GGCGCTTTGTGTTCCGCTTTGACTACCTGCCCACGGAGCGGGAGGTGAGCGTCTGGCGCAGGTCTGGACCCTTTG
CCCTGGAGGAGGCGGAGTTCCGGCAGCCTGCAGTGCTGGTCTGCAGGTCTGGGACTATGACCGCATCTCTGCCA
ATGACTTCTTTGGATCCCTGGAGTTGCAGCTACCAGACATGGTGCCTGGGGCCCGGGGGCCCCGAGCTCTGCTCTG
TGCAGCTGGCCCGCAATGGGGCCGGGCCGAGGTGCAATCTGTTTCGCTGCGCGCCGCTGAGGGGCTGGTGGCCGG
TAGTGAAGCTGAAGGAGGCAGAGGACGTGGAGCGGGAGGCGCAGGAGGCTCAGGCTGGCAAGAAGAAGCGAAAGC
AGAGGAGGAGGAAGGGCCGGCCAGAGACCTGGAGTTCACAGACATGGGTGGCAATGTGTACATCCTCACGGGCA
AGGTGGAGGCAGAGTTTGAAGTGTGACTGTGGAGGAGGCGGAGAAACGGCCAGTGGGGAAGGGGCGGAAGCAGC
CAGAGCCTCTGGAGAAACCCAGCCGCCCCAAACTTCTTCAACTGGTTTGTGAACCCGCTGAAGACCTTTGTCT
TCTTCTACACCATCCCTGGCCAGATCAGCCAGGTCTCTCCGTCCCTCCACAAGTGAAGTCTGCTGACCTTGG
ACACTCACCCAGGGTGCCAACCTTCAATGCCTGCTCCTGGAAGTCTTTCTTACCATGTGAGCTACCCAGAGT
CTAGTGCTTCTCTGAATAAACCTATCACAGCC

5199/5332
FIGURE 4508

CAAATATTCCATTAGCATTACAAAGATGGATGTTCTTCAGTTCCCTAGAAGGAATCCCAGTGGATGAAAATGCTG
TACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATGATGCAC
ATGGCCCACTGCGTGACCTTGGTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGCTCCAAG
TCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAACGGGTG
CGGAAGTGTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAGCTACGC
TTTGGAACTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCCTAGGGGGTGTGAGTGTTC
CTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGGCGGGG
ACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAACCTAGAT
AAGAAGGACTTCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCACCTGGTG
TACAGATCTGAGGTCACTAAGAACAACCTGAACCCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCATTCTGT
GGTGGGAACCCAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTCATCGGT
ACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAGCAGCAG
AAAAAGAAAAGCTACAAGAACTCTGGAATATCCGTGTCAAGATTTGTCGGGTAGAAACAGAGTACTCCTTTCTG
GACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGACCCCTCC
TCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTGGGCAGC
GTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGTTCCCCCTGACTGGCAG
GTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTGGATGCC
TACCGCCAAGCCCTGCCCCAAGTTCGCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTGGCCAGG
TTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGTGTGTG
ACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTGCAACCTGCCCATGTCAGTGATCATTGTGGGTGTG
GGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTTCTGGGCAGGCT
GCTGCCCCGACATTGTGCAGTTTGTACCCTACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCACAGACC
GTGCTCGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCAGGGTTGGGCCCCGCTCAAGCCACTTCCA
CCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCCCTCAATCCTGT
GTCCCAGAGGTCCCTCTGGGCCACAACCAACCCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTTTTGATA
CTTTTATACTTGTTTCTGCTTTTGTGCTCTTGATCCCACCTTTGCTCCTGACAACCCCTCATTCAATAAAGACCA
GTGAAGACC

5200/5332
FIGURE 4509A

GCTTCCTTTGGGAGCCCCAACGTTTAGCTCAACTGTTCCAAGCACAGCCTCTCCAATGAACACAGTCCCCGCCGCCA
CCAATTCCTCCAATTCAGCGATGCCATCTCTGTGCCACCCATGACCCCACTGCCACCCATGTCCGGCATGCCGC
CCTTGAATCCGCCACCTGTGGCACCTCTACCTGCTGGAATGAATGGCTCTGGAGCACCTATGAATTTGAACAATA
ATCTGAATCCTATGTTTTCTTGGTCCGTGAATCCTGTTAACCCCTATCCAGATGAACCTCAGAGCAGTGTGAAGC
CACTCCCCATCAACCCTGATGATCTGTATGTCAGTGTGCATGGAATGCCCTTTCTGCAATGGAAAATGATGTCA
GAGATTTTTTTCATGGGCTCCGTGTTGATGCAGTGCATTTGTTGAAAGATCATGTAGGTCGAAATAATGGGAATG
GATTGGTTAAGTTTCTCTCCCCTCAAGATACATTTGAAGCTTTGAAACGAAACAGAATGCTGATGATTCAACGCT
ATGTGGAAGTTAGCCCTGCCACAGAAAGACAGTGGGTAGCTGCTGGAGGCCATATCACTTTTAAGCAAAATATGG
GACCTTCTGGACAAACTCATCCCCCTCCTCAGACACTTCCCAGGTCAAAATCGCCCAGTGGGCAGAAAAGATCAA
GGTCAAGATCACCACATGAGGCTGGTTTTTGTGTTTACTTGAAAGGGCTACCATTGAGCAGAAAAACAACATG
TCATTGATTTTTTAAAAAGCTGGATATTGTGGAAGATAGTATTTATATAGCTTATGGACCCAATGGGAAAGCAA
CTGGCGAAGGCTTTGTAGAGTTCAGAAATGAGGCTGACTATAAGGCTGCTCTGTGTCGCATAAACAGTACATGG
GCAATCGCTTTATTCAAGTTTATCCAATTACTAAGAAAGGTATGCTAGAAAAGATAGATATGATTCGAAAAAGAC
TGCAGAACTTCAGCTATGACCAGAGGGAATGATACTAAATCCAGAGGGGGATGTCAACTCTGCCAAAGTCTGTG
CCCACATAACAAATATTCCATTACGATTACAAAGATGGATGTTCTTCAGTTCCTAGAAGGAATCCCAGTGGATG
AAAATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAG
ATGATGCACGTAAGTCTGAACGCTTACACCGTAAAAAACTTAATGGGAGAGAAGCTTTTGTTCATGTAGTTACCC
TAGAAGATATGAGAGAGATTGAGAAAAATCCCCCTGCCCAAGGAAAAAAGGGATTAAAGATGCCTGTGCCAGGTA
ATCCTGCAGTTCAGGAATGCCCAATGCGGGACTGCCCGGTGTGGGACTGCCAGTGCAGGACTTCCCGGTGCAG
GCCTGCCCAGCACAGGACTGCCTGGTTCAGCAATAACCAGTGCAGGACTGCCTGGTGCGGGAATGCCAGTGCAG
GAATACCTAGTGCAGGAGGTGAAGAGCATGCCTTCTGACTGTAGGATCAAAGGAAGCCAATAATGGGCCTCCAT
TTAACTTTCTGGTAATTTTGGTGGATCAAATGCCTTTGGGCCACCAATCCCTCCTCCAGGATTAGGAGGCGGGG
CCTTTGGTGATGCTAGGCCTGGTATGCCTTCAGTTGGAACAGTGGTTTGCCTGGTCTAGGACTGGATGTTCCGG
GTTTTGGAGGTGGACCAACAATTTAAGTGGGCCATCGGGATTTGGAGGGGGCCCTCAGAAATTTGGAAATGGCC
CTGGTAGCTTAGGCGGTCCCCCGGGTTTGAAGTGGCCCTCCTGGTCTTGAAGTGGCCCTGGGCATTTGGGTG
GGCCACCAGCTTTTGGGCCTGGCCCCGGCCCCGGCCCCGGCCCTGGCCCAATCCATATTGGTGGTCCCCCTGGCT
TTGCATCTAGTTCTGAAAACAGGACCGACAGTAATTAAGTGAACACATGCCCTTTACTGTGTCTATTGATG
AGATTTTAGATTTCTTTTATGGCTATCAAGTAATCCCAGGCTCAGTGTGTTTAAATACAAATGAAAAAGGTATGC
CCACAGGTGAAGCCATGGTGGCCTTTGAGTCTCGGGATGAAGCCACAGCTGCTGTCAATTGACTTAAATGACAGGC
CTATAGGTTCAAGAAAAGTAAACCTTGATTAGGGTACCCATTACATCATTTTTTATAGGGTAGATCTTCATAT
TGCTGTGATTAATGCATCCAGATTGTTTTCTAGTATTTCCAGGTTAGAACCTGTGGATTGTTCAATTGCATAT
AGCTTGGTTTCCATAACATAGAGCATTGGTTGACTGTTTACAGAAGACTCACTCACCAGGATAAACATTGCTGTA
TGTTACAGTAAAGCTATCTGGAGAGAACACATAAATGATTTTGGCATAACCATTAGAGAAACCATTGTAAAACTC
AAATGACCACATAAAGCTTATCAAGGAGTCTAGATTGGTTTTGTTTTATACCATATGGGATGAAGAAAAATAGAAA
TGTCAGTAGAACTCATTGAGGGTGCTCTTGCCAGCTGCTGAAAATAGAAGTTGGCTACTCTCAGAATTTGGTTTA
AAGCTGGACAGATTTGCTTTGTTATAGGGTAAAGCTTTGTCTAAAGTCTCATTCTTTTAAAAATTGAATAAAA
TTTCTGTATACAGATTCATTGTATGTACCTTTATTGCTTCTTAAGGGTCTTGTCTGTATAGACAGTCTGCTTCA
GAAGTTGCTGCTTTGTTTGTCTAATTGACTCATTGTAAATGAGCAGAACTGTTTGTGGTTTTTTTCCCTAAA
TATAAAAGTCCACACTTCGTTTGTGCTATAACCTCAAACCTTGATTTCTAATGTCACACTTAAACTGTGTGGAA
TAAGACTTTTGCCATAAAAAATAAACTATGGAGTCTTTATCTACCAGAGCCTTTTGGTTTGACCGCCACGATTT
AGGTTAGTCAGTTTAAAAATTGTTTATGTTGTTTGGATGGTATCGAAAACAGAAACCACTTTTAAATAATGTGT
TAAGATACTTGATTGAAGTCTTTTTCATATGGACTAATGTAGTATCAATTTCTCCTGTCCCGATTATGTGAA
TTATCTTTGTAGCAGTAGTAGTATAGAATAAAAGATCCGTATGCTGGTTCGTAGATTGATACGTGTAGTCTCTG
TTATTTGGAGGCTTTTGGCATAGTTGTTTCGATCAGGAGCCTGTTTACTAAAGTCTTCATACAGAGTACAAGTG
CAGCGCCAGAGGAGAAAAATTGAGATTCTTGACCCTTTCATCTCTTTTCTTTGGTATTTCAGGACACTAAGGCAG
GAGGACCACATGAGTTCTGGTTGGTAAGTGTCTTGTCTGAAAACACTTGCCTTACAAGGCTCTAATTATGATT
TCCCTAGTCAGTGTCTGAAGATGTGTACATTATATTATAAAACAATACGGAAGGGGAGATAGGTGAGATGATAT

5201/5332
FIGURE 4509B

GAAAAACAAATTTTCTCACTGTCATAAAAGGCTCTAATTATGGTTACTTTCCTTGTGATGAAAAACTTGGCCTTA
CAGGGCTCTAGTTATGGTTACTTTCCTAGTCAATGCTCTGAAAATGTGTCACATTATAACAATACAGAAGGAG
AGATAGATGAGAGATCATGAAAACCAAATTTTATCTTTTACATGGCCCCCTTGTCTTCGTTTGAAACATCCCCAA
CATTTCTACAAATCAGCGTAGTTACAAAGGGGTCAGTCTTTTAAAATAAGTATTCCTATTAACTATATATAT
ATACAGTGCCTTTTTGGTGTGTGAGTCAGTGGAACACTGAAATACAGCGGTTGTGTAATTTAAGAGTGGCAACA
GTTTCATTTGATAAGATTGAAAAGGCTTTTTATCACTACAATCTTAGAGGATTGACAGTACAGGATTTTGT
AAGAGAAGGATTGTTTAGACTCAAGAGGTGACTATGTTGTGGGTCTTTTGATAATTCATGAATACAGATTGCTT
TGACCGATCACTAGATACTGCCTCCTCAATTTCAAAAGCAATATAACGTTTGTATATGCTGTTTAATTTAAGTTA
ATGTTAAGTAATCATTTCTCATTTCCAAAGACAATGCAAAAACTTCAGCACTGCTTGAGAGTTGTATTTAGCCA
CAGATATTTTCTCCATTGGAAAGCTATTTTCATTTTAGAAAAATGGGTTGTTGAAGATGAAAGTCTTTTATCTT
TTTTCACAATTTATTTTGGTTATATGTTTCGTACATTCTTATTAAATATTTTATACACTTTATTGCAACTACTTTG
TTATTTCTACATCTTAGATAAATGCTGAAAAGGAAAACGATTTTATTGTTTCATCTAATTAAATAAATTTAAAGAG
CGGTTTGTGTAGAAATTGGAGAGAACTATGTTTTATATGAATCACAACAGTGCTCGTTGTGGACTGTAATTAAT
GCTTTGCCCTCTGGAACCTTG

5202/5332
FIGURE 4510

GAGCCTGGGGCCCAGGACTGCAGCGGCTTCGGAAGGTGGGCTCTGCCAGCGGGACCATGCTGCTCCGAGCCGCTT
GGAGGCGGGCGGCAGTGGCGGTGACAGCGGCTCCAGGGCCGAAGCCCGCGGCGCCCACTCGGGGGCTGCGCCTGC
GCGTTGGAGACCGTGCTCCTCAGTCTGCGGTTCCCGCAGATACAGCCGCTGCCCGGAGGTGGGGCCAGTGCTGC
GACCTCTCTATATGGATGTGCAAGCTACAACCTCTTGACCCCCGGGTGCTTGATGCCATGCTCCCTTACCTAA
TCAACTACTATGGGAACCCACACTCCCGGACACATGCTTATGGCTGGGAGAGTGAGGCAGCCATGGAACGTGCTC
GTCAGCAAGTAGCATCTCTGATTGGAGCTGATCCTCGTGAGATCATTTTTACTAGTGGTGCTACTGAATCCAACA
ACATAGCAATTAAGGGGGTGGCCCCGATTCTACAGGTCACGGAAAAAGCACTTGATCACCACCCAGACAGAACACA
AATGTGCTTGGACTCCTGCCGTTCACTGGAAGCTGAGGGCTTTCAAGTCACCTACCTCCCAGTGCAGAAGAGTG
GGATCATTGACCTAAAGGAACTAGAGGCTGCTATCCAGCCAGATACTAGCCTGGTGTCAGTCATGACTGTGAACA
ATGAGATTGGAGTGAAGCAGCCTATTGCAGAAATAGGGCGGATTTGCAGTTCAGAAAGGTATATTTCCATACTG
ATGCAGCCCAGGCTGTTGGAAAAATCCCACCTTGATGTCAATGACATGAAAATTGATCTCATGAGCATTAGTGGTC
ACAAAATCTACGGTCCCAAAGGGGTGGTGCCATCTACATCCGTCGCCGGCCCCGTGTGCGTGTGGAGGCCCTGC
AGAGTGGAGGGGGGCGAGAGCGGGGTATGCGGTCTGGGACAGTGGCCACACCCTTAGTGGTGGGGCTGGGGGCTG
CGTGTGAGGTGGCACAGCAAGAGATGGAGTATGACCACAAGCGAATCTCAAAGTTGTCAGAGCGGCTGATACAGA
ATATAATGAAGAGCCTTCCAGATGTGGTGATGAATGGGGACCCTAAGCACCATTATCCCGGCTGTATCAACCTCT
CCTTTGCATATGTGAAGGGGAAAGTCTGCTGATGGCACTGAAGGACGTTGCCTTATCCTCAGGGAGTGCCTGCA
CCTCTGCATCCCTGGAGCCCTCTTATGTGCTTAGAGCAATTGGCACTGATGAGGATTTAGCGCACTCTTCTATCA
GGTTTGGAAATTGGCCGCTTCACTACAGAGGAGGAAGTGGACTACACAGTGGAGAAATGCATTTCAGCATGTGAAGC
GTCTTCGAGAAATGAGCCCTCTCTGGGAGATGGTTTCAGGATGGCATTGACCTCAAGAGCATCAAGTGGACCCAAC
ACTAGAAAGAATAGGGCCCTGACTTTGTGCTGGTCTGGCCCCCTCCTGCCTCACCACCCGTGCACAACCAGACACC
TTGTTACACCTAGTGGATGCTCTAGATTGGTATAGACCAGTTGACTTCAGCATCAGTCCACCTCTATGACAGAAA
CACAAGAAAAGTGTCTTTCCCTAGCTTCAGTTCCTTGGGTGTGGAGCACTCCCCATTTCTTCTCGGGTCTTAAAG
TGTGTGGACATTTTCATCCCGAAGCCATAGAGACATTTGCTGTCAATTTGCTGCTGGGCACATCTGTGCTCTTGG
TGAGGAGAGCAAGAGGAACCAGAAGAAGTCTCTTTGGTCAGGGACCATGATGCTCTACATGGACATTTGAGTCTT
CGTCTTCTGCTGCTGCTCGGCTGGACCAGCTTCTTTAACAGCAAGCATAATCCACTTCAATGTAATATTTTCTGT
AGCTCCAAAGGCTATCTCTTCATATTGACTGCAGACAGACTGAATGGACAGTTTCTTAGAGGGCTTGTCTCCTTT
CTACCCCTTGCTCTTTCCCTTTGACCTAATGGAGCTAGAAATATGTCTGTGACTCCACCAGTTATTCTAA
TAATTTGTTTTCTTGAATAATTGTTAATTTCAAGACTGGAGAAATAAACTCACCTTCTATTTACTCTGTGACTTTA
TGAGAGGTTGAGGGAAAAGTGGAACTGTACTTGGGAATTGTGGAGAAGACCGCCACTCCATCTGATTTGCATAA
ATGACTCAGTGGGCTTTTGTATCTCTTCATTTAAGAATTATTTGAATGCCTGCCAGGAGCCAGATTTGTTCTGGG
TATTAGGAATACACTGGTTAACAGGACCAAAAAAGACCCTGCCCTCACTGAGTTTTAAATTTTAGTGGAGAGATG
GAAAATAATTAAACAAATAAACAAATGTTATAGATTGTG

5203/5332
FIGURE 4511

GACGCGGGGCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGCCCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCGCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAT
GGGCTTCGTGATGGGTTCGCGCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTCAT
GGCCATTGGGATGGGCATCCGATGCTAAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAGAAAGTCTTTGAGT

5204/5332
FIGURE 4512

CGGGCTGGGCGGTTCCGCGGCCTGGGGCTAGGGGCTTAACAGTAGCAACAGAAGCGGCGGGCGGCAGCAGCAG
CAGCAGCAGCAGCAATCTCTTCCCGAACACGAGCACCACAGGCGCCCGAAGGCCGAACAGGCGTTTAGAGAAAA
TGGCAGACGATATTGATATTGAAGCAATGCTTGAGGCTCCTTACAAGAAGGATGAGAACAAGTTGAGCAGTGCCA
ACGGCCATGAAGAACGTAGCAAAAAGAGGAAAAAAGCAAGAGCAGAAGTCGTAGTCATGAACGAAAGAGAAGCA
AAAGTAAGGAACGGAAGCGAAGTAGAGACAGAGAAAGGAAAAAGAGCAAAAGCCGTGAAAGAAAGCGAAGTAGAA
GCAAAGAGAGGGCAGCGGAGCCGCTCAAGAAGTCGAGATCGAAGATTTAGAGGCCGCTACAGAAGTCCTTACTCCG
GACCAAAATTTAACAGTGCCATCCGAGGAAAGATTGGGTTGCCTCATAGCATCAAATTAAGCAGACGACGTTCCC
GAAGCAAAAGTCCATTAGAAAAGACAAGAGCCCTGTGAGAGAACCTATTGATAATTTAACTCCTGAGGAAAGAG
ATGCAAGGACAGTCTTCTGTATGCAGCTGGCGGCAAGAATTCGACCAAGGGATTGGAAAGAGTTTTCTCTACAG
TAGGAAAGGTTTCGAGATGTGAGGATGATTTCTGACAGAAATTCAGACGTTCCAAAGGAATTGCTTATGTGGAGT
TCGTCGATGTTAGCTCAGTGCCCTTAGCAATAGGATTAAGTGGCCAACGAGTTTTAGGCGTGCCCAATCATAGTAC
AGGCATCACAGGCAGAAAAAACAGAGCTGCAGCAATGGCAAACAATTTACAAAAGGGAAGTGTGGACCTATGA
GGCTTTATGTGGGCTCATTACACTTCAACATAACTGAAGATATGCTTCGTGGGATCTTTGAGCCTTTTGGAAGAA
TTGAAAGTATCCAGCTGATGATGGACAGTGAACTGGTCGATCCAAGGGATATGGATTTATTACATTTTCTGACT
CAGAATGTGCCAAAAAGGCTTTGGAACAACCTTAATGGATTGAACTAGCAGGAAGACCAATGAAAGTTGGTCATG
TTACTGAACGTACTGCTTCGAGTGTCTTCAAGTTAATGGCAAGACTTGCAGAGGGTACAGGTTTGCAGATTCCGCCAGCAGCAC
AGCAAGCTCTACAGATGAGTGGCTCTTTGGCATTGGTGCTGTGGCAGATTTGCAAACAAGACTTTCCAGCAGAGA
CTGAAGCTTCAGCTTTAGCTGCAGCTGCCTCTGTTTCAGCCACTTGCAACACAATGTTTCCAACCTCTCTAACATGT
TTAACCTCCTCAACAGAAGAAGAAGTTGGATGGGATACCGAGATTAAGGATGATGTGATTGAAGAATGTAATAAAC
ATGGAGGAGTTATTATATTTATGTTGACAAAAATTCAGCTCAGGGCAATGTGTATGTGAAGTGCCCATCAATTG
CTGCAGCTATTGCTGCTGTCAATGCATTGCATGGCAGGTGGTTTGCTGGTAAAATGATAACAGCAGCATATGTAC
CTCTTCCAACCTTACCACAACCTGTTTCCCTGATTCTATGACAGCAACACAGCTACTGGTTCCAAGTAGACGATGA
GGAAGATATAGTCCCTTATGTATATAGCTTTTTTTCTTTCTTGAGAATTCATCTTGAGTTATCTTTTATTTAGAT
AAAAATAAAGAGGCAAGGATCTACTGTCAATTTGTATGCAATTTCTGTACCTTGAAAAATAAAATGTTAACA
GGAATGCAGTGTGCTCATTCTCCCTAAATAGTAAATCCCAGTGTATACAAAAGTCTCTTGTCTGCTTTTA
AAATGTTTCATGTAGAAAATTAATGAACTATAGGAATAGCTCTAGGAGAACAAATGTGCTTTCTGTAAAAAGGCAG
ACCAGGGATGTAATGTTTTTAATGTTTCAGAAGCCTAACTTTTACACAGTGGTTACATTTACATTTCACTAAT
GTTGATATTTGGCTGATGGTTGAGCAGTTTCTGAAATACACATTTAGTGTATGGAAATACAAGACAGCTAAAGGG
CTGTTTGGTTAGCATCTCATCTTGCAATCTGATCAATGGCAAGAAAGGGAGATTTCAAATTATATTTCTTGAT
GGTATCTTTTCAATTAATGTATCTGTAAAAGTTTCTTTGTAAATACTATGTGTTCTGGTGTGTCTTAAAAATCCA
AACAAAATGATCCCTGCATTTCTGAAGATGTTTAAACGTGAGAGTCTGGTAGGCAAAGCAGTCTGAGAAAGAAA
TAGGAAATGCAGAAATAGGTTTTGCTGTTGCATATAATCTTTGCTCTTTTAAAGCTCTGTGAGCTCTGAAATA
TATTTTGGGTTACTTCAGTGTGTTTGACAAGACAGCTTGATATTTCTATCAAACAATGACTTTTCATATTGCAA
CAATCTTTGTAAGAACCCTCAAATAAAAGTCTCTTAAAAAGGCC

5205/5332
FIGURE 4513

ATGAAAAGAGTCAAGAGATTCTTGAGAAGAGAGAACCAAACTCAATGAAAATATTAAAAATGCAATGCTGATT
AAAGGGGGAAATGCAAACGCAACAGTGACACAAGTACTTAAAGATGTGTGTGCACTGAAAAACCATACGGTGTA
CTGTATAAAAAGAAAAATGTTACAAGACCTTTTGAGGATCAGACATCACTGGAATTACTTTCAAAGAAGTCAGAT
TGTTCTTTATTTCATGTTTGGCTCCTATAATAAGAAGCGGCCAAATAATCTAGTAATAGGTCATATGTATGACTAC
CATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAAAGACATTAAAGAACAGTAAATGTCCT
GAGGGAACAAAACCCATGCTAATATTTGCTGGTGATGATTCAATGTAACAGAAGATTACAGAAGACTAAAAAGT
CTTCTTACTGATTTCTTCAGAGGCCCCACAGTATCAAATATCTGCCTGGCTGGATTAGAATATGTTCTGCACTTC
ACTGCACTGAATGGGAAGATTTACTTTTGAAGATATAAGTTGCTGTTGAAGAAATCTGGTTGCAGAACACCACGG
ATTGAATTGGAAGAGATAGGACCCTCATTGAATCTGGTTCTGAGGAGGACACACCTGGCATCCGATGACCTTTAT
ACATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAAAATATCTCCAATGATACTTTTGGTACA
ACTTATGGAAGGATTCATATGTAG

5206/5332
FIGURE 4514

GGAGAATAAAGGCAGCCCCGTGATGACTGAAAATGACAAAGCATCCACCTAACAGACGAGGAATCAGCTTTGAA
GTGGGAGCCAGTTGGAAGCCCGGACCGTTTAAAAAACTGGTATCCAGCTCACATAGAAGACATTGACTACGAG
GAAGGAAAAGTACTCATCCATTCAAGCGTTGGAACCATCGTTATGATGAGTGGTTCTGCTGGGACAGTCCTTAT
TTACGCCCTTTAGAGAAAATACAGCTGAGGAAAGAGGGCTTGCATGAAGAGGATGGATCTTCTGAATTTCAAATA
AATGAGCAGGTCCCTTGCTTGCTGGTCTGATTGTCGTTTTTACCCGGCCAAAGTCACTGCTGTTAACAAGGATGGT
ACTTACACTGTGAAATTTTATGATGGAGTAGTTTCACTGTCAAACATATTTCATGTCAAAGCTTTTTTCCAAAGAT
CAGAATATTGTGGGTAATGTAGGCCCTAAAGAAACAGATCACAAAAGTCTTTCATCATCTCCTGTATAACGAGAG
AAGTTTAAAGAACAGAGAAAAGCAACAGTGAATGTGAAGAAAGACAAAGAAGATAAAACCTTAAAGACAGAAAAG
CGACCCAAGCAGCCTGATAAAGAAGGAAAGTTAATCTGTTCTGAAAAGGGGAAAGTGTGAGAGAAAAGTCTTCCC
AAGAACGAGAAGGAAGACAAGGAAAAACATTTCCGAAAATGACAGAGAGTATTCTGGAGATGCCCAAGTGGATAAG
AAACCTGAAAATGACATTGTGAAGAGTCCACAAGAAAACCTTGAGGGAACCCAAAAGAAAACGAGGCAGACCCCT
TCCATAGCTCCTACTGCTGTGGATTCAAACCTCTCAAACCTTTGCAACCAATAACATTGGAACTGAGAAGAAGGAAA
ATATCAAAAGGATGTGAAGTCCCATTAAACGTCCTCGGCTTGACAAAAATTTCATCCAGGAAAAGTCAAAAAAC
TACTCGGAAAACACTGACAAAGACTTATCGAGGAGACGTTCTCCAGGCTGTCCACTAATGGGACCCATGAGATC
CTAGATCCTGACTTGGTTGTATCAGATTTGGTTGATACGGATCCTTTGCAAGACACGTTGTCTAGTACCAAGGAA
TCTGAAGAAGGTCAAGTTGAAGTCTGCTTTGGAAGCTGGCCAGGTCTCATCTGCACTGACTTGCCACTCCTTTGGG
GATGGATCCGGGGCTGCAGGCTTGAGTTGAACTGCCCATCAATGGGAGAAAAACGATGAAAACAGAACCGACT
TCTCCCTTGTGGAATTACAAGAGATTTCGACTGTGGAAGTAACAAATACTTTTAAGAAAACAGATGATTTTGGG
TCATCTAATGCACCAGCTGTGACCTAGACCATAAGTTTAGATGCAAAGTTGTGGACTGTTTAAAATTTTTCCGC
AAAGCCAACTGTTGCACTATCACATGAAGTATTTCCATGGAATGGAGAAGTCACTGGAGCCAGAAGAGAGCCCG
GGAAAGAGGCATGTCCAAACCAGGGGCCCTTCAGCTTCAGACAAGCCCAGCCAGGAGACCTTGACCAGGAAGCGG
GTCTCTGCCAGTTCCCAACTACAAAAGACAAGGAAAAGAATAAAGAGAAGAAATTCAGGAGTTTGTGAGAGTG
AAGCCAAAGAAGAAAAGAAAAGAAAAGAAAACCAACCTGAATGCCCTGCAGTGAGGAGATCAGTGACACC
TCCAGGAACCTTCTCCACCAAGGCATTTGCTGTTACCAGGTGTGGGTCTCACACAAGCCAGGGGTCCATAIG
AGCCCGCAGCTTCATGGCCAGAATCTGGACACCACAAAGGGAAAGTGAAAGCATTGGAGGAGGATAATTTGAGT
GAGTCCTCTTCTGAGAGCTTCTCTGGAGTGATGATGAGTATGGCCAAGATGTGGATGTGACCACCAACCCAGAT
GAGGAACCTTGATGGGGATGACCCTATGACTTCGAGGTGGTCCGCTGCATCTGTGAGGTCCAGGAGGAAAATGAC
TTQATGATTCAAGTGTGAAGAGTGCCAGTGCTGGCAGCATGGGGTCTGCATGGGATTACTGGAAGAAAATGTGCC
GAGAAATACACCTGTTATGTTTGCCAAGACCTCCAGGTGAGAGGCTGGCTTCAAGTACTGGTATGACAAGGAG
TGGCTGAGCAGGGGACATATGCATGGCCTGGCATTCTAGAAAGAACTACTCCCATCAGAATGCCAAGAAGATC
GTGGCCACCCACCAGCTTCTTGGTGATGTGCAGAGAGTGATTGAGGTTCTGCATGGCCTGCAGCTCAAGATGAGC
ATCTTGCAAAGCCGGGAGCATCCTGATCTGCCGCTGTGGTGCCAGCCTTGGAACAGCACTCAGGGGAGGGGAGA
TCTCATTTAGAAAACATCCCTGCTACTGACACCAGGAGCAAGGAGGAAGCTCCAAGCTATAGAACTTTGAACGGG
GCAGTGGAGAAGCCCAGGCCCTTGCCCTGCCCTGCCGCTTCTGTGGAGGAATCCTATATCACCAGTGAGCAT
TGCTACCAGAAGCCCCGCGCTATTACCCTGCCGTGGAGCAGAAGCTGGTGGTGGAGACGAGGGGCTCTGCCCTC
GACGATGCGGTCAACCCCTCCATGAGAACGGCGATGATTCCCTTTCCCGCGCTGGGCTGGCCTCTAGACCAA
GACAGGAGCAAGGGGGACAGTGACCCCAAACCCGGCTCCCCAAAGGTGAAGGAATATGTCTCCAAAAGGCCCTA
CCAGAAGAAGCCCTGCTCGGAAGCTGCTGGACAGAGGTGGAGAGGGGCTGCTGAGCTCCAGCACCAGTGGCAG
TTTAACCTGCTGACCATGTGGAATCTCTTCAGGATGAAGTTACGCACAGGATGGACTCCATTGAGAAGGAGTTG
GATGTGTTGGAGAGCTGGCTGGACTACACTGGGGAACCTGGAGCCCCCTGAGCCGCTGGCCAGGCTTCCGCAGCTC
AAGCATTGTATCAAGCAGCTGCTGATGGACCTGGGCAAGGTGCAGCAGATCGCCCTCTGCTGCTCAACATGAAAC
TGGGCACCCAAAACCTCATGGGGGCACAATCCTGGGGCACCTGCAGGAGGAGCTTCGCAT

5207/5332
FIGURE 4515

GGACGCAGAGAAGCCAGAGACTTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCGGAAACGTCTCCCTGCTC
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGGCGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCCTACCGCCTGCCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCCTCCGCGGCCCTGGAGCTGCCTCTC
GGGCCCCGACCCGTGAGCGTAGCGCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCCGAGGCGGCTCGGGCCCCGCGGATCCGCCGCCGCACGGATGTGCGC
ATCACTGGCTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCC

5208/5332
FIGURE 4516A

CATCAGCGGGCGGGGGTGTGCGCCGAACAGGCTGCTCCGCAGAGCCCGCGCGACCCCGCGCCGCCCGCCCCGCG
GCCTGCCTGCCAGAGGAGCCGAGGGGGCGCCCCCTCGCCCAACCTGCCCGACATGGGGAACCCCGGGCCAGGCG
TGCTGGTCACCATGACAACAGAGACAGGCCCCGACTCTGAGGTGAAGAAAGCTCAGGAGGAGGCCCCGCGAGCAGC
CCGAGGCTGCTGCCGCTGTGACCACCCCTGTGACCCTGCAGGCCACGGCCACCCAGAGGCCAACTCCAATGAGA
AGCATCCATCCCAGCAGGACACGCGGCCTGCTGAACAGAGCCTAGACATGGAGGAGAAGGACTACAGTGAGGCCG
ATGGCCTTTTCGGAGAGGACCACGCCCAGCAAGGCCAGAAATCGCCCCAGAAGATTGCCAAGAAATACAAGAGTG
CCATCTGCCGGTCACTCTGCTTGATGCCTCGGAGTATGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGC
TGTTTGACCTGGTCTGTGAACACCTCAACCTCCTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACA
GCCAGAAGAACTGGCTGGACCCCTCCAAGGAGATCAAGAAGCAGATCCGGAGTAGCCCCCTGGAATTTTGCCTTCA
CAGTCAAGTTCTACCCGCTGATCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGCAGCTGC
GGGCAGACATCATCAGGGCCGGCTGCCATGCTCCTTTGTCACGCATGCCCTACTGGGCTCCTACGCTGTGCAGG
CTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGGGCAACTATGTCAGCGAGCTCCGCTTCGCCCTAACCAGA
CCCGGGAGCTGGAGGAGAGGATCATGGAGCTGCATAAGACATATAGGGGGATGACCCCGGGAGAAGCAGAAATCC
ACTTCTTAGAGAATGCCAAGAAGCTTTCCATGTACGGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCATCG
ACATCATGTTAGGCGTTTGTGCCAATGGCCTGCTCATCTACCGGGACCGGCTGAGAATCAACCGCTTTGCCTGGC
CCAAGATCCTCAAGATCTCCTACAAGAGGAGTAACTTCTATATCAAGATCCGGCCTGGGGAGTATGAGCAATTTG
AGAGCACAATTGGCTTTAAGCTCCCAAACACCGGTCAGCCAAGAGACTGTGGAAGGTCTGCATCGAGCATCATA
CATTTCTCCGGCTGGTGTCCCCTGAGCCCCCACCACAGGGCTTCCTGGTGATGGGCTCCAAGTTCCGGTACAGTG
GGAGGACCCAGGCACAGACTCGCCAGGCCAGCGCCCTCATTGACCGGCTGCACCCTTCTTTGAGCGTTCTTCCA
GCAAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCAGCCTCGGTGAGCGAGAACCATG
ATGCAGGGCTGACGGTGACAAGCGGGATGAGGATGGCGAGTCTGGGGGGCAACGGTCAGAGGCTGAGGAGGGAG
AGGTGAGGACTCCAACCAAGATCAAGGAGCTAAAGCCGGAGCAGGAAACCACGCCGAGACACAAGCAGGAGTTCT
TAGACAAGCCAGAAGATGTCTTGCTGAAGCACCAGGCCAGCATCAATGAGCTCAAAGGACCCTGAAGGAGCCCA
ACAGCAAATCATCCACCGGGATCGAGACTGGGAACGGGAGCGCAGGCTGCCCTCCTCCCCCGCCTCCCCCTCCC
CCAAGGGCACCCCTGAGAAAGCCAATGAGAGAGCAGGGCTGAGGGAGGGCTCCGAGGAGAAAGTCAAACCACCAC
GTCCCCGGGCCCCAGAGAGTGACACAGGCATGAGGACCAGGACCAGGAGAGGGACACGGTGTTCCTGAAGGACA
ACCACCTGGCCATTGAGCGCAAGTGCTCCAGCATCACGGTCAGTCTACGTCTAGCCTGGAGGCTGAGGTGGACT
TCACGGTCATTGGTGACTACCATGGCAGCGCCTTCGAAGACTTCTCCCGCAGCCTGCCTGAGCTCGACCGGGACA
AAAGCGACTCGGACACTGAGGGCCTGCTGTTCTCCCGGGATCTCAACAAGGGGGCCCCCAGCCAGGATGATGAGT
CTGGGGGCATTGAGGACAGCCCGGATCGAGGGGCTGCTCCACCCCGGATATGCCCCAGTTTGAGCCCGTGAAAA
CAGAAACCATGACTGTGACAGTCTGGCCATTAGAAAGAAGATTGAGCCGGAGGCGCTACTGCAGACCAGAGTCT
CCGCTATGGATAACACCCAGCAGGTTGATGGGAGTGCCTCAGTGGGGAGGGAGTTTCATAGCAACCACTCCCTCCA
TCACCACGGAGACCATATCGACCACCATGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGCTGCCATGATCCAG
GCCACAGACGGTGGCCACGGAAATCCGTTCTCTTTCTCCGATCATCGGGAAAGATGTCTCACCAGCACCTACG
GCGCCACTGCGGAAACCCCTCTCAACCTCCACCACCACCATGTACCAAAACTGTGAAAGGAGGGTTTTCTGAGA
CAAGGATCGAGAAGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCA
AGGAGGCCAAACTGCAGCATCCTGATATGCTGGTAACCAAGCTGTCGTATACAGAGAAACAGACCCATCCCCAG
AGGAGAGGGACAAGAAGCCACAGGAATCCTTGACCTCTGTGAAGAGATCCTGGCATTCTTGGTCCAACCCAAGCCA
GAGAACCATTAAGAAGGGGCCTTCATTCTGGATTCTCCGACGCAACACTGACGTCCCAGCTGCGACGTACTGTCA
CTGATGAGAGACTGGGAAGGGAAAAGCATATATATATAGATATATAGAGATATAGATATATATACAGGAAACACC
GCATCCTTGCACTGCTGCTGGGGCTGGCAGAGCAGTTGGCTGACAGCAACAACCGACATCTGAACACCTACATTT
CCTTTGCAGACAAATTGAAGAACTGGTGGGATTTTTTTCAAGAAAAAAATTATATAATAACTATAATCCCTTGC
TCACCCCTTTCCCCCGCCAAATAAGAAACGCAAGCCAGACCACGATGATTGTAGAAGTCCCTCCCGCCCTGGTTC
TGCACGTTACAGTTAGCAGACGAGCAATTCCATTTGTTCTTCTCCAGCATCTCTAAGGCCCACTTGAATGCAAG
GAAAACACTTGACACAGCAAGCAAGAGAAGTCACAGCAGCAAGACACGCACAGTCAACCATTTTCCGAGAAAAA
AGAAAATTTCCCACTTGGAAGAAAGAGGAGGAACACTGGATTCTTACTTTCTGGATCTTGACACTGGGCTGCAA
AACCTACCTTCTCTCTCCCGCCTCCCCCTCACCTCAACTCTCAATGTCTTGCTGTCAATTTCTGTCTCGGCTCC
CTCTCCCCCTTCCCCCTTCCCCCACCCACACCTTCACCTCTGTGTCTGGTCTTCTGAGGGCCACTGCAG

5209/5332
FIGURE 4516B

ATGACTCTCCTTTGAAATGAGAAAAAGAAAAGAAAGCAAGAACAGAAAACGAAGCCACAGGAAGGGAAGTAGACA
TTGTATGCTTATGGTTTCTCATTATGAAGGTGCAGCTTGTAGGAGGTTTGTACGGATGTGCTTTGAAGTTATGTA
TATTACATATAACAGGAAAAAATATTAAAAATAAACAGTGCTGGTAAGTATGAAGCTGACATTCTAAAATTATAAT
TATCTGACTGTGATTGATGTATCCTGAGGTTCTAGATCTCACTGAACTGGCCCAGCTAAGGAGACCTGGACTCT
GGGTGTGGGTTGGCTCACAGTAGGGGCTGACGGGTTCACTGTAGTAATACTGTGTGTGGTGTGTTGTAATTGGTTG
ATTGGTGGGGAGGGGTGGGGGGCCCTAATGGAGAGGTGTGGGTTTGGCAAGAAAGAAGCAACACAGATGTCGTCC
CCAAAATGCCAGTTCAAGACACCTTCTCCCTGCCCCCTGGTAGTAACAGTCAGGGCCTGGTCTGTGCTCAGGTA
CTGGGTCCCAGTCTGGGACTCTGCTGCTGAAGTTGCCACAGTAGAGGTCCCTGGCTTAGTCCTTATCTCCCTACG
GGGCTTGCCCTTGGTTTTTCAGTCTTCTCTCTCTTTCTCTCTTTTTTTTTTTTTTTTGGCCACATTCTGCCCTTCCCTGA
CCCCATTGTAATAACCAACTCCATATCCAAAGGGAGGTGGTGCTCTCAGCCATTGTAGAAGATGGTGGCTTTAAC
CTGACTGTCTAAAAATCCCAGCTAAGCCTTTTCTCTACTCTCTCTCTTCTGTTCTGAATCATTCTCTCTCTCAG
GCCAAAGTAGCCATGGTAAGGAGGCTTCATGGGGCAGACCCTGAAAGATCAAACTGCATTTGCAAAGCCCTCCC
CTGTCCCAGGACAAAGCTGAGACTGACGGGTGATGTGCTCATAGGCTCCAGCTCTGCATAAGACCTTGGCTTGG
AGACCTCCCTCTCAGTCAACAGCTGAACTCTGAGCTTGTGCCCAGAAATTACCCCAAGACCACAGGAACCTTCA
AGAAGCTCCCATCACAAGCTTGGCATTGCTCTCTGCCACAGTGGGCTTCTCAGGCTTGTCTGCCACAAGCTAC
TTCTCTGAGCTCAGAAAGTGCCCTTGATGAGGGAAATGTCCCACTGCACTGCGAATTTCTCAGTTCCATTTTA
CCTCCCAGTCTCTCTCTAAACAGTTAATAAATTCATTCCACAAGTATTTACTGATTACCTGCTTGTGCCAGGG
ACTATTCTCAGGCTGAAGAAGGTGGGAGGGGAGGGCGGAACCTGAGGAGCCACCTGAGCCAGCTTTATATTCAA
CCATGGCTGGCCCATCTGAGAGCATCTCCCACTCTCGCCAACCTATCGGGGCATAGCCAGGGATGCCCCCAGG
CGGCCCAGGTTAGATGCGTCCCTTTGGCTTGTGCTGATGACATACACCTTAGCTGCTTAGCTGGTGTGCGCTG
AGGCAGGGCAGGAAATCAGAATAGCATTGTCTTCTGCGCAATGGGAAGTTTACGCGGGGCAGCAGAATCAGTG
GCATTCCCCCTGGTGCAGGCCGGTGGGTCCACTCCAACCTCCCCCTGAGTGTAGCAGCACACTTCCATACACCAG
GTTCTTTCTACAATCCTGGTGGAAAAGCCACAGAACCTTCTTCTGCCCCTTCTTGAGAGTTCCCCCTCTTTCTGG
GTCAAGAGCTGGAGTGGTGGCTCCATCCTCTCTGGGCCACTTCGGTCTAGGAACTCATCTTTGCAGGAACCAGGA
GTCTTGAGCACACTGAACACACCTCAGAGGGAGGATCCTTGTGTGGATTTTGCACCTGGCTTTGGGGCAGGGGT
GAAGTGACCAGGCTTAGCTTGTGGAGTTTATGGGCCACCAGGGTTTGGGGAAATCACCATCCCGCGGATGCTGTG
ACCTCCCTTCTACGGAGATGCAGGCAGTGCCACGAGGGAGGAGGGGACCTGCAAAGCTAGAATCTAGGGCACTGT
TTCTTCCCCTCTCTCTTTGTAGAGAATAGAGACGTTTGTCTGTCTGTCTTCAACCTACTTTTCTTTCTC
TTTTTTGTTTCTCATCTCTCTGTGCCACCTCTCCACCCAGGAGGCCATGTAGCATAGTGGAAGTCCCTGAG
GGCGGTAGGAGTTCTGGGTGACCATCTGGCTCAGCTCCTAACTACCATGTGACATCAGGCTATCCCCATTCC
CCCTCTTGGGCCTCAGTTTCCCGACTTGCAAAATAAGCAGAAAGAACCAGATGCTCTCAGGGTCTTTTCTACT
TTGCTATCTCATGGGTCTTCATTTTCTCTTATTTTGTCTTCTCTGGATCTTTTCCATCTGAGGGTACAGGAAGTA
CCAGGACCTGTTTCAGTTTTTGAATCCTGCAAGCACATTCCAAGACTGGCCTGAAACTGCATGAGCAACATCACT
CGAAATAATTTTTTTTTTCAAAGCACCTTAACAACCAATTGCGATGCTGTCTGTTCTTTTACTCACACCCT
TCTCTCCTTTCTCGTCCCCATGCTCCCCACCTCAGTGCTCCGTGCTGTATGCGTGTGCTCTCTGTTCTTGTATA
CTCAATATAAGTGAAATAAATGTGTTTGTATGCTGAACCAT

5210/5332
FIGURE 4517

GTTTTATTTAGTACACAGGCAAGCAGCATAATCCAGTTTGTATTTTAGAAAGATCATATCAGTTGCTGTATGGAA
ACTAGATTGGAAGGGCCAGGAGAGGACCCAAGGAGGCCATTCTGTTATTTAGGGAAGAGATGATGGTGGTGTGGA
TCGGGTTGTGGTTGGTGGAGGAGAGAGAAGTGCACAGATTGTAGAAGTGTTTTATAAGCAGTCAAGATTTGTCTG
ATGGAGTACATGTGGGCAGTGTCTAAGATTGTGTCCACATTTCTTTTTTTCTTTTTTTTTTTTGTATTGATTGGG
ATGGAGTCTCACTGTATTGCCAGGCTGGAGTTCAGTGGCACCATCTCGGCTTACTGCAACCTCCACCTCCCGGG
TTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTACCTGGGGCTACAGGCGCCGCTACCACACCCAGCTAATTTT
TGTATTTTAAATAGACATGAGGTTTACCATTGTTGGCCAGGCTGTTCTCAAACCTCTGACCTCAAATGATCTGCC
CGCCTCAGCCTCCCAAAGTGCTGAGATTACAAGTGTGAGCCACTGTGCCCGGCCTTAAATTTCTGATGGAAGGGT
GCCATATACCGAGAAGGGGAAATCTGGCAGGGGAACAGGTTTGGGGAGAAATCAAGAATTCTATTTTTTTTTTTA
ATTTTTTGTTTTTTAGAGACAGGGTCTCCTTCTTTTGGCCAGGCTGGAATGCAGTGGTGCAGTCATAGCTCACCA
CAGCCTTGAATTCCTGGGCTTAAGCAATCCTCGTGCTTCCACAGGCACATGCCACCACATCCATGCTAATTTGTT
TCTTCTCTTGGTAAAGATGAGGTCTCGCTGTGTTGCCTAGGCTGGTTTTCAAACCTCTTGGGCTTAAGTGATCCTCT
TGCTTGGCCTCCCAAATGTTAGGGTTACAAGCATGAGCCACTTGTGCCTGGCCAAGAATTCTATCTGTATATC
TTTATAGGTCTTGAGACATCCAAGTGGAGATGTCAAGAAGGCAGTATGTGAGTTTGGAATTCAAAGGAGCGGGCT
GGAGATACACATTTGAGAGCTGTTAGCATCGAGACCGTGGGTTTCAAACCTGCATCTGTGTCAGAATCACTTGGC
GTCATTCCCAGAGAGTATGATTCACTGGTGGTATCTTAGGCTTTTTATGGCAAGCAAGAGAAACCATCCTGAGCT
GATTTAAGCAGAAAAGGGCTGCACTGAAAGGGAAATGTTCACTAGTTTACAGAATTTCTGGGAAGTTGGAAAAGT
GGGCTGGGCAGCAGGCAGGATCTCAGCCAAAATCATGCCACCGAGCCAGTTTGGCAGGACACTGCTGCCACACAC
TAAATGCCATCGCTGTGTCACTGTTCCCTGAACACTAGACACCATTGCTGTGGTTGCCACCAGCATTGGAATGGA
TCTTCCACTGTGCTCCTGATTCAAAGTCTGTAGTGAGGGCTTCTGATTGGTTGAGCTTAGGTGTAAGGGAGGCTG
GAAAAGCAAGAATTTGTTGTTTTTCACTTTTACAGGAGGTGAACTCTGCCAAGACCTGTGCAGTGAGGAAGTCCC
CAGACATAGGAAGGAGGTGAGATGCCAGACTGGCACACAATGACAGATGTACTTGACAGCAAGTTTGCCAGCTTG
TGGGATTGTCTGGGAATCTGCATTTAAACCAGCACCCCTGGAAATTTCCATGCAGGTGCTGCCTGAACCACATTTG
CATCCATTGCTTGAACCTGGTACTTAAAGCTGTGGGGGCTGGGCGCGGTGGCCACACCCGTAATCCAGCACTTT
GGGAGGCTGAGGCAGGGGGACCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCGAAACCCCGTCT
CACTAAAAATGCAAAAAATTAGCCGGGCGTGGTGGCACGCACCTGTAGTCCCAGCTATTCCGAGGCTGAGGCAGG
AGAATCGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGTGAAAG
GGCAAGACTATGTCTC

5211/5332

FIGURE 4518

CGGACTGGCAGGGGGCAGGGAAGCTCAAAGATCTGGGGTGCTGCCAGGAAAAAGCAAATTCTGGAAGTTAATGGT
TTTGAGTGATTTTTAAATCCTTGCTGGCGGAGAGGCCCGCCTCTCCCGGTATCAGCGCTTCCTCATTCTTTGAA
TCCGCGGCTCCGCGGTCTTCGGCGTCAGACCAGCCGGAGGAAGCCTGTTTGCAATTTAAGCGGGCTGTGAACGCC
CAGGGCCGGCGGGGGCAGGGCCGAGGCGGGCCATTTGAATAAAGAGGCGTGCCTTCCAGGCAGGCTCTATAAGT
GACCGCCGCGGCGAGCGTGCGCGCGTTGCAGGTCACTGTAGCGGGACTTCTTTGGTTTTCTTTCTCTTTGGGGC
ACCTCTGGACTCACTCCCCAGCATGAAGGCGCTGAGCCCGGTGCGCGGCTGCTACGAGGCGGTGTGCTGCCTGTC
GGAACGCAGTCTGGCCATCGCCCGGGGCCGAGGGAAGGGCCCGCAGCTGAGGAGCCGCTGAGCTTGCTGGACGA
CATGAACCACTGCTACTCCCGCCTGCGGGAAGTGGTACCCGGAGTCCCGAGAGGCACTCAGCTTAGCCAGGTGGA
AATCCTACAGCGCGTCA TCGACTACATTCTCGACCTGCAGGTAGTCCTGGCCGAGCCAGCCCTGGACCCCTGA
TGGCCCCACCTTCCCATCCAGACAGCCGAGCTCACTCCGGAAGTTGTCATCTCCAACGACAAAAGGAGCTTTTG
CCACTGA TCGGCGGTGTCCTGACACCTCCAGGTGAGTATCTCCTCTCTTGGAGAGGGAGGTTTAAACGGCAAGT
CCTGGAGTTGGCAGACGTTTTGAAAAATTGCCACTCACTCGGTTTAGGGAACTGAGGCCAGAGAGGGACAAGTG
ACTTGCCCATGGTTG

5212/5332
FIGURE 4519

TTCTCTTCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGAGAACCCCATGCGGGAACTTCGCATCCGCA
AACTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAGACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCA
CAGGGCAGACCCCTGTGTTTTCCAAAGCTAGATACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGATTG
CTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGTCTAAAGGTGCGGGAGTATGAGT
TAAGAAAAACAACCTTCTCAGATACTGGAACTTTGGTTTTGGGATCCAGGAACACATCGATCTGGGTATCAAAT
ATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGTGCTGGGTAGGCCAGGTTTCAGCATCGCAGACA
AGAAGCGCAGGACAGGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAGA
AGTATGATGGGATCATCCTTCCTGGCAAATTAAATTCCC GTTTCTATCCAAAAGAGCAATAAAAAGTTTTTCAGTGA
AATGTGCAA

5213/5332
FIGURE 4520

GTTCCGGCGAGGAGGCCGCGCCAGTGACAGCGATGCGCGCGAGTCCGCGCTCCAAGTTGTGGAGAAGCTGCAGG
CGCGCCTGGCCGCGAACCCGGACCCTAAGAAGCTATTGAAATATTTGAAGAACTCTCCACCCTGCCTATTACAG
TAGACATTCTTGCGGAGACTGGGGTTGGGAAAACAGTAAATAGCTTGCGAAAACACGAGCATGTTGGAAGCTTTG
CCAGGGACCTAGTGGCCAGTGAAGAAGCTGGTTTCTGTGGAACGAAATGCTGAGCCTGATGAACAGGACTTTG
AGAAGAGCAATTCCCAGGAGCCCTCGGGATGCCCTGCAGAAGGAGGAGATGGAGGGGGACTACCAAGAAA
CCTGGAAGCCACGGGGAGCCGATCCTATAGCCCTGACCACAGGCAGAAAGAAACATAGGAACTCTCGGAGCTCG
AGAGACCTCACAAAGTGTCTACGGTTCATGAGAGGAGAGATGAGAGAAAGAGGTGTACAGAATGTCACCAACTT
ACTCTTCAGACCCTGAGTCTTCTGATTATGGCCATGTTCAATCCCCTCCATCTTGTACCAGTCTCATCAGATGT
ACGTGCACTACAGATCCCTGGAGGAGGACCAGGAGCCCATTTGTTTACACCAGAAGCCTGGGAAAGGGCCACA
GCAATGCCTTTTCAGGACAGACTCGGGGCCAGCCAAGAACGACACCTGGGTGAACCCCATGGGAAAGGGGTTGTGA
GTCAAAACAAGGAGCACAAATCTTCCACAAGGACAAACGCCCCGTGGATGCCAAGAGTGATGAGAAGGCCTCTG
TGGTGAGCAGAGAGAAATCACACAAGGCCCTCTCCAAAGAGGAGAACCAGGAGCCACCCTCAGGGGACAATGCAA
GGGAGAAACCGCCCTCTAGTGGCGTAAAGAAAGAGAAGGACAGAGAGGGCAGCAGCCTGAAGAAGAAGTGTTCG
CTCCCTCAGAGGCCGCTTCAGACAACCACCTGAAAAGCCAAAGCACAGAGACCCAGAGAAAGCCAAATTGGACA
AAAGCAAGCAAGGTCTGGACAGCTTTGACACAGGAAAAGGAGCAGGAGACCTGTTGCCAAGGTAAAAGAGAAGG
GTTCTAACAACCTAAAGACTCCAGAAGGGAAAGTCAAACTAATTTGGATAGAAAGTCACTGGGCTCCCTCCCTA
AAGTTGAGGAGACAGATATGGAGGATGAATTCGAGCAGCCAACCATGTCTTTGAATCTACCTCAGCTATGACC
AGCCCCGGAAGAAAAGAAAAGATTGTGAAAACCTTCAGCCACGGCACTTGAGATAAAGGACTTAAAAAAATG
ACTCTAAAAGCACTGGTAAAACTTGACTCAGTTTCAGAAATTACCCAAGGTGAACAAAACCAAGTCAGAGAAGC
CGGCTGGAGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCCAGTGTGCCAGACCTCCCGTTACCCG
CGATACAGGCCAATTACCGTCCACTGCCTTCCCTCGAGCTGATATCCTCCTCCAGCCAAAGCGAAAAGCGTTCT
CTTCACCCCAGGAAGAAGAAGAGCTGGATTTACTGGGCGCAGAATGAATCCAAGATGCAGGTGTATTCTGGTT
CCAAGTGTGCCTATCTCCCTAAAATGATGACCTTGCACCAGCAATGCATCCGAGTACTTAAAAACAACATCGATT
CAATCTTTGAAGTGGGAGGAGTCCCATACTCTGTTCTTGAACCCGTTTTGGAGAGGTGTACACCTGATCAGCTGT
ATCGCATAGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATGGAAAGTTCATTGTCACCGAGACT
TTAAGGAAGAAAGACCCGAAGAGTATGAGTCGTGGCGAGAGATGTACCTGCGGCTTCAGGACGCCCAGAGCAGC
GGCTACGAGTACTAACAAAGAATATCCAGTTTCGCACATGCCAATAAGCCCAAAGGCCGACAAGCAAAGATGGCCT
TTGTCAACTCTGTGGCCAAGCCACCTCGTGACGTCCGGAGGAGGCAGGAAAAGTTTGGAAACGGGAGGAGCAGCTG
TCCCTGAGAAAATCAAGATCAAGCCAGCCCCGTACCCCATGGGAAGCAGCCATGCTTCCGCCAGTAGCATCAGCT
TTAACCCAGCCCTGAGGAGCCGGCCTATGATGGCCCAAGCACCAGCAGTGCCCACTTGGCACCAGTGGTCAGCA
GCACTGTTTTCTATGATCCTAGGAAACCCACTGTGAAGAAAATTGCCCAATGATGGCCAAGACAATTAAAGCTT
TCAAGAACAGATTCTCCCGACGATAAAGTGAAGGACTTGCCCTTGGAAATGGAATCTGGGGAGGCAGGAATACAAGG
ACAGTGGGGGTTGGGGAATGGAATTCTACAGGAGACTGGAGTCTTGCTTTGTGGATCCTTTTGGTCTCCGAGTCC
TGCAGTCTGCAGGTGCTGCCCTGGGAACCTGCGTGCCACAGCCCCGCCTCCCTGCCTGGAGCACACTTTAGAAT
TCTGAAGATGTGAAGCCTCTGTCTCACTGAGGATTTTAAAGGTCAATTATACTTTTGTGTTTCATTAGCATCTTT
GTAACCTATAAGACGTAGTTTTAATTAATAAATATTGCCCCAGAT

5214/5332
FIGURE 4521

GGAAGTTCCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTCTGCGGGAGAAAGAGGAGAATCGCCCAAGCGGCCTC
GGAAGTCCCAGGGAGTGGAGGCCCCCGCCGTGGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCCT
GCTCACCGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGCGGTTATTTTTTTTACATGGACTTGGAGA
CACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATCCGGCTCCCTCACGTCAAGTACATCTGTCCCCATGCGCC
TAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGC
CCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGG
GATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTACAGGGCGGGGCCCTGTCCCTCTACACGGCCCTCACCTG
CCCCACCCTCTGGCTGGCATCGTGGCGTTGAGCTGCTGGCTGCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAA
TGGCAGTGCCAAGGACCTGGCCATACTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGC
CCTGACGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACCCGGGTGTCATGCA
CAGCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGC
TGGCCCCAGTGCACTACCCAGCTCATGGGGGACTCAGCAAGCAAGCGTGGCACCATCTTGGATCTGAGCCGGTC
GAGCCCCGTGTCCCCACCCTTCTGACCTGTCTTTTCCACAGGCCTCTGGGGGCAGGTGGCAAGGCCTGGCCGG
GCCTTCTTCTTGGCCTTAGCCACCTGGCTCTGTCTGCAGCAGGGGCAGGCTGCTTTCTTATCCATTTCCTGGA
GGCGGGCCCCCCTGGCAGCAGTATTGGAGGGGCTACAGGCAGCTGGAGAAAGGGGCCAGCCGCTGACCCACTCA
CTCAGGACCTCACTCACTAGCCCCGCTTTGGGCCCCCTCCTGTGACCTCAGGGTTTGGCCCATGGGGCCCCCCCCA
GGCCCCCTGCCCCAACTGATTCTGCCCAGATAATCGTGTCTCCTGCCTCCACTCAGCTGCTTCTCAGTCATGAATG
TGGCCATGGCCCCGGGGTCCCCCTTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGGAG
CCTTTTGAGGGGGGCCTTCCCTCAGCTGTTTCCCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCTCCTT
CCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTTCAAGTCTCCCCCAGCTGTCTCACCCTCACTTTGTCC
CCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTCGTCTTCTGTCTCCATGTGGTTTTTGGGTGTTTT
TCTTGTGTGTCTCTGGATTCCGATAAAATTAAAGAAATTGCTTCCTC

5215/5332
FIGURE 4522

GGCCAAGATGGCAGCAATGAGGAAGGCGCTTCCGCGGCGACTGGTGGGCTTGGCGTCCCTCCGGGCTGTCAGCAC
CTCATCTATGGGCACCTTACCAGCGGGTGAAAATTGTGGAAGTTGGTCCCCGAGATGGACTACAAAATGAAAA
GAATATCGTATCTACTCCAGTGAAAATCAAGCTGATAGACATGCTTTCTGAAGCAGGACTCTCTGTTATAGAAAC
CACCAGCTTTGTGTCTCCTAAGTGGGTTCCTCAGATGGGTGACCACACTGAAGTCTTGAAGGGCATTGAGAAGTT
TCCTGGCATCAACTACCCAGTCCTGACCCCAAATTTGAAAGGCTTCGAGGCAGCGGTTGCTGCTGGAGCCAAGGA
AGTAGTCATCTTTGGAGCTGCCTCAGAGCTCTTACCAAGAAGAATCAATTGTTCCATAGAGGAGAGTTTTCA
GAGGTTTGACGCAATCCTGAAGGCAGCGCAGTCAGCCAATATTTCTGTGCGGGGGTACGTCTCCTGTGCTCTTGG
CTGCCCTTATGAAGGGAAGATCTCCCGAGCTAAAGTAGCTGAGGTACCAAGAAGTTCTACTCAATGGGCTGCTA
CGAGATCTCCCTGGGGGACACCATTTGGTGTGGGCACCCAGGGATCATGAAAGACATGCTATCTGCTGTCATGCA
GGAAGTGCCCTCTGGCTGCCCTGGCTGTCCACTGCCATGACACCTATGGTCAAGCCCTGGCCAACACCTTGATGGC
CCTGCAGATGGGAGTGAGTGTCTGTTGGACTCTTCTGTGGCAGGACTTGGAGGCTGTCCCTACGCACAGGGGGCATC
AGGAACTTGGCCACAGAAGACCTGGTCTACATGCTAGAGGGCTTGGGCATTACACGGGTGTGAATCTCCAGAA
GCTTCTGGAAGCTGGAACTTTATCTGTCAAGCCCTGAACAGAAAACTAGCTCCAAAGTGGCTCAGGCTACCTG
TAAACTCTGAGCCCTTGCCACCTGAAGCCCTGGGGATGATGTGGAATAGGGGCACACACAGATGATTCATGG
ATGGGGACATGGAAATGAGAATAGGTAAATGGTGCAGGTACCTCATAGCCAGCTCTACACAGAGGTCTCTCCTG
GCAGAAAGCAGGCGAAGGGCAGGAGGAGCTGCTTGGCAGAAGGACCTCTGCCAGACCTGAGGAGTGAGAGGCT
TTGAGGGCTGAAGTCTCCCTTTGTTACGGACCCTGGCCAGGAGTTGAATGCCCTGAGGACGTGTGGGAACCCCGT
TCCCTACTTAGCATGATCCTTGAGTCTCCTCTCTGGATGGAATCCGCGAGCTGGCCACCTGGCCACCCTCTACAC
GGCTCCACCCTGCCATGGCCGTGGGGCCCTTGCTCTCTGACTTCTCAGGACACAGGTGATGGAGGTTCTTCCCAA
GCTGGCAGAGGCCATTTGTGGAAGTGGAGAGCTACGTGGTGGCCGTCTGCCAACTCCAGCATCTCTGAAAAATC
TCCACGCTGAATGTGATTTTTGAAAACAGCTTATGTAATTAAAGGTTGAATGGCACATCAT

5216/5332
FIGURE 4523

GTCGGTAGAGGCAGAAGGAGAAGGTCGGGTTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGGTGTTTCGTGG
GCTTTGTCCGGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCGACGTCGAGAGGGAGCCGCTGCCGCG
TTAGTTCCGAGCTTGAAGTCACTAGGACTTCTCTCAAACCTTGTGTGCTGAGGAGACTCAGATGTTGGCCTCAGCT
CCTAGGCTGAACTCAGCAGATCGGCCCCATGAAAACCTTCTGTATTGAGACAAAGGAAGGGATCTGTCAGAAAGCAA
CACTTGTTATCTTGGGCTTGGCAGCAAGGAAGAGGACAGGTAGTGGAGATCCTGCAATCTGAAAAGCAGACTGAA
AGGTGACAAAGAAGCTGAAGATCGGTGGTGGAGAGAGGTATAACATTCCAGCCCCCTCAATCTAGAAATGTTAGTA
AGAACCAACAACAGCTTAACAGACAGAAGACCAAGGAACAGAATTCCCAGATGAAGATTGTTTCATAAGAAAAAAG
AAAGAGGACATGGTTATAACTCATCAGCAGCTGCCTGGCAGGCCATGCAAAATGGGGGGAAGAACAAAAATTTTC
CAAATAATCAAAGTTGGAATTCTAGCTTATCAGGTCCCAGGTTACTTTTTAAATCTCAAGCTAATCAGAACTATG
CTGGTGCCAAATTTAGTGAGCCGCCATCACCAAGTGTTCTTCCCAAACCACCAAGCCACTGGGTCCCTGTTTCCT
TTAATCCTTCAGATAAGGAAATAATGACATTTCAACTTAAACCTTACTTAAAGTACAGGTATATAAATAAGACAA
ATGTTTAAATTTAGTTATGTTACGGATAGTTGTCAATTGGTCTGAAACAAATTCGCTAGGGAATCTATTTGTGT
AGAATAATTAATGTAAAAAAAATAGACCATCTCGTGTTGTGTGCACTGTGATATAATGGTAGTATCAGTGCAAC
TTAACTAATGATTGTACTTGATATTAAGTGTTCTCAACTGAGTAACTTTTAAGTGGAACCAAGTTTAGATTTG
GGGAGTGGTAAAGGAATCAGCTTTTTCTATTGTTAGGGGAAGACAGTAATTTATCATTGACGACAGTAGATTG
TTGAAAGTTGGTGAATCGGATTATAAGCTTCTAGCTAACACAAGGATTGAGATTAGGTAAACATCTGAAGGTTT
AGTATATTAGAAACACCCAAACCAGTAATATGCTAACCTGATGCACTGCTGAAAGAAAATGTGAATTTTTCGTAA
TAATTGCATTTTAGTGAATTGTACAGTGGGTGGAAAGGGCATTGGAGCTCATTAGAATGAGACATAGTACACCC
CAATGGCCCTGTTTATTAAATGTAGTGGATTAAGTGCTGTCAACAAATACACCAAAACCATTTTTTATAGAAAC
AGTATTTAATGGTCACTCAATAGCTTTCAAATAACATTTTTGTATTACAGCACTGCACAAGCTATTCTAATAGTG
CTCTGGCCTCATCATTCCTGCAAAGCTTGCTTTGGGGAGTTGGATAATGTGAAAATTTTAAGTACCTAGGGGAGA
AAGAGCCATGTAATATCTGTAATAAACTTGTAGCATATGTAAAGTTTTCTTGGCCTTTATCTTACAAAAATGGA
GTATTTTAGTATGAATTTGCTGAATGTAAGACCGTGGACTGTTTTTTATAATATGGCCTAATTTTAAAGGTCCAA
AATAACTTGTTTTTAAAGTTTGCCCTTGTGCTAAAGTGCCAGTGATGTATGTTATACTTGATTTGGTTGTAAAC
TATATTTCAAAGTAAACCTAGTGTAATAAGTTTTATACTAAAAAGGTTTAAGCTGCTAAACTATTTTTAAGA
GATGTGAAATGCAGTATGGGACTATCTTTTTTCTCCTCTAAGCCCAAAGATTAAGTAGAGTCCCTCCAACCTT
ATAGATTGTTGGCTTTCACAATCTTATAACCTAGGATACAGGTAGTTTCGAGTATGGTGCCAGTGATGTTTGT
TTTGTGTTGGTCAAGGGGTAGGTGCAACCCAATGGACCCTTATGCAAAAGATGTAACTCTTGATAATACATTG
ATAACATGTTTTGCCAACTTTAAATGCTTAAACATAAGCGAAACCAGTAGCAAGTATGTGGGTGAGCTTAAAAAT
TTTGATTGTTAATGCCCTATTTTCTAATTTGGCACCTCTTGATGCCCTAAGCAGGTAAGCAGATGCCTAAGCTGTA
TTTCTCCAAATAAATCAAGATGAAGTACTGCCCAAGTTAAATATTGATAGCCTAAAGACAAGTTTATGTAGTACT
TAATGTACATGATATGAATGTGAAGCATAAAATTAATAAAATTTTTCCCC

5217/5332
FIGURE 4524

GTCTGAGGCTCGGCCGCCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCGCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTGAGGAACGTGGCCGACGACACACAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATAGAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTTTCAAGATC
TAAATCCAATTCAGATCACGGTCCAAGTCCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGTC
ATCTCACACCAAACCTAGAGGCACCTCTAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATATGAAAA
GGAATCAAGGAAAAAAGAACCACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
ATCAAGGTCTTGGACTAGTCCTAAGTCCAGTGGCCACT**CGA**TAGTATAAACCATGGTCATTTTTTAGGCATGTATCA
TTCATTTACTCATAGTTTGGTTTACTTAAATTATCAGGAATACAATGTTGCAATGATGCTTAAAAAACACTTGTT
AGTTTTCCCTGTACCAGGCAATGGTTATAATTAATATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GTTTAATGTTATGGGCAGCTACCAATTTGTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTTATGCTTG
AAGTATTTGGTGAAAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAAAAATAAACTTTTCATATTCAT
ATTTGGTAGAACTGTTAACCTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTTCAGGGTGGACCTTTATGTCTTGTCAAGATGTCTAGGCCCGG
CTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCCGGCGGATCACGAGGTGAGGAGTT
CGAGACCAGCCTGACCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCTGGGAGGTAGAAGTTGCAGTGAG
CCAAAATCACGCCACTGCACCTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTATTTTTGATGCAGTGTGGATTAGTTCTTTTGTAAACCCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTTGTACTGAAACATGGAGCCTTCACTGCTTTTTTTCTGGTTCCTATGAAGATTTG
GAACATAGAAAACACAAAACTCACCTTAAATTTGAGCAGGTGCTTGATGGCAAAAATAATTTTAAGGAAAAAG
GAATATTTCTTATGTAGTTATTCTAAAGTTTAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTTCAAAGTAGGTTTTGTGTGTGTGTGCCTAGTGTAAAAGAACTGAAATTTTGATGCTT
ACAGCACTTGGCTCGTGCATTTGTATCAAAATTTGCCTGCCTCTTTATGAGGGAGGCCTGCTTTTCACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTCTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGGAAAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTTGAGCTTTTCGATTATCAGTGTAGTACCTGA
CTAAAAATGAAGTAATACCCTTAAACCATTTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTGACATGTCCAATTTTCATTTCAGAATAAAAAGCTAGCATCTTTAAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCCTTTTAGAGGATTACTTTTTTCAATTTTCGGTTTTAGTAATCTAGGC
TTTGCCTGTAAAGAATACAACGATGGATTTAAATACTGTTTGTGGAATGTGTTAAAGGATTGATTCTAGAACC
TTTGTATATTTGATAGTATTTCTAACTTTCATTTCTTTACTGTTTGCAGTTAATGTTTCATGTTCTGCTATGCAAT
CGTTTATATGCACGTTTTCTTTAATTTTTTTAGATTTTCTGATGTATAGTTTAAACAACAAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTTATAGA
GGCTTCTAAAAAGGTATTTTTATATGTTCTTTTAACAAAATATTGTGTACAACCTTTAAACATCAATGTTTGGGA
TCAAAACAAGACCCAGCTTATTTTCTGCTGCTGTAAATTAAGCAAACATGCTATAATAAAAAACAAATGAAGG

5218/5332
FIGURE 4525

AGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTGGCTCCAAGGCT
GCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAAT
CCTTGCTCTGCGACGGACTATTCCCTGGCTGCAGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTT
ACTGACTATGTTTCATGGGGATGCCTCGCAGAAAGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTT
GCTGGGCTTTGCTATTTCACTATCACGATGTGGGCATCTGCAAAGCTGTIGCCATGCTGTGGAAGCTCTGACCT
TTTTGACTTCCTACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTGTGTCATGCCATTAAGCTCACAATAA
GGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTTAATCACAAGATTATTTTCAGAATTTAACT
TTGAGGAAAAGGTTTGAGAGGAATTATATTTAAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTT
GCCTCCAGCTTCTTATAAGACTCACAGTATAACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATC
TCTTAAAGAGAATC

5219/5332
FIGURE 4526

CAGGAACGAGATGGCGGTTCCCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTCTGTTGCTGCG
AACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTTCTTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGCA
GCACATACACTTGTACCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTGT
CAGTGTGTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGACGGACTATTCCCTGGCTGC
AGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTTACTGATTATGTTTCATGGGGATGCCTCGCAGAA
AGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATGT
GGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTGACTTCCTACTTTGAAGAATTGATGTAT
GCCTCTTGGCTCTGCTTTGTCATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGCCCATTGGTGGAC
AGCCTTCTTCTCTTAATCACAAGATTATTTTCAAGATTTAATCTTTGAGGAAAAGGTTTGAGAGGAATTATATCT
AAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTGCCTCCAGCTTCTTATAAGACTCACAATAT
AACTAAACATGATATATCAGCTTTTGCCTTTTAAATTTCTCAATCTCTTAAAGAGAATCCAGCTTTATTATGATTA
GTACATGATCAAATTTCCATATTTGCCTTGGGAATAATGGACAAAGGGAAATACTCTTAATTCATGAATAAAAAAC
TTTGAGAAAATTAGACAGTGTGTTAATTTTCAAAAACCTCCCTCTCTAGTCAGTAGATACCACCTACTGATGGTT
ACATATACTAGGGAAATTTTAAAAATTAGGAAATGCTGCTATCTCATATTATAAAATTTCTAAATCCTAGGAAGAAA
CGCTTGGAGTGCTTCTGAAGATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCAGAGACATATCAAAATATTATC
CATTGTAACTGAGATTTAATTCTCAAAATGTATTCTACTTGTTCTAAAACAATCTGTCCACAAATATAAACTAT
AAGTAATAAATTGTTATTTCCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTTAA
ATAAAATGTTGTATAAAAAAA

5220/5332
FIGURE 4527

TTGCTACATATGGAAGTATTATTATTAGAAACCTTTTCAGTGGAACTCTGCCTTCCAACAGCCGCCATTTTCATT
GAGTATTATCTCTCTGAAGCAGTACACGAAACAGATCTTTCATGACGGCTGGCCAATGATTGTGCTTGAAAAGACT
AAACTCTACATGGCCAAATATGCAGATTACTTCTGGAAGTATCTTTGCAAGCTGCTGCATGTGTGGCTTCTTCG
AGGATTATACCTTCGTCTTTCTCCAACGTGGCCTACAAGACTACATCGTCTTACTGCCTACTCTTGGGATTTCTTA
GTGCAGTGTATTGAACGACTGTTGATCGCTCATGATAATGATGTGAAAGAAGCAAACAAACAGAGAGGGGCAAGCA
GGACCTCAGTCAGCGCAACTAAGTGTATTCCAGACAGCCTCCCAGCCATCACGGCCAGTTCACCTTTCAGCAACCT
CAGTATCTCCATCAGACACATCAGACCTCACTGCAGTATCGCCATCCTACGTCAGAACAACCAAGCTGTTCAGCAG
ATTGTATCGACCACACACACCTCATCTTACACACTACAGACATGTCCTGCTGGCTTCCAACTAGTGTTCAGGGC
CTTGGGCACATGCAGACTGGTGTGGGATGTCAGTGGCAATACCAGTAGAAGTTAAGCCCTGTCTGAGTGTCTTCT
TACAACCGGAGTTATCAGATAAATGAACATTACCCTTGTATTACTCCATGTTTTGAAAGGTGATTATTTGTGAAG
CTGATAACCGACCCAGACTGCTTTGTGACATGAAGCTATGGGTAAAGCGTTTTGTAACTTCTGTTCAAAAGGAAA
GGGATCTAAATGACATCAGAATCTTTCAGGTACCAGCACCAGGAAGACTGAATATCCTTTTAAATGCACCATGAA
TCCTGGGAGACTAAGCAAATTAACAGTATGTCAAATCTGTTACAACAAATCCCTGTATGACAAAAATGTTCAAG
TCCTGGCTGATGGTCCAAATATTTCAAAAATATTCAGTACAACAGAAAATTTGGACAGACTTCAATTTGCCATTT
TGAGATTTGACCTGTGGTAGCATCTGGGCTAATGTTGGCTTCTAAGTCAAAGACTAAATGTTTATCTCATCTAT
GGACTTGCCAAACAGTCTTTTTATGAAGGAAAGTTACAGTATTAATTTTTGAAAAGGTTTTTTTTATTCTGCAATT
TTTTATTTTTGTTCTACACATGAATTTTTGACTAAGTTTAACTCATGAATTGTTATGCTATACCAATCTGCAGT
AAAAAAAATTTTTTAGATGATTCTATATAACTTCGTCTCACAAATAGTGTAGGTATCTGGGTTTATATACTAAA
ATTAAGGGTGGAGAAGATCTTATTTTTTAAATCATGGTCATAATTTTTCTTTTTTCCCTAAGTGATCAACATCA
AATTTTTAGAAATTAATAACATTTAACTCAGGGAATTTGTACTACTTGGAACACTTAACTGTAATGCAACATGC
CTTGGGAATGTTATAGTGTGAAGTACCTTTATAACATAGGTTAAATACGCTTGCTAGGGTGTGTTTTCAAATGA
GAACATAATATAGCTCAGAATGAAGTGGTAGTTCTGTGATTGATAATACATATGTAGGTTTGCATATCTCAGT
GCAATCCATGATTTATACTCAGAATCGACATTCCTAAAAAGTTATTTCAAGGGATGGCATAACTGTAAGAGGTCA
GTGCTAGAATAAAGTCTGTAGGTTTTTTTGAAGGGGACTGTGGCCAGGGTAGTTCTCAGGTTGTGCTAGAGCA
GCATTTTGTTATGTGGAAGACAGGTTTTTTAAGCAACCTTTGAATCCAGCTCTAGTCACTCTAAGCAGGCAAAGG
TAACTGATGACTAAATTTTCAGTAGCTACTTTTCATTGGATTGACCCTACAACCTGCCCTGGGACATTTCACTGTACC
AGTATTAAGTCAAACAGCAATAATTGTCATTACAGCAAGGGCAGTTTTGGGGGTAAAGCATTITGGAGGAATAAC
CTTAAAAAGTTAAAAAGTCATTGTAATAACTGATAAACTGTATACATTGTGCTCCTTTCTGTGGGAGAAGAAAGA
TTTGGTGGAGGGAAGCTTTCTGGTTTAAAAATTAGTAAGGTGTGTCTTTTTTGTTTTTTTTTAAGATAGCACTTGAA
TAGAAGGGGAAAAGTGCATGGCAGATACGTGACTGCCACAATATGCATCGAAGACAACTTACTATAAAGATGTTG
TGGGTATGCAGCAGGAGTCTCAGTAATCAAGCCAATGGCCTTTGTGAGGAAGGGAAGGGGCTCAACACAGTGATG
GACTGATCCAGATGGCTCCCGGGGATGAATGTGGGTGGGTAGCTTCTGTGAGTATCAATGCTTAGAGAAATATCC
TTTCTTAAAAAGAAAATAACTTTTTATATTAGAGTACATAGGGCATGATGTGGATTTATAGTCTGGTAGATAA
AATGAAAAACCACTCAGGTAAGAACACTCACTCATGGCAGTTTTTAAGCATGAAAATTGTTTTCTGAAAGTATCA
TCACTTTTCTTTTTTAAAGAAGGCTGCTAATTTGGATTTTGGTAGTTCTTACCTCAAGAAAACCTGAAATTTTGG
GGGAAAGTAGGCTCAAAAGAGAATATATCTTTCACATTACATTGAGAACCCAGCAACCTGGAGTCCAATTTTCA
GTATTTTAACTACCTCAATAATGCTATGAATGTAAGATATTGGGATAGAGATCCCAACTGAAACAACAGCCAGT
GCCTGTGGTAACCTAATGTCTTGTCAAATACTTTTATTGATTGGTTTATATGCCATTCTTGTTATAGAAGAATAT
GCCTTTTAAAAAGCTTATTAATAACACTTTCCCAATTTATATTTTAAAAAGCTAAAGAACACTGGATTAATAAT
CTTTTGGGAGGGTAGAATAAAATAATTGATTACTATTGCTGCATACCCGGGGTGGGATGGGGTGGTTGGAGAACC
AGAATATTTTTTAAACATTAGGTTTCAATATAAATAACAACCTCACAACCTGCTAGCTTTGGGGGGTGGGGGAACAT
TGTGTGGGTTTTGTTTTGTTTTAATTTATTGATTAGTCTTAAAGTAGGCTTTTTTTTTTTTTTTTGGAGAATACTG
GACCATCATTAATGTGTACTGTGAAGAGATTAATATGTATGAAGGGCTTTACCAAAGTCCACTAAATAAACACT
ACTCAAGTACAGACTGCAAACCAAATGTATCTGTGTACGACATTAATTGCAAATAGCAAGTATGGTGCTAAAG
TCTACACCAATGGAATTAGATGAGTGCTATGCACTTAATTTTAAAAATAAACTAGTTTTTCAGT

5221/5332
FIGURE 4528A

GAAGGAAGTGAACACAGAGGTTGAGACTTGTCTAAAGTAACATGACCAATGAGGAACTGAGGTCCAGAGAAGT
TGAAGTTTTCCCAAGGTCACACAGCAGAGCTGGAAGTAGAGCTTGCAATTCCTGACTTCCAGATTAGTGTTATTT
TTACTTCAAACATTACTTCTTGATAACTTCAAGAGTTTTTCAGAAAAAAGAAATTGGGACTTTTTTGGTTAAAT
CATGCCATCTGAACAGAAACAGTTATTTTGTGATGAAAAACAACTACTTTAAAAAAGATTATGATGTGAAAAA
TGAGATAGTTGATAGGTCGGCACCTAAACCAAAAATTTTCAGGAAGTATTCATTATGCACTAAAAAATGTGAAAAA
TGATTTGCCAAAAATAAATATTCCAAATGAAGTCCTATTGAAACATGAAGTTGACAAATACAGAAAAATTATTTCA
GAGTAAACAGCAGACTGCAAGAAAAATCTATCAGTATAAAGACTGTAAGCTGTGTAGAGGAGTGACATTGCTTCA
TAAGTCTGAGAGAGCTGAAGAAGAGGGGTGTA AAAATGTCTGCAAAAATACTCAATTTTCAGCTGTTTAAATGCCG
AGACAACACTCGATATAGCCCAATGATTTGCAGAAACACTTTCAAATGTGGCACCATTGGCGAATTACCTTCATA
TCCTTGTGAAATGTGCAACTTTTCAGCAAATGACTTTTCAGGTATTTAAACAACACAGACGAACCCATAGAAGCAC
TTTAGTAAAATGTGACATTTGTAACAATGAGAGTGTATATACTTTACTGAACTTGACAAAGCATTTTCACATCCAC
ACATTGTGTTAATGGTAATTTCAATGTGAAAAGTGTAAGTTCTCCACCAGGATGTTGGCACATTTGTTTCAGCA
CATTTCATAGACATAATGAAATTCATTATAAGTGTGGTAAATGTCATCATGTATGTTTACCAAAGGAGAGCTTCA
GAAGCACCTTCATATTCATTCTGGTACTTTTCCCTTCACTTGTCAATATTGTAGCTATGGTGCCACCAGGAGAGA
ACACCTTGTAAGACATGTTATACTTTGCACAAAGAACATTTATATGCAAAAAGAAAACTGGAAAAAGACAAATA
TGAAAAAAGAATGGCAAGACTTCTGCAGGACTTAAGCTAATACTGAAAAGATATAAAATAGGTGCATCAAGGAA
GACGTTCTGGAAACGTAAGAAAAATTAACAGTGGAAAGTGACAGAAGTATAGAAAAGAACACTCAAGTGCTTAAGAA
AATGAACAAAACACAGACTAAATCTGAAGACCAGAGCCATGTTGTTCAAGAGCATTTAAGTGAAGAAAAGGATGA
AAGACTACACTGTGAGAATAATGATAAAGCCCCTGAATCAGAGTCAGAGAAGCCAACCTCCTCTGTCCACTGGGCA
AGGTAATAGAGCTGAAGAGGGACCAACGCTAGTTTCAGGTTTCATGAAGACTGCTGTACTAGGACCTACACTGAA
AAATGTAATGATGAAAAATAATAAACTAGCAGTTTCCCCTAACTATAATGCTACGTTTATGGGCTTCAAGATGAT
GGATGGAAAACAGCATATTGTATTAAATTTGGTGCCTATCAAACAAAATGTATGTTTACCAGGCTCAGAGTCAGG
TGCTGCAAAGGACGGTACTGCTAATTTGCAGCCCCAGACTTTGGACACTAATGGATTTTTAACAGGAGTAACAAC
TGAGTTAAATGACACAGTTTATATGAAAGCAGCTACTCCATTTTCATGTTTCATCTTCTATACTTTTCAGGGAAAGC
AAGTTCAGAAAAAGAAATGACTTTGATATCTCAAAGGAATAATATGCTTCAAACAATGGATTATGAGAAAAGTGT
ATCTTCTTTGTCAGCAACATCAGAATTGGTTACAGCATCAGTGAATTTGACCACAAAATTTGAAACAAGAGATAA
TGTTGACTTCTGGGGAAATCATCTCACTCAGAGTCACCCCGAGGTATTAGGTACCACCATTAAGAGTCCAGATAA
AGTCAACTGTGTTGCCAAACCAATGCATACAACAGTGGAGATATGCATAATTATTGCATTAATTATGGCAACTG
TGAGTTACCTGTTGAATCCTCCAACCAAGGATCATTACCTTTTCATAATTACTCAAAGTGAATAATTCTAATAA
ACGTCGTAGGTTTTTCAGGAACAGCAGTGTATGAAAACCTCAAAGAGAATCTTCATCCAGCAAAACAGTTGTCCA
ACAACCAATTAGTGAATCATTTTTTATCACTAGTGAGGCAGGAGAGCTCAAACACAGATAGCCTATTAGCATCTAT
TAGCCTTTTAAATGATAAAGATGGAACTTTAAAGCAAAATCTGAAATGAAGAACAGTATGTTTTAGAAAAAGG
ACAAAACATTGATGGACAAAACCTGTACAGTAATGAAAATCAAATTTAGAGTGTGCGACTGAAAAATCTAAATG
GGAAGACTTTTCTAATGTGATTACCTATGATGCCTAGAATCACATCTGTTTTCTCTCTCCAGAGCCAACAGGC
ATCAGAATTTCTGCCACCTGAAGTAAACCAATTGCTTCAGGATGTATTGAAAATAAAACCTGATGTAAACAAGA
CTCTAGTAACACTCCAAATAAAGGCTTGCCACTTCATTGTGACCAGTCATTTCAAAAACACGAGAGAGAAGGCAA
AATTGTTGAATCTTCGAAAGATTTCAAAGTGCAAGGCATCTTCCAGTTCACCTGGCAGTGTGGGTATTATGT
GCCTACAAATGATTTGAATTTGAAATTTGGAAGAAAAACAAGTGTATCAATACCACAAGATGTGAGAGATTC
AGAGAAGATGCCTAGAATTTAGGTTTTGGCACATTACTTAAGACTCAGTCAGATGCGATAATAACACAGCAGCT
TGTAAGAGACAACTACGAGCCACCACACAAAATTTAGGTTCTTTTATATGCAGAGTCCACTTTTAAATTCAGA
ACAAAAAATACTATAATTGTTTCAGACTTCAAAGGATTCTTAATACCATTGAACATTACTAACAAGCCTGGGCT
ACCAGTTATTCTCGGAAATGCACCTTCATTGGTTAATTCACAAGGTATCCCTGCTTCTCTTTTGTAAACAAGAA
ACCTGGGATGGTTTTTAACACTTAATAATGGGAAACTTGAAGGTGTTCCGCTGTCAAAACCGAGGGTGCCCCAGC
TCGTGGAAGTGTGACTAAGGAGCCTTGCAAAACACCTATTTTGAAGGTAGAACCACAAATAATTGTCTTACACC
TGGACTTTGTTCCAGCATTGGCAGTTGTTTGAAGCATGAAAAGTAGCTCAGAAAATACTTTGCCATTAAAAGGCC
TTACATTTTGAACCAACGAGTTCTGTGAAAGCTGTTCTTATTCCTAACATGCTATCTGAGCAACAGAGCACTAA
GTTGAATATCTCCGATTAGTAAACAGCAGAATGAGATTTTCCAAAACCACTCTTTATACCTTCTTGCTGTA
TGGCAACAAGCTGTTTTTTTAAAGTGTGTGATGCCAAATAAACTGAGCTGCTTAAGCCCAAATTAGTCCAAAA

5222/5332
FIGURE 4528B

TAGTACTTATCAAAATATACAGCCAAAGAAACCTGAAGGAACACCACAAAGAATATTGCTGAAAATTTTAAACCC
TGTTTTAAATGTGACTGCTGCTAATAATCTGTCAAGCAACTCTGCATCCTCATTGCAAAAAGACAACGTACC
ATCTAATCAGATTATAGGAGGAGAGCAGAAAGAGCCAGAATCTAGAGATGCCTTACCCTTCTTACTAGATGACTT
AATGCCAGCAAATGAAATTGTGATAACTTCTACTGCAACATGCCAGAATCTTCTGAGGAACCAATATGTGTCAG
TGACTGTTTCAGAGTCCAGGGTATTAAGGTGTAAACAAATGTAGAATTGAGAGGAACCTCAATAGAAAAAAGAC
TTCCAAAAAAATTTTTTCAAAAACAAAACTCATGGAAGTAAAGACTCTGAAACTGCCTTTGTATCTAGAAACAG
AACTGTAAACGAAAGTGTAGGGATAGTTACCAAGAACCTCCAAGAAGAAAAGCAACATTGCATAGAAAGTGTA
AGAAAAGGCAAAACCTGAAGATGTCCGTGAAACATTGGATTAGCAGACCTAGGCTTTCAAAAGATTCCATCAG
AACTTTGCGGCTTTTCCCTTTTAGTTCTAAACAGCTTGTGAAATGTCTAGGAGAAACCAACCAGTTGTAGTTTTG
AATCATCCTGACGCAGATGCACCAGAAGTAGTAAGTGAATGAAAACCTATTGCTAAATTTAATGGACATGTACTT
AAGGTTTCATTGTCAAAAAGAACTATAAATGCTTTACTGAAACCAGTTTGTATAACCCTCCTAAAACAACCTTAT
GATGATTTTTCCAAGAGGCACAAAACATTTAAACCTGTTAGTTCTGTGAAAGAAAGATTTGTGCTAAATTAACA
CTCAAAAAGACAAGCAAAAACAATTACCAGATTGTGAAGACTACCTCTGAAAATATTTTGAAGGCTAAATTTAAC
TGTTGGTTTTGTGGTAGAGTATTTGACAATCAGGATACTTGGGCTGGTCATGGGCAGAGACATTTAATGGAAGCT
ACTCGGATTGGAACATGTTAGAATAGTTTACCATAATTACCAAGGAAAAGAAAAGTAAAATTACCTTAGAAGAA
AACACGGGTTTCAGTTACCATAATGCAGACATTTTCTACTTCAGTATAGTACCTGAAATCGAACATTTTAAAGT
TGATTGTATTTCTGTGGAAGAGTAAAAGTTGTATGTATGATATTTGAAAATGCTATCCCTGCACCTCAAAAGTTTT
GAAAGAACTAATCACAGCACAGAAGTACCTTGATTAAATTTTTTAAACGTGTTCTCGGGAAGTTAGGGCTAAAG
AAAATTTTGATAAAACAATTTTCCCACCTTTAGTTCTTTAGTGACTCTTAGTAGAGGGTAATGGCTGACACC¹CCA
TTCCCTCTCTTCTTCCACCAGCCTTATGCATCTAAGTGTAGCTCCTCTGGAGATGGAGAGCTCTTTCATCGTAGA
ACTGAAGGAGTTTTCTCACATTTGTGAAGATACTTTGAGAGAACCTGGGTAAAGAAGTCACTCTATATCTGCTAAA
TATAGTTATTTTGAAGGATATTAGGCTCCTTGAAAGTACATTTAACTCACTACAGTTACACCTCATACAATGCTT
GAAGAGTTTTTGGCAAGTAAATTTTTTTCCAGTTGAACTCTGTCACTTGTTAGAGATTGGGAACACTCTCCCAA
GGTGATTTTCTTTTTCTAAGTGACTGTGTCAAATGTTGCAGTAGATGGGCAGCTTCAAGAGAAGAATTTAAACTC
TTTGCTCTCATTGAAAGTTTGGTTAAAGAACCTGAACATATTTCTAAATTTGATTATATTCTCTGATGATCCCTTT
GCACAGAACTATGCTTATCTCATGTTTGTCTCCATAAAACAAATGGCCATTTTTTTCTTCTTGGTTCCCATCCCT
TTAAAAAGAGTGGAACATAGGAGCACTTCCAAGGGAGTGGCTTTTCTTGAAAATTAAAATTGTTTACCAAAACAG
TATTTTGAAGCAAGATCATATTTTGTCTGTATTCACTTTATTATTTGAACATGTCCAAATTAGGACAAAGCATT
TCTGTTAGCTGCTTCTCAGTGTGACTGACAACCCAAAACATATATACAGATTGTTGGCATTGCAAAAGGAAGCA
TCAATAGTGGAACCCAGAGGCAGTGCATAAAACCTTAGGATAGATTCCTAAGGGACATGCCAACAGAGTTTTAAA
ATGGATGTTTTCATGATGACAACAGAATCATAGATTAGATTTTTCACCTTGTAAGTTTGGATCAAATTTTGCTG
GTTCTTTGGATAATGGAGTTCTTGTGTTAACAAATTACGTGCTATATGATTTTTTGTACATTGTTACAAGTGTT
AATGACATTTTCATTAATGGATGAAAACCTCAGGGCTTCTTTCTGTATATAACAAATTAAGTCTGTACATATTT
TTGTACCTTTTATGTAAATTTTGCACAGAAATTTTGGCATAAGTTTATTTTCTTTCAGTTTAGTTCAAGTGCATG
CACTAATAAAACTGGTTGTTTAAATTTAAAGGAATATATAAGACTTTACCCATGTTATTTTCTTGGTTTTTATTT
CAGATGTAGATTTTGTTTTTGAGGTAAATTCGTTCTTCAGGGATTGAACACTATTGTTAGCAAGTGCCTAAAAAA
GATGTGAAACAGTTTACATATGTCAACTGTACAGTAGGTCCCAAAATGGGCCATTCCCTAATAGTTTATTTT
TAAAGAAAGCCATACATAGAATGCTTCAAGCTATCTTGCTATGCACATTATACTTGACTGTTTTGTGCAGTTTG
TCTACTTTCTTAGTGAAGTATTTTTTGTATAAAATGTTACAATTGTGTTTCTTAAATTGAGCCTAAGAATGGAGT
TAATTGGAAATATACAGTATATATTAATAATGTACATGGTGTAAAGAATGGTAAGCATTGTTAATTTCTGTAA
TGAACATTTTCAATTAAATTTATCTTGTTTGTTTT

5223/5332
FIGURE 4529

ATGGAAGATTCGATGGACATGGACGCCGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAG
TTATCCTTAAGAACGCCAACAGTTTCCCTTGGGGTCTTTGAAATAACACCACCAGTGCTTTTATGGTTGAAGTGT
GGTTCAGGGCCAGTGCATATTAGTGGACAGCATTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAG
GAGGAGGATGTGAAACTCTTAAGGATATCTGGAAAATTAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAAACT
CGTAAACACCAAAAGGGCCTAGTTCTGTAGAAGACATTAAATCAAAAATGCAAGCAAGTATAGAAAAAGGTGGT
TCTCTTCCCAAATGGAGGAAGTCTCTTTAG

5224/5332
FIGURE 4530

GCAGCCTGCACTCTCAGAAATCAGACTTGAGTGGCCGGAACCCCTTGAGACCAGAGGCTTACCATGCTGCTCCCTA
GGAGGGCCAGGAACCTGCTGACGTGACCACTGGACAGTTATTTCGTGTCTCTTACAATTACCAAACAGAAATGGACAA
GCTTAATAAAATAACCGTCCCCGCCAGTCAGAAAGTTGAGGCAGCTTCAAAGATGGTCCATGATATTAAAAACAA
TGAAGGTGGAATAATGAATAAAATCAAAAAGCTAAAAGTCAAAGCACCTCCAAGTGTTCCTCGAAGGGACTACGC
TTCAGAGAGCCCTGCTGACGAAGAGGAGCAGTGGTCCGATGACTTTGACAGCGACTATGAAAATCCAGATGAGCA
CTCGGACTCAGAGATGTACGTGATGCCCCGCCGAGGAGAACGCTGATGACAGCTACGAGCCGCCTCCAGTAGAGCA
GGAAACCAGGCCGTTTACCCAGCCCTGCCCTTCGCCAGAGGCGAGTATATAGACAATCGATCAAGCCAGAGGCA
TTCCCCACCCCTTCAGCAAGACACTTCCAGTAAGCCAGCTGGCCTTCAGAGAAAGCAAGGCTCACCTCCACCCCT
GCCGGCCCTGACTGCTTTGCAGAAACCTCAAGTCCCACCCAAACCCAAAGGCCTCCTTGAGGATGAGGCTGATTA
TGTGGTCCCCGTGGAAGATAATGATGAAAACCTATATTCATCCACAGAAAGCAGTTCACCTCCACCTGAAAAAGC
TCCCATGGTGAATAGATCAACCAAGCCAAATTCTCAACGCCCGCCTCTCCTCCAGGAACAGCTTCAGGTCGAAA
CAGTGGGGCCTGGGAAACCAAGTCACCTCCACCAGCTGCACCATCCCCGTTGCCACGGGCCGGGAAAAAACCAAC
GACACCACTGAAGACAACCTCCAGTTGCCTCTCAACAGAATGCTTCAAGTGTTTGTGAAGAAAAACCTATACCTGC
TGAACGCCACCGAGGGTCAAGTCACAGACAAGAAGCTGTGCAGTCACCAGTGTTCCTCCTGCCAGAAACAAAT
CCACCAAAAACCCATACCTCTGCCAAGATTTACAGAAGGGGGAACCCAACTGTGGATGGGCCCTTACCCAGCTT
TTCATCTAATTCACCTATTTTCAAGACAGGAAGCTGGCGTTCTCTGCAAGCCATGGTATGCTGGAGCCTGTGATCG
AAAGTCTGCTGAAGAGGCATTGCACAGATCAAACAAGGATGGATCATTTCTTATTTCGGAAGGCTCTGGCCATGA
TTCCAAACAACCATATACACTAGTTGTATTCTTTAATAAGCGAGTATATAATATTCTGTGCGATTTATTGAAGC
AACAAAACAATATGCCTTGGGCAGAAAGAAAAATGGTGAAGAGTACTTTGGAAGTGTTGCTGAAATCATCAGGAA
TCATCAACATAGTCCTTTGGTTCTTATTGACAGTCAGAATAACACAAAAGATTCCACCAGACTGAAGTATGCAGT
TAAAGTTTCAATAAAGGGGGAAGAAAAAGATCAATACCATTGCTTCAGACACTTCCCAAAGTTTCTCCTTTTGAG
AAAAAGTCCCAAACTTCATATTTTGGATTATGAATCATCCAGTAATAAAATGGAAGATGGAGTCAGCTATTGAA
GTGGTCATCCATTTCTTTTTAAGAAGCTCATGTGGACTTGTTCTATTGCCTGACCTGATGAACTGTTAATATCTG
GTGAGGTTGAGTTATCATGCTACTAATATTTCCAAATAAATATTTTTATTTTT

5225/5332
FIGURE 4531

GTGAGATGACATCAAAACCCCTTCGTGTAGGAGGGTGGCAGTCTCCCTCCCTTCTGGAGACACCACCAGATGGGCC
AGCCAGAGGCAGCAGCAGCCTCTTCCCATGGATCCACCACGAGCGTCCCACTTGAGCCCTCGGAAGAAGAGACCC
CGGCAGACGGGTGCCTTGATGGCTCCTCTCCTCAAGACATCAAATTTCAAGATTTGGTCGTCTTCATTTTGGAG
AAGAAAATGGGAACCAACCGCAGAGCGTTCCCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGTTGAAAATGAG
CTCAGTGATTCTGTACCCACATCGTAGCAGAGAACAACCTCGGGTTCCGATGTTCTGGAGTGGCTTCAAGCACAG
AAAGTACAAGTCAGCTCACAACCAGAGCTCCTCGATGTCTCTGGCTGATCGAATGCATAAGAGCAGGGAACCG
GTGGAAATGACAGGAAAAACACCAGCTTGTTGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCCGAAG
ACTCCACCAATTGCTGTACAAAAGATCTCCAGTATGCGTGTGAGAGAAGAACCACCTTTAAACAACCTGTAACCAG
ATATTCACGGATGCCTTTGATATACTGGCTGAAAACCTGTGAGTTTAGAGAAAATGAAGACTCCTGTGTGACATTT
ATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTACAAATCATCAGTATGAAGGACACAGAAGGAATTCCTGTC
CTGGGGTCCAAGGTGAAGGGTATCATAGAGGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTA
AATGATGAACGATATCAATCCTTCAA^ΔCTCTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAGAAGTGG
TTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAGGTCGGACAAAAGCCTGAAATTTACACGAATGCAGAAAGCA
GGATTTCTGTATTATGAAGACCTTGTGAGCTGTGTGACCAGGGCAGAAGCAGAGGCCGTGAGTGTGCTGGTTAAA
GAGGCTGTCTGGGCATTTCTTCCGGATGCTTTCTGTCACCATGACAGGAGGGTTCCGGAGGGGTAAGAAGATGGGG
CATGATGTAGATTTTTTAATTACCAGCCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGATGAAC
TTATGGGAAAAGAAGGGATTACTTTTATATTATGACCTTGTGGAGTCAACATTTGAAAAGCTCAGGTTGCCTAGC
AGGAAGGTTGATGCTTTGGATCATTTTCAAAGTGCTTTCTGATTTTCAAATTGCCTCGTCAAAGAGTGGACAGT
GACCAGTCCAGCTGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCCCTACGAGCGT
CGTGCCTTTGCCCTGTTGGGATGGACTGGCTCCCGGTTTGAGAGAGACCTCCGGCGCTATGCCACACATGAGCGG
AAGATGATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAAAGCAGAAAGTGAAGAAGAA
ATTTTTGCGCATCTGGGATTGGATTATATTGAACCGTGGGAAAGAAATGCCTAGGAAAGTGTGTCAACATTTTT
TTCCTATTCTTTTCAAGTTAAATAAATTATGCTTCATATTAGTAAAAAGATGCCATAGGAGAGTTTGGGGTTATTT
AGGTCTTATTGAAATGCAGATTGCTACTAGAAATAAATAACTTTGGAAACATGGGAAGGTGCCACTGGTAATGGG
TAAGGTTCTAATAGGCCATGTTTATGACTGTTGCATAGAATTCACAATGCATTTTCAAGAGAAATGATGTTGTC
ACTGGTGGCTCATTGAGGAAGCTCATCAAAGCCCACCTTGTTCGCAGTGTAGCTGAAATACTGTCTATCTCTAA
TAAAAACAGGAGGAAAC

5226/5332
FIGURE 4532

5227/5332
FIGURE 4533A

ATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGGTTGTTTCTACTCGAAGCAGCAGAACC
TGCCGACGGTGACTTCACCTGGGAACCTGATGGTGGTGCAGCCGGACCGCATTTCGCTGTGGGGCAGAAACCACTG
TCTATGTTATTGTGAGATGTAAGCTGGATGACAGGGTGGCGACAGAAGCAGAGTTTTCTCCTGAGGATTCTCCCT
CTGTAAGGATGGAAGCCAAGGTGGAGAATGAGTACACCAATTCAGTGAAGGCTCCCAACCTTTTCATCTGGGAACG
TTTCTCTGAAGATATATTCTGGAGACTTAGTGGTGTGTGAAACCGTTATCAGCTATTATACTGACATGGAAGAAA
TTGGGAATTTATTGTCCAATGCCGCGAATCCTGTGGAATTCATGTGTGTCAGGCCTTTAAAATTGTGCCCTACAACA
CAGAGACCTTGATAAACTGCTAACC GAATCCCTGAAGAACAATATCCCTGCAAGCGGACTGCACCTCTTTGGAA
TCAACCAGCTGGAAGAAGAAGATATGATGACAAATCAGAGGGATGAAGAGCTGCCACCCCTGTTGCATTTTGCTG
CGAAGTATGGA CTGAAGAACCTCACTGCCTTGTTGCTCACCTGCCAGGAGCCCTGCAGGCGTACAGCGTGGCCA
ACAAGCATGGCCACTACCCCAACACCATCGCTGAGAAACACGGCTTCAGGGACCTGCGGCAGTTCATCGACGAGT
ATGTGGAACCGGTGGACATGCTCAAGAGTCACATTAAGAGGAACTGATGCACGGGGAGGAGGCTGATGCTGTGT
ACGAGTCCATGGCCCCACCTTTCCACAGACCTGCTTATGAAATGCTCGCTCAACCCCGGCTGTGACGAGGATCTCT
ATGAGTCCATGGCTGCCTTTGTCCAGCTGCCACTGAAGACCTCTATGTTGAAATGCTTCAGGCCAGTACATCTA
ACCAATCCCTGGAGATGGTTTTCTCTCGGGCCACTAAGGACTCTATGATCCGCAAGTTTTTAGAAGGCAACAGCA
TGGGAATGACCAATCTGGAGAGAGATCAGTGCCATCTTGGTCAGGAAGAAGATGTTTATCACACGGTGGATGACG
ATGAGGCCTTTTCTGTGGACCTGGCCAGCAGGCCCTGTCCAGTGCCAGACCAGAGACCACTGCTCCTGGTG
CTCACCAGCTGCCTGACAACGAACCATACATTTTTAAAGTTTTTGCAAAAAAGTCAAGAGCGGCCCTGGGAATT
TCTACGTTTCTCAGAGAGCATCAGGAAAGGGCCGCCCGTCAGACCATGGAGGGACAGGCCCCAGTCGAGTATAT
ATGACCCCTTTGCGGGAATGAAAACGCCAGGCCAGCGGCAGCTTATCACCTCCAGGAGCAGGTGAAGCTGGGCA
TTGTCAACGTGGATGAGGCTGTGCTCCACTTCAAAGAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCCCTTC
GTTTCCAGCAGGAAAATCTTAAACGGCTAAGAGACAGCATCA'CCCGAAGACAGAGAGAGAAGCAAAAATCAGGAA
AGCAGACAGACTTGAGATCACGGTCCCAATTCGGCACTCACAGCACCTGCCTGCAAAAGTGGAGTTTGGAGTCT
ATGAGAGTGGCCCCAGGAAAAGTGTCAATCCCCCTAGGACGGAGCTGAGACGAGGAGACTGGAAGAACAGACAGCA
CCTCCAGCACAGCAAGTAGCACAAGTAACCGCTCCAGCACCCGAGCCCTCCTCAGTGTGAGCAGCGGGATGGAAG
GGGACAACGAGGATAATGAAGTCCCTGAGGTTACCAGAAGTCGAGTCCAGGCCCCCAAGTGGATGGGACAC
CCACCATGTCCCTCGAGAGACCCCCAGGGTGCTCCGAGAGCTGCCTCACAGAGGCCCTCCGACCAGGGAGACCT
TCCATCCTCCTCCACCTGTTCCACCCAGAGGACCGTGATCCACCTCCTAAAACCTGCCTACTTCAGGACTTTAA
GACTCACAGTCTTCAGCCTGTTAATGATGTCTTCATGTTGAGTTTTATAGCATGACTGTTGACCTTAAGATCCAT
TCTCATTGCTGATAATGCTCGAGCCCTGCTGGTTTGGGCTTGCCCTCGAAGATTTTATTAAGGCACGAAGAAGTGA
AAAATTAAGGGCTTCATTACCATCACCAAGTATATCGAACCATAACTTGTTTGCCAAAAGGATGAAGACTTAA
TCGAAATACCTTACCTTAATTTGCCATATCAGAAGCCTAAAAAGAAATGATCATAAATGTACTTCACCAGTGATTT
TACTGAAATGCACCTATATATTAGTCTTTATGTATTTGCTAGTTTCCAGCTGATTTCTAGAAGAGGTTATAGTGTGAG
ACTTGTAGTATTCAAGTAAGATAAGTGACCTAATTTTAAATAATTCTTCTACTTTTCTGTATATTTCAGCAGGGT
ATTTAAGTGCTAGGGCTGGTCACACACAACCAACTGAAAAGACTAGAGGGATTAGTACAAACTCCTCTTATACA
GAAGGCAAATCTGAGGTTCCACAGAAGTCTGGAACCAAGACTATTGAGTTGGTTAAATAAGAGGTTAGTCTAGA
CTGGGCCTGCTCATTCTAGGTCACCACATTTTCCATCTCCAAATAGCCAGGCCCTCTCTCCCTCAAGAAATGCCC
AGATGTAGAAATTCATCAGTGCCATTGGTCTTCCAGAATTTTCCATCTCCGTATCTCCAGGCATGAGACTAC
CAAGTTTGTGTTTCTTTTCCAATTTGGGAATTTATACTTCAGTATGGTTTCAACGCAGTTATGTTTCCAGAGA
ACATCTAGAAGTGGCTGGAAACCAGAAGCTGGGGATTCCAGGGACCCCACTTAGTGCTCTATTTCTTTTATAGGT
TTTATTTCTGGTCATAGAGAGAGAAGGACCTTTGACTTTTTCTTCGTTGAGGCTTCTGAGGAGGAAAAACAAACC
TAAAATAGAAATACAGTCAGCCTTTCAAATCCATGGGTCTGTGTCCGTGGATTCAACCAACCTTGATCAAAAA
TATTTGAAAAAAATCTACAAAGTTTCAAAAAGCAAACTTGAATTTGCTGCATGCCAAGAAGTATGTTGAATTC
ATGTAAATGAAGTGATGTGTAGGCATTGTATTAGATATTATAAGAAATCTAGAAATGATTTAAAGCATACAGGAG
GATGTGCATAGGTTATATGCAAATACTATGCTATTTTATATATGGGACTTGAGCATTGTGGATTTTGATACTGG
GGGATCCTGGAACCAATCCCCATGGATACCAAAGTACGACTGTAGTTATCTATTTTACATACTTATTATTAC
CACCATGCTCAGTAAGTCCATTTTGCATGGAATATGGAGCCTTAAACATGTGATGAATTTGGAGTCCCTGGCA
CATAAATCTACCTTCAAATCAGAGGTCCTTAATGATGCCTAAACATACAGTAAATTAGAATCAGAAATACTTCT
TTAAAAAATATTCAAATGTGTTTGTTCCTATCCCATGGGATTATTCTCTATCCACACGAATGAAAAAATCCACAT

5228/5332
FIGURE 4533B

TAATGATCCATTTAAGTATAGTTTTATTGGGTCCTTTTCTAATGATTAAAGGTTCTTCTCAATTTCAATTCCTCA
GTCCTGCAAGTAAGGACTCATACTGAAGAGTACTGAAACAAGGACTTCTTGTGAGAAACAGCTTCTGGAATCTTG
GGTTTTGTTTTGTTTTTTGACAAAATACACTATTGGCCATGTCCATCACGAGAGTGTGTTAGTAATTAATTAC
CTTGTACAGGACCTGGCACTTAGTAGCATTCTTCAAATGTTCCCTCAGTGATCCTTTTACTCTCCTTGTCACCTTA
TTTGGGAGAAATAGGGGCACGTGAGATAAGAAGAAGAATAATTTTGATGTTGGTATGCTTGCCCTGTTACTTATA
GACAGTCTTTGTCATAGGCAAACCTGAATTTGATTTAAATAGGGCTGGGAAAAATATCAATAACTGTAAGCCC
CCTTTTGGATGCCAAACTTAGAATTTGTACATTCTCTGATGAACAAGCATTAGATCGTAACATGGTAAAGCCT
ATTACCAGCCAATGTTGTTAGCATCTTTGTATGCACATCACTGTTTGTGCAATATATGAATATTTTGTTCATTG
TATTCTTATATAAAAATAAGTAGAAAACATAAAATTGAAATTGCTGATGAGAAGCCTTGTCTCGTGAATGTGATA
CACTTGAGACACGGATGGAACCTGATCAGGAGTGCCAAGTCAAAGCAGCAGATCTTAAGCCCTCACTGGTTGTTC
CTTTAACATCCAAAATGGTTGGTTATATGTAAAAGAAGAAAATGAAATAATCTGGATGAAACACTGGGACTGTGT
TATCAAAGAATGTCTGTAGTGATGAGGTGAAAATTTTCATTTTCCAGAAACAGAACTGCTCATTATATAACATAAA
TATATTCAACTTCCACA

5229/5332
FIGURE 4534

CGAAGATGGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCGCCTGGCGGCCATCGTGG
CTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACA
GAAACAAGTTGAAGTACCTGGCTTTCCCTCCGCAAGCGGATGAACACCAACCCTTCCCGAGTCCCCTACCACTTCC
GGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAGCGAGGCCAGGCCGCTC
TGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGGTTCCTGCTGCCC
TCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGT
ACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGC
TCATGAGGCTACGGAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCC
ACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAA

5230/5332
FIGURE 4535

AGACTATCTTTCTAGACAAGGCAGTTGAGGAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTGCACTCCGCAC
CTCGGGGACATTATTGCGCGTGGAACGGCTGCTTTTGGAAGGCACAACCTTCCTGAATGGACCATGACTCCCACCA
AAGATCCCTGTCTCTGATTACCAAACAGCTTCAACCCTGAAACCAGGACGAGAAGTTGACAACATCTGAGTGGA
CAGCTAATTGACCTAAGACTTCAGACCAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTACAAGCCAAAGAT
GTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCTCCAGTTCTCGATTCACTGACAGTAAACGCTA
TGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGCTGCT
TGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACC
CAGTCTAAAGACTACATTGAAACCAAGAAAGTGAAGTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAG
TAAACTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAGTACCACCTCAAGTGCCTCCCCAGCTCAATC
TCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTT
TTCTTTTTTAGATCTCACTTACTGGAAAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGCCGTTTTGGGGA
AGTCTCATTGACACACATCTCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCTGAGAAGCCAGAGGAGCA
GGGGCCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGAAGTGGTTTTTATGTAGAAGGGGAACAAAAA
AATATCTGAATTTTGAAAAACCACAAAGCTACAACTGACCCTCTTTTTTTTTTGTAGACGGAGTTTTGCTCTTGT
TACCCAGGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTGATTCTCTG
CCTCAGCCTCCCAAGTAGCTGGGTTTTAGGTGCCCGCCACCAGACCCGGCTAATTTTTTAGTTTTAGTAGAGAC
GGGGTTTTACCACGTTGGCCAGGCTGGTCTTAAATGACCCTCTTATTTTTAACTGGATACCTGCTATTCTGCCA
AAAGACAATTTCTAGAGTAGTTTTGAATGGGTGATTTCCTCCACTCCACAACTCTGAAGCCAGTGTCTAGCT
TACTAAAAAAGAGTTGTATATAATTTAAGATGCTGAGTATTTTCATAGGAAAGCTGAATGCTGCTGTAAAGTG
CTCTTTAAGTCTTTTTTTTTTTTAAATCCCTTCTAATGAATGAACTAGGGGAATTTACAGGGGACAGAGATGGGA
TTTGTGTATGATAAACTGTATGTAGTTTTTAGTCTTCTGTTTTGAGAAGCAGTGGTTGGGGCATTTTAAGAT
GGCTGGCTACTCTTGTTTTCCCTCATGATAATAAATTTGTCATACTCAGTAACATGAAGTGGCCCTAGAGGTA
GTTGTTAATAATTTTGAAATATTAAGGTCTTGCCAGCTTCTGATGATTACACCTGTACTACTGATTATTAAGC
AGGACAGACTGAGCTTTCTGTTGCAATACCTTGGAGGAGAAAGTAATTTCTAAATATACAGAGAGGTAAGTGA
CTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATTTTGATAAAGATTTTAAATTTATGTAAACTTCTAAA
GCAGAATCAAAGCTCCTTCTGGGGAAATGGCAAGTCTTAGGATAGGCAAGACCCTGTATGAATAGTACCAAAGC
ATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAATGTGCAAGTCTTCAGG
ATGGCACAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGA
CTTTGTTTGTGTTACATGACTTCTGTGACTTCATTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTC
AGTTGACCTTTGTGAAGGTTTTTATCTGTGTAGAAATGGGTGTTTGACTTGTTTTAGCCTATTAAATTTTATTTT
CTTCACTCTGTATTAAGTAAACTTACTAAAAAGAAAGAGGTTTGTGTTACATTAAATGGTTTTGGTTTTGG
CTTCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACTTAGAGCTTTCAATCCTAAGATTTTCATGAAA
AGCCTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTACAGGAAAAGCATTGCCAGTT
CAGTCTTTTCAAAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTTATTTTTTAACTGC
ATTTTAAAAATTTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTC
TTAATCTAAACATTTTATATTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATA
CAGTGAGTTGAGTTGGCTCTCCACAGTCTTTGAGGTGAATTACAAAAGTCCAGCCATTATCATCTCTCTGAGTT
ATTTGAAATGATTTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTA
CTTCTGTATTTATTTATTTACTAGACCTCAACCACAGTCTTCTTTTCCCTTCCACCTCTCTTTGCCTGTA
GGATGTACTGTATGTAGTCATGCACTTTGTATTAATATATAGAAATCTACAGATCTGTTTTGTACTTTTTATAC
TGTTGGATACTTATAATCAAACTTTTACTAGGGTATTGAATAAATCTAGTCTTACTAGAAAATAAAA

5231/5332
FIGURE 4536

CTTTCCCAAGCGGCTGGCGAAGACGGCAGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGCGAAGGCATCAACATT
TCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTCGCTTTCTCCGCAAGCGGATGAACACCAACTCTTACCGA
GGCTCCTACCACTTCCGGGCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAG
CGAGGCCAGGCCGCTCTGGACCGCTCAAGGTGTTTGATGGCATCCACCGCCCTACGACAAGAAAAAGCGGATG
GTGGTTCCTGTTGCCCTCAAGGTTGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCAC
GAGTTTGGCTGGAAGTACCAGGCAGGGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTAC
GGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACA
GAGGTCCTCAAGACCCACGGCCTCCTGATCTGAGCCCAATAAAGACTGTTAATTCCTCA

5232/5332
FIGURE 4537A

ATGCTCTATATGCAGTATGTTCTGCTGATTCCCTCTGTTCTACAAGAAGGCTCTTTGGATAAAGCTTGTGCCAG
CTTTTAAATCTCACTGAATCTGTTGTTTTGACGGTCTCCCTCAACTATGGTGAGGTCCAGACCAAAATATTTGAA
GAAAATGTTACTGGAGAAAATTTCTTCAAATGCATCAGCTTTGAGGTTCTCAGGCCAGATCTGACCCACTGGCA
TTTATTACATTTTCTGCTAAAGGAGCCACTCTCAACCTGGAAGAGAGGAGATCTGTGGCAATCAGATCCAGAGAG
AATGTGGTCTTTGTACAGACTGATAAACCCACCTACAAGCCTGGACAGAAAGCATGCAAAAATACACTTTCTTAT
TCTCAGGATCCAGAAGGCAATCGAATACAACAGTGGGTGAATGAGGAGTCTGTGGGAGGGATTCTACAACCTCTCC
TTCCAGTTAATCTCAGAGCCCATCCTCGGATGGTATGAAATCACCGTGGAGATGCTCAATGAGAAGAAAACATAT
CACTCCTTCTCTGTGGAAGAATATGTGTTACCCAAATTTCAAATGACTGTGGATGCACCAGAAAATATCTTAGTT
GTGGACTCTGAATTCAAAGTGAATGTCTGTGCCTTATATACCTATGGTGAACCTGTGGACGGGAAGGTCCAACCT
AGTGTGTGCAGAGAATCTACGGCTTATCATTCATGTGCTCATCTTATCAGTTCACCTCTGTAAAAATTTTACCATT
CAGATTAAATTGCTTAATCCAGACAACTCTCCAATCCCAAATGAAGTTGTTCAAGTTGCATCTGAAGGACAAAATC
GTGGGAAACTACACCACAGATGTAATGGCATCGCTCAGTTTTTCTTGGACACATATACGTTTACATACCCAAAT
ATCACTTTGAAAGCAGCCTACAAGGCCAATGAAAATTGCCAGGCTCATGGCTGGGTGTTGCCTCAATACCCTCAG
CCCGAGTACTTTGCATATCGATTTTACTCCAAGATGAATAGCTTCTTAAAGATTGTCCAAGAGATGGAAGAAGCTG
AGATGCAACCAGCAGAAGAGGGTGTAGTGCATCTGCATTCTCAATATGGAAGACTTTGAAGACAAAACCTACACA
GCAGACTTCAATTATTTGGTGATTTCAAAAGGTGTAATCATTCTTCATGGGCAACAGAAAATTGAGATCAACGAA
AATGGGAGGAAGGGCATATTTTCCATTTCTATAGACATTAACCTGAATTAGCGCCCTCAGTACATATGCTTGTC
TATAGCTTGCACTCTGGAGGAGAAATGGTCAACTTAAATTTTTCTAAAGAAAAAAGTTTACCAGGATCCAATGTC
GATCTTCAAGTCTCGGCTGCTTCAAACCTCTCTTTATGCTCTTTGGGCGGTAGACCAGAGGGTATTGCTACTAAGG
AATTATGGTCAGCTGCCAGCACAACTGTGTATAGTCAGCTACATTCCAGCGAATACATGGCTATTATTTTCAGA
GGACTTAACTTAGAAGATGGCCTTAAAGTGCCGTGTCTTGAAGATGGACATATCCTTTACAATGGAATTTATTAC
ACACCTGCATGGGCTGACTTTGGAAAAAGATGGCTATGACCTTGTGAAGGATCCTCAAAAACAATCGGATTTTTCAA
TGGCAAAATGTGACTTCTTTCCGAAATATTACCCAACTCTCGTTCCAAGTATTTCAGAACCAATGTTTGGAGAT
TACTGGATTGTTGTGAAAAGAACTCAAGGAAGACAGTGACACACCAATTTGCTGTGTTAAAAGATATGTGCTGCC
AAGTTTGAAGTTACGGTCAATGCACCACAAACAGTAACTATTTTCAAGTATGAAATCCAAGTGGATGTATGTGCT
AAGTACACCTTTGGCCAACCTGTGCAAGGGAAAACCCAAATCCGGGTGTGCAGAGAGTATTTTTCTTCAAGCAAT
TGTGAGAAAAATGACAATGAAATATGTGAGCAATTTATTGCACAGCTTAAATTTTCGGATCCCAATAATGTACCT
ATGGTGAACAAGTTGTTGCACTGGAGCTCAATGATGAATTTATAGGAAATTATACTACGGACGAGAATGGCGAA
GCTCAATTTTCCATTGACACTTCAGACATATTTGATCCAGAGTTCAACCTAAAAGCCACATATGTTTCGACCTAAG
AGCTGCTATCTTCCAGCTGGTTGACGCCTCAGTACTTGGATGCTCACTTCTTAGTCTCAGCTTTTACTCCCGA
ACGAACAGCTTCTGAAAGATTGTTCCAGAACCAAGCAGCTTGAATGTAATCACCAGAAGGTTGTTACTGTGCAT
TACTCCCTAAACAGTGAAGCATATGAGGATGATTCCAATGTAAAGTTCTTCTATTGATGATGGTAAAAGGAGCT
ATCTTACTCAGTGGACAAAAGGAAATCAGAAACAAAGCCTGGAATGGAACTTCTCGTTCCTCAGCATCAGT
GCTGATCTGGCTCCTGCAGCGTCTGTTTGTCTACACCCTTCACCCAGTGGGGAAATTGTGGCTGACAGTGTG
AGATCCAGGTTGACAAGTGCTTTAAACACAAGGTTAACAATAAAGTTCTCTAACGAGCAGGGCTTACCTGGTTCC
AATGCTAGTCTCTATCTTCAAGCGCGCCTGTCTTATTCTGTGCCCTCGGGGCTGTGGATGGGAACGTCCTTCTA
CTGAAATCTGAACAACAGCTGTGAGCTGAAAGTAGGGATATGTTCTACAATGGTTTATATTACACACCTGTAAGC
AACTATGGGGATGGAGATATCTATAATATTGTGAGGAACATGGGTCTCAAAGTCTTTACCAATCTCCATTACCGA
AAACCAGAAGTATGTGTGATGGAGAGAAGGCTGCCACTCCCTAAGCCGCTTTATCTAGAAACAGAAAATTATGGT
CCAATGCATAGTGTTCGGTCTAGAATTGCATCTAGTGAATCAGAGGGGAGAAATGCTGACTATGTAGAACAGGCT
ATAATTCAAACAGTAAGAACAACTTCCAGAGACATGGATGTGGGACCTCGTCAGTGTGCGATTCTCAGGCTCT
GCCAATCTTTTCTTCTCATTCTGATACGATAACCCAAATGGGAGGCAAGTGGCTTTTGTGTGAATGGCGACGTT
GGATTTGGCATTTCCTCTACAACCACTCTAGAAGTCTCCCAACCTTTCTTTATTGAAATTGCCCTACCCCTTTTCG
GTTGTTCAAATGAACAATTTGATTTGATTGTCAATGCCTTCAGCTACCTGAATACATGTGTAGAGATTTCTGTT
CAAGTGGAGGAGTCTCAGAATTATGAAGCAAATATTAATACCTGGAAAATCAATGGCAGTGAGGTTATTCAAGCT
GGAGGGAGGAAAACAACATCTGGACTATTATACCTAAGAAATTGGGTGCCAAAGCCTCCAAGCAGGGAGTTTTG
GACTTGCCAAATGATGTAGTAGAAGGGTCAGCCAGAGGCTTTTTCTACTGTTGTGGGGGATATTCTAGGACTTGCC
ATGCAGAATCTGGTTGTTCTCCAAATGCCCTATGGAGGTGGAGAGCAGAATGCTGCCCTACTAGCATCTGATACT

5233/5332
FIGURE 4537B

TATGTTCTGGACTATCTGAAATCTACTGAGCAACTGACAGAGGAAGTTCAATCTAAGGCTTTCTTTCTTTATCT
AATGGTTATCAAAGGCAATTATCTTTCAAAAACCTCTGATGGTTCCCTATAGTGTTTGGCAGCAGAATCAGAAA
GGAAGCATATGGCTCAGTGCTCTTACTTTTAAGACATTGGAGAGAATGAAAAAATTTGTATTCAATTGATGAAAAAT
GTTCAAAAACAGACCTTAATCTGGCTTTCAAGCCAACAGAAAAACAAGCGGCTGCTTTAAGAATGATGGCCAGCTT
TTCAACCACGCCTGGGAGTTTCTGCTCTACGAAACGCACTCTTTTGCCTTGAAGCGGCATTGGACAGTGGTGTC
ACTAATGGCTACAATCATGCAATTCTAGCTTATGCTTTTGCCTTAGCTGGAAAAGAGAAGCAAGTGGAACTTTTA
CTCCAAACCCTGGATCAATCTGCCACAAAATAAATAATGTCATCTACTGGGAAAGAGAAAGGAAACCCCAAGACA
GAAGAATTTCCATCCTTTATTCCCTGGGCACCTTCTGCTCAGACTGAGAAGAGTTGCTATGTGCTGTTGGCTGTC
ATTTCCCGGAAAATTCTGACCTCACCTATGCTAGTAAGATTGTGCAGTGGCTTGCCCAACAGATGAATTTCCAT
GGAGGCTTTTCTTCCAACCAGACACCTGATGATACTCTGTTCAAATTATATACGGGCCAAAAAGAAAGCTTTTCGC
TCTAGTTCTGTGGGCTATACACTGGGAAAAGCAAATGAAAAGAAGGAAAACAGGAGAAATGGGGGAGCCGGTGGG
GAAGAGTGGCTEGCTCTCAGTCCCCGCCTCGCGGGCGGTGCTCCCCACACTTCGATGGGGTTCCCAAGAGCCGG
GGGGAGCCAGGCGGGGAAGAGGGGCTCTTCTCTAAGAATCAAACACTGTCACCTTTAGCAGTGAAGGATCCAGT
GAGATCCAGTTTAACGGTCATAACCGCCTACTGGTCCAACGTTTCAAGTAACACAGGCACCTGGACAATACACA
GTAGATGTGGAAGGACGCGGTTGTACATTTATCCAGGCCACCTTAAGTACAATGTTCTCCTACCTAAGAAGGCA
TCTGGATTTTCTCTTTCTTGGAAATAGTAAAGAACTACTCTTTGACTGTTTTTGACCTCACAGTGAACCTCAAA
TACACTGGAATTGCAATAAATCCAGTATGGTGGTTATAGATGTAAAAATGCTATCAGGATTTACTCCAACCATG
TCATCCATTGAAGAGGAGAAGCTGAAGTCCTTCTGCTGTGTGTGAGCGCCAAGCTGGAGCCCAAGGATGACATG
GAGGAGCGCTTGGGGGGTCTCCCCAGGTCTCCATGCTGCTCGTCAACATCAGAGAGATCCTGTGTAGCAGAAAA
TGGAGTCGCAGGGTATACAAGAAGTCTGTCTTCCAGACGGACTGGCTGGTGCTGTAACAAAGACCCATGTGATG
CTGGGGGTAGAGACAGATAAACTGTTTCACTGCCCCCTGTGCCATCAGTGAGAGAGCAGCTGGAGCAGAAGGTGGAG
AGGGAGGGGCGAGCATCACCACTCTGCCCTGGCACCAGGCTCAAGTCGCTCAAGCCCAGTGAGCTGGGTGTTAGG
ATGGCAGCCAGGCTCCCTGCTCAGTCACCTCCTTCCCTAGGCACCCACACTTTCTCCATTTCCTACTTCTTACC
TATAAGATGGCAGGTTAA

5234/5332
FIGURE 4538A

CTGAGGGGACCCGCCAGTTTCTAACTCAGTGGCGTTTGCCCTGATTCCCGGGGCCTGGCTTTTCAGCGTAGCAATT
CTGCCGGCGAAGAAGGTGAGCGCAGTGTGTGTGGCAGCAGAGCTCCTTAGGACGAGGAGCAGCGGGACGAGGAA
GGGCAGACTGGTGAAATCGCAAACCTGGGCGTCTGTTCCGGCGCCGACCCCTATTTGCAAAGGTCCATGGCTAAT
GAAACACAGAAGGTTGGTGCCATCCATTTTCTTTTCCCTTCACACCCTATTCCATCCAGGAAGACTTCATGGCA
GAGCTGTACCGGGTTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACTGGCACTGGGAAGTCCTTAAGT
CTTATTTGTGGGGCCCTCTCTTGCTCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGCACGACTCCTTGAA
ACTGGAACTGGCCCCCTTACATGATGAGAAAGATGAATCCCTGTGTCTGTCTTCTTCTGCGAAGGGGCTGCAGGC
ACCCCGAGGCCTGCTGGAGAACC GGCTGGGTTACTCAGTTTGTGCAGAAGAAAGAAGAGAGGGACCTGGTGAC
CGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGAGAAGAAGCGCTGCAGCAGCTGCAGCACAGGGTGCAGCTC
AAGTATGCAGCCAAGCGCTGAGGCAGGAAGAAGAAGAAAGAGAGAATCTCCTCCGCTCAGCAGGGAGATGCTA
GAGACAGGCCCGGAGGCTGAGCGGCTGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAG
AGTGATGAGGAGAAAAAGGTGGCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAG
ATTTATTACTGTAGTCGGACACACTCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAG
GATGTTCCGGCTGGTCTCCCTTGCTCCCGGCAGAACCTTTGTGTAAATGAAGACGTGAAAAGCCTAGGTTCTGTG
CAGCTTATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAG
CCAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGAT
GAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGAAGGAGGCGCCGGGCTGTCCCTATTAC
GGGAGCCGCTTGCCATCCCTGCAGCCAGCTGGTGGTGTCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGG
CAGGCCGCGGGCATCCGGCTGCAGGACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACG
GGCATGCACAGCGTGGAGGTGAGCGCTCCAGCTCTGCCAGGCCATTCCAGCTGCTGCAGTACGTGGAGCGA
TACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACCTGAAGCAGATCCTGTATTTGCTGGAGAAATTCGTGGCT
GTGCTAGGGGGGAACATTAAGCAAATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATC
AACGACTTTCTCTTCCAGAGCCAGATCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATG
ATCAGCAGAAAGCTCTTTGGATTCACTGAACGGTACGGAGCAGTGTTCTCATCCCGGAGCAGCCAACTGGCT
GGGTTTCAGCAATTCCTGCAGAGCCTGCAGCCCAGGACGACTGAAGCTCTTGAGCCCTGCAGACGAGAGTCAG
GCCAGCACCTTGCAGACCAGCTTCTCCACTGATGCACATCCAAGGCTTCTGGCAGCTCTCACTACGGCCAACCAG
GACGGCAGGGTCATCCTGAGCCGCCAAGGCAGCTCAGTCAGAGCACCTGAAGTTTTTGCTCCTGAATCCAGCT
GTGCACTTTGCCCAAGTGGTGAAGGAATGCCGGGCGAGTGGTCATTGCGGGGGTACCATGCAGCCGGTGTCTGAC
TTCCGGCAGCAGCTGCTGGCCTGTGCCGGGTGGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACAGTGATC
CCTCCAGACAACATCCTGCCCTCGTCATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCAGTTCCAGAAA
AGAGAGCTGCCTCAGATGATGGACGAGGTGGTTCGATTCTCTGTAACCTGTGCGGTGTGGTTCTGGAGGGGTG
GTCTGTTTCTTCCCTCCTACGAGTACCTGCGCCAGGTCCATGCCACTGGGAGAAGGGTGGCCTGCTGGGCCGT
CTGGCTGCCAGGAAGAAGATATTCCAGGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCATATTCC
AGGTGCATCCAGGCCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTGCTCCTCTCTGTGGTTGGAGGAAAG
ATGAGTGAAGGGATCAACTTCTCTGACAACCTAGGCCGGTGTGTGGTGTGTTGGGCATGCCCTTCCCCAACATC
AGGTCTGCAGAGCTGCAGGAGAAGATGGCCTACTTGGATCAAACCTCAGCCCCCGCCAGGCACCCCAAGGAA
GGCTCTGGTGGAGAACCTGTGCATGAAGGCCGTCAACAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATTT
TGCCAGCGTAGTGCTCCTGGACCAGCGATATGCCCGGCCCCCTGTCTGGCCAAGCTGCCGGCCTGGATCCGAGC
CCGTGTGGAGTCAAAGCTACCTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACCAGGAGAAAGTGGCCCTC
TTCTGATGGGCAACCACACCACTGCCTGGCGCGTGGCCCTTCTTTGCTGCCCGCTGGAGACAGTGTGTGTC
GTGGCGTGGTCTGCGGGGATCCTGTTACAAAGGTGAAACCCAGGAGAGAGTGTGGAGTCCAGAGTGTGCCAG
GACCCAGGCACAGGCGTTAGCTCCCGTAGGAGAAAATGGGGAAATCCTGAATGAACAGTGGGTCTGGCTGTCTC
TGGGGCGTTCCAGGCGAGCTCCCTCTGGAAATAGAATCTTTCTTCCATCCTGCATGGCTGAGAGCCAGGCTTC
CTTCTGGTCTCCGAGGAGGCTGTGGCAGCTGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTCTTAAG
AGGCGAGATGGAGCAGGCCATCTGCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTTC
TGGTCTCAATTTAAATGATCCATGGCCACAGGGCTCTGCCAGGGGCTTGTACCTTCCCTCCTCTTCTG
AGTCACTCCTTCAGTAGAAGGCCCTGCTCCCTATCCTGTCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCG
TGCCAGTTCTCCAAGTCTATGGCACCTCCCTCCCTCTCAACCACTTGAGCAAACCTCCAAGACACCTTCTACCC

5235/5332
FIGURE 4538B

AACACCAGCAATTATGCCAAGGGCCGTTAGGCTCTCAACATGACTATAGAGACCCCGTGCATCACGGAGACCTT
TGTTCCCTGTGGGAAAATATCCCTCCCACCTGCAACAGCTGCCCCTGCTGACTGCGCCTGTCTTCTCCCTCTGACC
CCAGAGAAAGGGGCTGTGGTCAGCTGGGATCTTCTGCCACCATCAGGGACAAACGGGGGCAGGAGGAAAGTCACT
GATGCCCAGATGTTTGCATCCTGCACAGCTATAGGTCCTTAAATAAAAGTGTGCTGTTGGTT

5236/5332
FIGURE 4539

AAAACAACTACGGCTGCGGTGTGGTTGGTGGTGAGATGACGACCTTAGTGCTGGATAATGGAGCTTACAACGCCA
AAATCGGTTACAGCCATGAAAATGTGTCGGTTATTCCCTAATTGTCAGTTCCGGTCAAAAACAGCACGCTTAAAA
CTTTTACTGCCAACAGATAGATGAAATAAAAGACCCTTCTGGACTCTTTTACATCCTCCCTTTTCAAAAGGGCT
ACTTGGTGAATTGGGATGTTTCAAGAGACAAGTTTGGGATTACCTTTTGGAAAAGAAATGTATCAGGTTGATTTT
TAGATACTAATATTATTATCACTGAACCATACTTTAACTTCACTTCAATTCAAGAATCAATGAATGAAATTCTAT
TTGAAGAATACCAGTTTCAAGCAGTATTAAGAGTAAATGCTGGGGCTCTCAGTGCACATAGGTATTTCCGAGATA
ATCCTTCCGAATTATGCTGTATCATTGTTGATAGTGGATATTCCTTTACACATATAGTTCCTTATTGTAGAAGTA
AAAAGAAAAAGAAGCAATTATTCGGATAAATGTGGGAGGAAAACCTTAACCAATCATCTAAAGGAGATCATAT
CTTACAGGCAGCTACATGTTATGGATGAAACACATGTGATTAATCAAGTGAAAGAAGATGTATGCTATGTGTCTC
AGGATTTTTATAGAGACATGGATATTGCAAAGTTGAAAGGAGAAGAAAATACAGTAATGATAGACTATGTCTTGC
CTGACTTCAGTACAATTAAAAAGGGCTTTTGTAAAGCCAAGGGAAGAGATGGTGTGAGTGGAAAATACAAATCTG
GGGAACAAATCTTCGTTTGGCCAATGAGAGATTTGCTGTTCGGGAAATACTCTTTAATCCTTCTGATATAGGCA
TTCAAGAAATGGGAATTCAGAAGCTATTGTCTATTCAATTCAAAATCTACCTGAAGAAATGCAGCCGCATTTTT
TTAAGAAATTTGCTTGACAGGAGGAAATTCCTTTTCCAGGATTTAGGGATCGGGTTTACTCAGAAGTTCGAT
GTCTTACTCCAACAGATTATGATGTTTCTGTTGTGCTGCCTGAAAACCTATTACTTATGCCTGGGAAGGTGGAA
AATTGATATCAGAGAATGATGATTTTGAAGATATGGTGGTAACAAGAGAAGATTACGAAGAAAATGGACATAGCG
TCTGTGAAGAGAAATTTGATATTTAAGCAACATTTTGAATGAAAGTTGTGACCATAAGGTTTAATTTCAAAGTT
CCTTTTAAAGAGGTTAAGGAACGTGTGTTACCTTTTGTCTAAGAAAAAGGCTTGAATTTATGTAATACTTTGA
TCGATTGCTAATTTTCAAAGGCTTCTTAGGTAGGTTACTACAGTAAACTGTAACCTCAGTCCACATTTTCATTTAG
GAGCTAGACTACCATAACAATGCCTATGCTGTTTCCAAGGTTAGGTTATTTTTTATTAAAGAAGAATGAATGCA
TTTTAAGTTTAATTTCTTCATAGCTGAAAGCACAAATTTAACGGCTTCACTGGACAGTTTTCCTTAGAAGGTAGTT
TTGTGTGACTGTGACTAAACTATTTTATTTTAAATGTCATTCTTATTTATACATTCTAAAGTTGGAAAGACTGA
TCTTATATGTGTATAATGTTTATTTTGTACCTAGAGTACATTTAAAGGGTGGAGACTAAGCTAATAAAGTTTTT
TTGGCC

5237/5332
FIGURE 4540A

GGAGGATATGGAGTAAAGCCAGAGTCAGTGGCCAGGCACGAAGGCAGAGCAGGAACAGCCAGGAGGCGTTTATTA
GGGGGGCGGGGGGAAAGAGCCCCAGCACCGCCCCCTCTGGAAGAAAGGAAGAGGTAACATACTACCCAATATTG
CAGCCATGGAGTCCATGCTTAATAAATTGAAGAGTACTGTTACAAAAGTAACAGCTGATGTCAGTGTCTGTAA
TGGGAAATCCTGTCTAGAGAATTTGATGTTGGTCGACACATTGCCAGTGGTGGCAATGGGCTAGCTTGGGAAGA
TTTTAATGGCACAAAAAGTCAACAAAGCAGGAAGTGGCAGTTTTTGTCTTTGATAAAAACTGATTGACAAGT
ATCAAAAATTTGAAAAGGATCAAATCATTGATTCTCTAAAACGAGGAGTCCAACAGTTAACTCGGCTTCGACACC
CTCGACTTCTTACTGTCCAGCATCCTTTAGAAGAATCCAGGGATTGCTTGGCATTGTTGTACAGAACCAAGTTTTTG
CCAGTTTAGCCAATGTTCTTGGTAACTGGGAAAACTACCTTCCCCTATATCTCCAGACATTAAGGATTATAAAC
TTTATGATGTAGAAACCAAATATGGTTTGCTTCAGGTTTCTGAAGGATTGTCATTCTTGCATAGCAGTGTGAAAA
TGGTGCATGGAAATATCACTCCTGAAAATATAATTTGAATAAAAGTGGAGCCTGGAAAATAATGGGTTTTGATT
TTTGTGTATCATCAACCAATCCTTCTGAACAAGAGCCTAAATTTCTTGTAAAGAATGGGACCCAAATTTACCTT
CATTGTGTCTTCCAAATCCTGAATATTTGGCTCCTGAATACATACTTTCTGTGAGCTGTGAAACAGCCAGTGATA
TGTATTCTTTAGGAAGTGTATGTATGCTGATTTAATAAAGGGAAACCTATATTTGAAGTCAACAAGCAAGATA
TTTACAAGAGTTTCAGTAGGCAGTTGGATCAGTTGAGTCGTTTAGGATCTAGTTCAGTTACAAATATACCTGAGG
AAGTTCGTGAACATGTAAAGCTACTGTTAAATGTAACCTCCGACTGTAAGACCAGATGCAGATCAAATGACAAAGA
TTCCCTTCTTTGATGATGTTGGTGCAGTAACACTGCAATATTTTGATACCTTATTCCAAAGAGATAATCTTCAGA
AATCACAGTTTTTCAAAGGACTGCCAAAGTTCTACCAAACTGCCCAAGCGTGTATTGTGCAGAGAATTTTGC
CTTGTGTTGACTTCAGAAATTTGTAAACCTGACATGGTACCTTTTTGTTTTGCCCAATGTTCTACTTATTGCTGAGG
AATGCACCAAAGAAGAATATGTCAAATTAATCTTCTGAACTTGGCCCTGTGTTTAAGCAGCAGGAGCCAATCC
AGATTTTGTTAATTTTCTACAAAAATGGATTTGCTACTAACCAAAACCCCTCCTGATGAGATAAAGAACAGTG
TTCTACCCATGGTTTTACAGAGCACTAGAAGCTCCTTCCATTGATCCAGGAGCTCTGTCTAAACATCATTCCAA
CCTTTGCAAATCTTATAGACTACCCATCCATGAAAAACGCTTTGATACCAAGAATTAATAATGCTTGTCTACAAA
CATCTTCCCTTGCGGTTTCGTGTAAATTCATTAGTGTGCTTAGGAAAGATTTTGGAACTCTGGATAAGTGGTTTG
TACTTGATGATATCCTACCTTCTTACAACAAATTCATCCAAGGAACCTGCGGTCCTCATGGGAATTTTAGGTA
TTTACAAATGTACTTTTACTCATAAGAAGTTGGGAATCACCAAGAGCAGCTGGCCGGAAAAGTGTGCTCATC
TTATTTCCCTGAGTATTGAAAACAATCTTAATCTTAATCAGTTCAATTTCTTCAATTTCCGTCATAAAAGAAATGC
TTAATAGATTGGAGTCTGAACATAAGACTAAACTGGAGCAACTTCATATAATGCAAGAACAGCAGAAATCTTTGG
ATATAGGAAATCAAATGAATGTTTCTGAGGAGATGAAAGTTACAAATATTGGGAATCAGCAAAATGACAAAGTTT
TTAACAACATTGGAGCAGACCTTCTGACTGGCAGTGAGTCCGAAAATAAAGAGGACGGGTACAGAATAAACATA
AAAGAGCATCACTTACACTTGAAGAAAAACAAAAATTAGCAAAAGAACAAAGAGCAGGCACAGAACTGAAAAGCC
AGCAGCCTCTTAAACCCCAAGTGCACACACCTGTTGCTACTGTTAAACAGACTAAGGACTTGACAGACACACTGA
TGGATAATATGTATCCTTGACCAGCCTTTCTGTTAGTACCCCTAAATCTTCTGCTTCAAGTACTTTCACTTCTG
TTCCTTCCATGGGCATTGGTATGATGTTTTCTACACCAACTGATAATACAAAGAGAAATTTGACAAATGGCCTAA
ATGCCAATATGGGCTTTTCACTTCAAGATTCAACATGCCCCGTTAATACAAACCAGAACTTCTACAGTAGTCCAA
GCACAGTTGGAGTGACCAAGATGACTCTGGGAACACCTCCCACTTTGCCAACTTCAATGCTTTGAGTGTTCCTC
CTGCTGGTGCAAAGCAGACCCAAACAAAGACCCACAGATATGCTGCCCCTTAATAATCTCTTTGGCCCTCAGAAAC
CCAAAGTTAGCATGAACCAAGTTATCACAACAGAAACCAATCAGTGGCTTAATCAGTTTGTACCTCCTCAAGGTT
CTCCAATATGGGCAAGTTTCACTAATGGGGACACAGATGAACGTGATAGGACAATCTGCTTTTGGTATGCAGGGTA
ATCCTTTCTTTAACCACAGAACTTTGCACAGCCACCAACTACTATGACCAATAGCAGTTCAGCTAGCAATGATT
TAAAGATCTTTTTGGGTGAGGTTGCTTACTTCTATTTTGAAGGATTATTTTCACTTCAATCATGGGTGAGCTGA
TTTACATCTTTATATAGTTGGCTTGAGGAAGTACTTCTATGGGAAAGTGAACAGTTCTGTGACAGGAAACATCT
CTGTCCATGCCAGCATAGTAGTTGTATGGACTTCTAACCAGTTGAGTTTTTTAAAGCATTGAGGATTTTTCTC
TTACCAACTCCTCTTCAGGTTTTTAAAGACCCAGCCCTTCCCAATCTCAAAGAGAAAAAGGAACTGAGTTATCT
TGAATAACATAACTTTTTAATCAAATGTTTATTTTGGCTTGTGGATCTTGGTGTATTTAAAAAATTGAGGTGAT
GGTCATTGCAAGCTCATCTATTAAGTACTATATGGTACACAGTCTATGAGTCATTAGTCTTCATTTTAATATGTA
AAAAATCTTGATGCTGTATTGATTGTTTGCATTTAAGATGACAGTGAGAAAATGATAAGCATAAAGAGAAGTAT
CAGGTTATTTGCTTTTTTCCAACTTTTTCAGATGAACTATTGTTTAGTACAGAGACTGAGCAAACTACAAAATT
CAACTTAACCTTCATTTTATTGGTTTAAATGCGTTATTAACCATCTTAAGTGCAACTAATCATTGTAAATTATA

5238/5332

FIGURE 4540B

TTT TAGCATGGTCTGCCTCAAATAGTAATGTATTTTCTGCATTCACTTGGATATATTTAGAATCACTTTTTTCC
TCCTGTATCAAGGAAGAGGTATGTGCTGATTGTGTTGGATATTTGACAAGGCACTCTGATGTGACTTCCCTGACT
ACTACCTTCATATTTCAATTCAAATTCAACTTCTGAGGTTGCAGCATATATGAATTGCATTTTCAAAGAAGAT
TTGTAAGAATTAACTATATTTATGAGTAACTTTTGAGGTTTCTGCTGTATTGTTCAAATGTAATAAACTTTA
CTTCTGT

5239/5332
FIGURE 4541

GGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAGATTCTAAAGCAGTTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTAGCTGCAGTAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAATGGAGCTTTATATTGTGTTTGTCATAAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCTGATGCGAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCAGATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTTGAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGGTATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATGATGCGGAGGTTCTGGGGGAATCAAAGAGAAATGTGCCTCATTTGCCATTTGAGAAAAATGCAGTCTGGTGTATTCAGTAATATATAGTAAAGTAATAATGATAAAATATCTTTTCATATATTAGAATGTGTACTTTTATATAAAAGTAATTCTGGATTTGACATTCTCATTTAGAGAAACCTATTTCTTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCAAAGCCATACATATTCAGTAGAACATCAATAAATTACATCAGAAATTCAACACTTTATTATAAAACGGGCTTCGTGTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGACAGGCTAGCATTTTCAATTTACAAATTTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTTGTGTGTCTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAAATGTGCATGGCTTTCCT

5240/5332
FIGURE 4542

GGTTAAGAGAGACGCGCGCGCAGTCGCGCGCGGGTCTGTGCCGTACCACCGTCGCGGGCAGGCTCGGCCACGAGCG
CCAGAGCCCCGCGCCTECCCTCGCGGCCTGTCCCAAGTCCCTGCCCGCAACAGAGCGTCACTTCCGCCATCCCC
GGCAGCGGTTGGGGCGGGGCGCACGGGGGAGGGGGCCAGGTCGGAGGGAAGCCCGCCCGTGCCCGAGCCCGCGCC
CGAGCAGGGACTACATTTCCCGAGGGGCCTCGGCGGCGGCTGCGGCGACGGGCGCGGCAACGTCCCCCGGAAGTG
GAGCCCGGGACTTCCACTCGTGCCTGAGGCGAGAGGAGCCGGAGACGAGACCAGAGGCCGAACCTCGGGTTCTGAC
AAGATGCGCCGGGCTGCCCCGAGGATCATCAAGGAAACCCAGCGTTTGCTGGCAGAACCAGTTCCCTGGCATCAA
GCCGAACCAGATGAGAGCAACGCCCGTTATTTTCATGTGGTCATTGCTGGCCCTCAGGATCCCCCTTTGAGGGA
GGGACTTTTAAACTTGAACATTCTTCCAGAAGAATACCAATGGCAGCCCTAAAGTACGTTTCATGACCAA
ATTTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTTGAAAGATAAGTGGTCCCCAGCACTG
CAGATCCGCACAGTTCTGCTATCGATCCAGGCCTTGTTAAGTGCTCCCAATCCAGATGATCCATTAGCAAATGAT
GTAGCGGAGCAGTGGAAGACCAACGAAGCCCAAGCCATAGAAACAGCTAGAGCATGGACTAGGCTATATGCCATG
AATAATATTTAAATTGATACGATCATCAAGTGTCATCACTTCTCCTGTTCTGCCAAGACTTCCTCCTCTTTGTT
TGCATTTAATGGACACAGTCTTAGAAACATTACAGAATAAAAAAGCCCAGACATCTTCAGTCCCTTGGTGATTAA
ATGCACATTAGCAAATCTATGTCTTGCTGATTCACTGTCTATAAAGCATGAGCAGAGGCTAGAAGTATCATCTG
GATTGTTGTGAAACGTTTAAAGCAGTGCCCCCTCCCTGCTTTTATTCATTTCCCCCATCCTGGTTTAAGTATAA
AGCACTGTGAATGAAGGTAGTTGTCAGGTTAGCTGCAGGGGTGTGGGTGTTTTATTTTATTTTATTTTATTTA
TTTTTGAGGGGGGAGGTAGTTTAAATTTATGGGCTCCTTTCCCCCTTTTTTGGTGATCTAATTGCATTGGTTAAA
AGCAGCTAACCAGGTCTTTAGAATATGCTCTAGCCAAGTCTAACTTTATTTAGACGCTGTAGATGGACAAGCTTG
ATTGTTGGAACCAAAATGGGAACATTAAACAAACATCACAGCCCTCACTAATAACATTGCTGTCAAGTGTAGATT
CCCCCTTCAAAAAAGCTTGTGACCATTTGTATGGCTTGTCTGGAACTTCTGTAAATCTTATGTTTTAGTAA
AATATTTTTTGTATTCTA

5241/5332
FIGURE 4543A

GCCGCGGTGCTGCTGCTCAGTGGGAGCGGGTCTTCGCAACTGTCTCCGCGTGGCGCGCGCCTCTAGCCGCCCTTC
CCCTGGCGGCTACGGCCGGAGGGAGCGAGGCGAGCGGGAGTCGGGCTCCATGGAGAGCGGGCGGACAACCTGGGCA
GAGGCGGAGCTTTCATCTCGGCACCTTGTTCCAGTGACCCGCGCTAGCGTCCCGTCCCCGCCGCGTGGAGCGG
CCGCCGGCCCCGGGACTGACCGGCCCTCGCCGACCTCCCGACCGACTAGCGCTCCCGGGCGCTCCTGCGCCCCGA
CTCGCCCTCGCCCCACTCCCCGGCGGGGTGGCGGCGGCCGGGCCCCACGGCGGCGGCCGGAGCAGCAGCAGCA
GCAGCAGGAGCCCCGCTCTATGATGAAGTTCAAGCCCAACCAGACGCGGACCTACGACCGCGAGGGCTTCAAGAA
GCGGGCGGCGTGCCTGTGCTTCCGGAGCGAGCAGGAGGACGAGGTGCTGCTGGTGAGTAGCAGCCGGTACCCAGA
CCAGTGGATTGTCCAGGAGGAGGAATGGAACCCGAGGAGGAACCTGGCGGTGCTGCCGTGAGGGAAGTTTATGA
GGAGGCTGGAGTCAAAGGAAAACCTAGGCAGACTTCTGGGCATATTTGAGAACCAAGACCGAAAGCACAGAACA
TGTTTATGTTCTAACAGTCACTGAAATATTAGAAGATTGGGAAGATTCTGTTAATATTGGAAGGAAGAGAGAGTG
GTTCAAAGTAGAAGATGCTATCAAAGTTCTCCAGTGTCTATAACCTGTACATGCAGAGTATCTGGAAAAGCTAAA
GCTGGGTTGTTCCCGAGCCAATGGAATTTCTACAGTCCCTTCCCTTCCGGATAATAATGCCTTGTTTGTAACCGC
TGCACAGACCTCTGGGTTGCCATCTAGTGTAAGATAGAGAGAAGTGGGTAGGCCTCTCCACCATGTGCAGTCTC
ATGGGGAGAGGCTTCTTTCGTTTCCCTCGTCAAACATCTGATTGACGCTTGCAAACCTGTCTGAATTTGCCATGCAA
GGTTTTCAAACAATTTGCATGTTTTTCAGATGCTTTCAAATCTTTTTTTAAAAAATAGTGTAATAATTTTTAAT
AAGCCAAAGCCATGTGGAATTTTTGTTTAGATGCCTTAACTGTGCCACACCCCAACCCCTATATTATTTTGG
TTGTCTATTTCTCACAGCATATTTTCAGTTTTTGTCCATTTGACATCAGTCTGTGGTTATTTTGTCTCAGAT
TACTTGTGGGTATACCTACCCCAAATTTGTTTTCTCATTACAGCATTAGCATATTCAGCAAATCCATCTGTGGT
GGGAATTAATAATATTATTGGTATTAAAGAAATCCATTACCCCAAACTTGTTTACAGGAATTACAATTTAAT
TCAAATTTCCAGATTTGGGCTATTTCTGTATGATCCAATAACTTATTTTGTACAGGGCTTAATTTGCCATTTT
TGGGGATTTGTGACTCATTTTGTCTGAATTTTCAAACTGGTATTATGTCACTAGCTACCTGATACGGCTATTT
CCCTTATAACTCAATAGTACCTTAACACAAAGTATAACTCTGTAGAGTTGGTGAATATTTTAGGGAAATATTAGC
AAAATGCATGTAGTAAAGACATCTTATGAAAACCTGTATTTCATGGAATTTGATTTAGCATGCTCAGTTGCCAGTTC
CCATTATCGATACTCTTTCTTTCAGAATACCTTAGAACCGTTATTTCCCTCAGTGTAGATTGCTCTTAAATGT
ATTCAGTTATTTAGTGGCCCCACAGGAGTGGAGTCTTGAATCTAATTCTAAATGCCAGTCACTGATGATCGCA
TCACAGTTGAGTGAATGGCCTTCTGTTCAGCTGTTAGAGACTGAAGATTGTTAGGGCACCTTAGAATGTCTCA
TCTTTTCTAGGTTGTCAACAGGTACTATTTGTACATAACTAACTTTTCGAGGCACCTGGAACATACCTGAACCTAAG
AATTAAATCTTTTACTTTTATACTCACTTAAATCAAGAATCCCATCTAAACACATAGGTACCTTATCTGAAACT
CTTGCACCTTCCCCAACAGGGCAGAAATGAGGTGGGAGAAAGTTTGACTAAATGAGGGATGGGGGAAAGTAAAG
ATGTTTTTTTTTTTTTGGAGACTCGCTTTGTCAACCCAGGCTGGAGTGCAATGGCACAACTCTCAACTCACCGCAACC
TCCGCCTCCCGGGTTCAAGCGATTCTCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGGCGCCTGCCTCCATG
CCTGGCTAATTTTGTATTTTGTAGAGACAGGGTTTCTTCATGTTGGTCAGGCTGGTCTCAAACCTCCTAACCTC
GTGATCCGCCTGCCTCGACCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCAGCCAAAGATCATTT
TTTTATATAGACTTCAGCCCTTTGTAATATTGTAACCTGGGAGTATAGAGTAGAAAAAAGTATAGTTAAACA
TTTGTCTACAAATTAACCTTTAAAAATATAATTACTGCTAAAAATAGAGTGCTGTTACACTTAAGGAAAATTAG
TGCCATTTTGGAATGAGATCTTGTGCCATAAATACAGCTGAACCTGAATATAAATGTTACAAATTAATGCTGTC
AAAGGAATGAGTAAAGCAGAAAACTTTTAACCAGCAACATTTCAAGTACGTAGTGTGATCAACATGATCATCC
AGAATTTTTATATTTTTTTCTTTGTACAGAGGTTACATATTCTGGGTGTTCTTTTATAAAGGAAACATTTTAAAT
CCCACAAATTGACACTTTCTATCTTCAATGGACTAAGATTTTTTGGTCAGTAATCTCTGAAATTTCCCTTAAAT
ATATACTTAACATAGCAGAGAACTGGATTGTTTTGTATATAAGACTGCTTCCACCTGAAATGCTGTCTAAGT
ACTGGGGGGGTGGGGGAGTGCCCATCTTGTACATGATATTCTTAGAGGTAATAAGGTAATGATGCATGAATTTAT
TTTATAAACTCTTGGACTATGATTTGACATGTAAAATATGTACAGTATTAACGTCAACCATCTCTTAAAGTTA
GCCTATAAATATTGTTGTATAATTTCTTTGGTCAGAAACACTTGGACTGAATAGTGACACTCGGTAAGGATTTT
CAGTGCCATTTAGCAAAACGTCTTTAGTCTATGCAACTAGCAAAAATCTGCATAATGCAACAACACAGTTTTCAC
ACTTCAAATTTTACATGAGGGGTTCTTCACGATTCTCCTGGAACCCAGTCTAGCAAAATGAGAGGAAAGGCCCTA
GGGAGATTTATTTCTGTTAAATAGTTAACTCTGCTGAGTATGACAAATAGTGTCTACTATCTCAACCTCCAAAA
TTTGACAGAGTGTGGGACTGTCAATTTGTGATTTTTTTTTTTTTTTTTTGGTGGGGTAGTTGAATAAATTTGGGCA
GCTAAATTTTTCAGTTCCATGTGCCTCCCAAATAAAAAACAGAAAATAAGTAGTTTTTGTGAATTGACTTGCAGA

5242/5332
FIGURE 4543B

CAAAGTAGAACTGTGCTGCATGATGTTATTTTGTAACAGATGACATTTTCTGACCAGGCACATGCCATCCAAT
TTTCTGTCAATCACACTGTTGTATAAAGCAGCAGAACTGAAGGGGAAAAATGATTGTTGTATACACTGAATTGCT
TTGCATGGTCTCATTGAGATAATTGATGTAAGAATCCTGACTTTTTTATATTTGGAAACATCAATAAAAAATGG
AAAAATGATCATGGCTTTAAAAAAAACAAAAACACACACACATGAACTCAGATTTGCAAACCAGGTTTCTGA
AACTTTGGGTAAGGTGTATGCTTTTAACTTTGAAATGTATAAACACCCAGCGGAAACGTATACCTTTCAGTGCA
AGTGCAATTGTGTGCTTACCCTGGGTTGTTTAACTTGTGTTCAAATATTCCCCCTCCAAGTGAAAGCCTGTCGGG
AATTCACAGTAACACCTTTACTGTTCTCCCATTTGATGATCATATACGTTACCTCTTCCTAGCGGTACATTTGTA
TGATCCTTACTACTGGAATTACCGGGTTAAAAGGAAATGCTTACCCTAAGATGTCAGTATTCTCCTCATGGATA
TTTTAGTCTCAATGTTGCCAGTCTAATAGTATAGTATGTGGTTGCTTTACTGCTGTTCTCCCCACCCCGTGGA
GTTGTGTCATTATTTAATGAATGTGAGCTCTTGACTTACTCTAGAATTCTAATACAGATACTTTCTGCACTAGT
ATCACTTTTATTATTGCAGTTCCATTTAAAAGCATAACTGGCTAAGTCACCGCCCCACCCGCCGATTACATTTT
CTAAAACATACTGCTGCCAAAGACCAACTGTAGAATCCTTAAGTCCTGTTCAAGTGTCACCTTCATTTTTATTAG
GGGTTTCTTAGTTGGAGGGCATGAGAACTTGGCCCTTTCCAATGTTGTCTTCACATTGGAGTATAAGAATTCTC
TATAGGACTCTTTAATTTTTTTTTTTTTTTTGGTAGAGATGGGGTCTTGCTGTGTTGCCAGGCTGGTCTCAA
CTAGGCTTAAGCAGTCCTCCAGCCTCAGCCTTCTCAAAGTGCTAGGATGATTGGCATGAGCCACCTCGTCTGGC
CTGCAGGTCTTTTAAGCATTTGCTGTTCAATAATAAGCATCTTCTTTATGCCTAGTATTTGTGATAAGAGCACA
AAACAA

5243/5332
FIGURE 4544

CAGTGGGTGACCGGGCTGCGAGGGACTTTGTTCATCCGTCCTCCAGGATCTGGGGAGAAAGAGCCCCATCCCTTC
TCTCTCTGCCACCATTTCCGACACCCCGCAGGGACTCGTTTTGGGATTGCGACTGACTTCAAGGAAGGACGCGAA
CCCTTCTCTGACCCAGCTCGGGCGGCCACCTGTCTTTGCCGCGGTGACCCTTCTCTCATGACCCTGCGGTGCCT
TGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGGACCGCGGGGTGCGCGGAGGAGCCATCCCC
GCAGGCGGCGCTCTGGCGAAGGCCCTGCGGGAGCTCGGTCAACAGGATGGTACTGGGGAAGTATGACTGTTAA
TGAAGCCAAAGAGAAATTTAAAGAGGCACCAGAAGGAACCTTTCTTGATTAGAGATAGCTCGCATTGACTACCT
ACTAACAATATCTGTTAAACATCAGCTGGACCAACTAATCTTCGAATCGAATACCAAGACGGAAAATTCAGATT
GGACTCTATCATATGTGTCAAAATCCAAGCTTAAACAATTTGACAGTGTGGTTCATCTGATCGACTACTATGTTCA
GATGTGCAAGGATAAGCGGACAGGTCCAGAAGCCCCCGGAACGGCCTGTTACCTTTATCTGACCAAACCGCT
CTACACGTCAGCACCATCTCTGCAGCATCTCTGTAGGCTCACCATTAAACAAATGTACCGGTGCCATCTGGGGACT
GCCTTTACCAACAAGACTAAAAGATTACTTTGGAAGAATATAAATTCAGGTATAAATGTTTTCTCTTTTAAAC
ATGTCTCACATAGAGTATCTCCGAATGCAGCTATGTAAAGAGAACCAAAACCTTGAGTGCTCTGGATAACTATAT
GGAATGCTTTCTAAGAACAGCTGAAGCTAATCTAATTTAAATTTAACAGCTTGAAGAGGTAGCTAGGTGTTAAA
GTTCCCTCCAGATACTTTTACCTGAGTGATGCTTCCCTTCCTAAGGCTGACCAAGACCTGTTGATCCTTTTAGATT
AAAAATAAAATGTCGCATGTAAAGGCTGAAGTCGCGTTTTATCAGAATGCCTTGCTTCTTAGGTTCTTTTCCAT
TATGTCAAAGGTCCAGGCTCCAGTAGGAGAGAAAGAACTCCTCATAGGAATACTGAAGAAGTGGGAAGGAACCAA
GCTGACACAGGCCTCACTGCAATTTGATATGCCTGCTGATCAGAGTCTCTTGGGCATTTTATATTTTGCATTCTG
ATGTACCTAGGAGTTTTGTTAAACAGATGATGTATGTGAGTATTTATCCCATTTTATGCAATTAACCAAATCAAC
CAAAAAAAGTGACCATGAAGTCCTGTATTTGTCTTTTTACTACATGTAGGAACCTCTCATGTGAATGAGTACTGTA
GTAATCCATTCTATGGGAGCCTTATTTAGAAATATTTCAAACCTGGTGCAATGGAAAAGACTTTCTCTTTTCCCT
TTAAAGCTAAAGACAAGAATATCATGCTATACAGGTGCAACTCAATCCCCGTTAATAAAAACCAATGTAGGTATA
GGCATTCTACCTTTGAAATAGCTGTGTCCCAACCTGTTGCCATTGATTTTTGGAAATGGCTTTAGAAATATCC
AAGTTGTCCTTGAATTGTCTAACCATGGACATAAACAGTTGTCTCCCTTCTACTGTGTAGAATACTTTGACTTAA
TTTTCTTCCAGATACAGGGGGATACCTGCCTGTTTTTCAAAGTGTATTATTACTGCTGTTACTATTTGATTAGAA
TGTATTAAATAAAAAAACCTGATTTCT

5244/5332
FIGURE 4545

GGTGCCGCATCCCCAGCCCCGCCGCCATGGCCGCCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAA
CCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCGCGGCGG
GCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGAGAGCGATCCGGACCCT
CTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCGGCACTA
TGGGGGTCTAACC GGCTCTCAATAAAGCAGAAACTGCTGCAAAGCATGGTGAGGCCAGGTGAAGATCTGGAGGCG
CTCCTATGATGTCCCACCACCTCCGATGGAGCCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGTAGGTA
TGCAGACCTCACAGAAGATCAGCTACCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTG
GAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGG
CATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTTGT
CTATGAATTGGACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGCAAAGC
CATGGAAGCTGTGGCTGCCCAGGGCAAGGCCAAGAAGTGAAGGCCGGCGGGGAGGATACTGTCCCCAGGAGCACC
CTCCCTGCCCGTCTTGTCCCTCTGCCCTCCCACCTGCACATGTACACTGACCACATCTGTAGACATCTTGAGT
TG TAGCTGCAGATGGGGACCAGTGGCTCCCATTTTCATTTTAGCCATTTTGTGCGCTGCACCCACTCCCTTCATA
CAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCCCTTATCCAACAG
AGTTTAAAGTAGTGACTTGGGTTTTTGCGAGTGCTTTGTTTACTAAGGACTTTGGGGAGGAACCATGCTAAGCC
ATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCTCTGCTCTTCTGCAGTCAG
GCCACTGCCTACTGCCITGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACTGCGTGGTGATGTGACAACT
GTTTCCTCCCTGACCCCAGAGGATCTGGCTCTAGGTTGGGATCAATCCTGAATTTTCGTTATGTGTTAATTTACTT
TTATTAAAAAAGTATAGTATATATAAAATAATACAAAACAATAACCCTTCTGGGGTTTCTTGTGGCGGTTGAAATA
GTCCACATGTGGTCATCAGAAAATAAGCCATTCTCATACCAATATAGGATCAGCTCCTTGACCTCTGAGGGGC
AGGAGTGCTTCCTGGTGTGTGATTAGAATCCCTTCCTGCCTTGTTTCATGGCAGTGAAATGCCTCTTGGTCCTG
TCCAAGTGATCTTTCACCTGATTTCTGAATCATGTTCTAGTTGCTTGACCCTGCCACATGGGTCCAGTGTTTCATC
TGAGCATAACTGTACTAAATCCTTTTCCATATCAGTATAATAAAGGAGTGATGTGCAA

5245/5332
FIGURE 4546A

CTGGTTTCTTGCCCTTAAGGAGCCCATTCGCTTTCCCGCTGAAGTCTAGATGTTGACATGTAATAAAGCGGGCAGC
AGGATGGTGGTGGATGCGGCCAACTCCAATGGGCCTTTCCAGCCCGTGGTCCTTCTCCATATTCGAGATGTTCTCT
CCTGCTGATCAAGAGAAGCTTTTTATCCAGAAGTTACGTCAAGTGTGCGTCCTCTTTGACTTTGTTTCTGATCCA
CTAAGTGACCTAAAGTGGAAGGAAGTAAAACGAGCTGCTTTAAGTGAAATGGTAGAATATATCACCCATAATCGG
AATGTGATCACAGAGCCTATTTACCCAGAAGTAGTCCATATGTTTGCAGTTAACATGTTTCGAACATTACCACCT
TCCTCCAATCCTACGGGAGCGGAATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTA
CAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAAGAAATATATT
GATCAGAAGTTTGTATTGCAGCTTTTAGAGCTCTTTGACAGTGAAGATCCTCGGGAGAGAGATTTTCTTAAACC
ACCTTTCACAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAACAGATAAATAATATATTTTAT
AGGTTTATTTATGAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGAAATATTGGGAAGTATAATTAATGGA
TTTGCCTTACCCTAAAAGAAGAGCACAAGATTTCTTATTGAAGGTGTTACTACCTTTGCACAAAGTGAAATCT
CTGAGTGTCTACCATCCCCAGCTGGCATACTGTGTAGTGCAGTTTTTAGAAAAGGACAGCACCTCAGCGAACCA
GTGGTGATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAATGTTCTTAAACGAATTAGAA
GAGATTTTAGATGTCTATTGAACCATCAGAATTTGTGAAGATCATGGAACCCCTCTTCGGCAGTTGGCCAAATGT
GTCTCCAGCCCACACTTCCAGGTGGCAGAGCGAGCTCTCTATTACTGGAATAATGAATACATCATGAGTTTAATC
AGTGACAACGCAGCGAAGATTCTGCCATCATGTTTCTTCTTGTACCGCAACTCAAAGACCCATTGGAACAAG
ACAATACATGGCTTGATATACAACGCCCTGAAGCTCTTCATGGAGATGAACCAAAGCTATTGATGACTGTACA
CAACAGTTCAAAGCAGAGAACTAAAAGAGAAGCTAAAAATGAAAGAACGGGAAGAAGCATGGGTTAAAATAGAA
AATCTAGCCAAAGCCAATCCCCAGTACACAGTGTATAGTCAAGCCAGCACCATGAGCATTCGGTTGCAATGGAG
ACAGATGGGCCTTTATTTGAAGATGTGCAGATGCTGAGAAAGACAGTGAAGGACGAGGCTCATCAGGCACAGAAA
GATCCGAAGAAGGACCGTCTCTTGCACGCCGCAAGTCCGAGCTGCCTCAGGACCCCCACCAAGAAAGCCTTG
GAAGCTCACTGCAGGGCCGATGAGCTGGCTCCCAGGACGGCCGCTAGCCTCCGGGGCGCCGCGTCCGGGGCCGGG
CCCGCCAGTTCTTTTCCGGATTCTGTAGAAAATACATACTTCTGTGCCATACCAATCAGTTACACTCAAAGCTT
TCTTGACCCCGTTCCGTAGGCAATAACGTGCGTCCGCCTCAGCGCGAGATTAGGAGTTCAAACAATGGTGAAGT
CCCAGAGCCCGCTGGCAGAGCCGCGGGTTGACGACGGTGTCTCGCAGTGTGCGCGCCACCCAGCGTAGTCCAA
GTCAGACTATTTACAAAGTCAGAGCGATAGGAAAGCACCTGCCCTTCATCTTCATGTTCTCCCAAATGGAAGT
TAGGATCTTTTAAATAGGTGGTTCTGTGATAACATCAGTGTTTTCCAAATCAAAGGAACGCTTTAAAAATAGG
ACCTATTTTTTAAAGCTTTACAGCCTTTGAAATGGTTTTCCACGTGATTGTTACGCCAGCAGTTCTCGTTTTGTTT
GTTTTTCAATCTCAGTGAATGGCTCTTTGCTTTGAGTTCTCACGCAACGTACTGGGCAAATGACAATCCTCAG
CCGCTGGTATTTTCTAAGGGGTCTCTTCACTTTGATGAGTGACATGAACACCGTGTCTCCTTCTTGTGTGTAC
CTAAAGCCATATTTCCAAGTCTGTGGTACTCCAGGATTCCAGGAGTAAGCCTGTAGAAGAGATTTATTTTAAAG
AGATTGCTCTGAAATTTATCTTAAAGAGCTTGCTCTGTCTACCTTGACAGAAATTGGAGTTTTAAATATATGTG
TTAATATTTTTATTTGCAGATTTTCGTTCCGTCAACTTAAACATTGTTGCCCTTCAACAAGGCTCTTGAATTAAT
AAAATTATAGTCTCTAAGAATTCACATTTTATGAAAAGTTAGAGCAAAATCATTTTGAGTTAAGCCAGTTCTTA
GCCTAATGCAAAGTGCAGCGCCTTTAAGCATAAAGTAACACAACAGCATTGCACGGGGCCGGCACTGCCGCTGCC
TTCAGTGAAGGCTGCAGTGTCTGTGAGAGCTTGAGGAGGCACAGCGAGGATGACGTTTAGTGGAGCTCTTT
CTGTTGAAAAGAGCTCACGTTATCAACACCTTGAAGGAAAATACAGTGTCTGAGTTTTCATCGGTTCTTACATG
CTGCTATATATTTCCACAGAGTTCCCTTGCATGTACTGAGCTTTTGTGTTTAGATGGAATAGCACAAGGAGAAAAATC
TTTAAACTTAGTGCTTTGTCTATTCTTTATTTCTCTCAGGGTGGCCAGTATTTTGACTTATTTATCTGCTTGAA
AGCTACTTGAGATGTGTACTGCTATTCTAAACACGTGATCTAGTTTCTTTTCTCTGCGATAAGATTATATAAC
TTAATGTTAAGTGTCTTGAGGCATAAAAGACAAAATGTGGCTTATTTTAGGATCTGTTTTTTCATCGAGGTCTCG
GGTATCCTTTTCAAAGATAGTGAGAAGCAGACACTGCTCCTTGTGCGCTCTGGTACCTCTGCCACTGCTGTCA
CTTCAAGCCACTGGCAATGCTTCTGTCTCGTGTCTTGAGGAAAATCACCTGGGGGGAGGGGACTTCTTGTGGT
AAGAGCAAGTGCAGGTATGAAATGCGAAGATTGCCCCAGCTAAAAGTGGAACAAGTCCGCTTTGTGAGATGAATAC
TTCCTGAGAACTTGACAAGTATCTCTCCATTTTACCATTATGAAAATCATTTAAAAAAACAGTTTAGATGC
CTTCTCCTTTTGGAGGAAAAAGGGTGTCTTTTATTGTATAAAGCAGCGTCTTATGTATTTTGATATACCATTTGT
TGAAGTCCGCTCTTAGCTGATAGATTCTCAAATATCCTTGATTTTGGATGTTTCAAGTATGTTTGTGAGAGAGGTT
TCTGGGAAGACTCTCTTTTGGCCCTCGGGAAAAAGCAAAATATCAATGTTTGGGTGACTGTGTAAAGCTCAGTGT

5246/5332
FIGURE 4546B

GTAAGAACATCTTTTTGTCTAGGTTTTCTTCTGCTCTTTATTGAAGACAAACACTCACCAAAAAGAAAAATAAA
AGTTTTCAGAGAACTAATTTTCTTTGGCAAGAGTATTACTTAATATTTTGGCCTCCTAAAGTTTCCCTAGTTAG
TACTCGGACTCCTGTGCTAATTGTCAGCTTACATATCATTGTATAGAGACTGTTTATTCTGTACCAAACGATTT
CAAAAGTACTACATTGAAAATAAACCGGTGACTGTTTTCTTCATAAAGTTCTGCGTTTGGCATCTTCACTCTTT
CCAAAATGTATCTGTACATCAGAAATGTCACTATTCCAAGTGCTTTTTAGTGTGGCTTTAGTATGGCTTCCTTT
TAATATTGTACATACATTGTATCTTTGTTTTATGGTAATAAGTAATAAAAATGTAGACTTC

5247/5332
FIGURE 4547

ACACGGGTTTATCTGCATCAATCACGGGAGTACGTTTAATGAATGCCAAACCTATTGGATTAAACCCATAATGA
ATGTCTATGTTGATGTTATAGGAAATGAATTCTTTTTCTTCTTCTCCTTCATCACCGACGTCCCTCTTTGAGCGTG
GAGCGCTCCACCAGCACCGTGTGGACCTGCGGGTCCGAAAGGAACTTGCGCATCTGCTCCAGGGCGCTCTTCTCC
TCCAGCGCCGCTCCAGCGCGGCCGGCGCCTCGCCGCCGTCTCCAGCAGCAGCGGCACCAGCTTGCGCAGGTGC
TTCTGCAGCACCGACACGTCCGCCACATTCTGCACGGCCGACACTTCCAATCCGGCCGAGCCGTCCTCGCCGCCG
CCGCCCCCGGGCTCCGACATGGTGTGCGGCTCGGGACCTTCCAGGAGCGATGAGAAGGCGGCCGC

5248/5332
FIGURE 4548

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTTCGCCCTTTCAGGCAGAAATTGCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTCGGTGTGGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAACAGA
AAGAAAAAGAACACATCAAATTGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAAATGAAGGAGAACCAGAAACATATCTATTATATCAGAGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCATTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTGAGTCACCAAGAAGGCCTGGAACCTCCAGAGGATGAA
GAAGAGAAAAAGAAGCAGGAAGAGAAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTGACAAGCACATATGGC
TGGACAGCAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAACTGAAGAAATGCCACCCCTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

5249/5332
FIGURE 4549

CTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
ATGCAGCCTATTTCGTGCACTAACTGTGCCCCGATGCGTGCCCCAAAGACAAGGCCATTAAAGAAATTCGTCAATTCGA
AACATAGTGGAGTCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTGCATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GGTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

5250/5332
FIGURE 4550

GGCTGGGGAAGATGGCGGTGGCTGGGGCGGTGTCCGGGGAGCCGCTGGTGCACTGGTGCACCCAGCAGTTGCGGA
AGACTTTTCGGCCTGGATGTCAGCGAGGAGATCATTAGTACGTTTTGTCAATTGAGAGTGCTGAAGAGATACGAG
AATATGTTACTGATCTCCTCCAGGGAATGAAGGCAAAAAAGGTCAATTCATAGAAGAACTTATAACCAAATGGC
AAAAGAATGATCAGGAGTTGATTTTCGGATCCTTTGCAGCAGTGCTTCAAAAAAGATGAAATTTTAGATGGGCAGA
AATCAGGCGACCATCTAAAGCGGGGTAGGAAGAAAGGGAGAAACAGACAGGAAGTTCCTGCATTTACTGAACCTG
ACACGACTGCAGAGGTTAAACACCTTTTGATTTGGCCAAAGGCACAAGAGAACAGCAACTCCGTAAAGAAGAAGA
CAAAGTTTGTCAATTTATACACAAGAGAGGGACAGGACAGGCTTGCACTGCTCCCTGGTCGTCACCCCTTGTG
ATTGCCTGGGCCAGAAGCACAAGCTCATCAATACTGTCTGATCTGTGGGCGCATTGTCTGTGAACAAGAAGGCT
CAGGCCCTTGCTTATTCTGTGGCACTCTGGTGTGTAATCATGAGGAACAAGATATTTTACAGCGTGACTCAAAACA
AGAGCCAGAAACTGCTAAAGAACTCATGTCAGGAGTGGAGAATTCTGGAAAGGTGGACATCTCTACCAAGGACC
TTCTTCCTCATCAAGAATTGCGAATTAAGTCTGGTCTGGAGAAGGCTATCAAGCATAAAGACAACTGTTAGAGT
TTGACAGAACTAGTATTTCGAAGGACCCAAGTCATTGATGATGAGTCAGATTACTTTGCCAGTGATTCTAACCAAT
GGTTGTCCAAACTTGAGCGGGAAACCTTGCAAGCGAGAGGAGGAGCTGAGAGAACTTCGACACGCCTCTCGAC
TTTCTAAGAAGGTACCAATTGACTTTGCAGGAAGGAAGATCCTGGAAGAAGAAAATTCCTAGCAGAGTATCATA
GCAGACTAGATGAGACAATACAGGCCATTGCCAATGGAACCTTGAACCAGCCACTGACCAAATTGGATAGATCTT
CTGAAGAGCCTTTGGGAGTTCTGGTAAATCCCAACATGTACCAGTCCCCTCCCCAGTGGGTTGACCACACAGGTG
CAGCCTCACAGAAGAAGGCTTTCCGTTCTTCAGGATTTGGACTAGAGTTCAACTCATTTCAGCACCAGTTGCGAA
TCCAGGATCAAGAATTTAGGAAGGCTTTGATGGTGGCTGGTGCCTCTCTGTACATCAGCCCTGGGCTTCTCTGC
TTGTGAGAGGGATTAAAAGGGTGGAGGGCAGATCCTGGTACACCCCCACAGAGGACGACTTTGGATAGCAGCCA
CAGCTAAAAAACCTCCCCCTCAAGAACTCTCAGAACTCCAGGCTACATATCGTCTTCTTCGTGGGAAAGATGTGG
AATTTCTAATGACTATCCGTCAGGTGTCTTCTGGGCTGTGTGGACCTAATTGACTGCTTGTCCCAGAAGCAAT
TTAAGGAGCAGTTCCAAGCATCAGTCAAGAGTCTGATTCTCCATTTGTTTTTCATCTGCAAAAATCCTCAGGAAAT
GGTTGTGAAGTTTCTATTAAAGGAAATCCAAAAATCTGGAAATTGGATTCCAAGATCCATCAAGGAGCAAAGAA
GGGGTTAATGAAGCAGAATAAAGCTGTCTGACCCAGGAGAAAAGGAACATATACAGCATAGTGGAGTTTTGTGTAC
TAAATTGCTATCTACTGGTCCTTTGGAATTGAAGTAGTAGAAACCTAAAGGCTTGGCGTCAGGCTTGAATATCT
CAGAACTTAACTCTTACCAAAATCTGTATATTTTTCTTAAGGAGTGGGATTCTACTTTATGTAATGGGGTCGA
AATCTTTGAACACATTATTTATAAAAAACCTGTTTAAAAATTCT

5251/5332
FIGURE 4551

GTGAAACACCCCTCGGCTGGGAAGTCAGTTCGTTCTCTCCTCTCCTCTCTTCTTGTGTTGAACATGGTGCGGACTAA
AGCAGACAGTGTTCCAGGCACTTACAGAAAAGTGGTGGCTGCTCGAGCCCCCAGAAAGGTGCTTGGTTCTTCCAC
CTCTGCCACTAATTCGACATCAGTTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCGTTGCGT
GCGCCCAACTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGGTTGTCCCCTAAAGATTCTGAAAAAGAGAA
TCAGATTCCTGAAGAGGCAGGAAGCAGTGGCTTAGGAAAAGCAAAGAGAAAAGCATGTCCTTTGCAACCTGATCA
CACAAATGATGAAAAAGAAATAGAACTTTCTCATTTCATCTTTGAATAACGTCTCCTTGTTTACCCTGGTATTCTAG
AATGTAAATTTACATAAATGTGTTTGTTCGAATTAGCTTTGTTGAACAGGCATTTAATTAAAAAATTTAGGTTTA
AATTTAGATGTTCAAAAGTAGTTGTGAAATTTGAGAATTTGTAAGACTAATTATGGTAACTTAGCTTAGTATTCA
ATATAATGCATTGTTTGGTTTCTTTTACCAAATTAAGTGTCTAGTTCTTGCTAAAATCAAGTCATTGCATTGTGT
TCTAATTACAAGTATGTTGTATTTGAGATTTGCTTAGATTGTTGTACTGCTGCCATTTTTATTGGTGTGTTGATTA
TTGGAATGGTGCCATATTGTCACTCCTTCTACTTGCTTTAAAAAGCAGAGTTAGATTTTTGCACATTAAAAAATT
CAGTATTAATT

5252/5332
FIGURE 4552

ACGGCGCCCGCCGCCCGCCCGGAGCCCGCGAGCAACCCAGTCCCCCCCCACCCGCGCGTGGCGGGCGCCGGCTCCC
TAGCCACCGCGGGCCCCACCCTCTTCCGGCCTCAGCTGTCCGGGCTGCTTTTCGCCTCCGCCTGTGGATGCTGCGCC
TCTCCGAACGCAACATGAAGGTGCTCCTTGCCGCCGCCCTCATCGCGGGGTCCGTCTTCTTCCTGCTGCTGCCGG
GACCTTCTGCGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAATTGGAG
ATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAGACTGTTCCAAAACAGTGGATAATTTTGTGGCCT
TAGCTACAGGAGAGAAAGGATTTGGCTACAAAACAGCAAATTCCATCGTGTAATCAAGGACTTCATGATCCAGG
GCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAAGAGCATCTACGGTGAGCGCTTCCCCGATGAGAACTTCA
AACTGAAGCACTACGGGCCTGGCTGGGTGAGCATGGCCAACGCAGGCAAAGACACCAACGGCTCCCAGTTCTTCA
TCACGACAGTCAAGACAGCCTGGCTAGATGGCAAGCATGTGGTGTGTTGGCAAAGTTCTAGAGGGCATGGAGGTGG
TGCGGAAGGTGGAGAGACCAAGACAGACAGCCGGGATAAACCCCTGAAGGATGTGATCATCGCAGACTGCGGCA
AGATCGAGGTGGAGAAGCCCTTTGCCATCGCCAAGGAGTAGGGCACAGGGACATCTTTCTTTGAGTGACCGTCTG
TGCAGGCCCTGTAGTCCGCCACAGGGCTCTGAGCTGCACTGGCCCCGGTGCTGGCATCTGGTGGAGCGGACCCAC
TCCCCTCACATTCCACAGGCCCATGGACTCACTTTTGTAAACAACTCCTACCAACACTGACCAATAAAAAAAAT
GTGGGTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAA

5253/5332
FIGURE 4553

AGAAGATGCGTCGGGTGGTGGTGGCTGTAGCGCTTCGGAGAGACTGCCTCCGCCCTTCCCCGGCCTGGAGCCGG
AGTCCGAGGGGGCGGCCGGGGGATCAGAACCCGAGGCTGGGGACAGCGACACCGAGGGGGAGGACATTTTCACCG
GCGCCGCGGTGGTCAGTAAACATCAGTCTCCAAAGATAACTACATCCCTTCTTCCCATCAACAATGGCTCCAAAG
AAAATGGGATCCATGAAGAACAAGACCAAGAGCCACAGGATCTCTTTGCAGATGCCACAGTGGAGCTATCCTTGG
ACAGCACACAAAATAATCAGAAGAAGGTGCTAGCCAAAACACTCATTTCTCTTCTCCTCAGGAAGCCACAAATT
CTTCGAAGCCCCAGCCAACCTATGAGGAGCTAGAGGAAGAAGAACAGGAGGATCAATTTGATTTGACAGTCGGTA
TAACTGATCCTGAGAAGATAGGGGATGGTATGAATGCATATGTAGCCTACAAAGTTACAACACAGACAAGCTTAC
CATTGTTTCAAGAAGCAAACAGTTTGCAGTAAAAAGAAGATTTAGTGACTTTCTGGGTCTTTATGAGAAGCTTTCCG
AGAAGCACTCTCAGAATGGCTTCATTGTCCCTCCGCCCCCGAGAAGAGCCTCATAGGGATGACAAAAGTGAAAG
TTGGGAAGGAAGATTCTTCTTCTGCAGAATTTCTTGAAAAACGGAGGGCCGCTTTAGAAAGGTACCTTCAGAGGA
TTGTAAATCATCCTACCATGTTACAGGACCCTGACGTGAGAGAGTTCTTGAAAAAGAAGAGCTGCCACGTGCCG
TGGGTACCCAGACATTGAGTGGTGTGGTCTCCTCAAGATGTTCAACAAAGCCACAGATGCCGTGAGCAAAATGA
CCATCAAGATGAATGAATCAGACATTTGGTTTGAGGAGAAGCTCCAGGAGGTAGAGTGTGAGGAGCAGCGCTTAC
GGAAACTGCATGCTGTTGTAGAACTCTAGTCAACCATAGGAAAGAGCTAGCGCTGAACACAGCCCAGTTTGCAA
AGAGTCTAGCCATGCTTGGGAGCTCTGAGGACAACACGGCATTGTACGGGCACTCTCCAGCTGGCTGAGGTGG
AAGAAAAAATTGAGCAGCTCCACCAGGAACAGGCCAACAATGACTTCTTCTCCTTGCTGAGCTCCTGAGTGACT
ACATTCGCCTCCTGGCCATAGTCCGCGCTGCCCTTCGACCAGCGCATGAAGACATGGCAGCGCTGGCAGGATGCCC
AAGCCACACTGCAGAAGAAGCGGGAGGCCGAGGCTCGGCTGCTGTGGGCCAACAAGCCTGATAAGCTGCAGCAGG
CCAAGGACGAGATCCTCGAGTGGGAGTCTCGGGTGACTCAATATGAAAGGGACTTCGAGAGGATTTCAACAGTGG
TCCGAAAAGAAGTGATACGGTTTGAGAAAGAGAAATCCAAGGACTTCAAGAACCACGTGATCAAGTACCTTGAGA
CACTCCTTTACTCACAGCAGCAGCTGGCAAAGTACTGGGAAGCCTTCCTTCTGAGGCAAAGGCCATCTCCTAAT
GGACCAAGGACCCCAGAGCCCACCTGTGTGACGCTGCCTTTTTATACACTGTCCTCCTCCACCTTGATGGACCCC
TAGTGATGCATCCTGCCTAGGCTGGACTTAACCCCTTCTCCTGTCCCCACGACCAACTGTCCCCAGTTACTCT
AACCGTTATTTCAATTTAGCTTCCATATATATTTTCTTACCTAAGAGAATAGTTTCTGCTTTAAGCAAAAGACCT
ACAATAGGTGGTGAATTATGGGATGGGGTGGAGTATTGATATAAATATATAAATACAAATGTATATTTTTCAGG
ATGTGGTTTtaggaactgggaataacgTTTTC

5254/5332
FIGURE 4554

GTCTGGCCCCGCCTTTTCTCTGCTCTCCTGAACCTTTAGGCTTGCTCTCGGCCCATTTGAAGACCAGGAA GTTGAT
CAATCCCGAGGCTGCTGAGAGACGGTGGCGCGATTGGGACAGTCGCCAGGGATGGCTGAGCGTGAAGATGCAGCG
GGTGTCCGGGCTGCTCTCCTGGACGCTGAGCAGAGTCCTGTGGCTCTCCGGCCTCTCTGAGCCGGGAGCTGCCCCG
GCAGCCCCGGATCATGGAAGAGAAAGCGCTAGAAGTTTATGATTTGATTAGA ACTATCCGGGACCCAGAAAAGCC
CAATACTTTAGAAGA ACTGGAAGTGGTCTCGGAAAGTTGTGTGGAAGTTCAGGAGATAAATGAAGAAGAATATCT
GGTTATTATCAGGTTACGCCAACAGTACCTCATTGCTCTTTGGCGACTCTTATTGGGCTGTGCTTAAGAGTAAA
ACTTCAGCGATGTTTACCATTTAAACATAAGTTGGAAATCTACATTTCTGAAGGAACCCACTCAACAGAAGAAGA
CATCAATAAGCAGATAAATGACAAAGAGCGAGTGGCAGCTGCAATGGAAAACCCCACTTACGGGAAATTGTGGA
ACAGTGTGTCCTTGAACCTGACTGATAGCTGTTTTAAGAGCCACTGGCCTGTAATTGTTTGATATATTTGTTTAA
ACTCTTTGTATAATGTCAGAGACTCATGTTTAATACATAGGTGATTTGTACCTCAGAGTATTTTTTAAAGGATTCT
TTTCCAAGCGAGATTTAATTATAAGGTAGTACCTAATTGTTCAATGTATAACATTCTCAGGATTTGTAACACTT
AAATGATCAGACAGAATAATATTTTCTAGTTATTATGTGCAAGATGAGTTGCTATTTTTCTGATGCTCATTCTGA
TACAACTATTTTTCTGTGTCAAATATCTACTGTGCCCAAATGTACTCAATTTAAATCATTACTCTGTAAAATAAAT
AAGCAGATGATTCTTAT

5255/5332
FIGURE 4555

GCGCATGCGCGGGGGCCATATTAGCAGCGGTTATTCCGGTGAGCGGTGGTGGTTTATTCTTCCGTGGAGTTAAGGG
CTCCGTGGACATCTCAGGTCTTCAGGGTCTTCCATCTGGAACATATAAAGFTCAGAAAACATGCTCTCGAAGATA
TGACTCCAGGACCACTATATTTTTCTCCAGAAGGTCGCTTATACCAAGTTGAATATGCCATGGAAGCTATTGGACA
TGCAGGCACCTGTTTGGGAATTTTAGCAAATGATGGTGTGTTTGCTTGCGAGCAGAGAGACGCAACATCCACAAGCT
TCTTGATGAAGTCTTTTTTTCTGAAAAAATTTATAAACTCAATGAGGACATGGCTTGCAAGTGTGGCAGGCATAAC
TTCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATCAGGAGCCAAT
ACCTTGTGAGCAGTTGGTTACAGCGCTGTGTGATATCAAACAAGCTTATACACAATTTGGAGGAAAACGTCCCTT
TGGTGTTCATTGCTGTACATTGGCTGGGATAAGCACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGAAA
TTACGGGGGATGGAAGGCCACATGCATTGGAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAA
AGAAGGAGAAATGACCTTGAAGTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAA
ACTCTCTGCTGAAAAAGTGGAAATTGCAACACTAACAAGAGAGAATGGAAAGACAGTAATCAGAGTTCTCAAACA
AAAAGAAGTGGAGCAGTTGATCAAAAAACATGAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAAGA
ACAGAAAGAAAAGGATAAAATAGAAATCAGAGATTTTATTACTCATTGTTGGGGCACCATTTCAGTGTAAGCAGTCC
TACTCTTCCACACTAGGAAGGCTTTACTTTTTTTAACTGGTGCAGTGGGAAAATAGGACATTACATACTGAATTG
GGTCCTTGTCAATTTCTGTCCAATTGAATACTTTATTGTAACGATGATGGTTACCCTTCATGGACGTCTTAATCTT
CCACACACATCCCCTTTTTTTGGAATAAAATTTGAAAATGGAATGAAGGAATAAATTCCTCTGTAGCAGTAATT
GTAAATATA

5256/5332
FIGURE 4556

AAAATTTTAGGTGGTTAAAATGIGGTACGTAAATTTTATATGTCTCAACTCTGTTTCATGTTAAATGTGTTACAG
GAATGAATCTGAAGTCTGCTGCAGTAAAAACACAGAAGGCTTTAAAATGTTTTCTTGCATAAAAATTCAAAACTTTT
AAGTAGCTGCTTATGAGAATAGGGAAGGCAGAAAGCTAATGTCTGTCTCAAGATACAGGACAGCTGTTTGCTCAT
CAACCTCAACTGTGTGTGCAACTGAGGAACATGGCTCAAGAACTAATCACAGCCAAGTGCCTATGCTTTGTTCC
ACTGGCTGTGGATTTTATGGAAACCCTCGTACAAATGGCATGTGTTTCAGTATGCTATAAAGAACATCTTCAAAGA
CAGAATAGTAGTAATGGTAGAATAAGCCACCTGCAACCTCTGTCTAGTAGTCTGTCTGAATCTTTACCAGTTCAA
TGCACAGATGGCAGTGTGCCAGAAGCCAGTCAGCATTAGACTCTACATCTTCATCTATGCAGCCCAGCCCTGTA
TCAAATCAGTCACTTTTATCAGAATCTGTAGCATCTTCTCAATTGGACAGTACATCTGTGGACAAAGCAGTACCT
GAAACAGAAGATGTGCAGGCTTCAGTATCAGACACAGCACAGCAGCCATCTGAAGAGCAAAGCAAGTCTCTTGAA
AAACCGAAACAAAAAAGAATCGCTGTTTCATGTGCAGGAAGAAAGTGGGACTTACTGGGTTTGAATGCCGGTGT
GGAAATGTTTACTGTGGGTGTACACCGTTACTCAGATGTACACAATTGCTCTTACAATTACAAAGCCGATGCTGCT
GAGAAAATCAGAAAAGAAAATCCAGTAGTTGTTGGTGAAAAGATCCAAAAGATTGAACTCCTGCTGGAATACAA
AATTCTTGAGCATCTGCAAACTAAAAATTGACTTGAGGTTTTTTTTTTCCTAGTCATTGGGAATGTAGAGCAGTG
TATCTTGATGTCATCGGAAGAATAGATTTTGTGTTGGTTTTGTTTTGAAAATGACTCTGAACATTTATTTCCA
TTGCAATTTCTGTGGCTGAGGAGACTTAAACTTTACAAGTATTATCCTTTTAAGATCATTTTAATTTTAGTTGAG
TGCAGAGGGCTTTTATAACAAACGTGCAGAAATTTTGGAGGGCTGTGATTTTCCAGTATTAAACATGCATGCAT
TAATCTTGCAGTTTATTTTCTCATTGTGTATGTATATATCGCTTTTCTCTGCAGCACGATTTCTCTTTTGATAAT
GCCCTTTAGGGCACAACCTAGTTATCAGTAACTGAATGTATCTTAATCATTATGGCTGCTTCTGTTTTTTCATTAA
CAAAGGTTATTCATATGTTAGCATATAGTTTCTTTGCACCCACTATTTATGTCTGAATCATTTGTCAAGAGAG
TGTGTGCTGATGAGATTGTAAGTTTGTGTGTTAACTTTTTTTTGGAGCGAGGGAAGAAAAAGCTGTATGCATTT
CATTGCTGTCTACAGGTTTCTTTTCAGATTATGTTTCATGGGTTTGTGTGTATACAATATGAAGAATGATCTGAAGT
AATTGTGCTGTATTTATGTTTATTCACCAGTCTTTGATTAAATAAAAAGGAAAACCG

5257/5332
FIGURE 4557

ATGGTTAACCCCACTGTGTTTTTTGACATCGCCGTCGATGGCGAGCCCTTGGGCCACGTCTCCTTCGAGCTGCTT
GCAGACAAGTTTCCAAAGACAGCAGAAAACTTTTCATGCTCTGAGCACTGGAGAGAAAGGATTTGAATTATCAGAG
TTTATGTGTCAGGGTGGTGACTTCACATGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAT
GATGAGAACTTCATCCTAAAGCATAACAGTGGTGGATGGCAAGCATGTGGTCTTTGGCAAGGTGAAAGAAGGCATG
AATATTGTGGAGGCCACGGAGCGCTTTGAGTCCAGGAATGGCAAGACCAGGAAGAAGATCACCATTGCTGACTGT
GGACAACCTTAA

5258/5332
FIGURE 4558

GTGCACGCGCTGAAACCGGAGCGCGCAGGGCGCGCCAGGGTGAGGGGGACGGGGGCGGGGTGGGGGCAGCCCTTT
CCCAGGCGGTAGCGGGGGCGGCGTCGCTGTTGCCCTTTTAAGCCGCGGGGGCCGCCGCTCCTGCCGCTGGAGTCG
GTTACAAAGGAAGCGCCACCCAGGCCGCCACAGCCGAGGCTTCCGCGCCCTCGCCATTTTCCAGCAGCGCTCG
ACGAGGCGGAGCCGCGAGAGCGCGGGCCAGGCCGCCCGCGGGGCGGTGCGGGCCGTGACGGCGGCTCCGGGCC
CGGCTCCCCCTTCCGCGCCCGGCTCCCTTCCGCGCCCTCCCGCCGAGATGAGGGGAAGATGTCCTGTTCAGGG
CTCAAGGCCGAGCTGAAGTTCCTGGCGTCCATCTTCGACAAGAACCACGAGCGATTCCGCATCGTCAGTTGGAAG
CTGGACGAGCTGCACTGCCAGTTCCTGGTGCCGAGCAGGGCAGCCCGCACTCGCTGCCGCCGCCACTCACGCTC
CACTGCAACATCACGGAATCCTATCCATCTTCTTACCAGATATGGTTTGTGGATTCTGAAGACCCAAATCTGACA
TCAGTTCTGGAACGTCTAGAAGATACTAAGAACAACAATTTGCTTCGTCAGCAATTGAAGTGGTTGATATGTGAA
CTCTGCAGTTTATATAACCTTCCIAAGCACCTGGATGTTGAGATGCTAGATCAACCACTACCCACGGGTGAGAAT
GGGACAACAGAAGAAGTGACTTCAGAAGAAGAGGAAGAAGAAGAGATGGCTGAAGATATAGAAGACTTAGAT
CACTATGAGATGAAGGAAGAAGAGCCTATTAGTGGGAAAAAGTCAGAGGATGAAGGAATTGAAAAAGAAATTTG
GCAATATTAGAGAAAATTAGGAAGACTCAAAGGCAAGACCATTTAAATGGTGCAGTGTCTGGGTGAGTGCAAGCT
TCAGATAGACTTATGAAAGAGCTCAGGGACATATACAGATCACAGAGTTATAAAACAGGGATTTATTCAGTGGA
CTCATAAATGACAGTTTATATGACTGGCATGTTAACTGCAGAAGGTTGACCCTGATAGTCCTTTCACAGTGAT
CTTCAGATCTTAAAGAAAAAGAAGGCATAGAATATATTTGCTTAACTTCTCTTTTAAAGATACTTTCCATTT
GATCTCCATTTGTTTCGAGTGGTGTACCTGTTCTCTCAGGAGGGTATGTATTGGGTGGAGGAGCATTATGTATG
GAACCTCTCAGAAAACAGGGCTGGAGCAGTGCCTACTCAATAGAATCGGTCATCATGCAATAAATGCCACCTTA
GTCAAAGGCAAAGCCAGAGTGAGTTTGGAGCAAATAAGAATCAATATAATCTAGCAAGAGCCCAACAATCCTAT
AATTCATTGTACAGATACATGAGAAAATGGCTGGTACACCCCTCCAAAGGAAGATGGCTAAATGTGTTGACTG
TTGTATGTTTGGACTAATGTTGCTTTAAAGAAAATCTTCTAACATGCAGACAAAAGCTTTGAGTGCCCCCTATTA
CAGCAGTACCGAAGATGTTAGTTAATAGATATTTTAGTGGATAATCTGTCACTGACATCCAGTATAAGTTACAG
CCTTTCGATTTTGGCTCATTTTATAGATATCTTGGACTGAGCAGTGGGGCCTTTACTGTATTTTCTGATAAATACA
CATACTGGCCACTCCTTATCTCTTTTTCTTGAAGTGAACCTTTTTAAAGCAGCCAAGTCAACATCAGGCTACTG
AAGTTGAGGCTTTAGGGTAACTTTTCTATATTGAGCCCATGGGTTACAAGGATTTGCAATATATTGTTCCATTTA
CAGCCAATACAGGTTTAAATCGATGTTCAATATTGGTTTAGGAAATTTAAGGCCTTCTAAATCATAATAGCTCTTT
CATGTCTAAACCATTATTTATGATATTGCCAAAATGTGATAGGAAACCTACTCATTAAATTGTTAACTTTTTTAAAT
GACTATGTGAAGATATGAATTGTTTCTGAAGATAATACTCTTAATTGAGTTGTATTGTACTTCTTAGGCAAAGC
AGTGTAAGAACTGTATCAATTAAGGCTTGTGAGTAGTGATTCCACTGGGGCATCAGAGTCTTGGCTGGGCTGAAT
CTGCTGCTTGTGGTTTCACTGTTTCTTATGAACAAGAGCCACAGTACAGAGCTTCAAGTTATTTAAATACTAAG
TCATCTTACGTTTCCATTTTATTAACGGGATGTTGCAATCGTTTGTAACTAATAAACTTATAAAGTGATTGGCA
CAAAGACTCCTTGAGCAAAAGCTGTGCAGTTAAGTACAAAAAGATACTTAATTTGGAGACTCTTACAGTAATTTT
TGCCATGTCAAAAACATGGCTTTTACATTGAAAGATTAATAGAACTCTACATATGTTAATTTTTTTATAGAACC
TGACTCAAAATCAAGGTACTCTCCATTTTATTGCCTTACCTGAATCAGTCCTTTTTGGTTGGTAATAGATTTTTT
ATACACCCACGTTTGATTTAAAGTAAATCTAGTTCTTAAGCACTTTTAAACAAATCCAGAAGCACATTTTTCTG
CACAAACAAGTTACAAAGTTCAAAGTGTTTCTTGTGCATTAGCTTTGAGATTGAGTTTTTAACTTTGTAAACCA
CATCTGAGAGACTTGTCAATTTCTACATTGTGTGTGTTTAAATTTCTTTTGATTCCATTTTGGTTAAGAGAGCAGTA
AATAGATTTTCTGGTATTCTTGTTCATTGATTACATTTGTATAAAGTTCTGATTGCCAGTTGCTCAGATAACAA
GTGACAAGGCAGAATCTTTAAATCAGTAAAGTTCCCTTAAGCCTAAGGCTAAATCTTGAATACATTGTTGAATTC
TTTAATATCCTGATGGCAAGCAGACTGATAGCTGCACATTTGGCATGCTTTGTTTAAATGGATTTTATTTTAAAT
GCAGATTTATTTGGCAATGTACAGTAAATTTGTAACTTGCATCAAGTTTATGAATAAAGAACCATT

5259/5332
FIGURE 4559

AGTGCGCGCCGGCCGGGCAACCCTATGCTGGCGTAATCGGGTTCCCTCCGAGCCGCCGTAGGACTGGTTCCGGCGG
GCTGGTGAGGAATGAGCCGGTAGGCTGCTGCGGCGAGTGCCGCGGCTCCTCCGTAGACCCGCGGAGCACCTTCG
TGTTGAGTAACCTGGCGGAGGTGGTGGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCT
GCGTGTGCCGCTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTCCGCAG
GCCTGGCGGAGGCCGGCCACCTGGAGGGGCATTGCTTGGTTGCGGTGGTAGCAGAGGAGCTTGAGAATGTTGCA
TCTTACCACATACAGTTCTTTACATGGCTGATTGAGAACTTTTATTAGTCTGGAAGAGTGTGCTGGCCATAAGA
GAGCAAGGAAAAGAACTAGTATGGAACAGCACTTGCCCTTGAGAAGCTATTCCCCAAACAATGCCAAGTCCTTG
GGATTGTGACCCAGGAATTGTAGTGACTCCAATGGGATCAGGTAGCAATCGACCTCAGGAAATAGAAATTGGAG
AATCTGGTTTTGCTTTATTATTCCCTCAAATTGAAGGAATAAAAAATACAACCCTTTTATTTTATTAAGGATCCAA
AGAATTTAACATTAGAAAGACATCAACTCACTGAAGTAGGTCTTTTAGATAACCCTGAACCTCGTGTGGTCCTTG
TCTTTGGTTATAATTGCTGTAAGGTGGGAGCCAGTAATTATCTGCAGCAAGTAGTCAGCACTTTCAGTGATATGA
ATATCATCTTGGCTGGAGGCCAGGTGGACAACCTGTCATCACTGACTTCTGAAAAGTATGTCTTGTGTGCTTCTG
ATTTGCTCTGTGAATGAAGGAAATGGTCTCAGGTTTTGTCACCTTTGGGGTTAACAATTTAAAAAACGTGTTAA
AGAATTATTAAGATAATAGTTTCAATTTTGTAGTAGACATTGGCTAAGGGGCTTACTGAACATAATTCTGCT
TACGGTTGAATAATTACATTTTATATATATTGCTCCTCAAGAACTTCTTGAGTCACATTCTCCTTAAATTTG
ACATTGCCTGTTGATCTTTCTTTGACAGATGTGGTACTCTGTGTGACCTCAATGTGTACCTCCTTCTAGTTT
CCTCCTTTAAAGGAAACACATGGTTAGAGTGTATCTTTATGGCAAACTTCTCAGAGCTTCTAATATGCCAGTG
CTGTGGAAATCTGGAAGGAGAATAGCATTACCTGTGACAGTTCCTCAATGTGTTTGGTCACAAAACCTTTTTCCA
CAGAATGTCTTGCAAGTCGTACTGGTTTTTGGAAATCTGTATTAGATCTTTTGAAAGGCTTTTTCAAGCTTAAA
AATTGIGGATCTTTTTTGTTACTAAGGCTTTTGCTTCAAAGATAAAAAATATTTGCTCTTC

5260/5332
FIGURE 4560

AGCATTAGGTGACTGGCTGAGGCGGCGCCAGTTGGCCGGGCACGGGGCTGCTGTAAGGCCGAGGTTGCGGCGGAA
GCGGAGACCATGTTCCGAGCGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTCAGAGTACC
CTGGTAATAGCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTT
GGAGGTGAAGTGTCTGCTTAGTAGCTGGAACCAAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGC
ATAGCAAAAGTTCTGGTGGCTCAGCATGATGTGTACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTG
GCAACTCAGAAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCTTTTGCCGAGA
GTAGCAGCCAAACTTGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACT
ATTTATGCAGGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAAGTGTTTTCTGTCCGTGGAACATCC
TTTGATGCTGCAGCAACAAGTGGCGGTAGTGCCAGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCA
GAGTGGCTTGACCAGAAATTAACAAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGIATCTGGTGGT
CGAGGCTTGAAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCAGATCAACTACATGCTGCAGTTGGTGGT
TCCCGTGCTGCTGTTGATGCTGGCTTTGTTCCCAATGACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCA
GAACTTTATATTGCTGTTGGAATATCTGGAGCCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTG
GCAATTAATAAAGACCCAGAAGCTCCAATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTA
GTTCTGAAATGACTGAGATATTGAAGAAAAATGAATCAGGATCATGCCTTAAAAAGAAAACTTTTGTTAAAGT
ATTCCACTGAAATCACAGATATTGTGGGTATTATAACAATCATTGGAAAGCATGGAGAGCTACATTTTATAATT
TGAGGGAAATTTCTAACAGATGCCAGAATGCTTGTGTTATGGGATTGCTGTGTTTCCTTTTAATTATTTGTGGTT
CCAAACAATTATTGTTTGAACTTTTTAAATTCTGTACTAAAATCTATAATAAAGCTTTTCCACAGCTTTAAACT
ATCAGAAATATGCCTAGCCTCTAGAGAAAATTGAAGAAAAGGAGTAAAAATTTGTTTATTT

5261/5332
FIGURE 4561A

CAAGATGGCGGCCAAGGTGGCGAAGCAGCAGCCGCGGCGGCGGCGGCTGGAGTGAGCGTCCGACTCGCCGCG
CCGAACGAGGTCCCGGTGTAGGGCCGCGCGCGGTGGCCGCGTCCACTCCTCAGGCCGGGCGCACGTCCGCTCC
CACGCTTAGCCAGCTCCCGGTGGTTTCTAGAAACATGATTGTTTATTGGCATTGATCTCACAGTCTGGTGAGGA
CTTCTTTACTGATAATGTCAAGTTCAGGTTATCCTCCCAACCAAGGAGCATTACAGCACAGAACAAAGTCGTTATC
CTCCTCACTCTGTCCAGTATACATTTCCCAACACCCGCCACCAGCAGGAGTTCGCAGTCCCTGATTATCGTTTCCT
CTCATCTTGAAGTGAGTCAGGCATCACAGCTTTTGCAGCAACAGCAGCAGCAACAGCTTCGAAGGCGACCTTCCT
TGCTTTTCAGAATTTACCCAGGTTCTGACAGGCCTCAAGAAAGGAGAACTAGTTATGAACCGTTTCATCCAGGCC
CATCCCCAGTGGATCATGATTCAGTGAATCGAAGCGACCACGTCTGGAACAGGTTTCTGATTCTCATTTTCAGC
GTGTCAGTGCTGCGGTTTTGCCTTTAGTGCACCCGCTGCCAGAAGGGCTGAGGGCTTCTGCAGATGCTAAGAAGG
ATCCAGCATTCCGAGGCAAAACATGAAGCTCCATCCTCTCCAATTTCCGGGGCAACCATGTGGAGATGATCAAAATG
CTTCACCTTCAAACCTCTCAAAGGAAGAGTTAATACAGAGTATGGATCGTGTAGATCGAGAAATTGCAAAAGTAG
AACAGCAGATCCTTAAACTGAAAAAGAAACAACAACAGCTTGAAGAAGAGGCAGCTAAACCTCCTGAGCCTGAGA
AGCCCGTGTCCTCTCTGTGGAGCAGAAACCCGAGTATTGTCCAAATTATTTATGATGAGAATCGGAAAA
AAGCAGAAGAAGCTCATAAAATTTTTGAAGGTCTTGGCCCAAAGTTGAACTGCCACTGTATAACCAGCCATCAG
ATACCAAGGTGTACCATGAGAACATCAAGACAACCCAGGTGATGAGGAAAAAACTCATTTTATTTTTTAAAGAA
GAAATCATGCAAGAAAACAAAGGGAACAAAAATCTGCCAGCGTTATGATCAGCTCATGGAGGCATGGGAGAAAA
AAGTGGACAGAATAGAAAAATAATCCTCGGAGGAAAGCTAAAGAAAGCAAAACAAGGGAATACTATGAAAAGCAGT
TTCCAGAAATTCGAAAACAAAGAGAACAGCAAGAAAGATTTAGCGAGTTGGGCAGAGGGGAGCTGGTCTTTCAG
CCACCATTGCTAGGAGTGAGCATGAGATTTCTGAAATTATTGATGGGCTCTCTGAGCAGGAGAATAATGAGAAAC
AAATGCGGCAGCTCTCTGTGATTCCACCTATGATGTTTGTATGCAGAACAAAGACGAGTCAAGTTCATTAACATGA
ATGGGCTTATGGAGGACCTATGAAAGTGATAAAGATAGGCAGTTTATGAATGTTTGGACTGACCATGAAAAGG
AGATCTTTAAGGACAAGTTTATCCAGCATCCAAAAAATTTGGACTAATTGCATCATACTTGGAGAGGAAGAGTG
TTCTGATTGTGTTTTGTATTACTATTTAACCAAGAAAAATGAGAATTATAAAGCCCTCGTCAGAAGGAATTATG
GGAAACGCAGAGGCAGAAACCAGCAAATTGCTCGACCCTCGCAAGAAGAAAAAGTAGAAGAAAAAGAGAGGATA
AAGCAGAAAAAACAGAAAAAAGAAGAAGAAAGAAAGATGAAGAGGAAAAAGATGAAAAAGAACTCCAAAG
AAAATACCAAGGAAAAGGACAAGATAGATGGTACAGCAGAAGAACTGAGGAAAGAGAGCAAGCCACACCCCGGG
GGCGAAAGACTGCCAACAGTCAGGGCCGCCGTAAGGGCCGGATCACCAGGTCCATGACAAACGAAGTCGAGCTG
CCAGTGCTGCAGCCGCGAGCGGCTACTGAAGAGCCCCACCACCTCTGCCACCGCCACCAGAACCCATTCTACAG
AGCCTGTGGAGACCTCTCGATGGACAGAAGAAGAAATGGAAGTTGCTAAAAAAGGTCTAGTAGAACATGGTCGTA
ACTGGGCAGCAATTGCTAAAAATGGTGGGAACGAAAAGTGAAGCTCAATGTAAAAACTTCTATTTTAACTATAAAA
GGCGACACAATCTTGACAACCTCTTACAGCAGCATAAACAGAAAACTTCACGAAAACCTCGTGAAGAGCGAGATG
TGCTCAATGTGAAAAGTGTGCTTCCACTGTTTCTGCTCAGGAGGATGAAGATATTGAAGCCTCCATGAAGAAG
AAAATCCAGAAGACAGCGAAGTTGAAGCTGTCAAGCCCAGCGAGGACAGTCTGAAAATGCTACTTCTCGAGGAA
ACACAGAACCTGCGGTTGAGCTTGAGCCCACCACGGAACTGCACCCAGTACATCTCCCTCCTTAGCAGTTCCAA
GTACAAAACCAGCTGAAGATGAAAGTGTGGAGACCCAGGTGAATGACAGCATCAGTGCTGAGACAGCAGAGCAGA
TGGATGTAGATCAGCAGGAGCACAGTGCTGAAGAGGGTTCTGTTTGTGATCCCCACCCGCTACCAAAGCTGACT
CTGTGGACGTTGAAGTGAGGGTGCCAGAAAACCATGCATCTAAAGTTGAAGGTGATAATACCAAAGAAAAGAGACT
TGGATAGAGCCAGTGAGAAGGTGGAACCTAGAGATGAAGATTTGGTGGTAGCTCAGCAAATAAATGCCCCAAAGGC
CCGAGCCCCAGTCAGACAATGATTCCAGTGCCACGTGCAGCGCTGATGAGGATGTGGATGGAGAGCCAGAGAGGC
AGAGAATGTTTCTATGGACTCAAAGCCTTCACTGTTAAACCCCACTGGATCTATACTCGTCTCATCTCCGTAA
AACCAATCCACTGGATCTGCCACAGCTTCAGCATCGAGCTGCTGTTATCCCACCAATGGTATCCTGCACCCCAT
GTAACATACCAATTGGAACCCAGTGAGCGGCTATGCTCTCTACCAGCGACACATTAAAGCAATGCATGAGTCAG
CACTCCTGGAGGAGCAGCGGCAGAGACAAGAACAGATAGATTGGAATGTAGAAGTTCTACAAGTCCATGTGGCA
CATCCAAGAGTCCAAACAGAGAGTGGGAAGTCTTCAGCCTGCTCCACATCAAGTGATAACTAATCTCCCTGAAG
CGGTTCCGCTTCCGACAACCTCGACCAACAGGCCACCGCCCCCTCTCATCCCGTCATCCAAAACACAGTGGCTT
CAGAAAAACCATCTTTTATAATGGGAGGCTCCATCTCACAGGGAACACCAGGCACCTTATTTGACTTCTCATAATC
AGGCTTCTTACACTCAAGAAACACCCAAGCCGTCAGTGGGATCTATCTCTCTTGGACTGCCACGGCAACAGGAAT
CTGCCAAATCAGCTACTTTGCCCTACATCAAGCAGGAAGAATTTCTCCCCGAAGCCAAAACCTCACAACCTGAGG

5262/5332
FIGURE 4561B

GTCTGTTGGTCAGGGCCCAACATGAAGGTGTAGTCAGAGGTACCGCAGGAGCCATACAAGAAGGAAGTATAACTC
GGGGAACCTCCAACCAGCAAAATTTCACTGGAGAGCATTCCATCCCTACGGGGCTCTATCACTCAGGGCACCCCGG
CTCTGCCCCAGACTGGCATACCAACAGAGGCTTTGGTGAAGGGGTCCATTTGAGAAATGCCATTGAAGACAGCA
GTCCTGAGAAAGGCAGAGAGGAAGCTGCATCCAAAGGCCATGTTATTTATGAAGGC AAAAGTGGACATATCTTGT
CATATGATAATATTAAGAATGCCCCGAGAAGGGACTAGGAGTCCAAGAACAGCTCATGAAATCAGTTTAAAGAGAA
GCTATGAATCAGTGGAAAGGAAATATAAAGCAAGGGATGTCAATGAGGGAGTCTCCTGTATCAGCACCGTTAGAGG
GGCTGATATGCCGAGCATTACCCAGGGGGAGTCTCATTCTGACCTCAAAGAAAAGGACTGTATTGTCTGGCTCCA
TAATGCAGGGGACACCAAGAGCAACAACCTGAAAGCTTTGAAGATGGCCTTAAATATCCCAAACAAATTTAAAGGG
AAAGTCTCCCATACGAGCATTGAAGGTGCCATTACCAAAGGAAAACCATATGATGGCATCACCACCATCAAAG
AAATGGGGCGTTCCATTCTAGAGATTCCAAGGCAAGATATTTAACTCAGGAAAAGTCGGA AAAACTCCAGAAGTGG
TCCAGAGCACACGGCCGATAATTGAGGGTTCCATTTCCAGGGCACACCAATAAAGTTTGACAACAACCTCAGGTC
AATCTGCCATCAAACACAATGTCAAATCCTTAATCACGGGGCCTAGCAAACCTATCCCGTGGAAATGCCTCCGCTGG
AAATTGTGCCAGAGAACATAAAAGTGGTAGAACGGGGAAAATATGAGGATGTGAAAGCAGGCGAGACCGTGCCTT
CCCGGCACACGTCAGTGGTAAGCTCTGGCCCCCTCCGTTCTTAGGTCCACACTGCATGAAGCTCCCAAAGCACAAC
TGAGCCCTGGGAATTTATGATGACACCAAGTGCACGGAGGACCCCTGTGAGTTATCAAAACACCATGTCCAGAGGCT
CACCCATGATGAACAGAACTTCTGATGTTACAATTTCTTCTAACAAGTCTACCAATCATGAAAGGAAATCGACAC
TGACCCCTACCCAGAGGGAAAGTATCCAGCGAAGTCTCCAGTGCCTGGGTGGACCCCTGTCTGTGAGCCACAGTC
CGTTTGATCCCATCACAGAGGCAGCACTGCAGGCGAGGTTTATCGGAGCCACCTGCCACGCACTTGGATCCAG
CCATGCCTTTTTCAGGGCTTTGGATCCTGCAGCGGCTGCTTACCTGTTTCAGAGACAGCTTTACCAACTCCAG
GTTACCCAAGTCAGTATCAGCTTACGCAATGGAGAACAAGACAGACAATCTTAAATGATTACATTACCTCAC
AACAGATGCAAGTGAACCTTGCGTCCAGATGTGGCCAGAGGACTCTCCCCAAGAGAGCAGCCACTGGGTCTCCCAT
ACCCAGCAACGAGAGGAATCATGACCTGACCAATATGCCTCCAACAATTTAGTGCCTCATCCAGGGGGAACAA
GCACTCCTCCCATGGACAGAATCACTTATATTCCTGGTACACAGATTACTTTCCCTCCCAGGCCGTACAACCTCTG
CTTCCATGTCTCCAGGACACCCAACACACCTTGCAGCTGCTGCAAGTGTGAGAGGGAACGGGAACGGGAGCGGG
AGAAGGAGCGGGAGCGGGAACGGATTGCTGCAGCTTCTCCGACCTCTACCTGCGGCCAGGCTCAGAACAGCCTG
GCCGACCTGGCAGTCATGGATATGTTGCTCCCTTTCCCTTCAGTAAGAACTCAGGAGACCATGTTGCAACAGA
GACCCAGTGTTTTCCAAGGAACCAATGGAACCAAGTGTAAATCACACCTTTGGATCCAACCTGCTCAGCTACGAATC
TGCCACTGCCTGCTGGGGGCCCTTCAATAAGCCAAGGCCTGCCAGCCTCCCGTTACAACACTGCTGCGGATGCC
TGGCTGCTCTTGTGGATGCTGCAGCTTCTGCACCCAGATGGATGTGTCCAAAACAAAAGAGAGTAAGCATGAAG
CTGCCAGGTTAGAAAGAAAATTTGAGAAGCAGGTGAGCAGCAGTTAGTGAACAGCAGCAGCTAGAGCAGAAAACCC
TGGAGGTGGAGAAGAGATCTGTTCACTGTTTATACACTTCTTCAGCCTTTCCAAGTGGCAAGCCCCAGCCTCATT
CTTCAGTAGTTTATTTCTGAGGCTGGGAAAGATAAAGGGCCTCCTCCA AAATCCAGATATGAGGAAGAGCTAAGGA
CCAGAGGGAAGACTACCATTACTGCAGCTAACTTCATAGACGTGATCATCACCCGGCAAATTGCCTCGGACAAGG
ATGCGAGGGAACGTGGCTCTCAAAGTTGAGACTCTTCTAGTAGCTTATCTTCTCACAGGTATGAAACACCTAGCG
ATGCTATTGAGGTGATAAGTCTGCCAGCTCACCTGCGCCACCCAGGAGAACTGCAGACCTATCAGCCAGAGG
TTGTTAAGGCAAATCAAGCGGAAAATGATCCTACCAGACAATATGAAGGACCATTACATCACTATCGACCACAGC
AGGAATCACCATCTCCCCAACACAGCTGCCCCCTTCTTCACAGGCAGAGGGAATGGGGCAAGTGCCAGGACCC
ATCGGCTGATCACACTTGCTGATCACATCTGTCAAATTATCACACAAGATTTGCTAGAAATCAAGTTTCTCTCGC
AGACTCCCCAGCAGCCTCCTACTTCTACATTCCAGAACTCACCTTCTGCTTTGGTATCTACACCTGTGAGGACTA
AAACATCAAACCGTTACAGCCCAAGATCCAGGCTCAGTCTGTCCATCATCAAAGACCAGGTTCAAGGGTCTCTC
CAGAAAATCTTGTGGACAAATCCAGGGGAAGTAGGCCTGGAAAATCCCCAGAGAGGAGTCACGCTCTCTTCGGAGC
CCTACGAGCCCATCTCCCCACCCAGGTTCCGGTTGTGCATAGAAAACAGGACAGCTTGCTGCTTCTGTCTCAGA
GGGGCGCAGAGCCTGCAGAGCAGAGGAATGATGCCGCTCACCAGGGAGTATAAGCTACTTGCCCTTACTTCTTCA
CCAAGCTTGAAAATACATCACCCATGGTTAAATCAAAGAAGCAGGAGATTTTCGTAAGTTGAACTCCTCTGGTG
GAGGTGACTCTGATATGGCAGCTGCTCAGCCAGGAACCTGAGATCTTTAATCTGCCAGCAGTTACTACGTACGGCT
CAGTTAGCTCTAGAGGCCATTCTTTTGTGATCCTGCCAGTAATCTTGGGCTGGAAGACATTATCAGGAAGGCTC
TCATGGGAAGCTTTGATGACAAAGTTGAGGATCATGGAGTTGTATGTCCAGCCTATGGGAGTAGTGCCTGGTA
CTGCCAACACCTCAGTTGTGACCAGTGGTGAGACACGAAGAGAGGAAGGGGACCCATCACCTCATTACAGGAGGAG

5263/5332
FIGURE 4561C

TTTGCAAACCAAAGCTGATCAGCAAGTCAAACAGCAGGAAATCTAAGTCTCCTATACCTGGGCAAGGCTACTTAG
GAACGGAACGGCCCTCTTCAGTCTCCTCTGTACATTCAGAAGGGGATTACCATAGGCAGACGCCAGGGTGGGCCT
GGGAAGACAGGCCCTCTTCAACAGGCTCAACTCAGTTTCCTTATAACCCTCTGACTATGCGGATGCTCAGCAGTA
CTCCACCAACACCGATTGCATGTGCTCCCTCTGCGGTGAACCAAGCAGCTCCTCACCAACAGAACAGGATCTGGG
AGCGAGAGCCTGCCCCACTGCTCTCAGCACAGTACGAGACCCTGTCGGATAGTGATGACTGAACTGCACAAAGTG
AGGGGAACAGGGTGCAGGAGAGGGATCTCTAGTTTTTGTGGTTTAATTTTTAGTAGCAGGTCAAAAACCTGCCCT
CCTGTGACTTATTCCCTGAGACTTTTCAGGAGAGCCAGCCACAGATGATGAAGAAATGATGGAAGTTCATTGG
AGAGTCAAATGGGAAAAAAACAAACAAAAAACTGCCTTTGATACAGGCAATTCAGTGGACTATAATAATAGTGGA
GGGTTGAGATGTAGAGTTTTTAAAAAGTGAACAGTTGCTGTTCTTACATCTGTAAAGAAAACCATAATGTCTTTA
AATCACTCTTCTGTAAATAGATGACCTTTTTGCAGTGTA

5264/5332
FIGURE 4562

CCATCATGGGAAGCAATGTGGCTCCTGTGTGTGGCGTTGGCGGTCTTGGCATGGGGCTTCCTCTGGGTTTGGGACT
CCTCAGAACGAATGAAGAGTCGGGAGCAGGGAGGACGGCTGGGAGCCGAAAGCCGGACCCTGCTGGTCATAGCGC
ACCCTGACGATGAAGCCATGTTTTTTTGCTCCACAGTGCTAGGCTTGCCCCGCCTAAGGCACTGGGTGTACCTGC
TTTGCTTCTCTGCAGGAAATTACTACAATCAAGGAGAGACTCGTAAGAAAGAACTTTTGCAGAGCTGTGATGTTT
TGGGGATTCCACTCTCCAGTGTAATGATTATTGACAACAGGGATTTCAGATGACCCAGGCATGCAGTGGGACA
CAGAGCACGTGGCCAGAGTCCTCCTTCAGCACATAGAAGTGAATGGCATCAATCTGGTGGTGACTTTCGATGCAG
GGGGAGTAAGTGGCCACAGCAATCACATTGCTCTGTATGCAGCTGTGAGGGCCCTGCACTCAGAAGGGAAGTTAC
CTAAAGGGTGCTCTGTGCTCACGCTTCAGTCTGTGAATGTGCTGCGCAAGTACATCTCCCTTCTGGATCTGCCCT
TGTCTCTGCTTCATACGCAGGATGTCTCTTCGTGCTCAACAGCAAAGAAGTGGCACAGGCCAAGAAAGCCATGT
CCTGCCACCGCAGCCAGCTCCTCTGGTTCCGCCGCCTCTACATTATCTTCTCCCGGTACATGAGAATCAACTCAC
TGAGCTTCCTCTGAAGCCTTGAAGGGTTTTTCAGATCCAAGGAACAAAGGGGAAAATAGACAAAGGAGTGCAGAGG
ACCTGGCCTGGCACTGGCTTATTTACCTGAGCTCAAGGAGATCCCCGCTGGAGCAGCCTCTGCAAAAGGGAGCCC
ATGTAGGCCAGGGGCTGTCCAACTCCAGCTTCTTCCCCTGGGAAAAAACCACAAAGAACCAAAAAACAAACCACCC
CAAGGATAATAATAGCTACACTGCTAGCTTCTCAAGTTCTTGTGAAAAACAATTTACATAATGACACAGTAGATG
TGAACACCTAGCCCAGTGCCTGGGCAGGTCCCTATTATCATAAATGAACATAAAAGTGCTCTAAAAACACTC

5265/5332
FIGURE 4563

GGGCGGTTGGCTTTGTTGGGTGAGCTTGTTTGTGTCCCTGTGGGTGGACGTGGTTGGTGATTGGCAGGATCCTGG
TATCCGCTAACAGGTCAAAATGAGATCTTCGTGAAAACCCCTTACCGGCAAGAACCATCACCTTGAGGTGGAGCC
CAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAAGGCATTCCCCCGACCAGCAGAGGCTCAT
CTTTGCAGGCAAGCAGCTGGAAGATGGCCGTA CTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCACCT
GGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCCTGACCGGCAAGACCATCACCTGGAAGTGGG
GCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAAGAAGGCATCCCTCCCGACCAGCAGAGGCT
CATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCA
CCTGGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCCTGACCGGCAAGACCATCACTCTGGAGGT
GGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCCCGACCAGCAGAG
GCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAAGAGTCGACCCT
GCACCTGGTCCTGCGCCTGAGGGGTGGCTGTTAATCTTCAGTCATGGCATTGCGAGTGCCAGTGATGGCATT
CTCTGCACTATAGCCATTTGCCCCAACTTAAGTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAA
TGTTAATAAAGGTTTCGTTGCATGGTA

5266/5332
FIGURE 4564

AGGTAGGCTCTCTAGGAATCTGGGAGTAGTAGCTGGGGGGCAAGAGCAAATAAAGAGCTCGAGCTTCTGTGGTCT
CTGGGGAGATGTTCCCGGGAAGCCTGTCTAGAGGGCGGAGGGCAGCTGTTGAGATGGCGTGGCTCCCGGGCTCCT
GCGCCCGCGTGGCTTTTCGCGGCGGGCGCTGCGGCCCGGTATTGGACAGCCTGGCAGGGCAGCGCGGGGCCGAATC
CGGCTGCCGTGGCTGAGGCTCATGGATCACTCTTTTGTGGTAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAA
GGCCGGGACCCGGTTCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGATTGCGTACCCACTGCAGA
GTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGA
GCCAGGAGCCTGCCATGAGGTTTTGAGAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAA
GGTTATATTCCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAACCTAACTGGCA
TCAACACTGGGTGTAGAAACATGCTTGCCTTATGTATCAGAGGACATGCTCAGCAGATCCAAGAGATATATTGG
CAACTTTTTCTAGAAAAGGCACATTGGGTATCATTACATTCTTGAGT

5267/5332
FIGURE 4565

TCCTATCCACCCTCCACTCCCCTGTCCCTTGGTGACTCATCCCTGAGCTTCCCAAGGAAGCCCCACCCTCTGCC
CTTTCCTCCCGCCTTCCATGAGTGGAATAACACCTCCGCCCCCTATAGCAGGCCAGCCCCCTTCTCCCCAGTC
TCCGACCCCATCCCCAGCCGACCAGTTTCTCTCCAGGACCAGGAGCAATCACAGCTGCCCGACCTTGGCTT
CCTCTGCTGGGTGGGATTGGGGGCTGGGCCCCAAATGGGCCCTGGCTTCCCCCTTCTCTGGGCAGGGGACAG
AGAGACACAGGCTCGGGGAGCAGGACTGACTTCCTCTTGTCCCGGAATGAGCATGCCTGCCCTTTGCAAGCAGGT
TTGGGTCTCACGCAGAGGAAACAAAAGCAATAAGAGGGAGGGAAGGCAGAGCAACCAATCAAGGGCAGGGTGAG
ACTCAAAACGAGCGGGCTCCCTGGGGAGCCAGACAGAGGCTGGGGGTGATGGCGGAGCTACAGCAGCTGCAGGAG
TTTGAGATCCCCACTGGCCGGGAGGCTCTGAGGGGCAACCACAGTGCCCTGCTGCGGGTCGCTGACTACTGCGAG
GACAACTATGTGCAGGCCACAGACAAGCGGAAGGCGCTGGAGGAGACCATGGCCTTCACTACCCAGGCACTGGCC
AGCGTGGCCTACCAGGTGGGCAACCTGGCCGGGCACACTCTGCGCATGTTGGACCTGCAGGGGGCCGCCCTGCGG
CAGGTGGAAGCCCGTGTAAGCACGCTGGGCCAGATGGTGAACATGCATATGGAGAAGGTGGCCCGAAGGGAGATC
GGCACCTTAGCCACTGTCCAGCGGCTGCCCCCGGCCAGAAGGTCATCGCCCCAGAGAACCCTACCCCTCTCACG
CCCTACTGCAGGAGACCCCTCAACTTTGGCTGCCTGGACGACATTGGCCATGGGATCAAGGACCTCAGCACGCAG
CTGTCAAGAACAGGCACCCTGTCTCGAAAGAGCATCAAGGCCCTGCCACACCCGCCTCCGCCACCTTGGGGAGA
CCACCCCGGATTCCCGAGCCAGTGACCTGCCGGTGGTGGCCGACGGCAGACTCTCCGCCGCCTCCTCTGCGTTT
TCCCTGGCCTCGGCCGGCAGCGCCGAAGGTGTGGTGGGGCCCCACGCCCAAGGGGCAGGCAGCACCTCCAGCC
CCACCTCTCCCCAGCTCCTTGGACCCACCTCCTCCACCAGCAGCCGTCGAGGTGTTCCAGCGGCCTCCACGCTG
GAGGAGTTGTCCCCACCCCAACGGACGAAGAGCTGCCCTGCCACTGGACCTGCCTCCTCCTCCACCCCTGGAT
GGAGATGAATTGGGGCTGCCTCCACCCCAACAGGATTGGGCTGATGAGCCCAGCTGGGTGCCTGCCTCATA
TTGGAGAAAGTGGTGACACTGTACCCATACACCAGCCAGAAGGACAATGAGCTCTCCTTCTCTGAGGGCACTGTC
ATCTGTGCTACTCGCCGCTACTCCGATGGCTGGTGCAGGGGCTCAGCTCAGAGGGGACTGGATTCTTCCCTGGG
AACTATGTGGAGCCCAGCTGCTGACAGCCAGGGCTCTCTGGGCAGCTGATGTCTGCACTGAGTGGGTTTCATGA
GCCCCAAGCCAAAACAGCTCCAGTCACAGCTGGACTGGGTCTGCCACCTCTTGGGCTGTGAGCTGTGTTCTGT
CCTTCTCCCATCGGAGGGAGAAGGGGTCTGGGGAGAGAGAATTTATCCAGAGGCCTGCTGCAGATGGGGAAGA
GCTGGAAACCAAGAAGTTTGTCAACAGAGGACCCCTACTCATGCAGGACAGGGTCTCCTGCTGCAAGTCCCAAC
TTTGAATAAAACAGATGATGTCTGTGACTGCCCCACAGAGATAAGGGGCCAGGAGGGATTGAAAGGCATCCCAG
TTCTAAGGCTGCTGCTAATTACAGCCCCAACCTCCAAACCCACCAGCTGACCTAGAAGCAGCATCTTCCCATTTC
CTCAGTACCCACAAAGTGACGCCACATTGGACCCAGACACCCCTCTGCAGCCATTGACTGCAACTTGTTCCTT
TGCCATT

5268/5332

FIGURE 4566

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACCTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTGCGCCAG
CCAGCTTCCTCGCATCTTCACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACCTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAATAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGCCAGATTTGTGGTGGA
AAAGGCTGAGCAACAGAAAAAGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCAGCTCTCGGAACATCACCTACCTGCCAGCGGGGAGTCCGTGCTCCTCCAGCTGCCCCAGTGAAGGGCCCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCCTTCTGCTCCACC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAAACTCTTTTATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCTGCTGGAGTTCGGCCTGGGCACCAGCATTGG
CAGCACGCAGGCGGGGAGTATGTGATGAGTGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCTCCGTC
CTGTCACTGATGGAAGGTTTGCGGATGAGGGCATGTGCGCTGAACTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTAAGTGGGCACAGATTGAAGAATCTGCCCTG
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCAGGGTCTAAAACCTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCTGTTGAAGACTTCCTCTACCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACCTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCTTGGC
CCCCCATTCAGAGACTGCCCTTCTACAGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAATGACACCCAGACCTTCC

5269/5332
FIGURE 4567

AGATCGATCTAAGATGGCGACCGTCGAACCGGAAACCACCCCTACTCCTAATCCCCCGACTACAGAAAAGGAGAA
AACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCCTACAGAACAGATGGGCACTCTG
GTTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGA
CTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTAAAGGA
TGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCA
GAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTGATGACTACAG
TGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGA
AAACAGAGAAGCTGTTACACATATAGGGAGGGGTATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGG
TTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCACTAAAAATAGGTTTGTGTTTAAAGAAGACAC
CTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGC
AGAGTGGACTGCATTTAAATTTGATTTCCATCTAAATGTTACTCAGATATAAGAGAAGTCTCATTGCGCTTTGTC
TTGTACTTCTGTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTACACTATCCCAATCAAAGAA
TTACAGTACACATCTCCAGAATCCATAAATGTGTTCTGGCCCACTCTGTAATAGTTCAGTAGAATTACCATTAA
TTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACCTGGCATTCTATACTTTACAGGAAAAAAAATT
CTGTTGTTCCATTTTATGCAGAAGCATATTTTGCTGGTTTGAAAGATTATGATGCATACAGTTTTCTAGCAATTT
TCTTTGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAAATTTATTTGTTTCC
CTACTTGATAATATTAGTGATTCTGATTTTCAGTTTTTCATTTGTTTTGCTTTTGTTTTTTCTCATGTAACATT
GGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTTTTTGT
TTTTTGTAACACAAAGCTTTGCTACAAATTTATGCATTTTATTCAAATCAGTGATCTATGTTTGTGTGATTTCC
TAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGCTGTTTTTG
TATCTTTATGCTGTATTTTAAACATTTGTATTACTTAGGTTATTTTGCTTTGGTTAAAAATGGCTCAAGTAGAAA
AGCAGTCCCATTTCATATTAAAAACAGTGTAACAACTGTAAATAAAATGTGTACAGTGAATTGTCTTT

5270/5332
FIGURE 4568

GAAACCCAGGGAGGGGAGGGGAGGAGAAGGGAGTAATGGGGAGGAGGCCGCGCGGGGTGGGGTCTGGCGGTACGC
GCTGGCTGCGTCGACGTGCTGACGCCATGACGCCCCGGCTGGTGTGTGTCGGTGTGTATGTGTGTGTGTGAGTGT
GCGCGCTCCGAGTGTGTGTATTTGTGTATCGGCGGTCCCGCAGGTCCCGGATGTTGCGGACAGTATGAGGCAA
GCGCAGGGGGACGGGGACCAGCAGCTGTCGCCGCCGCTCTCAGGGTGAAGAGGGAACAGAAATCTTTGCCCCCTG
ACTTTGAAATCTCGTTTAACTTCAAACCTGGCGATGTCAAGGGTTCCAAGTCTCCACCTCCGGCAGAAATGTC
GAGTGGCCCCGTAGCTGAGAGTTGGTGCTACACACAGATCAAGGTAGTGAAATTCTCCTACATGTGGACCATCAA
TAACTTTAGCTTTTGGCGGGAGGAAATGGGTGAAGTCATTAAAAGTTCTACATTTTCATCAGGAGCAAATGATAA
ACTGAAATGGTGTGTTGCGAGTAAACCCCAAAGGGTTAGATGAAGAAAGCAAAGATTACCTGTCACTTTACCTGTT
ACTGGTCAGCTGTCCAAAGAGTGAAGTTCGGGCAAAATTCAAATTCTCCATCCTGAATGCCAAGGGAGAAGAAAC
CAAAGCTATGGAGAGTCAACGGGCATATAGGTTTGTGCAAGGCAAAGACTGGGGATTCAAGAAATTCATCCGTAG
AGATTTTCTTTTGGATGAGGCCAACGGGCTTCTCCCTGATGACAAGCTTACCCTCTTCTGCGAGGTGAGTGTGT
GCAAGATTCTGTCAACATTTCTGGCCAGAATACCATGAACATGGTAAAGGTTTCTGAGTGCCGGCTGGCAGATGA
GTTAGGAGGACTGTGGGAGAATTCCCGGTTTACAGACTGCTGCTTGTGTGTTGCCGGCCAGGAATTCAGGCTCA
CAAGGCTATCTTAGCAGCTCGTTTCTCCGTTTTTGTAGTCCATGTTTGAACATGAAATGGAGGAGAGCAAAAAGAA
TCGAGTTGAAATCAATGATGTGGAGCCTGAAGTTTTTAAGGAAATGATGTGCTTCATTTACACGGGGAAGGCTCC
AAACCTCGACAAAATGGCTGATGATTTGCTGGCAGCTGCTGACAAGTATGCCCTGGAGCGCTTAAAGGTCATGTG
TGAGGATGCCCTCTGCAGTAACCTGTCCGTGGAGAACGCTGCAGAAATCTCATCCTGGCCGACCTCCACAGTGC
AGATCAGTTGAAAACTCAGGCAGTGGATTTCACTCACTATCATGCTTCGGATGTCTTGAGACCTCTGGGTGGAA
GTCAATGGTGGTGTACATCCCCACTTGGTGGCTGAGGCATAACCGCTCTCTGGCTTCAGCACAGTGCCCTTTTCT
GGGACCCCCACGCAAACGCCTGAAGCAATCCTAAGATCCTGCTTGTGTAAGACTCCGTTTTAATTTCCAGAAGCA
GCAGCCACTGTTGCTGCCACTGACCACCAGGTAGACAGCGCAATCTGTGGAGCTTTTACTCTGTTGTGAGGGGAA
GAGACTGCATTGTGGCCCCAGACTTTTAAAACAGCACTAAATAACTTGGGGGAAACGGGGGGAGGGAAAATGAAA
TGAAAACCTGTTGCTGCGTCACTGTGTTCCCTTTGGCCTGGCTGAGTTGATACTGTGGGGATTCAGTTTAGGC
GCTGGCCCCGAGGATATCCAGCGGTGGTACTTCGGAGACACCTGTCTGCATCTGACTGAGCAGAACAAATCGTCA
GGTGCTGGAGCAAAAAGG

5271/5332
FIGURE 4569

GATGTCCGGCTGGAGCTGTGCGCTCCGCCGCCGCTGCTGCCGGTGCCGGTTGTGAGCGGGTCTCCAGTCGGCTCC
TCTGGGCGTCTCATGGCCTCTAGCAGCTCCCTGGTGCCCGACCGGCTGCGCCTGCCGCTCTGCTTCTTGGGTGTC
TTTGTCTGCTATTTTTACTATGGGATCCTGCAGGAAAAGATAACAAGAGGAAAGTATGGGGAAGGAGCCAAGCAG
GAGACGTTACCTTTGCCTTAACCTTTGGTCTTCATTCAATGTGTGATCAATGCTGTGTTGCCAAGATCTTGATC
CAGTTTTTTGACACTGCCAGGGTGGATCGTACCCGGAGCTGGCTCTATGCTGCCTGTTCTATCTCCTATCTGGGT
GCCATGGTCTCCAGCAATTCAGCACTACAGTTGTCAACTACCCAACCTCAGGTCCTTGGTAAATCCTGCAAGCCA
ATCCCAGTCATGCTCCTTGGGGTGACCCTCTTGAAGAAGAAGTACCCGTTGGCCAAGTACCTGTGTGTGCTGTTA
ATTGTGGCTGGAGTGGCCCTTTTCATGTACAAACCCAAGAAAGTTGTTGGGATAGAAGAACACACAGTCGGCTAT
GGAGAGCTACTCTTGCTATTATCGCTGACCCTGGATGGACTGACTGGTGTTCCTCAGGACCACATGCGGGCTCAT
TACCAAACAGGCTCCAACCACATGATGCTGAACATCAACCTTTGGTCGACATTGCTGCTGGGAATGGGAATCCTG
TTCACTGGGGAGCTCTGGGAGTTCTTGAGCTTTGCTGAAAGGTACCCTGCCATCATCTATAACATCCTGCTCTTT
GGGCTGACCAGTGCCCTGGGTGAGAGCTTCATCTTTATGACGGTTGTGTATTTTGGTCCCTGACCTGCTCCATC
ATCACTACAACTCGAAAGTTCTTCACAATTTTGGCCTCTGTGATCCTCTTCGCCAATCCCATCAGCCCCATGCAG
TGGGTGGGCACTGTGCTTGTGTTCTGGGTCTTGGTCTTGATGCCAAGTTTGGGAAAGGAGCTAAGAAGACATCC
CACTAGGAAGAGAGAGACTACCTCCACATCAAGAATATTTAAGTTATTATCTCAAACAGTGACATCTCTTGGGAA
AATGGACTTAATAGGAATATGGGACTGAGTTCCAGTCTTTTTTAATAAAATAAAATCAAGC

5272/5332
FIGURE 4570

GCAGCCGGGAGAGCCATGGCGGGGGCCGCAGCGGGCGGCAGAGCGGAGGTGCCTGGGGGCCGGGGCGCGGAGGG
GCCGGGGGGCTCCGGCGGGGCTGCTCTCCCCAGCCCCCGCGGCTCCCCCGGGCTGGGCTGCAGCCGCTCAGG
GCCACGATCCCCTTCAGCTGCAGCAGCCGCACCAAGCGCCGGGACGGGGGTGGCCGTGCAGCCAGCGTCCCATGC
TCGGTGGCCCCAGAAAAGTCAGTGTGTAGGCCTCAGCCACTTCAGGTCCGGCGTACATTCTCCCTGGACACCATC
CTCAGCTCCTACCTTCTGGGCCAGTGGCCACGAGATGCTGATGGGGCCTTCACCTGCTGCACCAATGACAAGGCC
ACCCAGACGCCCCCTGTCCTGGCAAGAGCTAGAAGGTGAGCGTGCCAGTTCTGTGCACACAAGCGCTCAGCATCC
TGGGGCAGCACAGACCACCGAAAAGAGATTTCCAAGTTGAAGCAACAACCTGCAGAGGACGAAGCTGAGCCGCAGT
GGGAAAGAGAAGGAGCGAGGTTTACCACCTCTAGGGGACCACGCAGTGCGGGGAGCACTGAGGGCGTCCCCCTCC
AGCTTCCCCCTCAGGGTCCCCCTGTCTTGCGACTCAGCCCCTGCCTGCACAGGAGCCTGGAAGGGCTCAACCAAGAG
CTGGAGGAGGTATTTGTGAAGGAGCAGGGAGAAGAGGAGCTGCTGAGGATCCTTGATATCCCTGATGGGCACCGG
GCCCCAGCTCCTCCCCAGAGTGGCAGCTGTGATCATCCCCTCCTCCTCGAGCCTGGCAACCTTGCCAGCTCT
CCTTCCATGTCCTTGGCATCTCCCCAGCCTTGTGGCCTGGCCAGTCATGAGGAACATCGGGGTGCCGCCGAGGAG
CTGGCATCCACCCCCAACGACAAAGCCTCCTCTCCAGGACACCCAGCCTTTCTTGAAGATGGCAGCCCATCTCCA
GTCTTGCCTTTGCTGCCTCCCCCTCGACCTAATCATAGCTACATCTTCAAACGGGAGCCCCCAGAAGGCTGTGAG
AAAGTGCCTGTGTTTGAAGAAGCCACGTCTCCAGGTCTTGACCTGGCCTTCTGACTTCTGTCTGACAAGAAC
AAAGTCCATTTCAACCCGACTGGCTCAGCCTTCTGCCCCGTCAACCTGATGAAGCCCCCTCTTCCCCGGCATGGGC
TTCATCTTCCGTAACCTGCCCCCTCAAACCCGGGATCTCCCCCTTCCCCCGGCCAGCCCCAGGCCACCACCTCGGAAG
GATCCGGAAGCCTCCAAGGCCTCCCCACTGCCATTGAGCCATGGCAGCGCACCCCACCATCAGAAGAGCCTGTG
CTTTTCCAGAGCTCCCTGATGGTCTGAGGGTCCCACCCCTGCCCCACTTTACCATAGAGACCAGTGCCTTGGTGG
CAGGTCCCTCCCCAGGTCCCTGAGATGGGGTATGGAGGGGCCCTTCCCTCTCGGCCTTCGAGCACTTTCTTTCA
CTTACTGTGTCAAAGCCCTGGGTCTCTTTTGTATGGGCACCGGGCCCTCTGAACGTGATGGGACCTGCCTTCTC
CACTAGTAGCTGGGCAGCTCACAATTCACACCTGTGTACCTGCCACATCCCTCACTTGGTGAAAAACACCCAGAA
GGTCTTGAGTCCCCCACCCTGGGTGTGAGTCCAAATGACTGTATAGGAGGCCCTTATTTTGTACAGAGCAAG
CTGGCCATGAACGAAGGAGAGAAGACGCCACAGATTTCTTCCCTCTCCTCCAGGAGACCATAAGATAGATCCCC
CATCTCTCAGCCCTATTCCCATGCCTCCCTCTCATTGGAGGAGCTGACCAAAGCAGCCCTAACGGGGCCATAACA
CTTGACCAATTCAGCTGCTGGCAGAGGGAGGAAACAAGTGTTCCTTCCCAAGTGGCATTTTCATCTCGCTTTCACCC
TGACTAAAGATTGTCTTAAGTAGCAGCCAGCCCGCCAGCCCAAGGTGGGTAGTGGGGAGGAGAGCTGGCATT
CTCCAGGTGGCAAATGGCGACTCTATACTCTCCGCCCCGCCAGGGCTGGATGGATTAGAAAAATGCCTATTTTT
CTTGATCGATGTAGAGACTCTATTTTCTCCCAAAGACACTATTTTGCAGCTGTTTGAAGTTGTATATTTTCC
GTACTGCAGAGCTTACACAAAATTGAAGAATGTTAATGTTTCGAGTTTTCTTATCTTGTGTTTAGAGGTTGTTTT
TGCAGATCTTGGTGTAAATAGACCAAATAAATAAATAAATATTCCAGC

5273/5332
FIGURE 4571

GCCGCTGCCCGAATCGGAACCGTCGGGCGCAGCCGCCGGCAATGCCGGAAGGAAGAGGAATGCAGGCAGTAGT
TCAGATGGAACCGAAGATTCCGATTTTTCTACAGATCTCGAGCACACAGACAGTTCAGAAAGTGATGGCACATCC
CGACGATCTGCTCGAGTCACCCGCTCCTCAGCCAGGCTAAGCCAGAGTTCTCAAGATTCCAGTCTGTTCGAAAT
CTGCAGTCTTTTGGCACTGAGGAGCCTGCTTACTCTACCAGAAGAGTGACCCGTAGTCAGCAGCAGCCTACCCCA
GTGACACCGAAAAATACCCTCTTCGGCAGACTCGTTCATCTGGTTTCAGAACTGAGCAAGTGGTTGATTTTTCA
GATAGAGAACTAAAAATACAGCTGATCATGATGAGTCACCGCTCGAACTCCAAGTGAATGCGCCTTCTTCT
GAGTCTGACATAGACATCTCCAGCCCCAATGTATCTCACGATGAGAGCATTGCCAAGGACATGTCCCTGAAGGAC
TCAGGCAGTGATCTCTCTCATCGCCCCAAGCGCCGTCGCTTCCATGAAAGCTACAACCTCAATATGAAGTGTCTT
ACACCAGGCTGTAACCTCTCTAGGACACCTTACAGGAAAAATGAGAGACATTTCTCCATCTCAGGATGCCCACTG
TATCATAACCTCTCAGCTGACGAATGCAAGGTGAGAGCACAGAGCCGGGATAAGCAGATAGAAGAAAGGATGCTG
TCTCACAGGCAAGATGACAACAACAGGCATGCAACCAGGCACCAGGCACCAACGGAGAGACAGCTTCGATATAAG
GAAAAAGTGGCTGAACTCAGGAAGAAAAGAAATTCTGGACTGAGCAAAGAACAGAAAGAGAAATATATGGAACAC
AGACAGACCTATGGGAACACACGGGAACCTCTTTAGAAAACCTGACAAGCGAGTATGACTTGGATCTTTTCCGA
AGAGCACAAGCCCCGGGCTTCAGAGGATTGGGAGAAGTTAAGGCTGCAAGGCCAAATCACAGAGGGAAGCAACATG
ATTAACAACATTTGCTTTTGGCCGCTATGAGCTTGATACCTGGTATCATTCTCCATATCTGAAGAATATGCACGG
CTGGGACGTCTCTATATGTGTGAATTCTGTTTAAAAATATATGAAGAGCCAAACGATACTCCGCCGGCACATGGCC
AAATGTGTGTGGAACACCCACCTGGTGATGAGATATATCGCAAAGGTTCAATCTCTGTGTTGAAGTGGATGGC
AAGAAAAACAAGATCTACTGCCAAAACCTGTGCCTGTTGGCCAACTTTTTCTGGACCACAAGACATTATATTAT
GATGTGGAGCCCTTCTGTCTATGTTATGACAGAGGCGGACAACACTGGCTGTCACCTGATTGGATATTTTTCT
AAGGAAAAGAATTCAATCTCACTACAACGTCCTCTGTATCCTTACTATGCCTCAGTACATGAGACAGGGCTAT
GGCAAGATGCTTATTGATTTAGTTATTGCTTTCCAAAGTGAAGAAAAGTTGGCTCCCCAGAACGTCCACTC
TCAGATCTGGGGCTTATAAGCTATCGCAGTTACTGGAAGAAGTACTTCTCCGCTACCTGCATAATTTTCAAGGC
AAAGAGATTTCTATCAAAGAAATCAGTCAGGAGACGGCTGTGAATCCTGTGGACATTGTCAGCACTCTGCAAGCC
CTTCAGATGCTCAAATACTGGAAGGGAAAAACCTAGTTTTAAAGAGACAGGACCTGATTGATGAGTGGATAGCC
AAAGAGGCCAAAAGGTCCAACCTCAAATAAAACCATGGATCCCAGCTGCTTAAATGGACCCCTCCCAAGGGCACT
TAAAGTGACCTGTCAATCCGAGCCAGCGAACCCACAGCAGTAGGAATCCGTACCCTAGGGATCTGTCTGTCAATTC
TCTGTTGCTCTTGTGATTGGCAAGTACAGTATCCTTTGGGAAGGCCATCCCCCTCAGGACTGTCTGGCTCCGAC
CTTTGTGTACACTGCAGACGCTGGTTCTGAGGAACTGTTGTTTCGGCCTCAGTGAGGTTGCCTGGATGGGATCTG
TATTAGACTTGAGTGCAGGTCTCTCAGCACTGACCCAAGGAGTTCTGTTATGGTACTGTACCTGTCCAGTCACTG
GTTCTCTCTCATGTCTCTCGCCCCATGAGGTTGTGTTGTGTCTTCTAAGCGTGGTACTAGTGCTTGCCACCTG
GTCACCAGACCTCAAATATGGCTGCCACCACCAGGACCTTTCCAGTTACTCCTTATATGTGTGTTCTATGGAGG
GGCAGGGAAAAGGTGGCACTTGTGAGTGTGTGTGGATTGGCAGGGGGTCCATTCACTTTGGGTTCCATCTTGCTT
TAAATTTCTTCATTTTGATTAAGAGACCTCTTTTTGATCTGTATTGGGCTAACCAGAGCCAAATACTTTTGAAGA
GTTTCCCAGGGACTAGTCATGGTAATAGCATATAATTGATCTGAATGAGATGGAGAGAAGAATGAAGGGGTGGTG
GTTCTGGGTTTGATTTGAGTTCACCTGTGGGCAGTGGGCAGTGGGCAGTGTCTTGGTGAAAGGGAACGGATACTA
CTTTTGCCTCACCGTAAAGTACTCACTAGTAAATATTTCTTCTCTCTTTACTCCCACTTTTACGTTTGCAGG
TGCCAAAGTAATGTCCACTTTTCCCTTTCATGCTGCATATTAACCTGGTTAATTATACTGCAGAAACCTTTTACC
TCCACTAGTCTGATACAGTACATCTGTACTTCCATATACCTTGCACTGATTTTGTCTGAGTGCCCTGGGAGAAGT
AGAAAATGATTGAAAGTGACTTCCGTATCTCAGCCCATGACTCAGCAAGGCAGAATGGCCACCCCTGCCAAAGTT
TGCTTCTCTTTTCAACAGTGCCTCACCTCCCTCTAGGATTAAAGTGCTTCTGCCCTTCCACGAACCTCTCTCTC
ATTTCTTTTGGGATTTGTCAACCATCTTCTATTCTCTGGTCTTCTATTTTTGGTGTGTGTCAAGTGAAGGAAG
AGATGTTCCCTCTAATTTCTCTAGCCATTATAACCTGCTATCTTGGGGCAACTTTTGATGTATGACATGTCA
CCCTTCCCAACTTGGTCTCTCTCAACATGCTGTCTTATGTGGAGCCCTCACCACAATCCCTGACTCCGGTCATT
TGTGCCTTTCTCTTGTCTCTCTGTACTACTTATTTACTGTGGGTTGGGGGAGCTAATTTAAGCATGTTT
AGTGGCAGCTCCCTCCAGTTTCAGTGTCACTGTATAAAATTTATCAAAAAGCAACTTCACTAGGGGTTTTCTTAA
GGGATAAAGGCCTTTTACAGAAGCTAAACCCTTCCCCACATGTGGTAGAATGTGCTCTTCTATATCTACTCTCA
ATAAAGCATGTTCTCTGCTC

5274/5332
FIGURE 4572

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTCTTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAGAAGAACTTTAGCTAAAATCTTCCAGTTACATTGCTTACTCTCTTTTACTTCTCAGACACTTCCC
CCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTCACAGCTTTGCCTCTTCTTTTGGATGTATTTATTCCAGA
CCTTTCTGCCACTTAGCACTTGTATAATCAGACTGGAAATGGGGATGAGGGTGTAAATTGTATTGAAAAAGATCG
CGAATAAAAAATCAACAAATGTGAAAGCCCAGAAAAATATATTCGTATTTCTGGTTTTGCTGGATTTTACATTTT
TATATAATAAAAAATGTTATTTTGAATAAAGATTATGCTGACTCAAATGCAATGT

5275/5332
FIGURE 4573

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCCATCAATTTACCATGTTCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTT

5276/5332
FIGURE 4574

GCGCCGAGCAGGAGCAGGGAACAAAGGAGCGGAGAGGGGAGGGGAGAGAGTTGGGCGAGGGAGAGCCCCGGCCG
GCTGCCAGAAGATCCCGCGGGAGGAAGCCCAAGTGTACATTGAATTCCACCCAAGGAGCGGGCGCCTGGGATCA
GAGCGTCTGTTTAGCAATAACGGCTGGAGCACGTCTACAAGTTACGGGAGAGTCCGGCTGTGAAGGAGACGTTT
GCTTATCCCCCTGTGTCCCCGCTCCTGGCCCCCTCCAGACCCCCAGCCTTGCCCTCGCGCTGGGAGGGGAGATCCAGAA
TGAAAGGCAAGAAAGGTATTGTTGCAGCATCTGGCAGTGAGACTGAGGATGAGGACAGCATGGACATTCCCTTGG
ACCTTTCTTCATCCGCTGGCTCAGGCAAGAGAAGGAGAAGGGGCAACCTACCCAAGGAGTCTGTGCAGATTCTTC
GGGATTGGCTGTATGAGCACCGTTACAATGCCTATCCTTCAGAGCAAGAAAAAGCGTTGCTGTCCCAGCAAACAC
ACCTGTCTACGCTACAGGTCTGTAAGTGGTTTCATCAACGCCCCGCCGAGGCTCCTCCCTGACATGCTGAGAAAGG
ATGGCAAAGATCCAAATCAGTTTACAATTTCCCGCCGTGGGGCCAAGATTTCTGAAACGAGCTCTGTGGAGTCCG
TGATGGGCATCAAAAACCTTCATGCCAGCTCTAGAGGAGACCCCATTTTCATTCTGTACAGCTGGGCCAAACCCAA
CCCTAGGGAGGCCACTGTCTCCTAAGCCGTCATCCCCGGGATCAGTTTTGGCTCGTCCATCAGTGATCTGCCATA
CCACTGTGACTGCATTGAAAGATGTCCCTTTCTCTCTCTGCCAGTCGGTCGGTGTGGGACAAAACACAGATATAC
AGCAGATAGCGGCCAAAAACCTTCACAGACACCTCTCTCATGTACCCAGAGGACACTTGTAATCTGGACCAAGTA
CGAATACACAGAGTGGTCTTTTCAACACTCCTCCCCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGATTTC
AGCTTCTAGTGGATGTTGCACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAAAACCTTACAGCTTAACCCATTT
TCAAGCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGTGAAGGCAAGAGATGAATTGCATTATTTTATATAT
TTTTTATTAATATTTGCACATGGGATTGCTAAAACAGCTTCCTGTTACTGAGATGTCTTCAATGGAATACAGTCA
TTCCAAGAACTATAAACTTAAAGCTACTGTAGAAACAAAGGGTTTTCTTTTTTAAATGTTTCTTGGTAGATTATT
CATAATGTGAGATGGTTCCCAATATCATGTGATTTTTTTTTTCTCCCTTCCCTTTTTTTGTTATTTTTTCAG
ACTGTGCAATACTTAGAGAACCTATAGCATCTTCTCATTTCCCATGTGGAACAGGATGCCACATACTGTCTAATT
AATAAATTTTCCATTTTTTTTTTCAAACAAGT

5277/5332
FIGURE 4575

TCAGAAACCCTGATTTGAGCCAGACGTCCAAAGTCAAACCTCCGGGTGGACATTCCCCTCAGGTGAACCATCTGA
AAAGACCAGTCAGTGGAGTGGGGGACGCTCCAGGCACCAGCAATGGCGCAACTGTCTCTTCCACCAAAAGGCACA
AGTCCCTTTTTTCAGTGCAGCAATGTAGTTTTGCCACAGACTCGGGGCTCGAATTTAGAGCCACATACCTAAGC
ACCAGGTGGACAGCTCCACAGCCCAATGTCTCCTCTGTGGTTTGTGCTACACCTCTGCCAGCTCCCTCAGCCGCC
ACCTCTTCATTGTCCACAAGGTGAGAGACCAGGAGGAGGAGGAGGAAGAGGAGGCGGCGGCAGCGGAGATGGCAG
TGGAGGTGGCAGAGCCAGAGGAGGGCTCCGGGGAGGAGGTGCCCATGGAGACTAGAGAGAATGGACTGGAAGAAT
GTGCCGGTGAGCCTTTGTGCGCTGACCCAGAGGCGAGGAGATTGCTGGGCCCCGGCCCCCTGAGGACGACGGTGGCC
ACAATGATCACAGTCAACCACAGGCCCTCTCAGGACCAGGACAGCCACGCACCATCCCCTCAGGTGTGACCGGAGA
CTTTGCAGTGTGCATGGTCAGGGGTGGTGCCGAAGCGTCTTCCACCTGCCGTGCGGACCGTGGAAAAATAAAAGGC
TCTGCCCCCGGGGTGAGTGTGGCCGGTTGTACCCTGCAGTAGCGTCTGCCCTGAGCTGCCAGTGCTGGGTATCCC
CCAGCCCCAGGAAATGTGGGGTCGGCCGGGACCCTCACAGCTCTGAATTTGCTTCTGTTATTTACGGCTTTTTGC
TGCTTCTTGGTACCCCATCTCCTGTCTGTGTCTTCCAACCCAGGCTGCTTATGTGGCCCAACCCCAATGCTGT
CAACTAGGCTTGAACCCACAGCGGCTGTGCTCTTCTGGGAGGTTCCTCGCTTGCTGCCTTCAGCCAGGGCGCTCC
TCAGAGCCCTGTTTTCTGCAGACACCAGCTCTCCTTCCTGCCTTTAGATCCTGAGAAGGAGGAAATGAGGGGT
GCTGACACAGTCCCTCTGGGAGAGCTCTGCCTAGTCTGGTTTGGTGAGGCCCTTGATCACCTTGGCCCTCCTCCC
TGTCTTCTCTGATTCTTTTCCCTCAAAATAGTCTGAGAACTAATTGTCACAGACATTGGAATATTTGTACTGCT
CTCGTGCCATTTGAGAGGCTGCTGCCCCAGGCAGGCCAGCCCCCTACTCCTCTTGGCTACACTCATGTTGCTCAGA
CTATATTTCAAATAAAAAAATCTTCTCACC

5278/5332
FIGURE 4576

ATGAAGGATCCCAAACAGATGATCCGAGACATGGAGAAATTGGATGAAATGGAGTTTAACCCAGTGCAACAGCCA
CAATTAAATGAGAAAGTACTGAAAGACAAGCGTGAGATGAAGGCATGGTACATAGTCCTGAAATTGCCCAGCGAG
GTCATGATGATGATGTTTTTAGCACCAGTGAAGATGATGGCTATCCTGAGGACGTGGATCAAGATAAGCATGATG
ACAGTACTGATGACAGTGACACCGACGGATCAGATTGAGAAAGTGTGCGCCATGATGATGAAGTCAGGTCTGAGT
GTACGGTTTTGCAGATATGCCTGGAAAATCAAGGAAGAAAAAACCATGAAGGAACTGACTCCTCTTCAAGCCACG
ATGCTTCGTATGGCAGGTCAAGAAATCCCTGAGGAGGGACGGGAAGTAGAGGAATTTTCAGAGGACAATGATGAA
GATGATTCTGATGACTCTAAAGCAGAAAAACAATCACAAAAACACAATCAAGAGGAACTGCATTCTGATGGCACA
TCCACTGCTTCTTCACAGCAGCAGGCTCCCCGGCAGTCTGTTCTCCTTCTCAGGAGCTCCTCCTGAGACCACCT
GGAATGCCAGGACTCGGCCTTTACCTGACTTTTACCTCCACGACCACCGACTTTTACTACCTCCCCCACGTCTA
CCTCCAAGTCTGCCCCCTGGTCCCCCTCCTCGGGAACCCCCACCAAGGATACCTCCCCCTGCACCTCCAGCTCCC
TTGCTGAACCTGAGATTTTAAGTGCCCCACCCGGCTTGATTGAGCGATCCAAGGTAGATAATAACAAGTGCAGCC
ACCGTTGAGAAGAAAGCCACAGCAACCGTCACTGCCAAACCACAGATCACTAATCCCAAGGCAGAGATTACTCGA
TTTGTGCCCAGTGCATTGAGAGTACGTGCGGAGAATAAAAGGGCTACTGCTGCTTCCCAAAGAAAGTCAGAGGAT
AATTCTGCTGTGCCTCTTGCCAAAGCAGCACCCAAATCTGGTCTTCTGTTTCTGTCTCAGTACAAACTAAGGAT
GATGTCTATGAGGATTTTCATGAAAGAGATGGAAGGGCTACTGTGA

5279/5332
FIGURE 4577

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGCTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACATGATGAGAGCCT
GAGGAGCCATTTTGTAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTAGAAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGTCTCATCCAGCCAAAGAGGTGCAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTTCGGTGGGAATGACAACTTCGGTCATGGAGGAACTTCAGTGGTCTGGTGGCTTTGGTGG
CAGCCGTGCTGGTGGTAGATATGGTGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAACTCTGGCCCCATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTA
TGGCGGTTCCAGCAGCAGCAGTAGCTGTGTCTAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAG
GAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGG
GCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTGTTT
GTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAA
TGTAATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATGT
CTTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCAACAGTGTGAA
GTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTG
TCTTCGGAACCTTGGTGTAGTTGAACGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAGGGATTACCC
AAACAAAGTCATGGAATGGTTATAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTA
CCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACAATTTAATTC
TCTTGAA

5280/5332
FIGURE 4578

AAGTCTCTCTTCACCCTGCCGTCATGCTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACCTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTGAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTGCGAAGTGGTTCTGGAACCTTTGGTGGTGGTGGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTC
ATGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCTCTAATGGATTGGAATGATGGAAGCAATTTTG
GAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAA
ATTTTGGAGGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAACCACGAAACCAAGGTGGC

5281/5332
FIGURE 4579

AGGGAAGTGGAACTTTCCATGCTGAGTGAAAACCTAACCAAGTGGCAGTTGTGACTGAAAACACTGAAACCTACCA
CGTCCAGATTCACTGGATTGGGGGATAGAGGAACGGTCACAGCTAGGGAGAAAGAAGTGATACCGGAAAAGAAAA
CCTAAATGAAGAGAATGAGGATGACTGCACAGTAGATGCCACCTCTACCTCCACAGAGGCAAAGTCAGCCTCGT
GGTGGAAATTATTTTTTTCTTTATGATGGTTCCAAGGTAAAGGAAGAAGGCGATCCAACAAGAGCTGGCATTGT
ACTTTTATCCTTCCCAGACCCTGCTAGACCAACAGGAGTTGCTTTGTGGACAGATTGCTGGAGTTGTCCGCTGTG
TTTCTGACATTTCTGACTCTCCTCTACTCTTGTTCGTCTGAGAAAACCTGAAGTTTGCCATAAAAAGTTGATGGAG
ATTACCTTTGGGTGCTGGGCTGTGCTGTGGAGCTCCCTGATGTCAGCTGCAAGCGGTTTCTGGATCAGCTAGTTG
GATTCTTTAATTTTTTACAATGGACCTGTTTCCCTAGCTTATGAGAACTGTTCTCAGGAAGAACTGAGCACGGAGT
GGGACACCTTCATCGAGCAAATCTGAAAAACACCAGTGATCTGCATAAGATTTTCAATTCCTCTGGAACCTTG
ACCAAACCTAAAGTGGAGCCCTGTTGTTGCTGAAGGCAGCCCGCATTCTGCAGACCTGCCAGCGCTCGCCTCACA
TTCTCGCTGGCTGCATCCTCTATAAAGGACTGATTGTGACAGACCCAACTCCCGCCCTCCCTCACCGCCAAGGTCC
TGCTTCACCGAACAGCACCTCAGGAGCAGAGACTCCCTACGGGAGAGGATGCCCCGAGGAACATGGAGCGGCAT
TGCCCCCGAATGTCCAGATTATCCCTGTTTTTGTGACCAAAGAGGAAGCCATTAGTCTCCACGAGTTCCCGGTGG
AACAGATGACAAGGTCTCTAGCATCTCCAGCAGGACTCCAGGATGGTTTCAGCCCAGCACCATCCAAAGGGTGGGA
GCACATCTGCCCTGAAAGAAAACGCCACTGGCCATGTGGAATCCATGGCCTGGACCACCCAGATCCACATCCC
CTGACGAAGCTTGTCCAGATGGCAGGAAGGAGAACGGATGCTTGTCTGGCCATGATCTGGAGAGCATCAGGCCCG
CAGGACTGCACAACCTCTGCCAGGGGTGAGGTTCTTGGCCTCAGCTCCTCCCTGGGGAAGGAAGTAGTCTTTCTCC
AAGAAGAACTCGACTTGTCTGAAATCCACATTCCAGAGGCTCAGGAAGTGGAAATGGCCTCAGGTCATTTTGCCT
TCCTACATGTGCCTGTTCCAGATGGCAGGGCTCTTACTGCAAGGCATCTCTCAGCGCCTCCAGCAGCCTGGAAC
CCACGCCTCCTGAGGACACAGCCATCAGCAGCTTGGCCCTCCCTCTGCTCCTGAGATGCTGACCAGCATGGAG
CCCAAGAGCAGCTCGAAGACCATCCTGGCCATAGCAGCCAAGCCCCCATTCCTCAGAGCAGACCCTCTCCCCAGAA
GGACCCCGCAGGCCCTTGTATTGCTCGCTTAGATCCAGGACAGAGAGGAACAAGCTTCCCACGGGGGAACAAG
GCCTGGATGAGGATGTTGATGGGGTCTGTGAAAGCCACGAGCCCCCTGGTCTGGAATGCAGTTCAGGCTCAGCAA
ACTGTCAGGGGTGCTGGCCCCCTCTGCAGATGGAATCAGCTCCAGGCTGACACCAGCAGAGTCTGTCATGGGGCTCG
TGAGGATGAATCTCTACACTCACTGCGTCAAAGGGCTGGTGTGCTCCCTGCTGGCTGAGGAGCCGCTGCTGGGAG
ACAGCGCAGCCATAGAGGAAGTGTACCACAGCAGCCTGGCTTCACTGAATGGGCTGGAAGTCCACCTGAAAGAGA
CGCTGCCCCAGGGATGAGGCAGCCTCCACGAGCAGCACCTACAACCTTACACATTACGACCGCATTTCAGAGCTTGC
TGATGGCAAACCTGCCGCGAGGTGGCCACCCCGCAGGATCGCCGCTTCTCCAGGCCGTCAGCCTGATGCATAGCG
AATTTGCCCAGCTGCCCGCGCTTTATGAAATGACTGTGAGAAATGCCTCCACGGCTGTGTACGCCCTGTTGCAACC
CCATCCAGGAGACATATTTCCAGCAGCTGGCACCTGCGACACGGAGCTCCGGCTTCCCAAACCTCAGGATGGCG
CCTTCAGCCTCTCCGGCAAAGCAAAGCAGAAGCTGCTGAAGCACGGGGTGAACCTTGCTCTGAAGTGCACCCAGGA
GGTGAAGTGGGAAGGAGAAAACAGCAAAGGAAGCTCTGCCCTTTATAATTGAAAAGGCCCTCTATTTTATTTTT
CTTGAAAACATTCCCTTTTTTTAGGAACCAATGATATTTGAGTTTTTGTATTCTTTTGCAGATTGGGATGTGT
TTTGGGGGCAGGGGTTAGTTCTTCAGGTCGGCAGACCCAGAGCACTTGATAAAGAACTGTATTTAATCGGTAGTG
TTGGGGCCGGGACGGGCTTGGCTCCCTCTCTGCCATACTGAGCCTGAGGTATTTTCATATCTCCTGCTGTTCATC
CCAGCTTGAATTGGTGCCACAAGCTTCCAAGTTGGCATTCTTTCTAGAACCTGATCGTCCACTAGCCAGAGTGT
GTGTGTTCAACCCCCACACCAGGTGGTGGTAGGCGGTGTGACTGCACAGCGAGGTGCCGGATCTGTGAGCAGGCC
GACTCCACTCCCACGCCGAGGTAGGTTTCTCCAGTGCCTCTTGTGTTGGAGGTCCGGATCGTTCTGTCAGGGAA
GCGGCAGCACACGGAGACCACTTGGTTGAATCTGTTGGAACCTACTCAAATCTAGGGGCGTCTTCTTGGACC
CACAATGGGGGCAAGCCTTAATAATATGGAAGGGAGTTTGGGCTTTAGAGATCCCTTTATAAAAGCTCTGGGGG
TGAGCCCTGAGAATTCAGTGACAACAGGACCAACCTGCGCTGCTTTGACTACAAGTGGGCGGTGAGCTGGTTC
CTCTCGAGCGAGTGTCCCTAAATAGGAGTTTACAAGATGTCTGGGGGTAAGAACTGTGCTTTTTCAGTGGTGGC
TGCGTGAAAGGGGAGCGACACTCAGCTGTGTGTTCTTGGGCTTGTGTGGTACTTAGAACCTCAGTTCTATTACGTT
ATAGTCAGACATTTTTTTGACAGTATGAGACAGACTGCAGGATGAAAATATTTGTCAAATCTTAAGTGAATGTT
TACTGGAAGTACTTGAGATTCCATTTGAGAGTTGTATTGTTAATAATTTTCATGTGAGTGAAGTGAATCTGATGT
TTATGATATGGTGTCTTTTTCTTGAAACAAGCTTCCAAGGGCTAGAAATAAAATAGCCAAAAAATGCTGGAGTTC
TGAGTAATTA

5282/5332
FIGURE 4580

GTCAGAGACCAATGGCTGCGGCCGCGAGCTGCGGCGCTGGAATCCTGGCAGGCGGCGGCTCCGCGGAAGAGGCGCT
CCGCGGCTCGACGGCCGCGGCGGAGGGAGGCGGCGCCCCGGGGGAGAGAGGCGGCGCCCCGGGGGAGAGAGGCGG
CGCCCCGGGGCCCCGAGGCGGAGTTTCGAGTCTGACAGCGGAGTCGTGCTTCGTTCGCATCTGGGAGGCTGAGAAGG
ACCTGTTTATCTCTGATTTCTGGAGTTCAGCACTAGAAAACCATCAATAGATGTCTCACAAAACATCTGGAACAAC
TGAAGGCCCCCTGTGGGACTCTTTTCAGACATCTTTGGAAAACCTGCATCTTGACTCATTGCCAGAGGAGTCAGATG
TGGCCACTGATTCTATCCCAAGAGAGATCTTGGTCACAGGAACCTGCCATTTGAAGTGTGTGTGTTACGGCATTG
GGAACTTTGCCACCTGCATCGTAGCTAGAAAACAGCTAACGTTTTTGCTGCTTTTGTGGAAAAGTGCCAGATTC
CCAGAAGTCACTGTTGGGTATATGACCCTCTGTTTAGCCAACCTGAAATTGAAGTCCTTAACACCCCTTGGTGTGA
CTGTTCTCAGTGAGAACGAGGAAGGGAAACGGAGTATTCGCGGGGAGCCTACCATCTTTTACATGCTCCATTGTG
GGACGGCCTTGTACAACAATCTTTTATGGAGTAACTGGTCAGTAGATGCCCTTTCTAAGATGGTCATCATTGGGA
ACAGTTTCAAAGGACTTGAGGAGAGGTTGTTGGCAAGGATTCTGCAGAAAAATTATCCCTACATTGCAAAGATTT
TAAAAGGACTGGAGGAGCTTGAGTTTCCTCAGACTTCACAATACATGGACATATTTAATGATACCTCTGTCCACT
GGTTCCTGTGCAAAAGCTAGAACAGCTCTCCATAGATATTTGGGAGTTTCGGGAAGAACCAGATTATCAGGACT
GTGAGGACCTTGAAATCATCAGGAACAAGAGAGAAGATCCTTCTGCTACTGACTGAACACTCGTTGTGAGGTACTCA
GTGTTGGCTGAGGTAGAAGCTGCCAC

5283/5332

FIGURE 4581

CCGGCCACGGTGCTTCCGGGTTCTGGTGTAGGAGCGGCTGCTCTCGCGGATGGTGAAGCTGAATTTGGTACG
CTGGACCCTCGGACAGACAGCAAGAGAGAGACAAGCCCGAGCTTCTGACTTCTAGCATTCTGAGTTTGAGCCCTA
TGAGCAGTGGAACTAGGGACCACCAAGGATCCAGATATAATTCTTTCTCAGTAATAGAAAAGAACTCTGGGA
TCTAAGAAGATACCTACTCATTCTTAAGTGA CTGGCCATGTCATTGTCCCACTTAATACCGGGATGGGGAAGGCC
GCATTGATGATGATGATGACGAGCGGGAGAACTTTGAGATCACTGACTGGGATCTCCAGAATGAGTTCAACCCCA
ACCGACAGCGCACTGGCAGACCAAGGAAGAAGCCACCTACGGGGTGTGGGCAGAGCGAGACTCGGATGATGAGA
GGCCAGCTTTGGAGGCAAACGGGCCCGTGACTACTCTGCGCCAGTCAACTTCATCAGCGCAGGGCTCAAGAAAG
GGGCAGCGGAGGAGGCAGAGTTGGAAGATTCTGATGACGAAGAGAAACCTGTTAAGCAGGACGACTTTCTTAAGG
ATTTTGGACCAAGGAAGCTAAAAACGGGTGGCAATTTTAAGCCCAGCCAGAAAGGTTTTGCAGGAGGAACCAAT
CTTTCATGGACTTCGGCAGCTGGGAAAGACACACAAAAGGAATTGGACAGAAGCTTCTTCAGAAGATGGGCTACG
TCCCTTGACGGGGCCTCGGGAAGAATGCACAAGGTATCATTAAACCAATTGAAGCCAAGCAGAGAAAGGGAAAAG
GTGCTGTGGGGGCTTATGGATCCGAGCGCACTCAGTCCATGCAAGACTTCCCTGTGGTTGACTCAGAGGAAG
AAGCTGAAGAGGAGTTTCAGAAGGAGCTGAGCCAGTGGAGGAAAGACCCAAAGTGAAGCAAGAAGAAGCCCAAT
ACTCTTACAAGACCGTGGAAGAGTTGAAGGCCAAGGGCAGGATTAGCAAGAAGCTCACTGCTCCCCAGAAGGAAC
TTTCTCAAGTCAAGGTCATAGACATGACAGGCCGGGAGCAGAAGGTCTACTACAGCTACAGTCAGATCAGCCACA
AGCACAACGTTCCCGATGATGGGCTGCCGCTACAGTCCCAACAGCTGCCACAGTCTGGCAAAGAGGCCAAGGCC
CCGGCTTCGCGCTGCCGAGCTGGAGCACAACCTGCAGCTGCTCATCGACCTCACGGAGCAGGAGATCATCCAGA
ATGACCGGCAGCTACAGTATGAGCGGGACATGGTGGTCAACCTCTTCCACGAGCTGGAGAAGATGACCGAGGTCC
TGGACCACGAGGAGCGGGTCATCTCGAACCTCAGCAAGGTCTTGGAGATGGTGGAGGAGTGCAGCGCGCGGATGC
AGCCGACTGCAGACAACCCCTCACCTTGGACGAGTGTGCCCGCATCTTCGAAACCTGCAGGACAAGTACTATG
AGGAGTACAGGATGTCCGACCGTGTGGACCTTGCTGTGGCCATCGTCTATCCACTCATGAAGGAGTACTTCAAGG
AGTGGGATCCCTCAAAGACTGCACCTTATGGCACCAGATCATCTCTAAGTGGAAAAGCCTCCTAGAGAATGACC
AGCTCTTGCTCCATGGCGGACAGGACCTCTCAGCAGATGCCTTTCACAGGTTGATATGGGAAGTCTGGATGCCTT
TTGTTCGAAATATTGTACCCAGTGGCAGCCAAAGGAAGTGTGACCCGATGGTGGACTTTTGGATAGTTGGGTGC
ACATTATTCTGTGTGGATCTTAGATAACATACTGGACCAATCATCTTCCCCAAGCTGCAAAAGGAGGTGGAAA
ACTGGAACCCGCTCACAGACACTGTTCCCATCCACTCTTGGATCCACCCATGGCTGCCCTTATGCAGGCACGGC
TGGAGCCACTCTATTCCCCCATCCGTAGTAAGCTGTCCAGCGCCCTGCAGAAGTGGCACCCCGCAGCATCTCTG
CCAAGCTCATCTCCAGCCCTGGAAGGATGTCTTCACTCCTGGCTCCTGGGAAGCATTTCATGGTCAAAAACATAG
TGCCCCAAGCTGGGGATGTGTCTTGGTGAGCTAGTCATTAAACCCCCACCAGCAGCATGATGATGATCTTATTGGG
TGATTGACTGGGAAGGGATGATCTCTGTCTCTAGCCTGGTGGGACTTCTTGAAGAGCACTTCTTCCCCAAGTGGC
TTCAGGTGCTGTGCTCTTGGCTCAGTAACAGCCCAATTATGAGGAGATACCAAGTGGTACCTGGGTGGAAGT
CGATGTTCTCAGACCAAGTGCTGGCAGATCCATCTGTCAAGGACAAATTTAATGAGGCATTGATATCATGAACC
GGGCGGTGTCTCCACGTTGGTGCCTACATGCAGCCAGGAGCACGGGAGAACATTGCCTATCTCACCCACACGG
AGCGGAGGAAGGACTTCCAGTACGAGGCCATGCAGGAGAGGCGGGAGGCTGAGAACATGGCTCAGAGGGGCATTG
GCGTGGCCGCTAGCTCTGTGCCCATGAACCTTAAGGACCTCATTGAGACCAAGGCTGAGGAGCACAACTTGTCT
TCATGCCCGTCATTGGGAAGCGACACGAAGGGAAGCAGCTCTACACCTTTGGCCGCAATTGTGATCTACATCGACC
GGGGAGTGGTCTTTGTCCAGGGCGAGAAGACGTGGGTGCCACCTCACTGCAGAGCCTGATCGACATGGCCAAGT
GAAGTGTGGCAGGTCCAGAACCAGTCAGAGACTTGCCCTAAGAGGGATGTACTGTAAATAAACAGTATTTTTAG
ATCACCTTCAAAAGGGTAACTTCTTTACTCAGGAGCTACTCCACATCAGGCCAGGTTCATGAGGGAAGGATGTAA
ATGGGACAATGCCACGTAGGGCAGGAATCTTTATACCAAGTCTCATGTGGGGTATCGTCTTCAAAACAGGACAG
CCAAGTTGATGTCTTTCTGGCAAAGGAGTTCTCTGTAGTTCTCCATAGCAGCCTTCCCTTTAGTCTCTGGTG
GCAGCTTCTACCTCAGCCAACTAGTACCTCACAACGAGTTTCAGTCAGTAGCAGAAGGATCTTCTCTCTTGT
CCTGATGATTTCAAGGTCTCAGATCCTGATAATCTGGTCTTCTCCCGAACTCCCAAATATCTATGGAGAGCTG
TTCATGCTTTTGACAGGGAACCAAGTGGACAGAGGTATCATTAAATATGTCCATGTATTGTGAAGTCTGAGGAA
CTCAAGCTCTTCCAGTCTCTTTTAAATCTGAGCAGAAAAATTCAGTATAAAAACTTCAGATAGTCACAGTAATC
CCACTCTTCTGGGATAAAATTTCCACTTTACTTGTCACTCCCCTTTACTTTTTAAAAAATAACAAATAGGGTA
TTTTGATTTAAATGCTTTTGCACAATGAATTTGGGCGCCCCAAGGACAGTGGATATCATGGACTGTGATACTAAGA
ATAAAGGAAATAAGGAAAAAACTAAGAGATGCATTAAGA

5284/5332
FIGURE 4582

GGCTCTGCCAGCAGACAGCCTTGGCACACAGGCACAAGGGCTGGAGCCCAGAGATGAGAGTGCCCAAGGGAGATG
TGAGCCTGGCGGGCTGCCCCGCTAACCTGTCTGCTGAAGCCCCAGAAGCGGGCCCTCAGGCCAGGCCTACCTTGCTT
CCGGCCCCAGCATGCGCCTGTCTGGTGCGGAGGGTGCTGCTGGCAGCCGGCTGCGCCCTGGTCCTGGTGCTGGCGGT
TCAGCTGGGACAGCAGGTGCTAGAGTGCCGGGCGGTGCTGGCGGGCCTGCGGAGCCCCCGGGGGGCCATGCGGCC
TGAGCAGGAGGAGCTGGTGATGGTGGGCACCAACCACGTGGAATACCGCTATGGCAAGGCCATGCCGCTCATCTT
CGTGGGTGGCGTGCTCGCAGTGGCACCACGTGATGCGCGCCATGCTGGACGCGCACCCCGAGGTGCGCTGCGG
CGAGGAGACCCGCATCATCCCGCGCGTGCTGGCCATGCGCCAGGCCTGGTCCAAGTCTGGCCGTGAGAAGCTGCG
GCTGGATGAGGCGGGGTGACGGATGAGGTGCTGGACGCCGCCATGCAGGCCTTCATCCTGGAGGTGATTGCCAA
GCACGGAGAGCCGGCCCGCGTGCTCTGCAACAAGGACCCATTTACGCTCAAGTCCTCGGTCTACCTGTCGCGCCT
GTTCCCCAACTCCAAGTTCTTGCTGATGGTGGGGACGGCCGGGCCTCCGTGCACTCCATGATCACGCGCAAAGT
CACCATTGCGGGCTTTGACCTCAGCAGCTACCGTGACTGCCTCACCAAGTGGAACAAGGCCATCGAGGTGATGTA
CGCCCAGTGCTGGAGGTAGGCAAGGAGAAGTGCTGCTGTGTACTACGAGCAGCTGGTGCTGCACCCCAGGCG
CTCACTCAAGCTCATCTCGACTTCCTCGGCATCGCCTGGAGCGACGCTGTCCTCCACCATGAAGACCTCATTTGG
CAAGCCCGGTGGTGCTCTCCCTGTCCAAGATCGAGCGGTCCACGGACCAGGTCATCAAGCCTGTAACTTGAAGC
GCTCTCCAAGTGGACTGGCCACATCCCTGGGGATGTGGTGGGGACATGGCCAGATCGCCCCCATGCTGGCTCA
GCTCGGCTATGACCCTTATGCAAACCCCCCAACTATGGCAACCCTGACCCCTTCGTCATCAACAACACACAGCG
GGTCTTGAAAGGGGACTATAAAACACCAGCCAATCTGAAAGGATATTTTCAGGTGAACCAGAACAGCACCTCCTC
CCACTTAGGAAGCTCGTGATTTCCAGATCTCCGCAAATGACTTCATTGCCAAGAAGAGAAGAAAAATGCATTTAAG
TGGAATCGGACCTCTAATCCAAGCATATTGCTTGCTATTAATCGCCAAAACAGGACTGCTGATGAGGAATGTAT
TTGCATATGTTTGCAAAAGCTGAATCATTGAAAACGTACCTTGAAACTCTCTATCTCTGGACACTCCAGGGTAGA
GAATGAAGGGTATGGAAGTAGTCCGGCTTTTGAAACTTAGGTATTTTATATTTTCCCTCAAGAACTTTTTTTT
AAGAGACAGATTTGCCATCCTCTTAATTTGCAGGACTGCCTTGGTGGCTTTGTTTGCTGGGACAAGGCCACAA
CCTGTGCCTCTCCTATTGACCCTTACTTTGAATTCAAAGAATCTATTTAAGAGTTTAAATATATGAGGCTTTCTTT
GATTCCTCCTCAGTTCTACCTAGTTTCACAGAGGAAAAAATACTCTTTGAATAAAGTGAACAGAGGCTCATTTG
TTTGTGCCTTACTTTAC

5285/5332
FIGURE 4583

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACCTTGTCGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCATTACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCCAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAAGTTGGTTCTAGC
GCAGTTTTTTTTTTCTTGCTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTTGGTGCACAGCACAATTAAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

5286/5332
FIGURE 4584

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCFTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

5287/5332
FIGURE 4585

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTGCG
TCATTGGACACGTAGATTCCGGCAGGATGCTACAAAATTGGTGGTATTGGTAGTGTTCCCTGTTGGCCGAGTGGAG
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAA
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG
GATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAG
GTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCGTGATTGGATTGCCACACGGCTCATATT
GCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT
CCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAGAAAGCTCAGATGGCTAAATTGAATATTATCCCTAATA

C

5288/5332
FIGURE 4586

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACT
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT
CTGGCTTACACACTGGGTGTGAAACAAC TAATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGC
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGA
TGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA
ACTCGTCCAAC TGACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCT
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAT
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

5289/5332
FIGURE 4587

GCCACTGCCTGGCACCCCGACGGGAGGGGCTCCGGATCGTTTCGGAGCCGGCTGAACCCCTTCGGCCGCGAGCGAC
CGCATGAGTCGGGGGACTATGCCCCAGCCCGAAGCGTGGCCAGGCGCGAGCTGCGCCGAGACGCCGCGCGGGAG
GCGGCGGCCACGGCGCGGGACGGCGGGAAGGCGGCGGCCAGCGGGCAGCCGCGGCGGAGATGCAGTCCCCGGCC
GAGCAGTGAGAGGACATGTACCGTGCTGCAGATGAAATAGAAAAGGAGAAAGAATTGCTTATACATGAAAGAGGG
GCATCAGAACCGAGATTAAGCGTAGCTCCTGAAATGGATATCATGGACTACTGCAAAAAGAATGGAGAGGAAAT
ACACAGAAAGCAACGTGTATGAAATGGGCTATGAAGAGGTTTCTCAGAAGTTCACCTCCATACGGCGAGTCCGT
GGTGATAATTACTGTGCACTGAGGGCCACGCTGTTCCAGGCCATGAGCCAGGCTGTGGGGCTGCCGCCCTGGCTG
CAGGACCCGGAGCTCATGCTGTTACCAGAAAACTCATAAGCAAATACAACCTGGATCAAGCAATGGAAACTTGA
CTGAAATTTGATGGGAAGAATGAGGACCTGGTTGATAAAATTAAGAGTCCCTTACTCTGCTGAGGAAGAAGTGG
GCAGGCTTGGCTGAAATGAGAACTGCTGAAGCAAGACAGATAGCTTGTGATGAACTATTCACAAATGAGGCGGAG
GAATATAGCCTCTATGAAGCTGTAAATTTCTAATGCTAAACAGAGCCATTGAACTATAATGATAAGAGAAA
GGAAAGGAAGTACCATTTTTCTCTGTGCTTCTGTTTGTCTGGGACACATCAAATGACCCAGGACAGCTTCTGAGG
AACCACCTCAACCAGGTGGGACACACTGGTGGTCTTGAACAGGTTGAAATGTTCTTCTTGCCTATGCTGTGCGC
CACACCATCCAGGTGTACCGGCTCTCCAAGTACAACACGGAAGAATTCATCAGCTTACCCACCGACCCACCC
AAGGACTGGCCAGTGGAACGCTCATTGCTGAGGACGATCGGCACCTATAACATCCCCGTCAGAGTGTGTGAGGAG
ACCACTCTATGAGAGACGCATGCTCCTGACAGCTGGCGACGTGGCGAAGATGCACAGGTGGCTCCTGGGCTTGG
GCTGCAGGTTTGGGGGTCTCTAAGAACAATCTCTGAGAAGAACCCTTGGGCCCCTGGGAGCCAAGTTGGACAGGA
TGTCTGAAGACTAGCTTTTGATAAGAGAAATTAACCAAGTCTTTCCCCTCATCTATGATGCAATATATTTCACT
GGGGGCCCTTCAGAGCACACCTGTTGGACGGTGCAAAACCATATCTTCTCCAGAAGGCAAATACTTTTGATCAGAG
GAAACTCAGTTTTGGAGAGGAATATGTTCTTTATATCTCAAATCAAACCTCTCTAATGGTAAACTGGCTTCTA
ATTTTTTTAAGTACAGTATTTTTTTTTCCCTTTAGTAGTAACGGGTTTCTATAGATCTTCCTATACAGTCTGCT
TTAACTCAGGACCTTGAGATTATGAGACTGACGTGCTGCCACTGCACTGAGGGGGCTTCTAACAGTCTGCTTTA
AGTGGTATAATTCTGGGATAGATCTGTTACTGGCATAGTCATGACAACCTCTGGTAATCTTACCTTCTCCTTTTT
ATGAAGGGAAGAGCAATGGTTTGGACTTACATCTTAATTAAGGCTATTTTAAGCAGATTGTTTTGCAACAGATTA
AGAATTGGGTCCCAAAGTGGGTATTTCAAGGCATTTTGAAGACTGGAGGAGCGTAGGAGGGAGTGGTGAGGGA
ACCTAGAACCTTCTTGCTCCTTGTGACTATGACAGATGTCTGATGCCCCAGCGCACTGGAGTCTGGGGCTTGGTG
CAGGTGGTGCCCCATCAGTGTGGACAGACACTACTTGCCCTTGTGGTTTAGTGTGGAAAGCTTAAATTATTCTAC
AGTTCCATAGATTACAAATTTATAGCCAAACAGTTTGTATCCACCTGCTTTTCAGAGGAGGAACCAAAGGCCAAA
TTACTTTGAGGTAGGGCTTAGCTGGACCTGGGTTTTCTATGCTCTTTTCATGCTGTGTTGGAGGGTGTGTCCAC
TGCCAGATCTGTGTAACCCGCTCTGGGTGAGGGGATGAGTGACAGCAAACCATCTTAAATTTTTTCATGAGTACAT
TTAAGCGGAAGCATACGGGAATATGAGTGCAAAAGTGTGGCTGAGCCGCGTATGCCCTTGATTGGTTTTGGGAAG
CCTGAGGGAGGCAGCCTTCCTGGCTATGAGCCATCGCCTGCCCAATCAGGCTAAGGGTGGTGAAGTGGGTGGTGA
AGGGGCAGCTCTGCTGAGCATGGTCTGCCCTTATGGCCTGAATTGTCTCAAGGGGTGTGGACTGCAGATGGTGT
CACATGAACCGGAGACATCACTCTTTAGGATTCTACTGGCAGCCCTGAATTGGCTCAACGTTTGTGGAGGTGGT
ATTTCCCTGAAGTACTGAGCTTTGTTTTATAATAATTAATCCTTATTTGGTCCAATTTAATATAGTTTAGAAG
CTATTTTTTTGAGGCAAACCGTTTTTGAAATGTAAATTTGTTTTTAATTAATAAATAAGTCTTAGTTAAGAA
AACTCAGGATGCACAAACTATTACAGCTGTTACTTTAGCTTTCTCCATTACCTCATCAGTAATATTCACCACA
TTTTGCTAAATATTTATTGATTAGAGTGTGAAATCAAATCTGCTCTAAATGTGTGTGAATATGTTGGAGAGGC
TTTGTGTTCTTCACTGTGAAATGCAATTGTGCCTGAATAAGAAGGTACCTAGAAGCCAAATTAAGTAATAATG
ACTTCTT

5290/5332
FIGURE 4588A

CTCTTTTTTTTTCCCGGCAGATCTTTGTTGTGTGGGAGGGCAGCAGGGATGGACTTGAGCTTGCGGATCCCTTGCT
AGAGCAGCCGCGCTCGGAGAAGGCGCCGCGAGCCGCGAGGAGGAGCCGCGCGCGCGCCGAGGCCCCGCGGCC
CGCGGCCTCTGTGGGCCGCGCCCCGCTCGCCCCGTCGCCCCGTCGCCCCCTCGCCTCCCCGAGAGTCCCTTCGC
GGCAGCAGATGTGTGTGGGGTCAGCCACGGCGGGGACTATGGTGAAATTCGCGCGCTCACGCACTACTGGCCC
CTGATCCGGTTCTTGGTGCCCCGTCAGCATCACCAACATAGCCATCGACTTCGGGGAGCAGGCCTTGAACCGGGC
ATTGCTGCTGTCAAGGAGGATGCAGTCGAGATGCTGGCCAGCTACGGGCTGGCGTACTCCCTCATGAAGTTCTTC
ACGGGTCCCATGAGTGACTTCAAAAATGTGGGCTGGTGTGTTGTGAACAGCAAGAGAGACAGGACCAAGCCGTC
CTGTGTATGGTGGTGGCAGGGGCCATCGCTGCCGTCTTTCACACACTGATAGCTTATAGTGATTTAGGATACTAC
ATTATCAATAAACTGCACCATGTGGACGAGTCGGTGGGGAGCAAGACGAGAAGGGCCTTCTGTACCTCGCCGCC
TTTTCTTTCATGGACGCAATGGCATGGACCCATGCTGGCATTCTCTTAAACACAAAATACAGTTTCTTGGTGGGA
TGTGCCTCAATCTCAGATGTCATAGCTCAGGTTGTTTTGTAGCCATTTTGCTTCACAGTCACCTGGAATGCCGG
GAGCCCCGTGCTCATCCCGATCCTCTCCTTGTACATGGGCGCACTTGTGCGCTGCACCACCCTGTGCCTGGGCTAC
TACAAGAACATTACGACATCATCCCTGACAGAAGTGGCCCGAGCTGGGGGAGATGCAACAATAAGAAAGATG
CTGAGCTTCTGGTGGCCTTTGGCTCTAATTCTGGCCACACAGAGAATCAGTCGGCCTATTGTCAACCTCTTTGTT
TCCCGGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACAGCCACATACCCTGTGGGTAC
ATGCCATACGGCTGGTTGACGGAATCCGTGCTGTGTATCCTGCTTTCGACAAGAATAACCCAGCAACAACTG
GTGAGCAGGACAAACACAGTCACGGCAGCCACATCAAGAAGTTCACCTTCGTCTGCATGGCTCTGTCACTCAG
CTCTGTTTCGTGATGTTTTGGACACCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGACTTTGCC
TTTGCAGAACTCTGTGTTGTTCCTTTGCGGATCTTCTCCTTCTTCCAGTTCAGTCACAGTGAGGGCGCATCTC
ACCGGGTGGCTGATGACACTGAAGAAAACCTTCGTCTTGGCCCCAGCTCTGTGCTGCGGATCATCGTCCTCATC
GCCAGCCTCGTGGTCTTACCTTACCTGGGGGTGCACGGTGCAGCCCTGGGCGTGGGCTCCCTCCTGGCGGGCTTT
GTGGGAGAATCCACCATGGTCGCCATCGCTGCGTGCTATGTCTACCGGAAGCAGAAAAAGAAGATGGAGAATGAG
TCGGCCACGGAGGGGGAAGACTCTGCCATGACAGACATGCCTCCGACAGAGGAGGTGACAGACATCGTGGAATG
AGAGAGGAGAATGAATAAGGCACGGGACGCCATGGGCACCTGCAGGGACAGTCAGTCAGGATGACACTTCGGCATC
ATCTCTTCCCTCTCCCATCGTATTTTGTTCCTTTTTTTTTGTTTTGTTTTGGTAATGAAAGAGGCCTTGATTTAA
AGGTTTCGTGTCAATTCTCTAGCATACTGGGTATGCTCACACTGACGGGGGACCTAGTGAATGGTCTTTACTGT
TGCTATGTAAAAACAAACGAAACAACTGACTTCATACCCCTGCCTCACGAAACCCAAAAGACACAGCTGCCTCA
CGGTTGACGTTGTGTCCTCCTCCCTGGACAATCTCCTCTTGAACCAAAGGACTGCAGCTGTGCCATCGCGCCT
CGGTACCCCTGCACAGCAGGCCACAGACTCTCCTGTCCCCCTTCATCGCTCTTAAGAATCAACAGGTTAAACTC
GGCTTCCTTTGATTGCTTCCAGTCACATGGCCGTACAAAGAGATGGAGCCCCGGTGGCCTCTTAAATTTCCCT
TCCGCCACGGAGTTCGAAACCATCTACTCCACACATGCAGGAGGCGGGTGGCACGCTGCAGCCCGGAGTCCCGGT
TCACACTGAGGAACGGAGACCTGTGACCACAGCAGGCTGACAGATGGACAGAATCTCCCGTAGAAAGGTTTGGTT
TGAAATGCCCCGGGGGCAGCAACTGACATGGTTGAATGATAGCATTCTACTCTGCGTTCTCCTAGATCTGAGCA
AGCTGTCACTTCTACCCCCACCGTGTATATACATGAGCTAACTTTTTTAAATTGTCACAAAAGCGCATCTCCAG
ATTCCAGACCCTGCCGCATGACTTTTCTGAAGGCTTGCTTTTCCCTCGCCTTTCCTGAAGGTCGCATTAGAGCG
AGTCACATGGAGCATCCTAACTTTGCATTTTAGTTTTTACAGTGAAGTGAAGCTTAAAGTCTCATCCAGCATTCT
AATGCCAGGTTGCTGTAGGGTAACTTTTGAAGTAGATATATTACCTGGTTCTGCTATCCTTAGTCATAACTCTGC
GGTACAGGTAATTGAGAATGTACTACGGTACTTCCCTCCCACACCATACGATAAAGCAAGACATTTTATAACGAT
ACCAAGTCACATATGTGTTCCCTGAAATAACGCATTCGAAATCCATGCAGTGCAGTATATTTTCTAAGTTT
TGGAAAGCAGGTTTTTTCCTTTAAAAAAATTTATAGACACGGTTCACTAAATTGATTAGTCAGAATTCCTAGACT
GAAAGAACCATAACAAAAAATTTTAAAGATATAAATATATGCTGTATATGTTATGTAATTTATTTTAGGCTA
TAATACATTTCTATTTTCGCATTTTCAATAAAATGTCTCTAATACAATACGGTGATTGCTTGTGTGCTCAACAT
ACCTGCAGTTGAAACGTATTGTATCAATGAACATTGTACCTTATTGGCAGCAGTTTTATAAAGTCCGTCAATTTGC
ATTTGAATGTAAGGCTCAGTAAATGACAGAACTATTTTTTCAATTATGGGTAAGTGGGGAATAAATGGGTCACTGGA
GTAGGAATAGAAGTGCAAGCTGGAAAGGCAAAAATGAGAAAGAAAAGGCAGGCCCTTTGTGTCTACCGTTTTCA
GTGCTGTGTGATCATATTGTTCTCACAGCAAAAAAGAATGCAAGGGCATAATGTTAGCTGTGAACATGCCAGGG
TTGCATTACATTCCTGGGTACCCAGTGCTGATGGGGTGTGCCACGTGGGGACATGTCCTTGGCGTGCTTCTCTC
AGAGTGGCTTTTCTCCATTAATACATATATGAGTACTGAAAAATTAAGTTGCATAGCTGCTTTGCAGTGGTTTT

5291/5332
FIGURE 4588B

AGAGGCAGATCTGAGAAGATTAAAAAAAATCTCAAATGTATCAGCTTTTTTTAAAGGACATTACTAGAAAATTA
AACAGTATTTTTTAAACATGTGTGACTTTCATGCTTCTGGGGTTGGAGCTTAAAGATCCAAACTGAGAAAGCAGGC
CGGGCATGGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCCAAGGAGGGTGGATCACTTAAGGTCAGGAGT
TTGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCTCTACTAAAAACATAAAAATTAGCTGGGGGTGGTAGCAC
ATACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGATCCTGGGAGGCAGAGGTTGTAGTG
AGCCGAGATCGCGCCATCGCACTCCAGCCTGGGTGACAAGAGCAAACTCCATCTC

5292/5332
FIGURE 4589

CGCGTGCGCAGAGCGAACGCCTGCAGCCTCCCTGCCCTCCCACAACGCTCGACCCAGGATTCCCCGGGCTCGC
CTGCCCGCCATGGCCGACAAGGAAGCAGCCTTTGACAAACACAGTGGAAGAATGAGTGATCAACAAGGAATACAAA
ATATGGAAAAAGAACACCCCTTTTCTTTATAATTTGGTGATGACCCATGCTCTGGAGTGGCCAGCCTAACTGCC
CAGTGGCTTCCAGATGTAACCAGACCAGAAGGGAAAAGATTTAGCCTTCATCGACTTGTCTGGGGACACACACA
TCGGATGAACAAAACCATCTTGTTATAGCCAGTGTGCAGCTGCCTGATGATGATGCTCAGTTTGATGCATCACAC
TACGACAGAGAGAAAGGAGAATTTGGAGGTTTTGGTTTCAGTTAGTGGAATAATTGAAATAGAAATCAAGATCAAC
CATGAAGGAAAAGTAAACAGGGCCCGTTATATGCCCCAGAACCCTTGTATCATCACAAAGACTCCTTCCAGT
GATATTCTTGCTTTGACTATACAAAACATCCTTCTAAACCAGATCCTTCTGGAGAATGCAACCCAGACTTGCGT
CTCCGTGGACATCAGAAGGAAGGCTATGGGCTTCTTGGAACCTAAATCTCAGTGGGCACTTACTTAGTGCTTCA
GATGACCACACCATCTGCCTGTGGGACATCAGTGCCGTTCCAAAGGAGGGAAAAGTGGTAGATGCGAAGACCATC
TTTACAGGGCATAACGGCAATAGTAGAAGATGTTTCTGGCATCTACTCTGTGAGTCTCTGTTTGGGTGAGTTGCT
GATGATCAGAACTGATGATTTGGGATACTCGTTCAAACAATACTTCCAAACCAAGCCACTCAGTTGACACTCAC
ACTGCTGAAGTGAAGTGCCTTTCTTTTCAGTCTTATAGTGAGTTTATTCTTGCCACAGGATCAGCTGACAAGACT
GTTGCCTTGTGGGATCTGAGAAATCTGAACTTAAGTTGCATTCTTTGAGTCACATAAGGATGAAATATTCCAG
GTTTCAGTGGTCACCTCACAATGAGACTATTTTAGCTTCCAGTGGTACTGATCACAGACCGAATGTCTAGGATTTA
AGTAAATTTGGAGAGGAACAATCCCCAGAAGATGCAGAAGACAGGCCACCAGAGTTGTTGTTTATTTCATGGTGGT
CACACTGCCAAGATACCTGATTTCTCCTGGAATCCCAGTGAACCTTGAGTGATGTGTTCTGTATCGGAAGACAAT
ATCATGCAAGTGTGGCAAATGGCAGAGAACATTTATAATGATGAAGACCCTGAAGGAAGCATGGATCCAGAAGGA
CAAGGGTCCTAAATATGTCTTTACTTCTGTGATTTTAGACTCCCCTTTTTTCTTCTCAACCCCGAGAGTGATTT
AACACTGGTTCTGAGACAGATTTTATTCAGCTATCCCTCTATATAATAGGTACCACCGATAATGCTATTAGCCCA
AACAGTGGGTGTTTTCTAAATATTAATGGGGGGCTTGATTCAACAAAGCTACAGAGTTATGTTGAAATTTTCTTC
AGGAATTTTCTAGTAACCCAGGTCTAAAGTAGCTACAGAAAGGGGAATATTATGTGTGATTATTTTTCTTCTTAT
GCTATATCCCCAAGTTTTTTGGACTCATTTAAGTAAAGGCTAGAGTGAGTAAGGAGAATAGAGCCAAATGAGGTA
GGTGTCTGAGCCATGAAGTATAAATACTGAAAGATGTCACTTTTATTTCAGGAAATAGGGGAGATTCAAGTCATAT
AGATTCTACTCGAAAATCTCGACACCTGAGTTTCCAGGATGCACATTTTCATACGTAGACCAGTTTCTCTTGG
TTTCTTCAGTTAAGTCAAACAGCACGTTCCCTCTTTCCCATATATTTCATATATTTTGGCTCGTTAGTGATTTTC
TTGAGCTGTTTTCATGTTGTTTTATTTCTGTCTGTGAAATGGTGTTTTTTTTTTTTTTTTGTGGTGTGTGTTTTTT
TTTTTTAACTTGGGACCGCCAAGTTGTAAAGATGTATGTTTTTACCTGACAGGTATACCACAGGTAGATTGTCAA
GTTGAGAAGAGTGAATCGATAAATTGATTTGTTTTAAAAATTAAATTAATCCTTGATAAGAGTTGCTTTTTTTT
TAGGAGTTTGTCTTGACCACTAGTTTGATGCCATCTCCATTTTGGGTGACCTGTTTCACCAGCAGGCCTATTAC
TCTCCATGACTAAGTGTAAGTGCTTAAATGGAATAAATTGCTTTTCTACATT

5293/5332
FIGURE 4590

AACAGCTGCTGCTGGCTCTTCCTCTTGCGGCCTTTTCTGAAACGGATTCTTCTTTTCGGGGAACAGAAAGCGCCA
GCCATGCAGCCTTGGCACGGAAAGGCCATGCAGAGAGCTTCCGAGGCCGGAGCCACTGCCCCCAAGGCTTCCGCA
CGGAATGCCAGGGGCGCCCCGATGGATCCACCGAGTCTCCGGCTGCCCCGAGGCCGCCCTGCCTAAGGCGGGA
AAGTTCGGCCCCGCCAGGAAGTCGGGATCCCGGCAGAAAAAGAGCGCCCCGGACACCCAGGAGAGGCCGCCGTC
CGCGCAACTGGGGCCCGCGCCAAAAAGGCCCTCAGCGCGCCAGGACACGCAGCCGTCTGACGCCACCAGCGCC
CCTGGGGCAGAGGGGCTGGAGCCTCCTGCGGCTCGGGAGCCGGCTCTTTCCAGGGCTGGTTCTTGCCGCCAGAGG
GGCGCGCGCTGCTCCACGAAGCCAAGACCTCCGCCCCGGGCCCTGGGACGTGCCAGCCCCGGCCTGCCGGTCTCG
GCCCCATTCTCGTACGGAGGGATGCGGCGCCTGGGGCCTCGAAGCTCCGGGCGGTTTTGGAGAAGTTGAAGCTC
AGCCGCGATGATATCTCCACGGCGGCGGGGATGGTGAAAGGGTTGTGGACCACCTGCTGCTCAGACTGAAGTGC
GACTCCGCGTTTCAGAGGCGTCGGGCTGCTGAACACCGGGAGCTACTATGAGCACGTGAAGATTTCTGCACCTAAT
GAATTTGATGTCATGTTTAACTGGAAGTCCCCAGAATTCACTAGAGAATATTCCAACACTCGTGCATATTAC
TTTGTGAAATTTAAAAGAAATCCGAAAGAAAATCCTCTGAGTCAGTTTTTAGAAGGTGAAATATTATCAGCTTCT
AAGATGCTGTCAAAGTTTAGGAAAATCATTAAAGGAAGAAATTAACGACATTAAAGATACAGATGTCATCATGAAG
AGGAAAAGAGGAGGGAGCCCTGCTGTAACACTTCTTATTAGTGAAAAAATATCTGTGGATATAACCCCTGGCTTTG
GAATCAAAAAGTAGCTGGCCTGCTAGCACCCAAGAGGCCTGCGCATTCAAACTGGCTTTCAGCAAAAGTTAGG
AAGCAACTACGACTAAAGCCATTTTACCTTGTACCCAAGCATGCAAAGGAAGGAAATGGTTTCCAAGAAGAAACA
TGGCGGCTATCCTTCTCTCACATCGAAAAGGAAATTTGAACAATCATGGAAATCTAAAACGTGCTGTGAAAAC
AAAGAAGAGAAATGTTGCAGGAAAGATTGTTTAAACTAATGAAATACCTTTTAGAACAGCTGAAAGAAAGGTTT
AAAGACAAAAAACATCTGGATAAATTCTTCTTATCATGTGAAACTGCCTTCTTTCACAGACTCTACTGATAT
ATTTCCAAGTATTAGGTCACCTTGATAAGTGATCCGCACTGAAGCAAAAGATAAACTCAGCATTCTTAGGTGCTTA
TTCTAATGCCACCAGTTTTACTTCTGTTAGCAAAATCTAAAGTAACATAACAGACTTATACCCCCATTGGAA
TTAGTATACAAATAGAAATGATCCTAATCAATTAATTAATTATAATGGACACACAAGAAAAAATACCTACACAG
CTTTTCGAGAAACGAAGACAATGACTTTGTCTGTGGATGACATACTCTGTAGAAAAGTTTGCATGTGACTCCATT
TCTCTTCCTCGGTGGTTACAATTATATTTTGCTTCACTGAACTTACAGCCTAAAGGATTCAAAGAACATAGTTCA
TCAAGGTCATCATGATTGAGGGTGAGACCGCATACATCAGCTCAAAATGCATCTTCTCTCATTTGGTTAATGTT
TTAATAAACTGCTAAGCAAAATGGCAGACGTCTAAAAAAA

5294/5332
FIGURE 4591

GGCCGCGCCCTGCAGATTGCTCTTGTGTGCGTAAGTTTTTTTGACCGTCACTCGTGTGAGCTTCAAAGTCAGATA
GATTTTTCTCCAGCATGTTCTACTTCCGAGGCTGTGGCCGTGGGTGCGGGTTTCCTTACCAAGCAGCAATTT
CCGTTGGCACGGTTGAGCAGTGACAGCGCGGCCCGGACTCCGCACTTCGACGTGATAGTCATTGGTGGAGGA
CATGCCGGGACTGAGGCAGCCACCGCCGCCGCTCGGTGCGGCTCTCGGACTCTGCTCCTCACTCACCGCGTGGAC
ACGATCGGTGAGATGTCATGTAATCCTTCTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAAGTAGATGCC
TTGGATGGCCTGTGTTCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGCGCTAAGGGACCA
GCTGTGTGGGGTCTGAGAGCTCAGATTGATAGGAACTCTATAAACAGAACATGCAGAAAGAAATCTTGAATACA
CCACTGCTTACTGTTTCAAGAGGGAGCTGTAGAAGATCTTATTCTTACAGAACAGAGCCTGAACACACTGGGAAA
TGCCGTGTGAGTGGGGTTGTTTTGGTGGATGGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACA
TTTCTGAGAGGCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA
TTGGCTCAGACACTGGAGAAGTTAGGGTTTGTGGTGGGAAGGTTGAAGACTGGGACTCCACCCGAATTGCCAAA
GAGTCCATTAATTTTCACTATTCTAAACAAGCATATACCGGACAATCCATCCATACCATTCACTTTACCAATGAG
ACAGTATGGATTAAGCCAGAAGATCAGCTGCCATGTTACTTGACTCACACCAACCCTAGAGTGGATGAGATTGTC
CTTAAGAACCCTTACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA
AAAGTTTTGCGTTTTTCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGATTCTGACCTTATCTAC
CCACAGGGGTTATCTATGACGCTACCAGCTGAGTTACAAGAGAAAATGATCACATGCATCAGAGGCTTGGAGAAA
GCTAAAGTGATTACGCCAGACGGAGTTTGTCTTGTGTCGAGGATGGAGTGAATGGTGGCATCTCGGCTCAC
CAACAACCTCCCCCTGCCAGGCTACGGTGTTCAGTATGATTACTTAGATCCCCGTGAGATCACCCCTTCTTTGGAG
ACTCATTGGTTCAACGACTCTTCTTTGTGTCGACAGATCAATGGCACTGCTGTTATGAGGAAGCTGCAGCTCAA
GGTGTGATAGCCGGAATCAACGCCAGTCTTCGGGTGAGTGCAGAGCCTCCCTTTGTGGTTAGCCGAACAGAAGGT
TACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCACCACTGAACCATACCGCATGTTTACCAGCCGAGTA
GAGTTCGTTTGTGACTGCGCCCTGATAATGCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGT
GTGTCCCAACAACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTTGAAATCT
ATTGAGTTTTTGAAGCTCTAAATGGAAAAATTAATCCAGAGGCTTCTATAAGTACTAGTAGAAGTCTGCCTGTC
AGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTTCATTAGCCAAGGCTGTTCCAGAGCCCTTGAAG
AAGTATACTAAATGTAGAGAGCTGGCTGAAAGACTGAAAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAA
CTACAAGAAATAAAGGGAGTTCAAGAGATGAAGCTCTCCAAGTCCAAAAAGACCTAGATTATTTGACTATCAGG
GATGTGCTTTTGTCCCATGAAGTTCGAGAGAACTACATTTTAGTTCGTCACAGACGATCGGGGCTGCTAGTCGC
ATACCCGGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTTGTGAAGACCACTCAACGAAGACAGTCGGCT
ATGAATGAATCATCCAAGACTGATCAATACTTATGTGATGCAGACAGACTTCAAGAGAGAGAGTTATAGCTTTCA
ATTCATAAAAAGATTTTTAAAGAGCATATAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATTTAGCA
CATGTTAAAAATAGCTTTATTAGGTTACTATGGGTTTGGCATTAAATTTCTGAGTGGGACAGAAATTATAATTGTGC
TTTTTCGTGTATATGAAAAAACTAGTCGTAAACAATTTGTACTCTTCTTTAAGGAGCTGTAATACAAATAACTT
TGTGCAGTGTTTCATCAAAGAGAGAGACAGTGAACCTAAACTGAACCTGGAATAAACTCAACATGCAGATTGTC
CTACTCATAGGGACTTTGCCTATTAAGTCTACCAAATTAAGTCTTATCATTCAAGCTGTTTGTGAGAGTTAATA
ATCTTTTGTGTTGTTTACTAGGCTAGGAAGCAATATCAAAGCCCTTAAATTCTCAAGACTAAAGACTTGAGATT
ATATAAAATTATCCAGAATCATTCACTAATACTATTGGAATATAGTATGTAGGGTGAAAGTTGACAGAAATCTG
TACTTCTTCAGGAAATCCTCACTGGTAATTGTTTTGAACATTAATGAAAGCCCTATAAAATAGAAAGATTGGAAA
TCACCATTTGTTTCTATTATCCACAGTGTGGATGGATACTTATTTGGTGACCTAGTTATGGGAGAATTGAGTAAC
GTTAGTTATTTTATATCATACCATAAAAATATTTTC

5295/5332
FIGURE 4592

CTCATTTAACTTTTTTAATGGGTCTCAAAATTCTGTGACAAATTTTTGGTCAAGTTGTTTCCATTAAAAAGTACT
GATTTTAAAAACTAATAACTTAAACTGCCACACGCAAAAAAGAAAACCAAAGTGGTCCACAAAACATTCTCCTT
TCCTTCTGAAGGTTTACGATGCATTGTTATCATTAAACAGTCTTTTACTACTAACTTAAATGGCCAATTGAAA
CAAACAGTTCTGAGACCGTTCTTCCACCAGTGAATTAAGAGTGGGGTGGCAGGTATTAGGGATAATATTCAATTTAG
CCTTCTGAGCTTTCTGGGCAGACTTGGTGACCTTGCCAGCTCCAGCAGCCTTCTTGTCCACTGCTTTGATGACAC
CCACCGCAACTGTCTGTCTCATATCACGAACAGCAAAGCGACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACAC
ACATGGGCTTGCCAGGAACCATATCAACAATGGCAGCATCACCAGACTTCAAGAATTTAGGGCCATCTTCCAGCT
TTTTACCAGAACGGCGATCAATCTTTTCCTTCAGCTCAGCAAACTTGCATGCAATGTGAGCCGTGTGGCAATCCA
ATACAGGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTCAGGATAATCACCTGAGCAGTGAAGCCAGCTGCTT
CCATTGGTGGGTCATTTTGTCTGTCACCAGCAACGTTGCCACGACGAACATCCTTGACAGACACATTCTTGACAT
TGAAGCCACATTGTCCCCAGGAAGAGCTTCACTCAAAGCTTCATGGTGCATTTTCGACAGATTTTACTTCCGTTG
TAACGTTGACTGGAGCAAAGGTGACCACCATAACCGGTTTGAAGAACACCAGTCTCCACTCGGCCAACAGGAACAG
TACCAATACCACCAATTTTGTAGACATCCTGGAGAGGCAGGCGCAAGGGCTTGTGAGTTGGACGAGTTGGTGGTA
GGATGCAGTCCAGAGCCTCAAGCAGCGTGGTTCCACTGGCATTGCCATCCTTACGGGTGACTTTCCATCCCTTGA
ACCAAGGCATGTTAGCACTTGGCTCCAGCATGTTGTCACCATTCCAACCAGAAATTGGCACAAATGCTACTGTGT
CGGGTGTAGCCAATTTTCTTAATGTAAGTGCTGACTTCCTTAACAATTTCTCATATCTCTTCTGGCTGTAGG
GTGGCTCAGTGGAAATCCATTTTGTAAACACCGACAATTAGTTGTTTACACCCAGTGTGTAAGCCAGAAGGGCAT
GCTCTCGGGTCTGCCATTCTTGGAGATACCAGCTTCAAATTCACCAACACCAGCAGCAACAATCAGGACAGCAC
AGTCAACCTGAGATGTCCCTGTAATCATGTTTTTGATAAAGTCTCTGTGTCTTGGGGCATCAATGATAGTCACAT
AGTACTTGCTGGTCTCAAATTTCCACAAGGAGATATCAATGGTGATACCACGTTACGCTCAGCTTTTCAGTTTAT
CCAAGACCCAGGCATCTTGAAGGAGCCCTTTCCCATCTCAGCAGCCTCCTTCAAATTTTCAATGGTTCTTT
TGTCGATGCCACCGCATTTATAGATCAGATGGCCAGTAGTGGTGGACTTGCCCGAATCTACGTGTCCAATGACGA
CAATGTTGATATGAGTCTTTTCCTTTCCCATTTTGGCTTTTAGGGGTAGTTTTCACGACACCTGTGTTCTGGCGG
CAAACCCG

5296/5332
FIGURE 4593

ACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATA
TCAACATTGTCGTCATTGGACACGTAGATTTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTG
GCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCT
GGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCAITGATATCTCCTTGTGGAAATTTGAGACCA
GCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTC
AGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGA
CCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTTAACAAAATGGATTCCA
CTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCT
ACAACCCCGACACAGTAGCATTGTTGTCGAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACA
TGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCACGCTGCTTGAGGCTCTGG
ACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCCTTGCCTGCTCCTCAGGATGTCTACAAAATTGGTG
GTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAG
TCAACGTTACAACGGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATG
TGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACC
CACCATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATG
CCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTT
CTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGTGCTGCCATTGTTGATATGGTTCCTGGCA
AGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTTCGTGATATGAGACAGACAG
TTGCGGTGGGTGTGATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAG
CTCAGAAGGCTAAATGGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAACGGTCTCAG
AACTGT

5297/5332
FIGURE 4594

ATCTTCCGGTAATTGCCCCAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCTGACATATGTTCTCTAGGCCT
TTTAGAAAAACATGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTCAACCATGGCAAAACTGGGAGTCTA
CGATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAA
TGTGCGTATTGAGCACATTACGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAAAAATGATCAGAA
AAAGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTTCAGCTAAAGCGCCAGCCTGCTCCACCCAGAGAAACACACTT
TGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATTTAATTCATGGCATAATAGGTGTTAAA
AAGAAAAATAAA

5298/5332
FIGURE 4595

GGCCGGCGGCAGAGCTGTCCGGCTGCGCGGTGGCCCGGGGGGCCCGGGCGGCAGGGCAAGCAGCGCGGCCTCGGC
CTATGCGACCGGTGGCGCCGGCGCGGCTTCTGCCTGGAGAGGATTCAAGATGACCAACGAAGAACCTCTTCCCAA
GAAGGTTTCGATTGAGTGAAACAGACTTCAAAGTTATGGCAAGAGATGAGTTAATTCTAAGATGGAACAATATGA
AGCATATGTACAAGCTTTGGAGGGCAAGTACACAGATCTTAAGTCTAATGATGTAAGTGGCCTAAGAGAGTCTGA
AGAAAACTAAAGCAACAACAGCAGGAGTCTGCACGCAGGGAAAAACATCCTTGTAATGCGACTAGCAACCAAGGA
ACAAGAGATGCAAGAGTGTACTACTCAAATCCAGTACCTCAAGCAAGTCCAGCAGCCGAGCGTTGCCCAACTGAG
ATCAACAATGGTAGACCCAGCGATCAACTTGTTTTTCTAAAAATGAAAGGTGAAGTGGAACAGACTAAAGACAA
ACTGGAACAAGCCCAAAATGAACTGAGTGCCTGGAAGTTTACGCCTGATAGGTAAACAAATCATACTCCCCAGTC
AAGACTTCCCTGACAGTCCCACTACGAGAAAGCTGTGGTGGGACAGCCAAGTACTCGTTTCCACACCAAGACTCA
GACTTTTTGAGCCAAAAAAGCCACATTCTTACACTGTCCAGCTTGTAATGGTTAATGTAAACTTACCAGATG
AACCTTGTGTTTCAGCTTTTTTCTTTTCCCTTCCCTTGCTTCAGAGGCCTGATGGCGTCGGACTATTCCGAAG
AAGTGGCCACCTCCGAAAAATTCCCCTTCTAGAACATGTAGACACTTGAGAAATGTTTCTGTTTGAAGAAAATAG
AGGGAGAAACAGAAGTCTTAAGTCTGTGGCACACTGTGTCTTCAGACAGTTTGAAGGAATGAAAACCTAGAGATT
TTAAATCATGAATTGAACATGTAAAATTCCAGTAAATGTAAAAACGGAATATGCATCGCTCTTAACCTTGAGCA
TAGTGACTTAGAGACACTGTGTATCAGTTTTGCCAATAAGACTGTGGACTTCATGATTGTTGTTGAAGTCTCTGGG
TCAAACTCAAATGAGGTGAATTTTGCCTTTAAAGGTTTATTTGCTGAGAACCAACTTTCAATAGTCATGAGAG
AATCAAATAATAGATGTCCGTACAAGTAGCGCATATATTAACCATTTAGTTTGGGGCTCTATATTACTTGCTTG
AGCCTTAATCAATGTGGTTTTATTCAATGGTTTGTCTTTGAATGGTTGCAAAAACCTGTAGATAATCTTACTGAG
GACTGTACAAACATGAAGGTGTGGTATCAAACCTCAGGTTGAACTGTTTGAAGCATTATAAACATTCAATTCAC
AACTAGATTGTATAAGGATATTAGCTGTGATGAGACTCACTGCATTATTTTTTTTAGTGAATTTTATGAAATCCC
CGTTCCATTCAACAGGCACATGTTTAAAGAGCTTTGTCGTGGTGTAAATGGGGGAATGTGTTCCCTTCATTGTA
TTTGGGCCTTTTGTATTGCACTCTTGATATTAAATTAAATGTGCCTT

5299/5332
FIGURE 4596

GAGGGTGGGGCTGTAGCACCAGGTCAGGGAACGCGGGAGCCGAGGGTTCCAGGGATCCCGCGGCTCCTCGCGGC
TTGGCCTGACCGGCTTCCTCCACATACGCCCTCTCCTACACAAGTCCGGCCCTCGGCGCTCCTGCCGAAGCAGC
AGGCGCCTCGGACTCTGCGCGGCTCCCGCCGGCCACTCACCTATGATGGTCCGCGCCGCCGAGACGATGACCACA
GGATCTGAGCCTGCATTTCATCTTGCTTCTCCTGCCGCCGTCTGCCCTGCGCTGCCTGCAAGCTAGGCAAAGCTCC
TCTTCGCAGCCCAAGGCCTGCCGCGGGCGGGACCTGAGCTCAGGACTGGAATCCACGGGCGAGAATCTCGAGT
GCGAGCCCGGCCCGCGCGGGTCTCAGCACAGCTCTGATGGGTCCTTTGTCTCTCGGCGGCTTCGGGAGGTCCCTA
TGCGTTTCTCCTGGCGCCAGTCATTTCGCTCGCGTGAGGGGCTTGCTAGGAGCGTCTCGGTGCGAGCCCCCTGCCT
TCTAAGATCAACTCTGGCTGTGAACGGGTGAGGACGCCGGGAGCGTCTTAGCGTCACAAAAGTTCCTTTGGTTGA
CGTTTGGACAGTGAAAGGAGCATGTAACAAGTGGGGTCAGTTTGTTTAAAACCTTTCTGACTTCCCAGCCTCT
TACTGGGCAAAGTTCATAATTTTCTGAGCTTTCTAGGGTTTCCAGGCAAGCTTATGAGGGGCCACCGTTACAGC
AACTTGTGGGAACACCTGGATAGTGAACAAGAAAGCTTTGTCACAAAGTCATGAAGGGGAAAACCTGTTGACGG
ACCTGGAGAATCTTCTGAAGAACTTTAAAGTTGATTGAAAGAATCATTAAATCCTGGAAACCTACATTAAGACT
T

5300/5332
FIGURE 4597

GGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCGG
CGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCGTGCCAGGACCTGGGCTCCACTGTCA
AAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCTTTGGACATGTCTTGGCAGCAG
GCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATTCCTACTCTGTTCCAGCATGGAGCTGCC
AGATGATCTGTGGGTCAGGCCTAAAAGCTGTGTGCCTTGCAAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTG
TGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGATAGGTG
AGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTCACTACTGTCATATGGGTATTACAG
CTGAAAATGTAGCCAAAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAGGA
CAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAAGAGATTGTACCAGTTTTTGGTGTCAACTAGAAAAGGTCTTA
TTGAAGTTAAACAGATGAGTTTCCCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTC
TTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTGCTTCTTA
TGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGG
AGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAG
ATGTTGACATATTTGAAATCAATGAAGCCTTTGCAGCTGTCTCTGCTGCAATAGTTAAAGAACTGGATTAAACC
CAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTGCAATTCTTG
TGACCCTGTTACACACACTGGAGAGAATGGGCAGAAGTCGTGGTGTTCAGCCCTGTGCATTGGGGGTGGGATGG
GAATAGCAATGTGTGTTAGAGAGAAATGAATTGCTTAAACTTTGAACAACCTCAATTTCTTTTAACTAATAAA
GTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTCTTACATCACAAAACCCAA
GTTTACAGCTTGTACTTTACTTTAATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTAT
AAATAAAAGGAACATCAGATCAATCATT

5301/5332
FIGURE 4598

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCCTTTGTCCGTGTTCCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACAGATGAAGTG
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGAATAAATGGTGATTTCTTT
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAAC
TCTGTTAATATTTTGAAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCCAGGGCATGCCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCCTTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGTACAGGTGGTCAATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAGGAGAGAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCCTGGTGGAATTGAT
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGGAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACTTTGTGTAGTGAAGAGAGTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAAACATATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCCAGGTTAACCAGAACGTAATAATCTAAAATGGATTGGTCTTGATTTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGATAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTCATCTGATGTTCCCTTTATTTATAACAATGTTAAA
TGCAATTGTCTTGACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAACTTGGGTTTTGTGA
TGTAGGAAATGGTTTTCCATCTGTACTTTGGTCCTCTGATTTTACATATTGCAACCTAGTACTTTATTAGTTTAAA
AAGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATTCTCTCTGAACACACATTGCTATCCCATCCCACCCCCA
ATGCACAGGGCTGCAACACCACGACTTCTGCCCATCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

5302/5332
FIGURE 4599

GGAGAGTTTGGGGATCTACAGCAGCCAAAGGCTTGTCCCTGACTTTATATGGCTGCTCCTGGCGAGCGACTGAGT
CGTCCGTGAGGAAAAAGAGGCGAGGCTTTTCCGAGATCGTCTCAGCGATGCGCGCTTCGGTCGCGGTTTGGGGGT
TGTTCTCGGTTTGCAGGAACCTGGGTGCAGGTTTCGAGCCCTGTCAACCAGCTCCGAGCCGGCAGCGAAACCTG
AAGTGGACCTGTGGAAAATGAAGCTGTCGCCCCAGAATTCACCAACCGGAACCGCCGGAACCTGGAGCTTTTAT
CTGTAGCCAGGAAAGAGCGGGGCTGGCGGACGGTGTTTCCCTCCCGTGAGTTCTGGCACAGGTTGCGAGTTATAA
GGACTCAGCATCATGTAGAAGCACTTGTGGAGCATCAGAATGGCAAGGTTGTGGTTTCGGCCTCCACTCGTGAGT
GGGCTATTAAAAAGCACCTTTATAGTACCAGAAATGTGGTGGCTTGTGAGAGTATAGGACGAGTGCTGGCACAGA
GATGCTTAGAGGCGGGAATCAACTTCATGGTCTACCAACCAACCCCGTGGGAGGCAGCCTCAGACTCGATGAAAC
GACTACAAAGTGCCATGACAGAAGGTGGTGTGGTTCTACGGGAACCTCAGAGAATCTATGAATAAATGGAAGCAT
TAATTGTTTTGAACATGTAAATATAAATCTGTCAGCCACTACAGCCATCAAAAAGAGAGCATCTGGAAGAACAGCC
AGCTTGGAAGTTTTACAGCAATAATGTTGCAGTGGAATATTATTGTAGTTAAGGTCATCCTCCTCCCCTTTCTG
TTTTTTAAATCAAGAACTACGTTCTGCCCCCTCTCTTGGGCTTCAGAAGCATCTAAGAAAAGCAGTCATCAATTA
TAATTAACTTTCAAAGGGCAAGTCAGAAGTTGTTTATAAATTACAAAATAAAGGCATATTATGAACTCTT

5303/5332
FIGURE 4600A

CGAGCCCAGTCGAGCCGCGCTCACCTCGGGCTCCCGCTCCGCTCCACCTCCGCCTTTGCCCTGGCGGCGCGACC
CCGTCCCGGGCGCGGCCCCCAGCAGTCGCGCGCCGTTAGCCTCGCGCCCCCGCGCAGTCCGGGCCCGGCGCGAT
GGGGGCCCGCCGCGCGGAGCCCCACCTGGGGCCCGCGCCCGCCCGCGCGCAGCGCTCTCTGCTCCTGCT
GCAGCTGCTGCTGCTCGCTGCCCCGGGGTCCACGCAGGCCAGGCCGCCCGTTCCCCGAGCTGTGCAGTTA
TACATGGGAAGCTGTTGATACCAAAAATAATGTACTTTATAAAATCAACATCTGTGGAAGTGTGGATATTGTCCA
GTGCGGGCCATCAAGTGTGTTGTATGCACGACTTGAAGACACGCACCTATCATTAGTGGGTGACTCTGTTTT
GAGAAGTGAACCAGATCTCTCTGGAATTCAACACAACAGTGAGCTGTGACCAGCAAGGCACAAATCACAGAGT
CCAGAGCAGCATTGCCCTTCTGTGTGGGAAAACCTGGGAACCTCTGAATTTGTAAGTGAACAGAAATGTGTGCA
CTACTTTGAGTGGAGGACCACTGCAGCCTGCAAGAAAGACATATTTAAAGCAAATAAGGAGGTGCCATGCTATGT
GTTTGATGAAGAGTTGAGGAAGCATGATCTCAATCCTCTGATCAAGCTTAGTGGTGCCTACTTGGTGGATGACTC
CGATCCGGACACTTCTCTATTATCAATGTTTGTAGAGACATAGACACACTACGAGACCCAGGTTACAGCTGCG
GGCCTGTCCCCCGGCACTGCCGCTGCCTGGTAAGAGGACACCAGGCGTTTGTATGTTGGCCAGCCCCGGGACGG
ACTGAAGCTGGTGCAGCAAGGACAGGCTTGTCTGAGTTACGTGAGGGAAGAGGCAGGAAAGCTAGACTTTTGTGA
TGGTCACAGCCCTGCGGTGACTATTACATTTGTTTGGCCGTGCGAGCGGAGAGAGGGCACCATTCCCAAACCTCAC
AGCTAAATCCAAGTCCGCTATGAAATTGAGTGGATTACTGAGTATGCCTGCCACAGAGATTACCTGGAAAGTAA
AACTTGTTCTCTGAGCGGCGAGCAGCAGGATGTCTCCATAGACCTCACACCACTTGCCAGAGCGGAGGTTTCATC
CTATATTTAGATGGAAAAGAATATTTGTTTTATTTGAATGTCTGTGGAGAACTGAAATACAGTTCTGTAATAA
AAAACAAGCTGCAGTTGCCAAGTGAAGAGAGCGATACCTCTCAAGTCAAAGCAGCAGGAAGATACCACAATCA
GACCCTCCGATATTCGGATGGAGACCTCACCTTGATATATTTTGGAGGTGATGAATGCAGCTCAGGGTTTCAGCG
GATGAGCGTCATAAAGCTTGAAGTGAATAAAACCGCAGGTAACGATGGGAAAGGAAGTCTCTGTATTACAGGGGA
GGTTGACTGCACCTACTTCTTCACATGGGACACGGAATACGCCTGTGTTAAGGAGAAGGAAGACCTCCTCTGCGG
TGCCACCGACGGGAAGAGCGCTATGACCTGTCCGCGCTGGTCCGCCATGCAGAACAGAGCAGAAATGGGAAGC
TGTGGATGGCAGTCAGACGGAACAGAGAAGAAGCATTTTTTCATTAATATTTGTACAGAGTGTGCAGGAAGG
CAAGGCACGAGGGTGTCCGAGGACGCGGCAGTGTGTGAGTGGATAAAAAATGGAAGTAAAAATCTGGGAAAATT
TATTTCTCTCCCATGAAAGAGAAAGGAACATTCACCTCTCTTATTCAGATGGTGATGATTGTGGTCATGGCAA
GAAAAATAAACTAATATCACACTTGTATGCAAGCCAGGTGATCTGGAAAGTGCACCACTGTTGAGAACTTCTGG
GGAAGGCGGTTGCTTTTATGAGTTTGAAGTGGCACACAGCTGCGGCCCTGTGTGCTGTCTAAGACAGAAGGGGAGAA
CTGCACGGTCTTTGACTCCCAGGCAGGGTTTTCTTTTGAAGTATCACCTCTCACAAAGAAAAATGGTGCCTATAA
AGTTGAGACAAAGAAGTATGACTTTTATATAAATGTGTGTGGCCCGGTGTCTGTGAGCCCTGTGAGCCAGACTC
AGGAGCCTGCCAGGTGGCAAAAAGTATGAGAAGACTTGGAACTTGGGTCTGAGTAATGCGAAGCTTTTCATATTA
TGATGGGATGATCCAAGTGAAGTACAGAGGCGGCACACCCTATAACAATGAAAGACACACACCGAGAGCTACGCT
CATCACCTTTCTCTGTGATCGAGACGCGGGAGTGGGCTTCCCTGAATATCAGGAAGAGGATAACTCCACCTACAA
CTTCCGGTGGTACACCAGCTATGCCTGCCCGGAGGAGCCCTGGAATGCGTAGTGACCGACCCCTCCACGCTGGA
GCAGTACGACCTCTCCAGTCTGGCAAAATCTGAAGGTGGCCTTGGAGGAACTGGTATGCCATGGACAACCTCAGG
GGAACATGTACGTGGAGGAAATACTACATTAACGTGTGTGCGCCTCTGAATCCAGTGCCGGGCTGCAACCGATA
TGCATCGGCTTGCCAGATGAAGTATGAAAAAGATCAGGGCTCCTTCACTGAAGTGGTTCCATCAGTAACCTTGGG
AATGGCAAAGACCGGCCCCGGTGGTTGAGGACAGCGGCAGCCTCCTTCTGGAATACGTGAATGGGTGCGCCTGCAC
CACCAGCGATGGCAGACAGACCACATATACCAGAGGATCCATCTCGTCTGCTCCAGGGGCAGGCTGAACAGCCA
CCCCATCTTTTCTCTCAACTGGGAGTGTGTGGTCAGTTTCTGTGGAACACAGAGGCTGCCTGTCCCATTTCAGAC
AACGACGGATACAGACCAGGCTTGCTCTATAAGGGATCCCAACAGTGGATTGTGTGTTAATCTTAATCCGCTAAA
CAGTTCGCAAGGATATAACGTCTCTGGCATTGGGAAGATTTTATGTTTAAATGTCTGCGGCACAAATGCCTGTCTG
TGGGACCATCTGGGAAAACCTGCTTCTGGCTGTGAGGACAGAAACCCAACTGAAGAGCTCAAGAATTGGAAGCC
AGCAAGGCCAGTCGGAATTGAGAAAAGCCTCCAGCTGTCCACAGAGGGCTTCATCACTCTGACCTACAAAGGGCC
TCTCTCTGCCAAAGGTACCGCTGATGCTTTTATCGTCCGCTTTGTTTGAATGATGATGTTTACTCAGGGCCCCCT
CAAATCTCTGCATCAAGATATCGACTCTGGGCAAGGGATCCGAAACACTTACTTTGAGTTTGAAACCGCGTTGGC
CTGTGTTCTCTTCTCCAGTGGACTGCCAAGTCAACGACCTGGCTGGAAATGAGTACGACCTGACTGGCCTAAGCAC
AGTCAGGAAACCTTGGACGGCTGTTGACACCTCTGTGATGGGAGAAAGAGGACTTTCTATTTGAGCGTTTGCAA
TCCTCTCCCTTACATTCTGGATGCCAGGGCAGCGCAGTGGGGTCTTGCTTAGTGTGAGAAAGCAATAGCTGGAA

5304/5332
FIGURE 4600B

TCTGGGTGTGGTGCAGATGAGTCCCCAAGCCGCGGCGAATGGATCTTTGAGCATCATGTATGTCAACGGTGACAA
GTGTGGGAACCAGCGCTTCTCCACCAGGATCACGTTTGAGTGTGCTCAGATATCGGGCTCACCAGCATTTACGCT
TCAGGATGGTTGTGAGTACGTGTTTATCTGGAGAAGCTGTGGAAGCCTGTCCCGTTGTCTCAGAGTGGAAGGGGACAA
CTGTGAGGTGAAAGACCCAAGGCATGGCAACTTGTATGACCTGAAGCCCTGGGCCTCAACGACACCATCGTGAG
CGCTGGCGAATACACTTATTACTTCCGGGTCTGTGGGAAGCTTTCCTCAGACGTCTGCCCCACAAGTGACAAGTC
CAAGGTGGTCTCCTCATGTCTCAGGAAAAGCGGGAACCGCAGGGATTTCACAAAGTGGCAGGTCTCCTGACTCAGAA
GCTAACTTATGAAAATGGCTTGTTAAAAATGAACTTCACGGGGGGGACACTTGCCATAAGGTTTATCAGCGCTC
CACAGCCATCTTCTTCTACTGTGACCGCGGCACCCAGCGGCCAGTATTTCTAAAGGAGACTTCAGATTGTTCTTA
CTTGTTTGAGTGGCGAACGCAGTATGCCTGCCACCTTTCGATCTGACTGAATGTTTCAATCAAAGATGGGGCTGG
CAACTCCTTCGACCTCTCGTCCCTGTCAAGGTACAGTGACAACCTGGGAAGCCATCACTGGGACGGGGGACCCGGA
GCACTACCTCATCAATGTCTGCAAGTCTCTGGCCCCGAGGCTGGCACTGAGCCGTGCCCTCCAGAAGCAGCCGC
GTGTCTGCTGGGTGGCTCCAAGCCCGTGAACCTCGGCAGGGTAAGGGACGGACCTCAGTGGAGAGATGGCATAAT
TGTCTGAAATACGTTGATGGCGACTTATGTCCAGATGGGATTTCGAAAAAGTCAACCACCATCCGATTACCTG
CAGCGAGAGCCAAGTGAAGTCCAGGCCATGTTTCATCAGCGCCGTGGAGGACTGTGAGTACACCTTTGCCTGGCC
CACAGCCACAGCCTGTCCCATGAAGAGCAACGAGCATGATGACTGCCAGGTACCAACCCAAGCACAGGACACCT
GTTTGATCTGAGCTCCTTAAGTGGCAGGGCGGGATTTCAGAGCTGCTTACAGCGAGAAGGGGTTGGTTTACATGAG
CATCTGTGGGGAGAATGAAAAGTGCCTCCTGGCGTGGGGGCTGCTTTGGACAGACCAGGATTAGCGTGGGGCAA
GGCCAACAAGAGGCTGAGATACGTGGACCAGGTCTTGCAGCTGGTGTACAAGGATGGGTCCCCCTTGTCCCTCCAA
ATCCGGCCTGAGCTATAAGAGTGTGATCAGTTTCGTGTGCAGGCCTGAGGCCAGGCCAACCAATAGGCCCATGCT
CATCTCCCTGGACAAGCAGACATGCACTCTCTTCTTCTCCTGGCACACGCCGTGGCCTGCGAGCAAGCGACCGA
ATGTTCCGTGAGGAATGGAAGCTCTATTGTTGACTTGTCTCCCTTATTTCATCGCACTGGTGGTTATGAGGCTTA
TGATGAGAGTGAGGATGATGCCTCCGATACCAACCTGATTTCTACATCAATATTTGTGAGCCACTAAATCCCAT
GCACGGAGTGCCCTGTCTGCGGAGCCGTGTGTGCAAGTTTCTATTGATGGTCCCCCATAGATATCGGCCG
GGTAGCAGGACCACCAATACTCAATCCAATAGCAATGAGATTTACTTGAATTTGAAAGCAGTACTCCTTGCTT
AGCGGACAAGCATTTCAACTACACCTCGCTCATCGCTTTCAGTGAAGAGAGGTGTGAGCATGGGAACGCCTAA
GCTGTTAAGGACCAGCGAGTGCAGCTTTGTGTTTGAATGGGAGACTCCTGTCTGTCTGTCTGATGAAGTGAGGAT
GGATGGCTGTACCCTGACAGATGAGCAGCTCCTCTACAGCTTCAACTTGTCCAGCCTTTCCACGAGCACCTTTAA
GGTGAAGTTCGCGACTCGCGCACCTACAGCGTTGGGGTGTGCACCTTTCAGTTCGGGCCAGAACAAAGGAGGCTGTAA
GGACGGAGGAGTCTGTCTGCTCTCAGGCACCAAGGGGGCATCCTTTGGACGGCTGCAATCAATGAACTGGATTA
CAGGCACAGGATGAAGCGGTGTTTTAAGTTACGTGAATGGTGATCGTTGCCCTCCAGAAACCGATGACGGCGT
CCCCGTGTGCTTCCCCTTCATATTCAATGGGAAGAGCTACGAGGAGTGCATCATAGAGAGCAGGGCGAAGCTGTG
GTGTAGCACAAGTGGGACTACGACAGAGACCAGAGTGGGGCTTCTGCAGACACTCAAACAGTACCGGACATC
CAGCATCATATTTAAGTGTGATGAAGATGAGGACATTGGGAGGCCACAAGTCTTCAGTGAAGTGCCTGGGTGTGA
TGTGACATTTGAGTGGAAAAACAAAGTTGTCTGCCCTCCAAAGAAGTTGGAGTGCAAATTCGTCCAGAAACACAA
AACCTACGACCTGCGGCTGCTCTCCTCTCTACCGGGTCTTGGTCCCTCGTCCACAACGGAGTCTCGTACTATAT
AAATCTGTGCCAGAAAATATATAAAGGGCCCCCTGGGCTGCTCTGAAAGGGCCAGCATTTGCAGAAGGACCACAAC
TGGTGACGTCCAGGTCTTGGGACTCGTTTACACGCAGAAAGCTGGGTGTCTAGGTGACAAAGTTGTTGTACGTA
CTCCAAAGGTTATCCGTGTGGTGGAAATAAGACCGCATCCTCCGTGATAGAATTGACCTGTACAAAGACGGTGGG
CAGACCTGCATTCAAGAGGTTTGATATCGACAGCTGCCTTACTTACTTCACTGAGTGGGACTCCCGGGCTGCCTGCGC
CGTGAAGCCTCAGGAGGTGCAGATGGTGAATGGGACCATCACCAACCTATAAATGGCAAGAGCTTCAGCCTCGG
AGATATTTATTTAAGCTGTTTCAGAGCCTCTGGGGACATGAGGACCAATGGGGACAACCTGATGAGATCCA
ACTTTCCTCCATACAAGCTCCAGAAACCCGGCGTGTCTGAGGCCAACATATGCCAGGTGAAGCCCAACGATCA
GCACTTCAGTCGGAAGTTGGAACCTCTGACAAGACCAAGTACTACCTTCAAGACGGCGATCTCGATGTCGTGTT
TGCTCTTCTCTAAGTGCAGGAAAGGATAAGACCAAGTCTGTTTCTTCCACCATCTTCTTCCACTGTGACCTCT
GGTGGAGGACGGGATCCCCGAGTTTCACTACGAGACTGCCGACTGCCAGTACCTCTTCTTGGTACACCTCAGC
CGTGTGCTCTTGGGGTGGGCTTTGACAGCGAGAATCCCGGGGACGACGGGCAGATGCACAAGGGGCTGTGAGA
ACGGAGCCAGGCAGTCGGCGCGGTGCTCAGCCTGCTGCTGGTGGCGCTCACTGCTGCCTGCTGGCCCTGTTGCT
CTACAAGAAGGAGAGGAGGGGAAACAGTGATAAGTAAGCTGACCACTTGTGTAGGAGAAGTTCCAACGTGTCCTA

5305/5332
FIGURE 4600C

CAAATACTCAAAGGTGAATAAGGAAGAAGAGACAGATGAGAATGAAACAGAGTGGCTGATGGAAGAGATCCAGCT
GCCTCCTCCACGGCAGGGAAAGGAAGGGCAGGAGAACGGCCATATTACCACCAAGTCAGTGAAAGCCCTCAGCTC
CCTGCATGGGGATGACCAGGACAGTGAGGATGAGGTTCTGACCATCCCAGAGGTGAAAGTTCACTCGGGCAGGGG
AGCTGGGGCAGAGAGCTCCCACCCAGTGAGAAACGCACAGAGCAATGCCCTTCAGGAGCGTGAGGACGATAGGGT
GGGGCTGGTCAGGGGTGAGAAGGCGAGGAAAGGGAAGTCCAGCTCTGCACAGCAGAAGACAGTGAGCTCCACCAA
GCTGGTGTCTTCCATGACGACAGCGACGAGGACCTCTTACACATCTGACTCCGCAGTGCCTGCAGGGGAGCACG
GAGCCGCGGGACAGCCAAGCACCTCCAACCAAATAAGACTTCCACTCGATGATGCTTCTATAATTTTGCCTTTAA
CAGAACTTTCAAAGGGAAGAGTTTTTGTGATGGGGGAGAGGGTGAAGGAGGTCAGGCCCCACTCCTTCCTGAT
TGTTTACAGTCATTGGAATAAGGCATGGCTCAGATCGGCCACAGGGCGGTACCTTGTCGCCAGGGTTTTGCCCA
AGTCCTCATTTAAAAGCATAAGGCCGGACGCATCTCAAACAGAGGGCTGCATTGGAAGAAACCCTTGCTGCTTT
AGTCCCGATAGGGTATTTGACCCCGATATATTTTAGCATTTTAAATTCTCTCCCCCTATTTATTGACTTTGACAA
TACTCAGGTTTGAGAAAAAGGAAAAAAAAACAGCCACCGTTTCTTCTGCCAGCAGGGGTGTGATGTACCAGTTT
GTCCATCTTGAGATGGTGAGGCTGTGAGTGTATGGGGCAGCTTCCGGCGGGATGTTGAACTGGTCATTAATGTGT
CCCCTGAGTTGGAGCTCATTCTGTCTCTTTTCTCTTTTGCTTCTGTTTCTTAAGGGCACACACACGTGCGTGCG
AGCACACACACATACGTGCACAGGGTCCCCGAGTGCCTAGGTTTGGAGAGTTTGCCTGTTCTATGCCTTTAG
TCAGGAATGGCTGCACCTTTTTGTCATGATATCTTCAAGCCTGGGCGTACAGAGCACATTTGTCAGTATTTTGCC
GGCTGGTGAATTCAAACAACCTGCCCAAAGATTGATTTGTGTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGAGTGGAGTTGAGGTGTGAGAGAAAATGAATTTTCCAGATTTGGGGTATAGGTCTCATCTCTTCAGGTTT
TCAATGATACCACCTTTACTGTGCTTATTTTTTAAAGAAAAAGTGTGATCAACCATTGACCTATAAGAGCCT
TAATTTGCACAGTGTGTGACTTACAGAACTGCATGAAAAATCATGGGCCAGAGCCTCGGCCCTAGCATTGCACT
TGGCCTCATGCTGGAGGGAGGCTGGGCGGGTACAGCGCGGAGGAGGAGGGAGGCCAGGCGGGCATGGCGTGGAGG
AGGAGGGAGGCCGGGCGGTACAGCATGGAGGAGGAGGGAGGCGCTGCTGGTGTCTTATTCTGGCGGCAGCGCC
TTTCTGCCATGTTTAGTGAATGACTTTTCTCGCATTGTAGAATTGTATATAGACTCTGGTGTCTATTGCTGAG
AAGCAAACCGCCCTGCAGCATCCCTCAGCCTGTACCGGTTTGGCTGGCTTGTTTGATTTCAACATGAGTGTATTT
TTTAAATGATTTTTCTCTTCATTTTTTTTTCAATCAACTTTACTGTAATATAAAGTATTCAACAATTTCAATA
AAAGATAAATTATTAA

5306/5332
FIGURE 4601

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCAGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCCTGGGTCTTGATATAAAGCTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTTGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTAAACAAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTAAGA
AAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA
GTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTG
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAATCTGTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTCGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA
CCGGCTATGCCCCGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTCTGATATGA
GACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGGAAGAA
TGGTCTCAGAACTGTTTGTTCATTGGCCATTAAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC
GTAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTGCCTGTGGCAGTTTTAAG
TTATTAGTTTTTAAATCAGTACTTTTAAATGGAAACAACCTGGACCAAAAATTTGTCACAGAATTTTGAGACCCA
TT

5307/5332
FIGURE 4602

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCAGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCGATTTAGACCTGCGGGTGCTGCCGCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAAATGGACATTGTACTTAAAAAAAACA
AAAAAAAAAAAAAAAAAAAA

5308/5332

FIGURE 4603

ATGAACGACACATGGTTGATGGCAGAGTTCAGACAACAATTATTTGGAGCAGACCAGGAGCAAAGACAGCTGATT
AGAGGATCAGTACCCAGGGCGGTACCACTCACCAACCAGCTGGCCTCTGTTGTCACCCGTCAGCTCACGATCCAG
TCCCTCTGGATGGTGACGGTCAGCGCCGTGCCGGCCAGGTTTGCCAAGGCCACTAGGGTGGTCACCAAGTGCACAG
CAGGCCACCTACCGAAGGAGGGGAAAGGGTCTTACAAACAAGCTGTTATTCCAAGAATCTCTTCAAAAAACAGCA
ACAAGGCTTTCAGCTTTCAGCTGGGAGGAGGCCAAGGTGCAACTTTCTTGGGTCGTCCTGAATCTAGCCACCTCT
GCCATGCTGCCGAAGTTCTACCCCAATGAGATCAAAGTCACATACCTAAGGTGTACTGGGGATGAAGTGGGTGCC
ACGCTCTGTGTTGGCCCCAAGATCAGCCCCCTAGGTCTGTCTTCAGAAAAGAACAGAGAGGCCCCAGATTGAGGTG
GTGACTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCGCCAAGAGACAGAAAGAAACAGAAAAACATT
AAACACAGTGGAATATCACTTTTGATGAGATTGTCAATGTTGCTCAACACATGTGGCACCAGTCTTTAGCCAGA
GAACTCTCTGGAATCATTAAAGAGATCCTGGGGACTCCCCAGTCTGTGGGCTGCAATGTTGATGGCTGCCACCCT
CATGATATCATAGATGACATCAACGGTGGTGCTGTGGAATGCCCAGCTAATTAA

5309/5332
FIGURE 4604A

GGGTCCCTGGTTCGTGCCTGTCAGAGAGGCTGGCGGCAGTGGTGGCTCTCCCGGCTGGGTTGTCAGTCAGTGAGAG
GAGGGGGAAGATGGCTCACCGGGACCCGTTCTGCTAGGAAGAAGGGGAGCAGGTGGTGCTACTCGGGAGGAA
GCAGAGCAGCCTCCGTCGCTGTCGCTGAGAGCCTCACGAGTCGAGGTCTGCAGGTGGAGCTCCGGCAGCCGCCC
TGGTTGAAGGTTTAGAACAGATGTGGAAAAATGTTTACTTCAGAGAAAGGGGTTGTGGAGGAATGGTTGTCAGAG
TTTAAGACATTACCAGAAACATCTTTACCAAATTATGCCACAAATTTGAAAGACAAGAGTTCTTTAGTTTCATCT
CTCTATAAAGTTATCCAGGAGCCACAAAGTGAGTTGCTAGAACCTGTCTGTCACCAGCTCTTTGAATTCATCGC
AGTGGAGAGGAGCAGTTGCTTCAATTTACGCTGCAATTTCTCCAGAACTAATTTGGTGCTACCTTGCACTCTCA
GCCAGCAGAAATGTGCATAGCAGTGGATGCATTGAAGCTCTTCTTCTAGGGGTTTACAATTTGGAAATAGTTGAC
AAACAGGGACATAACAAAGTATTGAGTTTACGATTCCATCTTTATCCAAACCATCTGTATACCATGAACCTTCC
AGCATTGGGTCCATGGCTCTGACTGAGAGTGCACCTATCCAGCATGGTTTGTCAAAAGTGGTATACAGTGGACCT
CATCCTCAAAGGGAATGCTGACAGCACAGAATCGGTTTGAAGTGTTGACATTCTTTTGGTTGTGTTACAATGCT
GCCTTAACCTACATGCCAGTGTCTCTTCTCAGTCACCTGTGTCAAATTTGTTCAAGAATCTGTGTTTGTGGATAT
CCTCGACAACATGTAAGAAAATATAAAGGTATAAGTAGCAGGATACCAGTTTCTTCAGGATTATGGTGCAATG
TTAACAGGGATTATTTTGCCTTTTATAATGGAGAATGGGATCTAGCTCAAAAAGCACTGGATGATATTATATAC
AGAGCCCAGCTAGAATTATATCCAGAGCCATTGCTGGTTGCTAATGCAATAAAGGCTTCATTGCCTCATGGTCCC
ATGAAATCTAATAAGGAAGGTACAAGGTGATTCAAGTTGAAATCACACCAACTTCTCTCGAATATCAAGAAAT
GCAGTAACCAGCATGTCAATAAGGGGTATAGGTGGAAAAGACATGGAAATACAGAATTAACAGGTCAAGAAGAA
CTGATGGAGATATCTGAAGTTGACGAGGGATTTTATCCAGGGCTGCGTCTAGTACCAGCCAGTCGGGTTTATCA
AACAGTAGTCACAATTGTAGTAACAAGCCAAGTATAGGAAAGAACCACAGACGGTCAGGAGGAAGCAAACTGGA
GGAAAAGAAAAGAACTACAGGGGAATCTTGCAAGATCACTTTGCTCGAAAACAACTCAGAGAGCCCAAAGT
GAGAATCTTGAGCTTCTCTCTTTGAAGAGACTTACTTTAACAACCAGCCAATCCCTACCTAAGCCTAGTAGCCAT
GGTTTGGCTAAGACCGCAGCGACTGTATTTAGTAAATCCTTTGAACAAGTCAGTGGTGTACAGTCCCACATAAC
CCGTCATCTGCTGTTGGTTGTGGGGCTGGGACAGATGCCAATAGGTTTTCCGCTGTAGTCTCCAAGAAGAAAAG
CTTATTTACGTTTCAGAAAGAACTGAACCTCCAATGAAGCATCAATCAGGTCAGCAGAGACCTCCTAGTATTAGC
ATTACTCTGTCCACAGATTAATTAGTAACATATTTTTCTCCATAACCTAGTGAACCTGGAAATACAACCTTTGCT
TCTTTATGAAAGTACCCTGGGCTTTTCATCCGTATTCCTGACAGGAGCCCTGATGTCTTAAATTCGAAGGCTCC
CCTGACTTTATGAAGGGAAGATTGTCTAGGTTGCAGTAAGTTGAAATATGGTTTGTATTCTTGATTAAAGATT
TTTTCCCTTGGTTTGAGTCTTTTTTTTCCCTCCTCTTATTTGTTATTGTTGCCCTAAGATTGTCAAGTACAATA
AATTTTGACAGGTTGTCTAATCAAGTTGGTTATGTCTCATGTGAGGTTGTAAGGTGGTTTTCTTGTTTTGGTTT
GGTTTGGTTTTTTAATAGCTCCTATTTGATGGCTGTGTGTTTGGCCTTCAGAGTCAAAGGGAGTCTGCATGTAT
GGGAAGTGTATATAGAGAATGGGGCAGAGGCACAACCTCCAGGAATTCTCTAGCTCCTGGTCAGGAAGCCAATCT
GAAAACAGGCATGTGGAAACACAAAATGATGTGTATGAAAAGCACCTGATGAAAATATTTGTAAGCAGATCATC
TTTATGATTAGAACAATTTGCTCAAAGCCCTGGAAAATGCCTGGTAACCCAGTGCCTAGAATATATATGATTCC
AGGGGATGGCTAGAGGCATTTCTGTTGTATCTCTGAAACATTTTATATCAAAAATCAGATTGCTGGTAGGTGT
GTTGTTTTGAAGTGTTTTATCTGGATTAGCATGTGAAGATCCCTTTCAATTATTAAGGTATAATAGGCTGTAAA
GCTGATTTACCCTACTGCTGGACTTTGGAAATCCTAGTTAGTTTGGACTCCTATAATTCAGAGCATACGTCATTG
GAAGACTTCCTGGAAATCAGTGTAATCTTGCAACATAGCTCTCAAGATACCACTGTATAATATGTAATTGTTTG
TCTGCAAATGCATTTTTTCATCTATAAAATGTCATGAAAGAAAATAAAGGTAGTGAAATATGGACAAAGGACATTT
ATATATTAACATAAAGTTGTTTTATGTTTGTTCTTAAATTTAAACACGAAGAAAAGAAATGTCTTCTTGTTA
GTGAACAGGCCTGTTTTAAATATCTTAGTATGATATCAAAAGAATAATCAATTTAGTTACCTCCCACTAAAAAG
TAAAAATGAAAAAGACGACATGGCAGAAGTTGAAACAACTTGATGTATCTGTATGTGACCTCTAGATGGAAAT
AAAAGTTTGATGTTTGCTAGCCGTGGTCTTTTGGCTATGGTTGCGGTTCCCTGTAAAGCAAATGTACTTAAGT
CATCATTGAGAGTGAGAGAGAGAAAGCACGGCTGAGGCTGAGTCAGTTGACCGTTGAGGAAGCACTAAGGAGCTG
TCCAGTTCTTGGCTCTTTTTCTGCTGACTGCACAGCGTTTCTTCTTCATAGTCCCTTGCTGTAGTACCCAAAG
AGAGCATGCTAGTGTCTTCTGTTCTGCTTATGCAGAGCTCAGATATATGAAAATTTGATGCTTTGAAAG
GCTGCCAAAGCATTTATACTCTGGACATAGTTTTAACTGCAACTGCTTTGGCTACCAGTTTAAACCGAGTTCTTC
AAAAAGCATGAACTCGTTTTTCAATTCATTAGCCCTGTTTACAATGTGGATTTTGACATAAATGAATTTGATTTCT
TTTAGCTCCAGTAACAGAATGGAATAAGATCTATTGCCATAAATTTAGTTAAGAACTGTAAGGCAATCGGGCAG

5310/5332
FIGURE 4604B

TGAAACTTGATATTGTATTAACTTAATAGGAACCCTGTGTACAATTTAAAATATTTGTAAAATATCACTGTGAAT
TTACAGATGTCTTTTGTTCATTCTTTAACAATGAATTCCCCCTGTGCATAGTTATTAATAGTATTGGTATTATTA
AAAAC TAATTGGCATT

5311/5332
FIGURE 4605

CCGCGCCGAGCCGGTTTCCGCCGCCGGTGTCGAGAGGAGCGCCCCCGGCCCGCCCGCCCGCCGCGCCCTCCGCCG
CCGCGCTCCCCGGGCGCGCGCGGTGGGCGAGCTCGCGGGCCCGGCCGCCCCAGCCCCAGCCCCGCCGGGCCCGCC
CCCCCGCTCGAGTGCATGAGGTTGACGCTACTTTGTTGCACCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGC
GAGTTGCCCGTGTGTGCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTTGG
CACGCAGACTGCTTCAGGTGTTGTGACTGCAGTGCCCTCCCTGTGCGACCAGTACTATGAGAAGGATGGGCAGCTC
TTCTGCAAGAAGGACTACTGGGCCCGCTATGGCGAGTCTGCCATGGGTGCTCTGAGCAAATACCAAGGGGACTG
GTTATGGTGGCTGGGGAGCTGAAGTACCACCQCGAGTGTTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGAC
GGGGACACCTACACGCTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCC
GTCATCGAGCAGATCCTGCCTGACTCCCCGGCTCCCACCTGCCCCACACCGTCAACCCTGGTGTCCATCCCAGCC
TCATCTCATGGCAAGCGTGGACTTTTCACTCTCCATTGACCCCCCGCACGGCCACCGGGCTGTGGCACCAGCAC
TCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCATGAGCCCAGATGTGAAGAATTCCATCCACGTCCGA
GACCGGATCTTGAAATCAATGGCACGCCATCCGAAATGTGCCCTGGACGAGATTGACCTGCTGATTACAGGAA
ACCAGCCGCTGCTCCAGCTGACCCTCGAGCATGACCCTCACGATACACTGGGCCACGGGCTGGGGCCTGAGACC
AGCCCCCTGAGCTCTCCGGCTTATACTCCCAGCGGGAGGCGGGCAGCTCTGCCCGGCAGAAACCTGTCTTGAGG
AGCTGCAGCATCGACAGGTCTCCGGGCGCTGGTCACTGGGCTCCCCGGCCTCCAGCGCAAGGACCTGGGTGCG
TCTGAGTCCCCTCCGCGTAGTCTGCCGGCCACACCGCATCTTCCGGCCGTCGGACCTCATCCACGGGGAGGTGCTG
GGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGGTGATGAAGGAGCTG
ATCCGTTTCGACGAGGAGACCCAGAGGACGTTCCCAAGGAGGTGAAGGTTCATGCGATGCCTGGAACACCCCAAC
GTGCTCAAGTTCATCGGGGTGCTCTACAAGGACAAGAGGCTCAACTTCATCACTGAGTACATCAAGGGCGGCACG
CTCCGGGGCATCATCAAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCA
TCAGGGATGCCTACCTCCACTCCATGAACATCATCCACCAGACCTCAACTCCCACAACCTGCCTGGTCCGCGAG
AACAAGAAATGGTGGTGGTGGCTGACTTCGGGGCTGGCGCGTCTCATGGTGGACGAGAAGACTCAGCCTGAGGGCCTG
CGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCGTGGTGGGCAACCCCTACTGGATGGCACCTGAGATG
ATCAACGGCCGAGCTATGATGAGAAGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCGAGATCATCGGGCGG
GTGAACGCAGACCCCTGACTACCTGCCCCGCACCATGGACTTTGGCCTCAACGTGCGAGGATTCTTGGACCGCTAC
TGCCCCCAAACCTGCCCCCGAGCTTCTTCCCCATCACCGTGCGCTGTTGCGATCTGGACCCCGAGAAGAGGCCA
TCCTTTGTGAAGCTGGAACACTGGCTGGAGACCTCCGCGATGCACCTGGCCGGCCACCTGCCACTGGGCCACAG
CTGGAGCAGCTGGACAGAGGTTTCTGGGAGACCTACCGCGCGGGCAGAGCGGACTGCCTGCCACCTGAGGTC
CCCGACTGAGCCAGGGCCACTCAGCTGCCCCGTGCCCACTCTGGAGAATCCACCCCAACCAGATTCTTCCGCG
GGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTCAGAGCCAGGCCCTGACTTGCCTTCTCCAC
CCCGTGGACCGCTTCCCTGCTTCTCTGCGGTGGCCAGAGCCGGGCCAGCTGCACACACACACCATGCTCT
CGCCCTGCTGTAACCTCTGTCTTGGCAGGGCTGTCCCTCTTGCTTCTCCTTGATGAGCTGGAGGGCTGTGTG
AGTTACGCCCCCTTCCACACGCCGCTGCCCCAGCAACCTGTTACGCTCCACCTGTCTGTTCCATAGCTCCCTG
GAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCGTGGGAGGGCGCATCAGGG
CAGAGGCCAAGTTCCAGGTGTCTGTGTTCCAGGAACCAAATGGGAGTCTGGGGCCCGTTTTCCCCCAGGGGG
TGTCTAGGTAGCAACAGGTATCGAGGACTCTCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAG
GTCCCCAGTGGCTGAGCAAACAGCCCCCTTCTCTCGGCTTGGGTCTTTTGTGTTTCTTTCTTAAAGCCACTTTA
GTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGTCCCTTGAGGGAGCGTGAGCTGCGGTGCCCTGGCCGGC
GATGGGGAGGACCGGCTCCGCGCTGAGAGGATAGGCACAGTGGACCGGGCAGGTGTCCACCAGCAGCTCAGCC
CTGCGAGTCATCTCAGAGCCCTTCCCGGCTTCCGCCAAGGCTCCCTGCCCTCCTCATGCCCTCTGTCTCT
CTGCGTTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGCTGCAGCAGCAGCTGC
CAGGGGCTTGGGATTTTTATTTTTGTGGCGGGCGGGGGTGGGAGGGCCATTTTGTCACTTTGCCTCAGTTGAGCAT
CTAGGAAGTATTAAAACCTGTGAAGCTTTCTCAGTGCATTTGAACCTGGAAAAAATCCCAACAGGCCCGTGGGA
CCATGACTTAGGGAGGTGGGACCCACCCACCCCATCCAGGAACCGTGACGTCCAAGGAACCAAACCCAGACGCA
GAACAATAAAATAAATTCCGTACTCCCCACC

5312/5332
FIGURE 4606

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTGAGAAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT
GGGATTCCCGGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGGCG
ACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTCAG
GAGAACCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCTCA
ATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCCTAGAGAGGAAGTCGTTCAAAGGAGCAAG
AATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCGGGGCG
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
GCTGTTAACAAGTGGTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTTTTCT
TTCTTCCGCTGCTTCCCATTTTCTCTCTGCTTTTTCTCTGCTCCTTGTTTTCCAGCAGCACATGGGGTTC
CTCGGAGGAGCAGAGGTGGCCGCGCTGGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTC
TTTACTTTAGACACTGGCCCACTCCAGGCGTTTTCTTTTATTCCCTCAGTGTCTCTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTTGGTATT
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTAGGATAAAAAATATCTGCAGGGTCTTTTC
CATTCCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA
GAAACAGTGAGGCTGAAAGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCAGCTAGTTCACTCCTTTGCGCGTGCCTGGTGGAGGCTGGCCTCTCTGGCT
GGGTGCAGTGAATGGCCAGCGGTTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGTGGTGCTGGT
GCTGCACTGGGCTGACTGCGGCGCTGACGCAGCGTTTCCCCCATCCCTGTTGCCTGTGTGTTGTGTGGATCTGT
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG
ACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTTCAGCAGTTA
TGTGGGAGTGTAGGGGTTAGGCTTTTGTGCTTGAACGCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA
AGTCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCGGCGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCAGCCAGCGGAATGTGCTTAGTATTTGGTCACCAGCCGTCATCTGGG
CTTTTCTACTGTGTCTTGTGTTACAAGGCCTCAGCAATCCACAGAATCTCTCTCCTTCCCTTCCACCTGTGAGCTT
CTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTTCAGAAAGACATGCATTATGTGGTGTAA
TCAAACCCGATGCTTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACACATTTCAGCTATATGAC
AGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTTACGTAATATTT

5313/5332
FIGURE 4607

CAGTGC GGCGGATGTACGGATGATT CAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGT CAGTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGGTGAGGAACCCTGGACTCTCAGAGATGG
AATTTACCGTGTTCCTAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCTCGGCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCCTAGTTGCAACAGTTCTTGAAACCCACT
CGAGAGGGCCACGCTCCATTACAGGCCACGCATCACAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGA
CTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGT
CCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC
TGTTGCAATTCTACCCAGCCTGGAGGATCCAGCATCTTCAGGTACCAGAACTTCAGCAAAGGAAGCAGACACG
GGTCGGAGGAAGCCTACATAGACCCCATTTGCCATGGAGTATTACAAGTGGGGGCGGTTCTCGAAGCCCCCAGAAG
ATGATGATGCCAATTCCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCACAGAGACAGGTGCCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGTGATGGGGCAACTCCAGAGAGAAGCATCCCTTGGCCCGGTGGGAAGCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGACAGCCTGGGAAAA
GACAGTTACTCACGGGAGCTGCAGGCCCCGTACCAAGCCCTCTCCCGACCCAGGCTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGAGCCATATTTAACATTCTGGATTTT
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTACGCATCCTTGTGGGTGGGGCC
CTGGCTCTCTTCCCTTTTGGTGGGACCTCCCCCTTTCTTTGGGCTTCAGTTCACCTCAGGAAGAAATGAGGCTGTG
CCATCTTTATGTGCTTCCAGTGAAATGTCACTTGCTACAGACAATAGTGATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTG

5314/5332
FIGURE 4608

GGGAAGAGGAGGCGCGAGAAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTGA
CCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAAGTCCCGTGGGTGAAAAATATAGGCC
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT
GCCCCACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCT
GGGCCCAGCACTCAAAGATGCCATGTTGGAATCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA
AATTAAATGTTTGCTCAACAAAAAGTCACTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGA
CAGCATGACCGACGGAGCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCT
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCACTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA
AGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGG
CTTCATTAAAGTGAAGACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTGAGTGTGTAAAACCTTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA
AATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTTGCAGATGGCAGGCCCTCCTGGCAAGGCT
GTGTCAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG
AGGTACAGGAGCCGCGGCTTTCTGATGGGGGAAAATGCCGCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC
TGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCTGTCTTTACTAAAAATATAAAATTAGCTG
GGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTG
GAGGTTGCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAATT
AAATAAATAAACTCCCG

5315/5332
FIGURE 4609A

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCTCGGTGCGCGCTCCCGCCTTCCCAGAGACGTGGC
GCGAGGCCCCGGGCCCTGAGCACCTATCGCGGGGATCCCCGGCGCCAGGAGGGGTGCAGCCGGTGGGCGAGCCCG
CGCAGGGAGGGGCGCGCAGCATCCTCGCCCCCAGCGCGCCCGGGCCCGAGAGGAGGAGGCCGGGGCTCTCCGGGC
CTCCCGCCGCTTAGCCTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCACCTGCCCAGTGGCACCGCCATGCAGAAGCCCAGCGGCCCTGAAGCCCCCGGCCGTGGGGGGAAGCAC
TCCAGCCCCATGGGCCGGACATCTACTGGGTTCAGCTTCATCTCGGCGGCGGTGGCCGCTAGCTCCAAGGAAGGC
TCCCCACTGCACAAACAGTCATCTGGACCCTCCTCCTCCCCGGCCGAGCTGCTGCCCCGAGAAGCCGGGCCCC
AAGGCGGCGGAAGTGGGGGATGACTTCCTGGGGGACTTTGTGGTGGGCGAGCGGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGCAGTATCTGGGAGAGACGCAGTTTCGCACCGGGCCAGTGGGCTGGCGTGGTGTGGACGACCCG
GTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCCTACTTCGAGTGCCCGGCCCTCCAGGGTATCTTCACGCGG
CCCTCCAAGCTGACCCGGCAGCCACGGCCGAGGGCTCGGGGAGTGATGCCACTCCGTGGAGTCGTGACTGCC
CAGAACCTGTCAATTGCATTGCGGCACGGCCACGCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCTGTGAAGCGGGGCGAA
AAGGACCTGCGCCTGGGGGACCGCTGCTGGTTGGCGGGACGAAGACTGGCGTGGTGGGTACGTGGGGGAGACA
GACTTTGCCAAGGGCGAGTGGTGTGGCGTGGAGCTGGACGAGCCCCCTTGGGAAGAATGATGGGGCGGTGGCGGGC
ACCAGGTACTTCCAGTGCCACCCAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCCA
TCTACCAGCCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTGACCCACAGTCCCAGC
AGTTCTCCATCAGCTCCGTGAGCTCTGTGGCTCCTCCGTGGGGGGTGGGCCAGCCGAGTGGCTGCTCAGC
GAGACCTCTTACGCTACGCCCCAAGATCTCGGGCACCACGGCCTTGAGGAGGCACTGAAGGAGAAGCAGCAG
CACATTGAGCAGCTGCTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAGGAGAAGTGCAGCGA
GCCCGGCTGCTCGTGGAGAGCGTGGGAAAGAGAAGGTGGACCTGTCCAACCAGCTGGAGGAGGAGAGGAGGAAG
GTGGAGGATCTGCAGTTCCGCGTGGAGGAGGAGTCCATCACCAGGGAGACCTGGAGACCCAGACCGAGCTGGAG
CACGCGCGCATTGGGGAGCTGGAACAGAGCCTGCTACTGGAGAAGGCGCAGGCCGAGCGGCTGCTCCGAGAATTA
GCGGACAACAGGCTGACCACAGTGGCCGAGAAGTTCGCGCTGCTGCAGCTGGAGGAGGAGCTCACCTGCGCCGA
GGTGAATTCGAGGAGCTCCAGCAGTGCCTGTTGCACTCGGGTCCCCCACCTCCGGACCACCCAGACGCCCGCGAG
ATCCTGCGGCTACGGGAGCGGCTGCTCTCGGCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGTGCGGGATAAA
TACGAGAAGGCCCTGAAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGCACAGGAG
GTGGCGGGCCTGAAGGACAAGGTTCAGCAGGCCACCAGCGAGAACATGGGGCTAATGGACAAC TGGAATCCAAG
CTGGACTCGCTGGCTCGGACCACCAGAAGTCCCTGGAGGACCTCAAAGCCACCCTGAAC TCGGGCCAGGCGCC
CAGCAGAAGGAGATCGGCGAGCTGAAGGCAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
TTGCAGGCCAAGCATGACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
GCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAGCTGGAGGTGCAAGCCAGCCAGCACCAGGCTG
GAGCTGCAGGAG
TACCGGGGCCAGGCGCAGGCTATCGAGTTCTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTAC
GAGCGGCTGCAGCGGGCAGAAGCCCAGGGCAAACAGGAGGTGAGAGTTTGCGGGAGAAGCTCCTGGTGGCTGAG
AACAGACTCCAGGCGGTTCGAGGCCCTGTGCTCCTCCAGCACACCCACATGATTGAGTCGAATGACATTTAGAG
GAGACGATCAGGACGAAGGAACTGTGGAGGGCCTGCAGGACAAGCTGAACAAGAGGGACAAGAGAGGTGACAGCC
TTGACCTCCAGACCGAGATGCTCAGGGCCCAAGTAAGTGCCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAG
GTGGACGCCCTCCTGAAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCGGAAGACCCATGACGCC
TCGGGCCAGCTAGTCTCATCAGCCAGGAGCTGCTGCGGAAGGAGCGGAGCCTGAACGAAC TCGGGGTGTTGCTG
CTGGAGGCCAATCGTCACTCCCCAGGGCCGAGAGGGACCTGAGCCGTGAGGTACACAAGGCTGAGTGGCGGATC
AAGGAGCAGAACTCAAGGATGACATCCGGGGCCTGCGTGAAAAGCTGACCGGGCTGGACAAGAGAAATCCCTG
TCGGATCAGAGGCGCTACTCCCTCATCGACCGGTCTCGGCGCCGAGCTTCTGCGGCTGCAGCACCAGCTGATG
AGCACGGAGGAGGCGCTGCGGGATGCGCTGGACCAGGCTCAGCAGGTGGAGAAGCTGATGGAGGCCATGAGGAGC
TGCCCTGACAAGGCCAGACCATCGGCAATTCCGGTTCTGCAACGGCATCCACCAGCAGGACAAAGCTCAGAAA
CAAGAGGACAAGCACTGATCCTGAGGGGATACTGTGGAGCAGCCAGTCCACACCAGAGCCCCACGCGGCTGCCC
GGCAGTACCTCCTCCAGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTTTGTAAACAATAACGTACTC

5316/5332
FIGURE 4609B

ACCGCCGCGGACAATCCCCACCCGATCCCTCGCCAGACCAGGACGCTTCCTCAAGCCCAGCCTTCTACAGAGA
GTGTGAACGGTACAGCCCCGGCCTGACCCGGGGACCTTCAGCCTGGACACCCGGCAGCTTCTGGAGTTTGTCACT
GGAGGCAGAGGGGATCCGGCCAGGCCCCCTCTGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCC
TCTTTTCCGCCCATTTCTCCCTCGGGTCTCCCCAGAGGGGCCGGCGGGGGCTGGGGAGGGGGTAAGTTTATCCAT
GCAGACACCAAGGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGGGCCCTTTTCCGAAGCCACTTCCAGGCCAA
GGCAGTCGCCAGGGCTTCTTGTCCCCACCTTCTGAACCTTCTTCAAACAGTAGTACAAGCTCCCCTCAGCCAGCC
TGCCCTGCCCAGCGAGGCCCCCAGGTTCAAGGTGTTGGCGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGC
TGCCACCAACACCAACACACACACACCTCTAAGCTGCTGGCCGAAGATGTCACCAAGGCCAAAGACACAGTATT
ATGAAGGTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTGGGCAAACCTGGCTCGGAGCCCAGGGCAGA
GGCAGCTCAGAGTGGAGGCTCTAGGCAGGTTTGACAAAGGTCAAGTAATACGGTTTCCCCTGGGGTTGACCAGATG
TTCCAAAATATCTGCATCCACCTGGAGATGCAGCTAAGTGGGTCTTATGTACACACCACGTTACACACACACA
GAGGGACCACGTGTGCACGCATGACCGTGTGGGTGGCGGCGTTTGTGTGAACCACGCTCAGGCCACACAGAGAC
ACATACTTGGTTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGTGCCTACAGATACTGCAAACGTTCTTACAGC
CTAGAGGTGCGTATACACACCCCAAGTACACGCAGCCAGGCATTACAGGGGTGTGTTTGCCACATGGAGCATCCCTT
CCTGGTCTTGCCAGGCACCTGCAÇAGAGCGTCTCCAGCCCCATCTCCTAACGGGGGCTGGGGGTAAGAGAAATCT
AACTGCGCTCCCCCAACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCAGGCCTGTGCGTGGT
GGAAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGGGGACCAACAGGTTGCTTACAGCTTTGCACC
CCGGCATCAGCACAGGGGTCCCTGCCCAACCTCCGGCAGCTCAGGGAGTGTTCCTGTGAGGCCTCCCCCATC
AGTGGACCAGAGGGAGAAGCCCGATGCCCCATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTCATAG
GAACGGCCCAGATCGCCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTCTGCCCCAATGCAGCC
CATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCTCCAGTCCCTGTTGGCTTTCGGTAGCTCTCGCATGCAGT
TCTATTAACAGCCGTCTAGAAGCGATGCTTTAGTGGCCTAACCAGGGTCAAATACAGCTCTTTCTAGCAAAATC
AGGCAGCTCTGCCCCATCGGTAGGGGCACCGATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGG
AGGAGCTGAGCCCCCGGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTCCTTGGGAGCTTCTGCCTCC
GTGGGCCTCTCAGCCCGCCCCGTGTGGCCGCCCGGGTGTGGCTCAGCCATGTCCCCTCCCCAGGTCTTCATTCA
CCCCCTCCCCTCCCCACAGTGGAATTGTTGAAGTGTGGCGAGTCTGTGCTCGGGACAATAAAGCTTGTGACAGGTC
CAGG

5317/5332
FIGURE 4610

TAAATGGCAGCCAATGGAGGGTGGTGTTCGCGGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCGCCCTCCGCCG
AGCCCGCGCCGGGGTGGGGGCCGCCGAGCGCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCGTCTCGCCTCCCTCTGCCTCTCCTTCCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCTTGCCGCGGGCCGGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAACTCCGCGTTACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCG
CTGTCCAAACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGAGGGCCCCCGTGGAAAG
GATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTG
GGAAGGGCCAGTGTGGTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTG
CCCCAACCGCCACCTCCTCCTCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCTTCAAGCGCCCTGCACTTATGGAGTCCCCAAGCTGAAGCGGATCCTGAGGAGCGCCATAGTATC
CACTTCATCATTAAAGAGGATGTTTGTATGAGCGAATTTTCACAGGGAACAAGTTTACCAAAGACACCACGAAGCTG
GAGCCAGCCAGCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGAGGAGAGGCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGCATCTCCCTCCGAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAAGTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACCAGGCCTTTCCAAGGACTCATCCCAAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGGTGCTGGTCCCTTATAAACTAATCCGGGACAGCCAGACGCCGTGGAGGTACGGGTCTGCCT
GATGACATCCCTTCCGGAACCCCAACACGTACGACATCCACCGGTGGAGAAGATCCTGAAGGCCCGAGAGCAT
GTCCGATGGTCATCATTAAACCAGCTCCAACCCCTTTCAGAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATTCGCTCTCCTCTTCTCCTCGTCTTCTCT
TCTCTGCTCTTAACCCGGATTACGTGGCATCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTG
GACTATGCCGGCCTGAACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCGGATATGTATCGATGCCTTTTAGTTTTCC
AATGATTTTTACACTATATTCTGCCACCAAGGCCTTTTAAATAAGT

5318/5332
FIGURE 4611A

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCGCCCCCGCTTCCCCGCAC
GCGCTCTCCAGCCGCGGCCCGCCCTGCCGCGGTACCCCGCCTCTGCCTCTGTCCCCAGTGATCGGATCAA
GGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCT
CGCCCCCTCTCGCCTCCCGTCCGCTCGCCAGCTCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGACGCCGCGCG
CGGCCCACTCGCCTCCCCCTCGGCACCCCCGCCCCGAGCTGCCTGGAGGCGGCCGCACTCGGGGATCATGGC
CCAAGTTGCAATGTCCACCCCTCCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGACATTCTCAT
GTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAC
AGACGTGTTTGTCTCGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTGAAGAAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAACCCAGGCAAATCGGAT
GAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGAGGACTATTTCTGCTTTTGTATGGGAAAGC
TTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAGATGCTGCGAGACCAGTGGGCTGTGGTAGTGACGGG
GCTTCCGGAAGGTGTTGCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTCAATCATCATTAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGGTCTGTGTATGGTAAC
AGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCCCATCAAAGTGAAGAACTGAACCCACAGAAGA
TTCTGGCATTTCCTGGAAATGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAA
CATTCAAGCAGGCCCTTCTGAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCCTTCAGA
AACAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGC
CAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGA
GAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAGAGATCTTTATGTAGAAGGACT
TCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCCTCGCCTGGAGAGGATATTACTTGCAAAGGA
AAGGATTCGTTTTGTGATTAAGAAACATGAGCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGC
TTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAA
ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACACCCGAATGATCT
GTACGTGGAAGGACTGCCAGAAACATTCCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAT
CATTCAAGTGGGCAATCGAATTAAATTTGTTATTAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTAC
TCAGCCAAGAACGAATACACAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGA
GATTTTAAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAGTACCATATCCTGTGTTTGAATC
AAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGAATTC
ACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTCGTTGTTAAAAACCTGAACTAGTTATTTCTTA
CTTGCCCTCCTGGGATGGCTAGTAAAAATAAACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCTGGGAG
TAATTCAAAGGTTCTGAAATTGAGGTACCCGTGGAAGGCCCTAATAACAACATCCTCAAACCTCAGCTGTTTCG
AACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTTCTTTGAGGCCTGGAA
TGCCAAAATCACGGACCTAAACAGAAAGTTGAAATCTCTTCAATGAGAAATGTGGGAAGCTCTTGGCCTTAA
ACAAGCTGTGAAGGTGCCGTTCCGCTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAAATTAA
GTTTCATCATTAAAAAGCCCGAAATGTTTGAAGCGCGATTAAGGAGAGCACCTCCTTAAGAGCCCTCCAGAAA
AATAAATTCATACCCAATGTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTCAGGTGACAATTCC
AGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTAG
TCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAATCACAATTAACCTGG
CTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGCTTCAAAGCCCCAGCTACCTGGAAATCAGCTCCATGAG
AAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCA
GCTGGTTGATCAGAGTGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAAGAGACTGATGGAAGCTGATCAGATCAAGTCAAGCAAGAACCCAGCCACGTGGTAGACCTCTTC
CCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTTACTACCCCAAGCTGTGTAATATACT
TGATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTT
TGTGAATTAAGAGCAGAGTACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA

5319/5332
FIGURE 4611B

GCAATGCTGGGAAATGACAGGGAAATGACAGGAATGAATCTCACCAGATTTTTATGTACTCAGCAGAGCCTTG
AGTTACGGTGTTTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCTACTGGAACATCTCAGCTTCTGCAGT
GAAGAAAAATTCCTGTGATAGTTTCTTTAGTTTTTCTATTTGAAAAAAAAAAATCATTAAATGATCCTTT
GTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCCTAAGCTATCT
CTCATGGTTCCTATGTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTCAGAGGTCAGTAT
CTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTTACTTTTCGTCCAAATAAAATGCATG
GTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACC
TGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTCGCCGTGGCCGGCATTATTT
CCTAGTTCTTCTTGTAAACCCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTCAGGGGGCTAAGGATGCAACCTCT
GACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTACAAAGCAATGCGAGTTGTAAAATACCAGC
TCTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCACAATATTACAATGGAGAATTATAT
GACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
AAAATCCATCCATGCCTTTCACACACTAA

5320/5332
FIGURE 4612

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA
GGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT
TTCATCCTTTCTCGGGCACCAAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGCTGCAGCTCT
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA
TCAAGAAATAAGGAATACAGACATGAAATACAAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA
AAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCTCTGACTTATTTGCTAGAAATGACAGCAGAGGA
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAAAAGCTTGACCAAGAAGCCATCAGAGAGCATCAGATGGCCAA
GACTGGTGGGACCCAGACTGACTTGTTACATGTGGCAATGTAAAAAGAAGAATTGCACTTACACACAGGTACA
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTTGCTGTAAATGAATGTGGAAATCGATGGAAGTTCTGTTG
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAGAAAACGGATTTTGTAACTAGCTTTAACTAGGCCAAGCA
ACTAGTTTTCTGCAAAATCAAATTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA
AATGCCTTCTGTAGTTTTCAGATCAGTAGGGAGACCATATAATAATTTTATGGTACCTGTTTCAAAACATATTTTT
TCTGTTTTTATAAGTAAGTTGATATTAATTAAGTCTTGGCAATATTTCTTCTTTCTTAAAGGAAAAATATACCTT
AACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTACTCTCTGTTATTAATACATAAATGAA
AATACATTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA
CCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTGAGGTAGCTTATGAA
TTTGATTTTAATTATTATGTTTACAAGCTTGGAAATATTAGATAATTATTTTGCATCTGTAACCTAACCGTGATCATC
ATTTCTTGTAATTTCTTGATCATGTATATTACTTGTTCTTAATAGATTTTTGGAAACAAGACTTTATTGAGATCA
GTTTGGTTTTCTGTTAATTTACCTGTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAAGACTGTTGTAGTT
TAGAAGGCTTTTCATAAATCCCTCATAGGCAAAGATGAAAACCTCCCACTATTTTTTCCCTCTTAGGAAGAC
ATACTGGAAAGAAAATGTTTAGCATCTTAGTGATAGTATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTG
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC
TGATAGAAAATAATTTTGTCCCAAGTCTTATTGCTGACTTTTTCTGTGATGAGTGAGATTGTTGAACAACTGA
ATAATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTAAAGTGTGTACCA
TTTTTTCTGTTTGGAGTAAGACAAAAATGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA
AAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC
ATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTFTGTGTAATACAGAAAGCAGC
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGTGAGTTTATAGTTGAAGA
TTTTGTTTTATTTCAAAACAAAGTACATTTTTGAAATAATGTTTCAGAATAAAATAATCTCACATTTTAAAGTAT
CCATTTTAAATTTGTAATTCATAAAGTTTTTTTTGTTGTTAAACAT

5321/5332
FIGURE 4613

TACCTGTGCGGCCCTCAACGCTCTCCTTGGTGCGGGACCCGCTTCACTTTCCGGCTCCCGGAGTCTCCCTCCACTGC
TCAGACCTCTGGACCTGACAGGAGACGCCTACTTGGCTCTGACGCGGCGCCCCAGCCCGGCTGTGTCCCCGGCGC
CCCGGACCACCTCCCTGCCGGCTTTGGGTGCGTTGTGGGGTCCCGAGGATTTGTTGAAAGACATTCAAGATTAC
GAAGTTTAGATGACCAAAATGGATATCCGAGGTGCTGTGGATGCTGCTGTCCCCACCAATATTATTGCTGCCAAG
GCTGCAGAAGTTCGTGCAAACAAAGTCAACTGGCAATCCTATCTTCAGGGACAGATGATTTCTGCTGAAGATTGT
GAGTTTATTCAGAGGTTTGAAATGAAACGAAGCCCTGAAGAGAAGCAAGAGATGCTTCAAACCTGAAGGCAGCCAG
TGTGCTAAACATTTATAAATCTGATGACTCATATCTGCAAAGAACAGACCGTTCAGTATATACTAACTATGGTG
GATGATATGCTGCAGGAAAATCATCAGCGTGTTAGCATTCTTTGACTATGCAAGATGTAGCAAGAACACTGCG
TGGCCCTACTTTCTGCCAATGTTGAATCGCCAGGATCCCTTCACTGTTTATATGGCAGCAAGAATTATTGCCAAG
TTAGCAGCTTGGGGAAAAGAAGTGAAGGAGTGAAGTAAATTACTATTTCAATTGGATAAAAACTCAGCTG
AGTTCACAGAAACTGCGTGGTAGCGGTGTTGCTGTTGAAACAGGAACAGTCTCTTCAAGTGATAGTTCGCAGTAT
GTGCAGTGCGTGGCCGGGTGTTTGAGTGAACAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATA
GGGTAAATTGCATAATGGGAGTGTGAGTGAACAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATA
TGGCTCCTGGCATTTCAGTCTCTCAAATGTGTGAACAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATA
CTTCAGGAGTCTGTCAAAGAGAAAGTAACAAGATCATTTCTTGCAGCATTTTCGTAACTTTTTAGAAAAATCAACT
GAAAGAGAAACTCGCCAAGAATATGCCCTGGCTATGATTTCAGTGCAAAGTTCTGAAACAGTTGGAGAACTTGGAA
CAGCAGAAGTACGATGATGAAGATATCAGCGAAGATATCAAATTTCTTTTGGAAAACTTGGAGAGAGTGTCCAG
GACCTTAGTTTCAATTTGATGAATACAGTTTCAGAACTTAAATCTGGAAGGTTGGAATGGAGTCCGTGCACAAATCT
GAGAAATTTTGGAGAGAGAATGCTGTGAGGTTAAATGAGAAGATTATGAACTCTTGAAAATCTTGACAAAATCT
TTGGAAGTGTGAGATGATCCCCAAGTCTTAGCTGTTGCTGCTCACGATGTTGGAGAATATGTGCGGCATTATCCA
CGAGGCAAACGGGTATCGAGCAGCTCGGTGGGAAGCAGCTGGTTCATGAACCACATGCATCATGAAGACCAGCAG
GTCCGCTATAATGCTCTGCTGGCCGTGCAGAACTCATGGTGCACAACTGGGAATACCTTGGCAAGCAGCTCCAG
TCCGAGCAGCCCCAGACCGCTGCCGCCGAAGCTAAAGCCTGCCTCTGGCCTTCCCTCCGCCTCAATGCAGAACC
AGTAGTGGGAGCACTGTGTTTAGAGTTAAGAGTGAACACTGTTTGATTTTACTTGGAAATTCCTCTGTTATATAG
CTTTTCCCAATGCTAATTTCCAAACAACAACAAAATAACATGTTTGCCTGTTAAGTTGTATAAAAGTAGGTG
ATTCTGTATTTAAAGAAAATATTACTGTTACATATACTGCTTGCAATTTCTGTATTTATTGTTCTCTGGAAATAA
ATATAGTTATTAAAGGATTCTCACTCCAAACATGGCCTCTCTCTTTACTTGGACTTTGAACAAAAGTCAACTGTT
GTCTCTTTTCAAACCAAATTGGGAGAATTGTTGCAAAGTAGTGAATGGCAAATAAATGTTTTAAATCT

5322/5332
FIGURE 4614

CTTCCTTCCGCTTGCGCTGTGAGCTGAGGCGGTGTATGTGCGGCAATAACATGTCAACCCCGCTGCCCGCCATCG
TGCCCGCCCGCCGGAAGGCCACCGCTGCGGTGATTTTCTGCGATGGATTGGGAGATACTGGGCACGGATGGGCAG
AAGCCTTTGCAGGTATCAGAAGTTCACATATCAAATATATCTGCCCGCATGCGCCTGTTAGGCCTGTTACATTAA
ATATGAACGTGGCTATGCCCTTCATGGTTTGATATTATTGGGCTTTCCACCAGATTCACAGGAGGATGAATCTGGGA
TTAAACAGGCAGCAGAAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTCTTAACAGAATTA
TTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAACTGGCAGGTG
TCACTGCACTCAGTTGCTGGCTTCCACTTCGGGCTTCTTTCCACAGGGTCTATCGGTGGTGCTAATAGAGATA
TTTCTATTCTCCAGTGCCACGGGGATTGTGACCTTTGGTTCCCTGATGTTTGGTTCTCTTACGGTGGAAAAAC
TAAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAACCTATGAAGGTATGATGCACAGTTCGTGTCAACAGG
AAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGATTGACGTCCTAAGAGGCCCTTGTA
GAAGTACACCAGCATCATTGTAGTAGAGTGTAACCTTTTCCCATGCCAGTCTTCAAATTTCTAATGTTTGA
GTGTTAAAATGTTTTGCAAATACATGCCAATAACACAGATCAAATAATATCTCTCATGAGAAATTTATGATCTT
TTAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCAGGTAGCTTC
TTTTTTCTCAAATGTAATTCAGCAAAATAATACAGTACTGCCACCAGATTTTTTTATTACATCATTGAAAATTAG
CAGTATGCTTAATGAAAATTTGTTTCAGGTATAAATGAGCAGTTAAGATATAAACAATTTATGCATGCTGTGACTT
AGTCTATGGATTTATTCAAAATTTGCTTAGTCACCATGCAGTGTCTGTATTTTTATATATGTGTTTATATACA
TAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCTGTTTATTGT
CAAGAAAAAGTAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTTATTTTCCCTGATAT
TATTTCTATTTAATACTCTTTTCTCTCAAGAAAAAAGTTTGTTTTTTCTTTATTGTCTTCATAGCAGG
CCAAGTATTGCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAAATTTGACATTCTGGGTACAGATATA
AGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAACCTTCATGCACTACTTATTTCGAATTAC
TGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATTCTGTGGTTTTATT
TTTCTGTAAACAACTGAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACTGATCTTAAA
AACTAATCTTAAGATGATTTTCATCTTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCAACTACTGTA
GAAGATGAGGAATCTATTGTAATTTTTTGCTTTATTTTCATCTGCCAGTGGACTTATTTGAAATTTTCACTTTAG
TCAAATTTTTTTGTATTAGTTTTTTGATGCAGACATAAAAAATAGCAATCATTTTAAATTGTCAAAATTTCCAGA
TTACTGGTAAAAATTTTGAACAACTTATGGGTAATAAAGGCTAGTCAGAACCCCTATACCATAAAGTGATG
TTACCATACAGATTAATATGTAGCAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTTCTGCTGTATTC
CAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAAATAATTTAGTAATG
GACTATACAGGATGTTAATAATGAAGCCATATGTTTATGTCTGGATTTAAAAATTTTAAACAATCATTTACTATG
TCATTTTTCTTTACCTTGAAGAACATAAACTGTTATTTCACTTCTACAAATCAGCAAGATATTATTTATGGCAAG
AAATATTCATTGAAATATTGTGCTGTAACATGGGAAAGTGTAATGTTTTTTCATGGTTTCTATCAATGTGAAAT
AAAATTTAATTCTGA

5323/5332
FIGURE 4615

CACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTTATGGCCGGTCCCTTGCAGGG
CGGTGGGGCCCCGGGCCCTGGACCTACTCCGGGGCTGCGCGTGTGAGCCTGGCCAACTTAAAGCCGAATCCCGG
CTCCAAGAAACCGGAGAGAAGACCAAGAGGTCGGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAAGGAGAAAG
GCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCAAAATACGG
GTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTTATTGATTT
GGGTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATCCAGCCACT
TAAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATTGAAGTACA
GTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTATGATCCAAG
AAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATGCTTCCACC
AGAAGAAGTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTTCTGAAGC
ACGACTTGAACTCGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACTCTTCAAAATGCTCTG
TACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGATAAGAAAAT
CCTAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGAGTTGTTAA
AGAGTACTGGAATAGGGGCTGAAGGATCTATATTCCCTTATTGCATTTTCCTTATGTATAATTTTCCAGATGGTG
ATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAAATGGCAGGAAACAAGGACTGCATAGAG

5324/5332
FIGURE 4616

CTCGCCTCACCAGGTACGGATCTCCCGCGCGTCGCCGAAAGCGGCTCTGACCCAGCGGAAGTAATTCCTTCGACT
GCCCCGGAACCCACCGGAGCAGGCAGCTGGGGGTGGGGGGCGGCCCTGGGATAGGGGCTGTGGCAGTACGCGGG
GACCCGGCTGCGGTGGCTGCGGGACTGACGAGAACTACTAAAGTTCCTGGGGAAGCAAAGTAGAATTCATAAG
AACAAAATGGATGGAGAGGAGAAAACCTATGGTGGCTGTGAAGGACCTGATGCCATGTATGTCAAATTGATATCA
TCTGATGGCCATGAATTTATTGTAAGGAGAGAACATGCATTAACATCAGGCACGATAAAAGCCATGTTGAGTGGC
CCAGGTCAGTTTGCTGAGAACGAAACCAATGAGGTCAATTTTAGAGAGATACCTTCACATGTGCTATCGAAAGTA
TGCATGTATTTTACGTACAAGGTTGCTACACTAACAGCTCCACCGAGATTCCCTGAATTCCTCAATTGCACCTGAA
ATTGCACTGGAACCTGCTGATGGCTGCGAACTTCTTAGATTGTTAAATAAAATAAAATTATAATAAACTGTTAACTC
TTTTCAGTATTTAATACCTGTAGTTTCTAGTTAGTAACTTTTTCATATATAGCATGTTGCCGTGATGCAGTTGAAC
ATATAAGTTTCATTGCAAAGCAGATTATCTTGTTTTTTGCATAGCAATCAAAGTTGAAATTTGTTTGCTACATC
AACAAATTAAGGACATTTTACAAAAGTGAAGAAATAACAAATATGCCAATTCGTAGGTGGTTTTGCTTATCCTT
TGAATGTGACTTAAATCAGCAATGATGATATAGTAAATACGAAATTTAGGTGTAAATCAATACGTTCTACAGG
GAAATAATGAGGCTAAGTATTTTATGTTTTTGTAGTGGTTTTTGTAAACCTAATCTTATAGCCGCCATTAGCATT
ACTAGAGTTATGCAAATAATTGCATTATAAACATGTTTATAACTTAGCCAAAACATTGATTTTTATAACTCTCCA
AGTATGAGTTGAAATTTCTTATGTCTTTTGATAAACTGCAGTATTCTTAAAGTGTACTTTGTCCTTTTGTATT
GCTACAATTTAAGAACTTTATTTAAAAACAATTTTGAAGGTTACTAGGTACAGCTTTTGCAGAAGAACTGAAC
TGTAAGCCAGATGGTCAGCAAGTAACTACATGACTTAGAGTTCTTGTGCATTATACATTTTGGGTAATTCAAAGT
ACTGTATTTGCATTGACTATAAAGCGTCGTTTGCAATATTTATCTCTCCTTCATAGTCCCTTGTTGTGATTATAC
TTCCAGTTGTTTAAATGTATTTTAAAGACTCACTATTAACCTTTATTCAGATCTTAAAGCTACACCTTTTTGAA
CTATTCAGTCTTTCTCCATCCAATTAGAATGTTATGGAATAACATGTGAAGAGATACAGTGAATCATATTAT
AATGCATTGAAGATATCCTACATGAATTATCTTCTATTAATAATATGTCCAATAAATATACCCATAATCAGTGGG
TCTTCTACTGAAATCAAGCTCATTTCAGCTTTTCTATTAAGCAGCCAAAAATTTTTTGAAAAATATGACAGCAT
CATTCTTATGCATGGGGAAAGAAGCACTGGAGATGGGTTTAGTATTGTCTTTATCTCAGAGGTGGAACAAAGTT
GTCATTATAGGGTCTATAAACTTAAGTCTCCAGCTTATTTGAGACTGGCTTAATATGGCTGAGCCCGGTGGCTCA
TGCTGTAAATCCAGCACTTTTCAAGGACGAGGCGGGTAGATCACTTGAGGCCAGGAGTTTGTAGACCAGCCTGGC
CACCATGGCAAAACCCATCTCTACCAAAAATGCAAAAATTAGCTAGGCCATGGTGGCACACGCCTGTAATCCCA
GCTACTTGTGAGGCTGAGGCATGAGAATCGCTTGAACCTGGGAGGTGGAGGTGGCAGTGAGCCGAGATCGCACCA
CTGCACTCCAGCCTGGGTGACAGAGCGAGACTGTCTC

5325/5332
FIGURE 4617

CTCTTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCTTGCTGTGCCAGAAACCCCTTA
AGAAAAAGCGAAGGAATTTGCGCAGAGCTGAAGATCAAGCGCCTGAGAAAAGAGTTTGCCCAAAGATGCTTCGAA
AGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATATAGGCAGATGTACAGAAGTGA
TTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTCTCA
GAATCAGAGGTATCAATGGAGTGAGCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCA
ATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAACTGCTGAGGATTGTAGAGCCATATATTGCATGGGGGT
ACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCTT
TGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATTTGATTGATGAGA
TCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTG
GAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTA
TTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCA
AATTGAAAAAAAAAAAAAAAAAAAAAG

5326/5332
FIGURE 4618

TGAAAAGGATGGAATTAAACAACCTTGGTTTGCCCTTATCTTGTAGACACTGGCATGTTTCAGAGGCTGCCGAAT
CAGGAAAGAAATTGAGCCTTTTCTGCCACCTCTGAAGCCTGATTACTGTGTGAAGCAGGCCATGAAGGCCATCCT
CACTGACCAGCCCATGATCTGCACTCCCCGCCTCATGTACATCGTGACCTTCATGAAGAGCATCCTACCATTGTA
AGCAGTTGTGTGCATGTATCGGTTCTTAGGAGCGGACAAGTGTATGTACCCCTTTATTGCTCAAAGAAAGCAAGC
CACAAACAATAATGAAGCAAAAAATGGAATCTAAGAATCTTTTTGTATGGAATATTACTTCTATCAGAAGATGAT
CAAGATGTTTCAGTCCAGTGCACATCAGCATTGCTGACATTTTATGGATTCTAAACTTGTGTTGTTTCTTTTTTA
AATCAACTTTTTTAAAAAATAAAGTGTAATTAACCGACTAGAGTACTTGGAAAAATGTGATCAGTACAAGTGAAC
TTAGGTTGTTGCCAACAGGGTCCTTTTAGGCAGAACCAGAAACCAGTCAAATCTGTAGAGAAGCAGTGTGACAT
CTTCAGGTTACCATTATTTTTTAATGAGCAGGAAGTCTAGAAATGATAACTAGACTGTATGTTTCATGTGTGIGA
TTTTTCAGAATCCCAGAGTTTACTCATTCTTGTATTAACTCTAGCCAGTTGACATCTTCGCAATTTCAAGGA
CTGATAGTGCTGTATTTCTCACGTTTTCTAAGTTTCCGTTTTGCAAGGCCTAGGTGACTTTTTTCATGGTGTG
TATGTTTAGCTCTTTGAAAAGGAATTTTGAATCTCCATCAACTGAAGTAAATGATGTCTGAGTGTACAGTAA
AGGTGACCAAGTCTCTTTCTTAAAGTCACAATGACTAAAGTATTAGTTGAATTTTTTTTTTTTTTTTGTATGG
AGTCTCGCTCTGTCAACAGGCTGGAGTGCAGTAGCACAATCACGGCTCACTGCAATCTCTGCCTCCAGTTTCAA
GTGATTCTGCTGTCTCAGCCTCCCAAGTAGCTGGGACTACAGGCATGCGCCACCACGCCAGCTAATTTTTGTAT
TTTTAGTAGAGACGGGGTTTACCATTGTTGGTCAGGATGGTCTCCATCTCTTGACATTGTGATCCACCTGCCTCG
GCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCCAGCCTTGAATTTTTAATTTTATCTCTGATATA
CTTCATTAAAGTGTCTGGAGACCTAATTATCCTAAAAGATCATACATTTTCTACCTATGAATTTTGTGTCATACAG
AAAGTGCCCTTTTCTCAGGAAGTTGCTGTGTTTCATTTCTTTGGATGGACTCTTATCTAGAATACATAGCAGCTC
TGCAAAGGAACAGTTTTTAAAAATGGGAACCTTCTACATTGAAAAGTCCCCATTTTTTGTGCCAACTATGATTAGTG
AGAGGAAGAAATCTTATTCTATGGCATATGTATGGAAGGGTGTAAGATTCTTTTGAAAGGTTTATTCACATTGT
AGAACAGCAAAATGACATTTTTTACAGTATTTTTTGTAAAGCAAACTATTTTGTGCCTTGAATTTGGTATATGTGT
ATTAGTGAAACATTGTAAAGGTGAACCTTCTACCTCTGTATCTAAATGTATACCATCCACTTGTAAATGACTATAA
ACTATTATGTGATTGCTTTTTTTTTTTAGAAATGTCTTGTTTAAATAGTGGCCAATGTTTAAGGCTGTTAAATAAG
CCAACCTTTTACTAATTGGGGAGTTTTATAAATGACTGATTAAATTTAAAGAATTAACCTACATGCAATTGTGTGA
TTATTAGTTATCAGCAGTGTGTAAGGAAAATTATTGTGTTTTTTTTTATGATCATTATCCCCTTTAGGTAAAG
AAAAATATTGGAATGGAATAGTGTGGGAAACAGACATTAACAACCTAGGGTGCCTGCACTCAAATAGCCGATGT
TACTGTCCCTAGATTAGAGACTTGATTAAGGGCTTGTGTTGTACCAAAAGTGGGGAACAATGCCATGACCTGTGT
TTTAGTTTGGCTGCACCACAGATCAAATCTGCACTGTGTCTACATATAGGAAAGGTCCTGGTGTGTGCTAATGTT
CCCAATGCAGGACTTGAGGAAGAGCTCTGTTATATGTTTCCATTTCTCTTTATCAAAGATAACCAAACCTTATGG
CCCTTATAACAATGGAGGCACTGGCTGCCTCTTAATTTTCAATCATGGACCTAAAGAAGTACTCTGAAGGGTCTC
AACAATGCCAGGTGGGGACAGATATACTCAGAGATTATCCAGGTCTGCCTCCCAGCGAGCCTGGAGTACACCAGA
CCCTCCTAGAGAAATCTGTTATAATTTAACAACCCACTTATCCACCTTAAACTGAGGAAAGTCGTCTTTACATC
TAATTTTATTCTTGTGTGTTATAACTTAAACCTATTTCTATTTTTGTTTGTATTGCCCTTATAAGGGTGTCCAT
CTCCAAGTTCAATAAACTAATTCATT

5327/5332
FIGURE 4619A

CCAATGTTGGAGCCGTCGCAAAGTGTCCCGGCAAGAAGAGGCTGCCTACCACAAGGACTTTAGCTTACTTTTT
AAAGATTGAAGAAAAAAGAAGACAGAAAAAGAAGAACTCAAAGATACACAAAGTAATTTGAACCAAGGCTCAG
AAGTTTTGGAGCCGTGAGGGATACAGCAGTTTGGTCAATATTGTCTTAACATGCTTCAAATAAAATCAGATGTTT
TCAGTGCAGCTGAGTCTTGGTGAGCAGACATGGGAATCCGAAGGCAGCAGTATAAAGAAGGCTCAGCAGGCTGTT
GCCAATAAAGCTTTGACTGAATCTACGCTTCCCAAACCACTTCCAGAGCCACCCAAAAGTAATGTTAACAATAAC
CCAGGCAGTATAACTCCAACCTGTGGAAGTGAATGGGCTTGCTATGAAAAGGGGAGAGCCTGCCATCTACAGGCCA
TTAGATCCAAAGCCATTCCCAAATTATAGAGCTAATTACAACCTTTGGGGCATGTACAATCAGAGGTATCATTGC
CCAGTGCCTAAGATCTTTTATGTTTCACTGCTAGGAAATAATGAATTTTTGGGGAAGGAAAGACTCGACAA
GCTGCTAGACACAATGCTGCAATGAAAGCCCTCCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTCCTCAG
AATGGTGAATCAGGAAAGGATGTGGATGATGACAAAGATGCAATAAGTCTGAGATCAGCTTAGTGTGTTGAAATT
GCTCTGAAGCGAAATATGCCTGTGAGTTTGGAGTTATTAAGAAAGTGGACCACCACATATGAAAAGCTTTGTT
ACTCGAGTGTGAGTAGGAGAGTTCTCTGCAGAAGGAGAAGGAAATAGCAAAAACTCTCCAAGAAGCGCGCTGCG
ACCACCGTCTTACAGGAGCTTAAAAAAGCTTCCACCTCTTCTGTGGTGGAAAAGCCAAAAGCTATTTTTAAAAA
CGCCCTAAAACAATAGTAAAGGCCGGACCAGAATATGGCCAAGGGATGAACCTATTAGCCGCTGGCGCAAATT
CAACAGGCCAAAAAGGAAAAGGAGCCGATTATGTTTTGCTTTCAGAAAGAGGAATGCCTCGACGTCGAGAATTT
GTGATGCAGGTGAAGGTAGGCAATGAAGTTGCTACAGGAACAGGACCTAATAAAAAGATAGCCAAAAAATGCT
GCAGAAGCAATGCTGTTACAACCTGGTTATAAAGCATCCACTAATCTTCAGGATCAACTTGAGAAGACAGGGGAA
AACAAAGGATGGAGTGGTCCAAAGCCTGGGTTTCTGAACCAACAAATAATACTCCAAAAGGAATCTTCATTG
TCTCTGATGTTTATCAAGAGATGGAAGCCAGCCGCCACAAAGTAATCTCTGGCACTACTCTAGGCTATTTGTCA
CCCAAAGATATGAACCAACCTTCAAGCTCTTCTCAGTATATCTCCACATCGAATAGTTCAGCTACAATTGCC
AGGGAAGCTCTTATGAATGGAACATCTTCTACAGCTGAAGCCATAGGTTTAAAGGAAGTCTCTACTCCCCCT
TGTTCTCCAGTACAACCTTCAAACAAGTGAATATTTAGCAAGGATTCAAGGCTTTCAGGTATGAATTAAGC
AAAAACAAAAACAAAACAATTCATTAGCCTCAGATTCTTCATCTGTATACATCACAAGGCTCATTCTTGCCTGC
TAGTATGGCCTACATGCCACTTACGTTTTAAGTTATTTAGGAACACAAAGGACAGACAAAAAGCCATATGCACA
TGCTCATTTTTCTCTTATTTTTGATCTATCTAGTAATTTCTTTTGCTGCCTGTCTCTTCTCCATTTTCTTCT
TTTTAAGCATTTTTTCTATTTCTTCACTGTCTTCTATTTGGTCTTGATTAGGTGCATCTATCTTCTGCTCTGTC
TTCCACAAAAAATTTCTGCCTTACAGACATTTGGTGTTAGTATTTACACTCAGTTCTCCCTTTTTTACATAA
GGATTGAGTTTCTTTTTATGATGATTTTACCTTTATAGCAATTTTGAATTTTGCATTCTATTGCTAGTATTGATT
CAGGTACACCATTAAAGATACAACATTCTAGAAGTCTATTACCTTAGGAGTTAATTAAACATGATATTTGAAGAAT
AATGAAATGCTTTATAGTTGTTTGGGCATAACAATGTGATTTGTTTTACTGGATCATGTTTGAAGTACTAG
GGAGGGTAGCACCTGCCTCAGATAGTACCAACAATCTGTTTCACTGGGTAGTCTAAAGTACTAGCTTATAGTTTAA
CTTAAGTTGTTGTGATGTGAATTTAGGGATGGAACTTTTTTCCCTATTTATTTCTTTGTTTCTTCTGGGAA
AAAACCCACAAAAATCAGCACTCCTTTATGGATACATGGAGCTTTTGAAAGAATTGTAACTCTAGGAAGGGG
AAATATCTGTGCTTGATTTCTTAGTTGCCTTGAAGTCAATGTAAGTGAACCGCTAACTTGACTGGATGA
ACTAGTTTGCTTGTGTGTAGAGAGTGTATTGCTTCCCTCAGATTTCACTGTTTTCTCTCTTTTCCATCTTAGTC
TTTATTCCTTAAGACCAAAAGTGAATATCCTTTAGAAATGCTCTAGAAGATCTGTATTGTGTAGAATGATCAT
GTATTTATAAATATTTTACAAGTTTAGATTATAAAATGAAAAAGAAGGTCAATGTGTTTTGGGGGTATTTGTCAT
GTTCCGATTTTTTTTCACTTCCCGAACCTTCTGATCTTTCAAAGTATTGCCAGGTAGTTGTTAGTGTCTT
AATTGGACTCTTAATATGAACCTTCAAGAAGCTGTTACCAGTTATCGGCTCTGTCTGAAATTTAACCCTTA
ATTTAAAGTTACAATTTTAGAATTTGTTTTGTTGTTTTACCTTAAGAAACACAATAAATCACTGTTAAAAAAG
ATCTCAATTTATATAAAGTACTGGAAAAAGCTAAGTAATTTTAGTTCTATCTATAATCTCCGTAGGATGAATT
AGAAATAAATGTGATGAAAAGAAATTAAGTCTTATTATGAATCTAATCATTAGAAATCTGAGAGTAACA
CTGCATTCTTATAGAAACAAAGCACAAATTGCATTCAAGCTCTGAATTTGATTTTTGCTTGGAGCTGTTGTTACA
GTAGCTGAATTTTGCTACCAAGATGTCTTAATTTTTTAAATTTGTTTTATTTCTAAGCTCTTGGCAATGACAA
TAATTATAAATTTAATATCTTCACTGTAGTCAACATGTAGAGTCTGCTTCCCTCATTATTGCATTGCTAAGGC
CTTTTTAAAAAGCTTATGCTTACATAATATACTCTTTTTATGGACACGTTATATGTTTCCAAATCTGTGATTG
TGATTTTACATACTAATGAATATAAAGAGGTGATTTTAAATATTACTGTGCTTCTTTGGTTGAATGAGCTGGT
ATTGATGTAATAACTCTGTCTATTGATGGACCACTACCTGCAGCTAAGCAGTGAGCAGAATCTCCGGGAAATGAC

5328/5332
FIGURE 4619B

TTAGTCTGGCCACATGCATAGCCCATCTTCATAATGTCGCAGCAGAAGGTTCTTTGTGGTTAAAAGTTTTAAAGC
CTATTTCTTTATAGGTAACCCCTCTCAGGTATATTTACCTGGTAGAAAAACATGTAGATTGTTTCTATTACTTAAA
TGTTTTAATTGGACTGTAGTTTAGAAATTACAGGACCAGCTTGTTACAGATTATACACTATTCTGTTACTTTTAT
TTCTGAACTTAAAAACAATAAATTCTTTTTCTGTGTTTCTAGGTTAGAACTTTTTTATTTTATTGCACACTGAA
CAGATACTGTTGCTTATTGAATATTGTGTAACCCTTCTTTGGCTTTCCTTGCCCATTGCAATTTGATTTAAGCC
TACTAGAGCCATTGTATGTGACAGCTATATTGTATTACAAAGTAAAAATATATGAGTGTATTG

5329/5332
FIGURE 4620

GCCCCACTCCCACCGCCAGCTGGAACCCCTGGGGACTACGACGTCCTCAAACCTTGCTTCTAGGAGATAAAAAAGAA
CATCCAGTCAATGGATAAAAAATGAGCTGGTTCAGAAGGCCAACTGGCCGAGCAGGCTGAGCGATATGATGACATG
GCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCAGTTGCT
TATAAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCT
GAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTA
CTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTGAAAATGAAA
GGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGGATTGTCGATCAGTCACAACAA
GCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTT
AACTTCTCTGTGTTCTATTATGAGATTCTGAATCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGAT
GAAGCCATTGCTGAACCTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACTGAGA
GACAACTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAACCG
GCCTTCCAACCTTTTGTCTGCCCTCATTCTAAAATTTACACAGTAGACCAATTTGTATCCATGCTGTCCACAAATA
GTTTTTGTGTTTACGATTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATATTTCCCATGTGGTTTTTATG
TTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGG
ATGTGGAAATTTTATACAAAGTTATAAGTGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCAAAGGGCCAATG
TAAACTGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATACTGGTTTGTCTGGCGGGGAATAAAAGGGATCA
TTGGTTCCAGTTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAATCAT
ACCCCATGGATACCACATATTAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTACAGCTGCA
GAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTATTT
GTAAAGTTACCTGCTGTTAGCTTTTATTATTTTGTCTACACTCATTTTATTTGTATTTAAATGTTTTAGGCAACC
TAAGAACAAATGTAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTTACTTTCATGTATATCAAGCAC
AGCAGTAAAAACAAAAACCCATGTATTTAACTTTTTTTTAGGATTTTGTCTTTGTGATTTTTTTTTTTTTTTT
GATACTTGCCATAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAACTTGAGATGATGGCTAGCTTTGTTT
AATGTCTTATGAAATTTTTCATGAACAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTTCATGTAAGTGA
ATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTGGTTCTGAAAC
TTCTCTAAAGGAAATGTACATTTTTTGAATTTATTCCTTATCCCTCTTGGCAGCTAATGGGCTCTTACCAAG
TTTAAACACAAAATTTATCATAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCCCCTCTCT
TCCTCCCCACCCTGAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGGGATTGATTAGAAAAAATGTAGTG
TGTTCCATTTAAATTTTGGCATATGGCATTTTCTAAGTTAGGAAGCCACAATGTTCTTGGCCCATCATGACATT
GGGTAGCATTAACTGTAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGATACTCTTATAGC
CTGCCTTCAATTTTATCCTTTATTCTTTCTATTTGTGAGGTGCACAAGATTACCTTCCTGTTTTAGCCTTCTGT
CTTGTACCAACCATTTCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCAGT
GTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAATCTCT
CCTTAGTTGATGAGACTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTCTGCTGCTTTT
AAAATCCTTCCCTTTCTTCTCCTCTATTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCTCACTTTAC
AAAATATTTTCTCAGTACTTTGCAGAAAACACCAAAACAAAATGCCATTTTAAAAAAGGTGTATTTTTTCTTTTA
GAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTCAA
TAAATATTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCC

5330/5332
FIGURE 4621

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTGAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTGTTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

5331/5332
FIGURE 4622

CCTTCTCCCCGGCGGTTAGTGCTGAGAGTGCGGAGTGTGTGCTCCGGGCTCGGAACACACATTATTATTAAAA
ATCCAAAAAAATCTAAAAAAATCTTTAAAAAACCCCAAAAAATTTACAAAAATCCGCGTCTCCCCCGCCGG
AGACTTTTATTTTTTTTCTTCTCTTTTATAAAATAACCCGGTGAAGCAGCCGAGACCGACCCGCCCGCCCGCGG
CCCCGCAGCAGCTCCAAGAAGGAACCAAGAGACCGAGGCCTTCCCGCTGCCCGGACCCGACACCGCCACCCCTCGC
TCCCCGCCGGCAGCCGGCAGCCAGCGGCAGTGGATCGACCCCGTTCTGCGGCCGTTGAGTAGTTTCAATTCCGG
TTGATTTTTGTCCCTCTGCGCTTGCTCCCCGCTCCCTCCCCCGGCTCCGGCCCCAGCCCCGGCACTCGCTCT
CCTCCTCTCACGAAAGGTCGCGGCTGTGGCCCTGCGGGCAGCCGTGCCGAGATGAACCCAGTGCCCCAGCT
ACCCCATGGCCTCGCTCTACGTGGGGGACCTCCACCCCGACGTGACCGAGGCGATGCTCTACGAGAAGTTTCAGCC
CGGCCGGGCCCATCCTCTCCATCCGGGTCTGCAGGGACATGATCACCCGCCGCTCCTTGGGCTACGCGTATGTGA
ACTTCCAGCAGCCGGCGGACGCGGAGCGTGCTTTGGACACCATGAATTTTGATGTTATAAAGGCAAGCCAGTAC
GCATCATGTGGTCTCAGCGTGATCCATCACTTCGCAAAAGTGAGTAGGCAACATATTCAATAAAAAATCTGGACA
AATCCATTGATAATAAAGCACTGTATGATACATTTTCTGCTTTTGGTAACATCCTTTCATGTAAGGTGGTTTGTG
ATGAAAATGGTTCCAAGGGCTATGGATTGTACACTTTGAGACGCAGGAAGCAGCTGAAAGAGCTATTGAAAAAA
TGAATGGAATGCTCCTAAATGATCGCAAAGTATTTGTTGGACGATTTAAGTCTCGTAAAGAACGAGAAGCTGAAC
TTGGAGCTAGGGCAAAAGAATTACCAATGTTTACATCAAGAATTTTGGAGAAGACATGGATGATGAGCGCCTTA
AGGATCTCTTTGGGCCTGCCTTAAGTGTGAAAAGTAATGACTGATGAAAGTGGAATCCAAAGGATTTGGATTTG
TAAGCTTTGAAAGGCATGAAGATGCACAGAAAGCTGTGGATGAGATGAACGGAAGGAGCTCAATGGAAAAACAA
TTTATGTTGGTCGAGCTCAGAAAAGGTGGAACGGCAGACGGAACCTTAAGCGCAAATTTGAACAGATGAAACAAG
ATAGGATCACCAGATACCAGGGTGTTAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGTCTCC
GGAAAGAGTTTTCTCCATTTGGTACAATCACTAGTGCAAAGGTTATGATGGAGGGTGGTCGCAGCAAAGGGTTG
GTTTTGTATGTTTTCTCTCCCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAA
AGCCATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACCAGTATATGCAGAGAA
TGGCAAGTGACGAGCTGTTCCCAACCCTGTAATCAACCCCTACCAGCCAGCACCTCCTTCAGGTTACTTCATGG
CAGCTATCCACAGACTCAGAACCGTGCTGCATACTATCCTCCTAGCCAAATTGCTCAACTAAGACCAAGTCCTC
GCTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCAGCTGCTCCTAGAC
CACCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTCCACGAGTCATGTCAACACAGCGTGTGCTAACACAT
CAACACAGACAATGGGTCCACGTCTCAGCTGCAGCCGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGT
ATAAATATGCTGCAGGAGTTCGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAATGCAACAGCCTG
CTGTTTCATGTACAAGGTCAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCTCCTCAAGAGCAAAAGCAAA
TGTTGGGTGAACGGCTGTTTCTCTTATTCAGCCATGCACCCTACTCTTGCTGGTAAAAATCACTGGCATGTTGT
TGGAGATTGATAATTCAGAACTTCTTCATATGCTCGAGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTG
TAGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTGCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAAGT
TTTAAATTTGATCAGGGACCATGAAAAGAACTTGTGCTTCACCGAAGAAAAATATCTAAACATCGAAAAACTTA
AATATTATGAAAAAAAACATTGCAAAATATAAAATAAAATAAAAAAAGGAAAGGAACTTTGAACCTTATGTACC
GAGCAAAATGCCAGGTCTAGCAACATAATGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAA
AAATAGTAAATATAAAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTCAGCAAGTACAAAAATT
TAAAGCATTCTTTCTTTAATTTTGTAAATCTTTACTGTGGAATAGCTCAGAATGTCAGTTCTGTTTTAAGTAAC
AGAATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATTCTTGCTTTAATAAAAAATTCCTTAAACAGTG